Sarawak Government

Study to Develop Key Indicators for the Economy

POST COVID-19 DEVELOPMENT STRATEGY 2030 (ACTION AND IMPLEMENTATION PLAN)

Final Report Volume II
Economic Sectors

January 2022

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Table of contents

No.	Chapter	Page
1	**Economic Sectors**	
	1. Manufacturing	5
	2. Commercial Agriculture and Agro-Commodities	27
	3. Tourism	197
	4. Forestry	390
	5. Mining	510
	6. Social Services	531
2	**Additional Information**	
	2.1. Abbreviations	562
	2.2. List of Figures	575

1. Economic Sectors

1.1 Manufacturing

Aspiration for Manufacturing Sector

The manufacturing sector is one of the largest contributors to Sarawak's GDP. This sector aims to promote Sarawak as a preferred investment destination for high-value manufacturing. This is in addition to building an efficient ecosystem and nurturing a highly entrepreneurial community.

Manufacturers are looking to diversify their supply chains away to ASEAN countries from traditional powerhouses such as China. The plan will focus on augmenting domestic capabilities to support the shift in manufacturing ecosystems and attract investments to Sarawak.

Figure 1.1.1: Aspiration framework for manufacturing sector

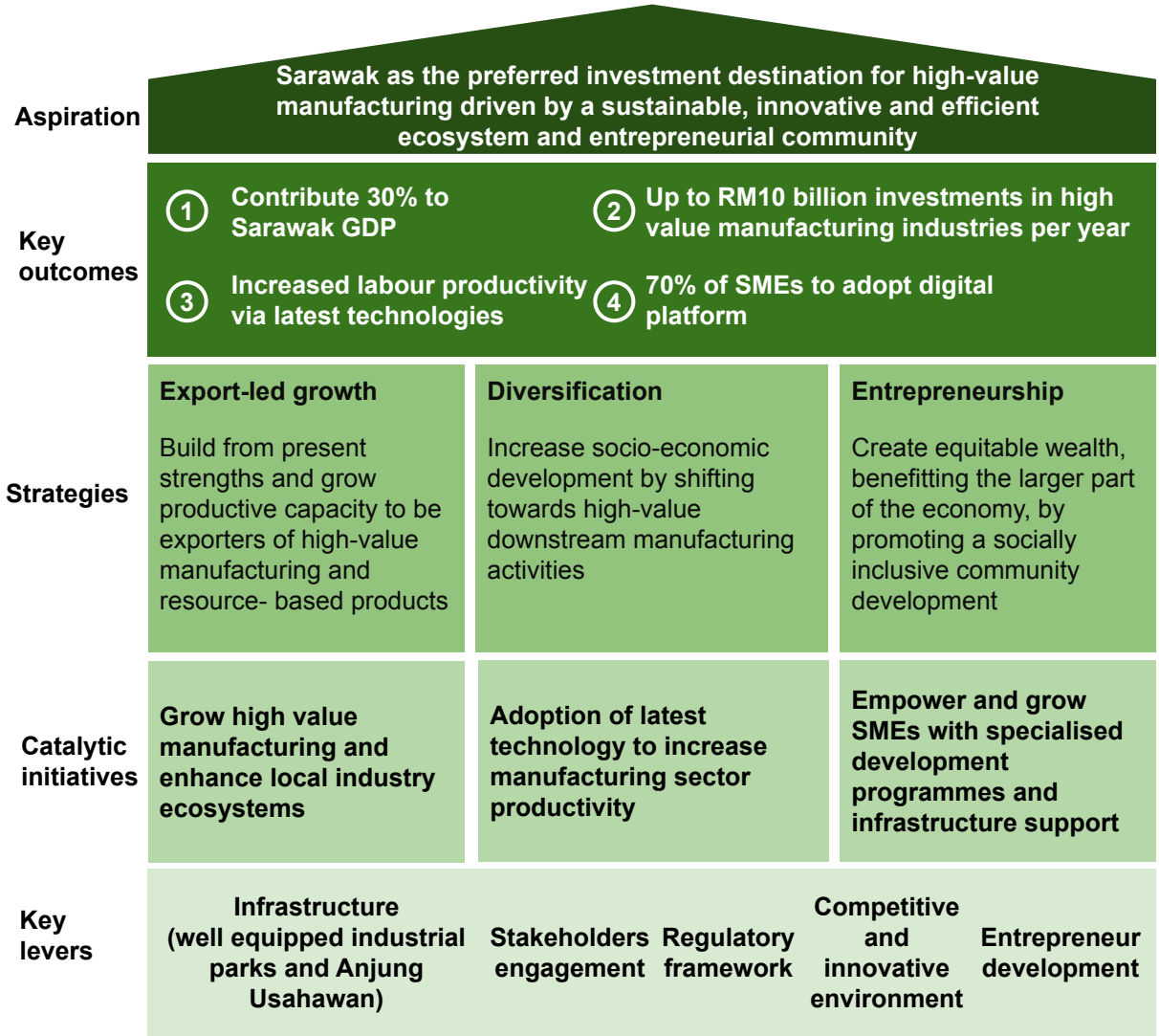

Figure 1.1.2: Summary of desired outcomes for manufacturing sector

Summary of key outcomes

Economic prosperity

30%
Contribution to GDP

RM40 bil
Quality DDI and FDI (Up to RM10 bil investments in high value manufacturing industries per year)

20% y-o-y increase
of export value of high tech product

10% y-o-y growth
of labour productivity (on par or above national productivity level)

70% SMEs adopt digital platform & **50%** increase in sales

Social inclusivity

Increase of annual income to **RM60,000**
By 2030

10,000
New employment opportunities in high tech related industry

6,000
New entrepreneurs developed

AIP Level 1 - Manufacturing sector

Sector	:	Manufacturing
Strategy	:	Export-led growth
Initiative	:	1. Grow high value manufacturing and enhance local industry ecosystem

Initiative	Desired Outcome (s)
1.Grow high value manufacturing and enhance local industry ecosystem **Description** ● Attract quality investment through high tech industry ● Intensify investment and trade promotion ● Establish InvestSarawak as a promotional arm ● Encourage downstream manufacturing activities	**Economic Prosperity** a) RM40 billion of quality investment (DDI and FDI) b) 20% y-o-y increase in export value for high tech related industry c) Increase of annual income: RM60,000 by 2030 (2020: RM43,503) **Social Inclusivity** a) Increase of annual income: RM60,000 by 2030 b) New employment opportunities in high tech related industry = 10,000 by 2030)

Timeline		Resources Required
Start Date	End Date	
2021	2030	**Policies / Regulations:** ● Improve Industrial Coordination Committee (ICC) processes ● Regulations related to industrial land (developed by MINTRED) ● Improve non-fiscal incentives (land, water, power, connectivity) ● Improve financial incentives **Funding:** ● 1.RM5 million per year for investment and Trade Promotion ● 2.RM800 million is for development for new high-tech park **RM670 million** for development of other industrial parks **Adequate supply of high-quality electricity for high tech park in Kuching** (based on SEB planning , the additional supply will only be available in 2026 / 2027)

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	Business communities, foreign investors, MIDA / MITI, EPU Sarawak, RECODA, MANRED, MOU, MUDeNR, MLGH and MOT

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Grow high value manufacturing and enhance local industry ecosystem
Action step	:	1.1

Action step (s)	Output (s)	Timeline	Resources required
1.1 Enhancement of current policies and regulations (ease of doing business)		**Start date**	
1. Identify issues on existing system (Reduce / eliminate unnecessary processes) 2. Proposed enhancement and budget required 3. Appointment of system developer 4. System design and review 5. User requirement test including Beta Testing / Testing rollout 6. Operationalise / System ready 7. Evaluation and monitoring	Enhancement of Electronic Industrial Coordination Committee (eICC) Shorten the period of evaluation	Jul 2021 **End date** Aug 2023	Funding: RM600,000 Manpower: IT expertise, investment expertise
1. Engagement with the relevant agencies that involved in investment facilitation in manufacturing sector - Review of power supply plan and power demand by prospective manufacturers [1] 1. Identify common areas for integration, issues on existing processes (Reduce / eliminate unnecessary processes) 2. Proposed solutions 3. Define TOR 4. Proposed enhancement and budget required 5. Submission of budget to MMKN 7. Appointment of consultant 8. System design and review 9. User requirement test including Beta Testing / Testing rollout 10. Operationalise / System ready 11. Evaluation and monitoring	Integrated system for Investment in Manufacturing Sector (e.g. investment application, land alienation, power supply, manpower, etc.) Shorten the period of investment application	**Start date** 2022 **End date** 2022 **Start date** Jan 2023 **End date** Mar 2023 **Start date** 2023 **End date** 2024	Funding: RM5 mil (MTR) Manpower: IT expertise, investment expertise

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	SAINS, SSMU	SFS, MESTR, MLGH, MOU, EPU Sarawak, SSMU, SMA, DoE, NREB, MIDA, SPA, Land & Survey (L&S), BDA, STIDC, FORESTRY, PETROS

Note: 1. This initiative correlate with Enhancing and sustaining electricity supply system initiative under Utilities sector.

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Grow high value manufacturing and enhance local industry ecosystem
Action step	:	1.2

Action step (s)	Output (s)	Timeline	Resources required
1.2 Enhancement of investment incentives		**Start date**	
1. Engagement with relevant agencies 2. Define TOR 3. Engagement with consultants a. To collate and examine / analyse all relevant information through stakeholders engagements b. Identify additional / supplementary incentives that can be offered by State, in addition to Federal Incentives 4. Draft policy paper: Submit MMKN paper if necessary 5. Implement approved policy 6. Monitor / Evaluate effectiveness of the incentives	More attractive investment incentives (e.g. special discount of land premium for strategic investment, etc.)	2021 **End date** 2022 **Start date** Jan 2022 **End date** Sep 2022 **Start date** Jul 2022 **End date** Dec 2022 **Start date** 2022 **End date** 2025	Funding: RM5 mil Manpower: Investment expertise

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	SAG, EPU Sarawak, PETROS, MUDeNR, MOU. SEB. water authorities, RECODA, L&S, InvestSarawak, BDA

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Grow high value manufacturing and enhance local industry ecosystem
Action step	:	1.3

Action step (s)	Output (s)	Timeline	Resources required
1.3 Intensify investment promotion		**Start date**	Funding: RM50 mil
a. Produce periodic intelligence reports at half yearly basis on global trends (economic, investment and politics) b. Produce / review yearly investment promotion programme c. Seek MMKN approval for overseas programme including funding d. Execute overseas investment promotion programme, based on the current situation e. Conduct post-promotion follow-ups, meetings, stakeholders engagement and facilitations f. Facilitate project investment through stakeholders engagements	**Targeted high value investment** in hydrogen, E&E, medical & pharmaceutical, petrochemical **5 international** investment promotion programmes per year	2021 **End date** 2030	

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED, InvestSarawak	EPU Sarawak, MANRED, RECODA, STATO, MIDA, MATRADE, MITI, PETROS, MTAC, MESTR, SEDC, STIDC, industry players

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Grow high value manufacturing and enhance local industry ecosystem
Action step	:	1.4

Action step (s)	Output (s)	Timeline	Resources required
1.4 Developing new industrial park for high tech activities		**Start date**	
A Pre- implementation / Project kick off 1. Siting 2. Land acquisition (RM400 mil) 3. Appointment of Consultant (RM20 mil) 4. Identify number of enterprises that will operate in the industrial park 5. Engagement session with SEB & other utilities provider on the demand projected (e.g. power, water) 6. Engagement session with potential investor on their investment planning **B Project implementation** 7. Tender 8. Construction (RM380 mil) **C Post – Implementation** 9. Monitoring / evaluation 10. Industrial park management, maintenance and upgrading of the facilities within the industrial park and coordination and facilitation of DDI & FDI as well as vacant lots/undeveloped lots by investors.	1,000 acres of high-tech industrial park equipped with infrastructure and facilities Good networking with utilities player to meet the demand from investors (e.g. power, water) immediately. Facilitate investors in realizing their investment planning	A - Feb 2022 B - Oct 2023 C - Jan 2024 **End date** Dec 2026	**Funding:** RM800 mil (RM3 mil approved for 12MP) **Adequate quality utilities and connectivity** supply (e.g. power, water, internet coverage, etc.)

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	EPU Sarawak, MIDA, SEB, water authorities, foreign investors

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Grow high value manufacturing and enhance local industry ecosystem
Action step	:	1.5

Action step (s)	Output (s)	Timeline	Resources required
1.5 Developing Demak Laut Industrial Park (DLIP)			
A Pre- implementation / Project kick off 1. Appointment of Consultant (RM15.5 mil) 2. Engagement session with SEB & other utilities provider on the demand projected (e.g power, water). 3. Engagement session with potential investor on their investment planning. **B Project implementation** 4. Tender 5. Construction **C Post – Implementation** 6. Monitoring / evaluation 7. Industrial park management, maintenance and upgrading of the facilities within the industrial park and coordination and facilitation of DDI & FDI as well as vacant lots/undeveloped lots by investors	276 acres of industrial park equipped with infrastructure and facilities for manufacturing activities. (DLIP 2C)	Start date 2021 End date 2023	RM75 mil (RM16 mil approved under 12 MP)
	285 acres of industrial park equipped with infrastructure and facilities for manufacturing activities (DLIP 2D)	Start date 2024 End date 2026	RM115 mil
	295 acres of industrial park equipped with infrastructure and facilities for manufacturing activities. (DLIP 2E)	Start date 2023 End date 2025	RM120 mil (RM1 mil approved under 12MP)

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	EPU Sarawak, SEB, water authorities, MUDeNR, MITI, SMEs

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Grow high value manufacturing and enhance local industry ecosystem
Action step	:	1.6

Action step (s)	Output (s)	Timeline	Resources required
1.6 Developing other industrial park / estates		**Start date**	
A Pre- Implementation / Project Kick Off 1. Appointment of Consultant 2. Engagement session with SEB & other utilities provider on the demand projected (e.g. power, water). 3. Engagement session with potential investor on their investment planning. **B Project Implementation** 4. Tender 5. Construction **C Post – Implementation** 6. Monitoring / evaluation 7. Industrial park management, maintenance and upgrading of the facilities within the industrial park and coordination and facilitation of DDI & FDI as well as vacant lots/undeveloped lots by investors	**On-going projects:** 1. Kapit Industrial Estate (2.2 hectares) 2. Sibu Industrial Estate (61 hectares) 3. Betong Industrial Park (19.6 hectares) 4. Sri Aman Industrial Park (5.52 hectares) 5. Samalaju SME Clusters (43.2 hectares) 6. Sematan Industrial Estate (5.36 hectares) 7. Bau Industrial Estate (10.82 hectares) 8. Rantau Panjang Industrial Estate Phase II (14.18 hectares) 9. Sebuyau Industrial Estate (10 hectares)	2021 **End date** 2030	RM137 mil (RM135 mil approved under 12 MP for Ongoing Projects)

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	EPU Sarawak, SEB, water authorities, MUDeNR, SMEs, business communities

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Grow high value manufacturing and enhance local industry ecosystem
Action step	:	1.7

Action step (s)	Output (s)	Timeline	Resources required
1.6 Developing other industrial park / estates		**Start date**	
A Pre- Implementation / Project Kick Off 1. Appointment of Consultant 2. Engagement session with SEB & other utilities provider on the demand projected (e.g power, water). 3. Engagement session with potential investor on their investment planning. **B Project Implementation** 4. Tender 5. Construction **C Post – Implementation** 6. Monitoring / evaluation	**New projects:** 1. Taman Perindustrian Lawas Phase 2 (30 hectares) 2. Taman Perindustrian Limbang (20 hectares) 3. Good networking with utilities player to meet the demand from investors (e.g. power, water) immediately. 4. Facilitate investors in realizing their investment planning	2021 **End date** 2030	RM137 mil (RM2 mil approved under 12 MP for new projects)

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	EPU Sarawak, SEB, water authorities, MUDeNR, SMEs, business communities

AIP Level 1 - Manufacturing sector

Sector	:	Manufacturing
Strategy	:	Diversification
Initiative	:	2. Adoption of modern technology to increase manufacturing sector productivity (i.e. IR4.0)

Initiative	Desired Outcome (s)
2. Adoption of modern technology to increase manufacturing sector productivity (i.e. IR4.0) ● Business Enhancement Programme (BEEP) - matching grant to purchase modern machineries / equipment ● Financial assistance ● Training	**Economic Prosperity** a) 10% y-o-y growth of labor productivity (on par or above National productivity level) b) Increase in annual income: RM60,000 by 2030 (2020: RM43,503)

Timeline		Resources Required
Start Date	End Date	
2021	2030	**Policies / Regulations:** ● Policies to encourage the adoption or use of modern technologies ● Sarawak SME Masterplan **Funding:** ● RM20 mil for Grow Big programme

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	Business communities, foreign investors, MIDA / MITI, EPU Sarawak, MPC, DoA, SEDC and STIDC

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Adoption of modern technology to increase manufacturing sector productivity (i.e. IR4.0)
Action step	:	2.1

Action step (s)	Output (s)	Timeline	Resources required
2.1 Adoption of modern technology to increase manufacturing sector productivity		**Start date**	RM5 mil
1. Stakeholders' engagement 2. Identify gaps on adoption of latest technology 3. Policy formulation 4. Promotion and information dissemination 5. Establish system for database management 6. Implementation & monitoring of policies and programme	Identified gaps on adoption of latest technology	2022	
		End date	
		2022	
	Policy and incentives with criteria	**Start date**	
		2022	
		End date	
		2022	
	10 seminars / workshop / dialogue per year 200 SME participated per year 10 SME benefited per year	**Start date**	
		2022	
		End date	
		2030	

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	MESTR, MANRED, SMA, business communities, MIDA, MITI, EPU Sarawak, MPC, DOA, SEDC, STIDC, SME Corp, higher learning and training institutions

AIP Level 1 - Manufacturing sector

Sector	:	Manufacturing
Strategy	:	Entrepreneurship
Initiative	:	3. Empower and grow SMEs with specialised development programmes and infrastructure support – Sarawak Entrepreneur Development (SEED) Program i. Informal sector entrepreneurship ii. Micro High Impact Programme (HIP) iii. Grow BIG

Initiative	Desired Outcome (s)
3. Empower and grow SMEs with specialised development programmes and infrastructure support Sarawak Entrepreneur Development (SEED) Program: ● Informal sector entrepreneurship ● Micro High Impact Programme (HIP) ● Grow BIG	**Economic Prosperity** a) 6,000 new entrepreneurs developed [informal to formal business] b) 70% SMEs adopt digital platform c) 50% increase in sales through promotional programmes d) 20% y-o-y increase in e-Commerce Income

Timeline		Resources Required
Start Date	End Date	
2021	2025	**Policies / Regulations:** ● Improve business registration & permits ● Sarawak SME Masterplan **Funding:** ● RM178.9 mil for programmes / financial assistance ● 17 New Anjung Usahawan / Mini Industrial Park: Total RM192 mil

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	MLGH, SSMU, SMA, SEDC, SDEC, AGROBANK, DoA, JKMNS, STIDC, CRAUN and SBC

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Empower and grow SMEs with specialised development programmes and infrastructure support – Sarawak Entrepreneur Development (SEED) Program i. Informal sector entrepreneurship ii. Micro High Impact Programme (HIP) iii. Grow BIG
Action step	:	3.1

Action step (s)	Output (s)	Timeline	Resources required
3.1 Undertake study on Sarawak SME		**Start date**	
1. Stakeholders Engagement- Identify participants from industrial players, SMEs, local vendors and suppliers 2. Develop and analyse baseline data 3. Develop the framework and TOR 4. Develop budget 6. Implementation and operationalisation of the masterplan 7. Detailed Business Enhancement Programme (BEEP) implementation framework 8. Monitoring and evaluation	Sarawak SME Master plan	2021 **End date** 2022 **Start date** 2022 **End date** 2025	RM8 mil

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	EPU Sarawak, relevant agencies, business communities

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Empower and grow SMEs with specialised development programmes and infrastructure support – Sarawak Entrepreneur Development (SEED) Program i. Informal sector entrepreneurship ii. Micro High Impact Programme (HIP) iii. Grow BIG
Action step	:	3.2

Action step (s)	Output (s)	Timeline	Resources required
3.2 Strengthening stakeholder collaboration		**Start date**	RM500,000
1. Identify issues and gap analysis for value added entrepreneurship activities 2. Identify participants from related government agencies, industrial players and SMEs 3. Engagement session 5. Identify strategies, action plan and implementation mechanism 6. Develop policy, guidelines and enhance criteria to promote value added entrepreneurship activities 7. Communicate and promote programme	At least 10 stakeholders' engagement and collaboration yearly (e.g. SEDCC, dialogue, etc.)	2021 **End date** 2022 **Start date** 2021 **End date** 2025	

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	Relevant government agencies, industry players

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Empower and grow SMEs with specialised development programmes and infrastructure support – Sarawak Entrepreneur Development (SEED) Program i. Informal sector entrepreneurship ii. Micro High Impact Programme (HIP) iii. Grow BIG
Action step	:	3.3

Action step (s)	Output (s)	Timeline	Resources required
3.3 Enhancing entrepreneurs database		**Start date**	
a. Identify issues of existing database b. Proposed enhancement Framework includes budget required c. Update database d. Beta Testing / Testing rollout e. Evaluation f. Implementation and operationalise across sectors g. Monitoring and maintenance	Integrated Entrepreneur System (BNR, EDMS, etc.)	2021 **End date** 2023	Funding: RM5 mil Manpower: IT Expertise / Data Analyst

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED, SSMU, SMA, SAINS	SFS, Unit Pentadbiran JKM, SME Corp, DOSM, SSM, HASIL, PERKESO, KWPKK, Jabatan Wanita, Jabatan Kebajikan, SEDC, DOA, STIDC, MLGH

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Empower and grow SMEs with specialised development programmes and infrastructure support – Sarawak Entrepreneur Development (SEED) Program i. Informal sector entrepreneurship ii. Micro High Impact Programme (HIP) iii. Grow BIG
Action step	:	3.4

Action step (s)	Output (s)	Timeline	Resources required
3.4 Capacity building		**Start date**	RM11.5 mil
1. Develop entrepreneurship module and requirement 2. Identify participants to be train and participate in entrepreneurship programmes 3. Implementation of entrepreneurship programmes 4. Collaboration with other relevant agencies or stakeholders 5. Coordination, monitoring and track result of capacity building programme	1. Entrepreneurship training program (e.g. Basic Entrepreneurship Programme, Food Processing, Digital Marketing Programme, Technical Skills for Entrepreneur) • 200 entrepreneurship programmes implemented • 20,000 entrepreneur trained • 6,000 new company registered • 5,000 onboard digital platform	2021 **End date** 2025	

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED, relevant agencies	RANDO, SDEC, SME Corp, SEDC, higher learning institutions, business communities

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Empower and grow SMEs with specialised development programmes and infrastructure support – Sarawak Entrepreneur Development (SEED) Program i. Informal sector entrepreneurship ii. Micro High Impact Programme (HIP) iii. Grow BIG
Action step	:	3.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	2. Product development 300 entrepreneur assisted in product development (Ceramic Incubator, Product Based Community Program) 1,000 entrepreneurs obtain certification (HALAL, Food Handling, HACPP) 100 entrepreneurs diversify products (OEM, ODM)	**Start date** 2021 **End date** 2025	**Funding:** RM2 mil

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	CRAUN, MARDI, MPC, CENTEX, STANDARDS, SIRIM, SBC

Action step (s)	Output (s)	Timeline	Resources required
	Market Access (e.g. International / National Expos, Showcase, SDSI, Online / Offline Marketplace) 5,000 products promoted 10,000 entrepreneurs participated in promotion programmes	**Start date** 2021 **End date** 2025	**Funding:** RM115 mil

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	EPU Sarawak, SPA, City Councils, BOMBA, DID, SEB, KWB

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Empower and grow SMEs with specialised development programmes and infrastructure support – Sarawak Entrepreneur Development (SEED) Program i. Informal sector entrepreneurship ii. Micro High Impact Programme (HIP) iii. Grow BIG
Action step	:	3.5

Action step (s)	Output (s)	Timeline	Resources required
3.5 Financial assistance		**Start date**	
a. Identify SMEs needs and requirement (Soft loans / grants) b. Develop policy paper, guidelines and criteria c. Collaborate with financial institution / agencies to provide financial assistance d. Communicate and promotes financial assistance provided for SMEs as well as micro entrepreneur e. Receive application from SMEs f. Approval and disbursement g. Monitoring and evaluation	6,000 entrepreneurs benefited from financial assistance	2021 **End date** 2025	**Funding:** RM112 mil **Manpower:** Special project officer

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED, SEDC, Agrobank, SDEC	RANDO, SME Corp, business communities

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Empower and grow SMEs with specialised development programmes and infrastructure support – Sarawak Entrepreneur Development (SEED) Program i. Informal sector entrepreneurship ii. Micro High Impact Programme (HIP) iii. Grow BIG
Action step	:	3.6

Action step (s)	Output (s)	Timeline	Resources required
3.6 Infrastructure support		**Start date**	RM115 mil (RM41.5 mil approved under 12MP)
A Pre-Implementation / Project Kick Off 1. Siting 2. Land acquisition 3. Appointment of Consultant 4. Engagement session with SEB & other utilities provider on the demand projected (e.g power, water). 5. Engagement session with potential entrepreneur to explain on facilities available at the proposed Anjung Usahawan	23 Anjung usahawan and business premises developed Good networking with utilities player to meet the demand from investors (e.g. power, water) immediately. Facilitate entrepreneur expanding their business.	Nov 2021 **End date** Jun 2025 **Start date** Jun 2022 **End date** Jun 2025	
B Project Implementation 6. Tender		**Start date** Sep 2023 **End date** Jun 2025	
7. Construction		**Start date** Jan 2024 **End date** Jun 2025	
C Post-Implementation 8. Monitoring / evaluation		**Start date** Apr 2024 **End date** Jun 2025	

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	EPU Sarawak, SPA, City Councils, BOMBA, DID, SEB, KWB

AIP Level 2 - Manufacturing sector

Sector	:	Manufacturing
Initiative	:	Empower and grow SMEs with specialised development programmes and infrastructure support – Sarawak Entrepreneur Development (SEED) Program i. Informal sector entrepreneurship ii. Micro High Impact Programme (HIP) iii. Grow BIG
Action step	:	3.7

Action step (s)	Output (s)	Timeline	Resources required
3.7 Monitoring and evaluation		**Start date**	
1. Compilation of reports / data of entrepreneurship activities 2. Report / Data analysis 3. Identify the gap and issues 4. Recommendation for enhancement 5. Approval and endorsement by stakeholders 6. Implement the recommendation endorsed 7. Communicate and promote recommended initiatives 8. Continuous monitoring and evaluation	Annual evaluation report	2021 **End date** 2025	**Funding:** RM450,000 **Manpower:** Economist / data analyst

Project Owner	Implementing Agency	Other Stakeholders
MINTRED	MINTRED	Relevant agencies and stakeholders

1.2 Commercial Agriculture and Agro-Commodities

Aspiration for Commercial Agriculture and Agro-Commodities Sector

Food and Agriculture Organisation (FAO) estimates an 11% increase in global population and rise in per capita income leads to a 15% increase in global food consumption. Asia Pacific is expected to drive food demand as it is the most populous region (50% of global population in 2029).

Agriculture sector plays an important role to Sarawak's transformation due to its abundant primary agricultural resources that can be capitalised on. The agriculture sector is expected to drive business, create employment opportunities and provide stable income for the rural community. Transformation and increase in production at the upstream level of the agricultural sector will provide ready raw material to support growth of downstream sectors.

This sector aspires to be technology-driven and sustainable, to ensure food security and safety, to create wealth for the agro-based community and to position Sarawak as a net food exporter by 2030. The plan will leverage the abundance of primary agricultural resources and modernise processes to ensure sustainable growth and increased productivity.

Figure 1.2.1: Aspiration framework for commercial agriculture and agro-commodities sector

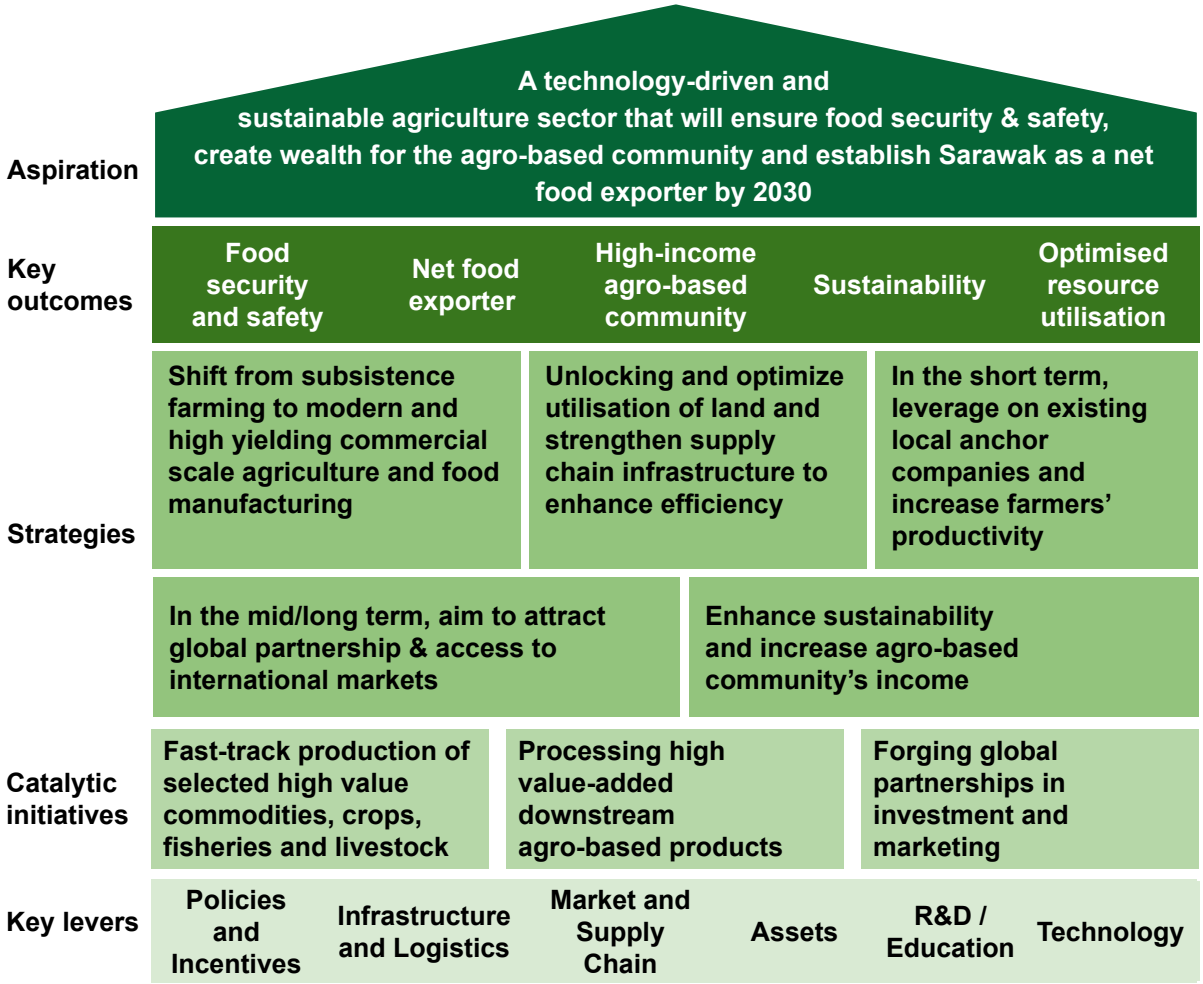

Figure 1.2.2: Summary of desired outcomes for commercial agriculture and agro-commodities sector

Summary of key outcomes

Economic prosperity

50%
Poor households receive monthly income above Poverty Line Income (PLI) level

178,108 metric tonne (MT) / year
of high-quality agriculture produce by 2025. Additional 21,600 MT / year by 2030

RM1.7 bil / year
of export value by 2030

RM130.8 bil
Public and private investments

500
Skilled farmers and high-tech agro-entrepreneur with monthly income of **RM6,000** and above

Social inclusivity

50%
Of participants in Agro park, precision farming and ruminant industry development programmes comprised of poor rural households

90% of paddy and rice industry and **80%** of fisheries industry development programmes comprised of poor rural households

> 170,000
members of Farmers Institution in Sarawak and **28,000** indigenous families benefit from guaranteed market and steady price of agricultural produce

12,155
Jobs created by 2030

Environment sustainability

153,600 ha
Area maintained as green area

5%
Increase in absorption rate of CO_2

100%
Application of Good Agricultural Practices (GAP)

100%
Application of Good Animal Husbandry Practices (GAHP)

100%
GMP and certified oleochemical ingredients

100%
compliance to physical Certified Sustainable Palm Oil, MSPO and RSPO standards

100%
GMP, HACCP and HALAL, GHM, GHP certified

AIP Level 1 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Strategy	:	1. Shift from subsistence farming to modern and high yielding commercial scale agriculture & food processing 2. Unlocking and optimise utilisation of land and strengthen supply chain infrastructure to enhance efficiency & competitiveness 3. In the short term, leverage on existing local anchor companies and increase farmer productivity 4. Enhance sustainability and increase agro-based community's income
Initiative	:	1. Agro Park development programme

Initiative	Desired Outcome (s)
1. Agro Park development programme	**Economic Prosperity** ● 10% of poor households receive monthly income above PLI level ● 250 skilled and high-tech agro-entrepreneur with monthly income of RM6,000 and above ● 175,000 MT / year worth RM122.5 mil / year of high-quality agriculture produces by 2025 ● 35 mil MT / year worth RM24.5 mil / year of food export value by 2025 ● Six (6) anchor companies with RM76 mil worth of investment. ● RM76 million worth of investment awarded to local contractors that provides job opportunities ● Creation of RM2 bil multiplier effect through direct and indirect value supply chain development and operationalisation **Social Inclusivity** ● 50% of Agro Park Development Programme's participants comprised of poor rural households. ● 50% of land owners within 20 KM radius of Agro Park participated as outgrowers to agro Park's Anchor Company. **Environment Sustainability** ● 100% application of Good Agricultural Practices (GAP). ● Increase 50% efficiency in usage of resources such as water. ● 3,500 ha area maintained as green area. ● 5% increase in absorption rate of CO_2

Timeline		Resources Required
Start Date	End Date	
2021	2025	RM500 mil

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SLDB, LCDA	MIPD, MOU, MINTRED, DID, L&S, SMA, R&DO, JBALB, SEB, PBT, anchor companies, private investors

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme
Action step	:	1.1

Action step (s)	Output (s)	Timeline	Resources required
1.1 Sg. Baji Agropark		Start date	
1.1.1 Policy, guidelines and incentives formulation 1. Development of agriculture policy 2. Agropark Management and operation SOP 3. Incentives and allowances	1. Agriculture development blueprint 2. Guideline for Agropark Management and operation SOP developed 3. Proposed incentive and allowances approved	Jan 2021 End date Dec 2021	
1.1.2 Development Model: Build, Operate & Transfer (BOT) 1. Engagement and Selection of potential anchor company 2. Engagement and selection of potential participants (agro-entrepreneurs) 3. Handing over SPH to participants	1. 1 anchor company with RM50 mil investment 2. 70 skilled and high-tech agro-entrepreneur selected with monthly income above Poverty Level Income - Technology transfer and training for participants (planting and harvesting) 3. 32 SPH handed over - 1 farming lot (50m X 40m) consist of 2 units of SPH equipped with pump house, office, store, toilet, nursery and collection are (proposed crops are golden rock melon and chili planting)	Start date Jan 2022	
1.1.3 Business Model: Public-Private-Community Partnership 1. Park Operation Management: by Special Purpose Vehicle	1. Collaboration between government and private sector	End date	
1.1.4 Regulation 1. Incentives 2. One-Stop Centre 3. Legislation	1. Financial and fiscal incentives for investment provided for Anchor company and agro-entrepreneur i. Grants and loan ii. Sales Tax 2. Delivery of administration services to business 3. Establish letter of agreement or MOU for Anchor company and agro-entrepreneur	Dec 2022	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
1.1.5 Pre-Implementation (Planning and Procurement Process) 1. Siting application and approval 2. Appointment of implementing agency 3. Appointment of consultant 4. Site Visit and Report 5. Topography survey & soil investigation 6. Preliminary site layout and schematic design 7. Preliminary costing 8. Proposal Approval by client 9. Masterplan submission and approval by SPA	1. 127 Ha approved for Sg. Baji Agropark 2. Implementing agency appointed 3. Consultant appointed 4. Site Analysis Report 5. Soil details Report 6. Draft Proposal of Site layout and schematic design 7. Cost estimate 8. Approved proposed Masterplan 9. Approved Masterplan	**Start date** Sep 2021	State Fund amounting to RM180 mil (RM29 mil approved under RMK-12 to cover 20 acres area) **Package 3:** i. Consist of infrastructure development which include utilities, communication & connectivity, IOT, operation and maintenance. ii. The package also include development of agriculture facilities such as farming facilities, external works, electrical & mechanical works as well as development of farming plot. **Package 4:** (remaining 60 acres) - estimated cost of RM151 mil
1.1.6 Project implementation (infrastructure development) 1. Appointment of contractor a. Preparation of tender / drawing documents b. Tender advertisement c. Tender evaluation and award d. Implementation	a. Site clearing and earthworks of 127 ha of area b. Road and Drainage Systems c. Water reticulation and substation for electrical and water supply d. Communication tower e. IOT	**End date** Dec 2025	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
1.1.6 Project implementation (cont'd) 2. Appointment of contractor a. Appointment of consultant for detail design and costing of SPH facilities b. Confirmation and approval of detail design by implementing agency c. Appointment of contractor d. Preparation of tender / drawing documents e. Tender advertisement f. Tender evaluation and award g. Implementation	Agriculture component 1. Setting up of 32 units of SPH is in progress a. Size per SPH: 18m x 36m x 6m b. 2,080 polybags per SPH 2. Farming facilities and plot a. 1 farming lot (50m X 40m) consist of 2 units of SPH equipped with pump house, office, store, toilet, nursery and collection area. 3. Establishment of CPPC	**Start date** Sep 2021 **End date**	-
1.1.7 Completion and commencement of operation 1. Developing Best Farming Practices SOP and conduct training for participants 2. Production 3. Monitoring and Evaluation 4. Marketing 5. Engagement with relevant agencies	1. Best Farming Practices SOP developed and training conducted 2. 11,964 MT/year worth RM60 mil/year of high quality agriculture produces by 2025 3. 2,400 MT/year worth RM RM12 Mil /year of food export value by 2025 4. Physical and financial Report 5. website and social media channel 6. minimum of 3 agencies being approached	Dec 2025	
6. Establishment of processing facilities	To promote downstream activities from the existing production	**Start date** Jan 2025 **End date** Dec 2026	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.1 (cont'd)

Project Owner	Implementing Agency	Other Stakeholders
MANRED	LCDA	R&DO, SMA, EPU Sarawak, SFS, RECODA, programme participants, FAMA, MINTRED, PPNS, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.2

Action step (s)	Output (s)	Timeline	Resources required
1.2 Asajaya		Start date	
1.2.1 Policy, guidelines and incentives formulation 1. Development of agriculture policy 2. Agropark Management and operation SOP 3. Incentives and allowances	1. Agriculture development blueprint 2. Guideline for Agropark Management and operation SOP developed 3. Proposed incentive and allowances approved	Jan 2021 End date Dec 2021	
1.2.2 Development Model: BOT 1. Selection of potential anchor company 2. Engagement and selection of potential participants (agro-entrepreneurs) 3. Handing over farming plot to participants	1. 1 anchor company with RM15 million investment 2. 20 skilled and high-tech participants / agro entrepreneurs with monthly income above PLI 3. 20 farming plot handed over to participants / farmers a. Each farmer to be offered to develop an area of 5 ha b. Proposed to plant pineapple / cash crops	Start date Sep 2021	
1.2.3 Business Model: Public-Private-Community Partnership 1. Park Operation Management: by Special Purpose Vehicle	1. Collaboration between government and private sector	End date	
1.2.4 Regulation 1. Incentives 2. One-Stop Centre 3. Legislation	1. Financial and fiscal incentives for investment provided for Anchor company and agro-entrepreneur a. Grants and loan b. Sales Tax 2. Delivery of administration services to business 3. Establish letter of agreement or MOU for Anchor company and agro-entrepreneur / participants	Dec 2025	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
1.2.5 Pre-Implementation (Planning and Procurement Process) 1. Siting application and approval 2. Appointment of implementing agency 3. Appointment of consultant 4. Site Visit and Report 5. Topography survey & soil investigation 6. Preliminary site layout and schematic design 7. Preliminary costing 8. Proposal Approval by client 9. Masterplan submission and approval by SPA	1. 870 ha approved for Asajaya Agropark 2. Implementing agency appointed 3. Alienation of land 4. Consultant appointed 5. Site Analysis report 6. Feasibility, perimeter survey work report, Topography survey and soil investigation 7. Site layout and schematic design proposed 8. Costing estimated 9. Approved Proposed Masterplan 10. Approved Masterplan	**Start date** Jan 2022 **End date** Dec 2022	RM1 mil (approved under RMK12)
1.2.6 Project implementation (infrastructure development) 1. Appointment of contractor a. Preparation of tender / drawing documents b. Tender advertisement c. Tender evaluation and award d. Implementation	a. Site clearing and earthworks of 870 ha of area b. Road and Drainage Systems c. Water reticulation and substation for electrical and water supply d. Communication tower e. IOT	**Start date** Jan 2023	
2. Construction and completion of Agriculture Facilities & Plots a. Appointment of consultant for detail design and costing of farming facilities b. Confirmation and approval of detail design by implementing agency c. Appointment of contractor	1. Farming facilities and plot a. 100 ha to be proposed for selected farmers for 20 farming plots 2. Establishment of Collecting, Processing and Packaging Centre (CPPC)	**End date** Dec 2025	RM50 mil (State Funding)

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
1.2.7 Completion and commencement of operation 1. Developing Best Farming Practices SOP and conduct training for participants 2. Production 3. Monitoring and Evaluation 4. Marketing 5. Engagement with relevant agencies	1. Best Farming Practices SOP developed and training conducted 2. 14,400 MT /year worth RM86 mil of high quality agriculture produces by 2025 3. 2,880 MT /year worth RM17 mil of food export value by 2025 4. Physical and financial Report 5. website and social media channel 6. minimum of 3 agencies being approached	**Start date** Jan 2023 **End date** Dec 2025	
6. Establishment of processing facilities	To promote downstream activities from the existing production	**Start date** Jan 2025 **End date** Dec 2026	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	LCDA	MANRED, Joint Venture Capital (JVC), R&DO, L&S, programme participants, FAMA, MINTRED, PPNS, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.3

Action step (s)	Output (s)	Timeline	Resources required
1.3 Lubok Tamang		Start date	
1.3.1 Policy, guidelines and incentives formulation 1. Development of agriculture policy 2. Agropark Management and operation SOP 3. Incentives and allowances	1. Agriculture development blueprint 2. Guideline for Agropark Management and operation SOP developed 3. Proposed incentive and allowances approved	Jan 2021 End date Dec 2021	
1.3.2 Development Model: BOT 1. Selection of potential anchor company 2. Engagement and selection of potential participants (agro-entrepreneurs) 3. Handing over farming plot to participants	1. 1 anchor company with RM20 million investment 2. 42 skilled and high-tech agro entrepreneur with monthly income above Poverty Level Income 3. 42 farming plot handed over to participants / farmers a. Each farmer to be offered to develop an area of 2 ha b. Proposed to plant pineapple / cash crops	Start date Jan 2022	
1.3.3 Business Model: Public-Private-Community Partnership 1. Park Operation Management: by Special Purpose Vehicle	1. Collaboration between government and private sector	End date	
1.3.4 Regulation 1. Incentives 2. One-Stop Centre 3. Legislation	1. Financial and fiscal incentives for investment provided for Anchor company and agro-entrepreneur a. Grants and loan b. Sales Tax 2. Delivery of administration services to business 3. Establish letter of agreement or MOU for Anchor company and agro-entrepreneur / participants	Dec 2025	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
1.3.5 Pre-Implementation (Planning and Procurement Process) 1. Siting application and approval 2. Appointment of implementing agency 3. Land Acquisition & Crop Compensation 4. Appointment of Consultant 5. Site Visit and Report 6. Feasibility Study and Perimeter Survey work 7. Preliminary site layout and schematic design 8. Preliminary costing 9. Proposal Approval by client 10. Masterplan submission and approval by SPA	1. 763 Ha approved for Lubok Tamang Agropark 2. Implementing agency appointed 3. Alienation of land 4. Consultant appointed 5. Site Analysis 6. Feasibility, EIA study, perimeter survey work report, Topography survey and soil investigation 7. Site layout and schematic design proposed 8. Costing estimated 9. Approved Proposed Masterplan 10. Approved Masterplan	**Start date** Jan 2022	RM300 mil (to be approved under alternative funding) RM20 mil (funding from investor)
1.3.6 Project implementation (infrastructure development) 1. Appointment of contractor a. Preparation of tender / drawing documents b. Tender advertisement c. Tender evaluation and award d. Implementation	a. Site clearing b. Road and Drainage Systems c. Electrical and water supply d. Communication tower e. IOT	**End date** Dec 2025	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
1.3.6 Project implementation (cont'd) 2. Construction and completion of Agriculture Facilities & Plots a. Appointment of consultant for detail design and costing of farming facilities b. Confirmation and approval of detail design by implementing agency c. Appointment of contractor	1. Farming facilities and plot a. 84 ha to be proposed for selected farmers for 42 farming plots 2. Establishment of CPPC	Start date Jan 2022	-
1.3.7 Completion and commencement of operation 1. Developing Best Farming Practices SOP and conduct training for participants 2. Production 3. Monitoring and Evaluation 4. Marketing 5. Engagement with relevant agencies	1. Best Farming Practices SOP developed and training conducted 2. 21,024 MT/year worth RM126 million of high quality agriculture produces by 2025 3. 4,200 MT /year worth RM25 million of food export value by 2025 4. Physical and financial Report 5. website and social media channel 6. minimum of 3 agencies being approached	End date Dec 2025	
6. Establishment of processing facilities	To promote downstream activities from the existing production	Start date Jan 2025 End date Dec 2026	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	LCDA	MANRED, JVC, R&DO, L&S, programme participants, FAMA, MINTRED, PPNS, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.4

Action step (s)	Output (s)	Timeline	Resources required
1.4 Sg. Tisak, Sri Aman		Start date	
1.4.1 Policy, guidelines and incentives formulation 1. Development of agriculture policy 2. Agropark Management and operation SOP 3. Incentives and allowances	1. Agriculture development blueprint 2. Guideline for Agropark Management and operation SOP developed 3. Proposed incentive and allowances approved	Nov 2021 End date Mar 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SLDB	Private sector, smallholders

Action step (s)	Output (s)	Timeline	Resources required
1.4.2 Pre-implementation / Project Kick-off 1. Identify, propose and approval of the site 2. Siting application and approval (Land acquisition and crop Compensation) 3. Appointment of implementing agency	1. Site identified and approved by Ministry 2. 274 ha approved for Sg. Tisak Agropark 3. SLDB appointed as the implementing agency	Start date Jan 2022 End date Jun 2022	Approved budget: RM10 mil (alternative funding) Estimated project cost: Land acquisition and crop compensation: RM28.4 mil Infrastructure construction cost: RM33 mil Consultant fee, Management fee and Supervision Cost: RM4.7 mil Total: RM66.1 mil
1.4.3 Project Implementation 1. Appointment of consultant	1. Appointment of Consultant	Start date Jul 2022 End date Sep 2022	
2. Engineering design (C&S, M&E, EIA, SI, Topographical survey, etc.)	2. Site Analysis Report, Engineering detail drawing and costing	Start date Oct 2022 End date Mar 2023	
3. Authority approval (SPA, DID, NREB)	3. Engineering plan and report output	Start date Jan 2023 End date Mar 2023	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
1.4.3 Project Implementation (cont'd) 4. Tender and award of project	4. Project awarded to contractor	Start date: Apr 2023 End date: Jun 2023	-
5. Construction and Completion of the Infrastructure	5. Infrastructure works completed	Start date: Jul 2023 End date: Jun 2024	
1.4.4 Business Model: Public-Private-Community Partnership 1. Engagement and Selection of potential anchor company 2. Park Operation Management: by Special Purpose Vehicle	1. 1 Anchor company 2. Collaboration between government and private sector. Licensing Agreement signed	Start date: Jul 2023 End date: Jun 2024	-
1.4.5 Completion and commencement of operation 1. Farm development by anchor company (practicing MyGAP) 2. Production 3. Marketing 4. Monitoring and Evaluation	1. Project commence 2. 274,000 coconut standing points & 27 million nuts production annually 3. Local & Export markets 4. Physical and financial Report	Start date: 2024 End date: 2027	-

Project Owner	Implementing Agency	Other Stakeholders
DOA	SLDB	MANRED, SADA, anchor company, programme participants

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.5

Action step (s)	Output (s)	Timeline	Resources required
1.5 Bebuling, Spaoh		**Start date**	
1.5.1 Policy, guidelines and incentives formulation 1. Development of agriculture policy 2. Agropark Management and operation SOP 3. Incentives and allowances	1. Agriculture development blueprint 2. Guideline for Agropark Management and operation SOP developed 3. Proposed incentive and allowances approved	Nov 2021 **End date** Mar 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SLDB	Private sector, smallholders

Action step (s)	Output (s)	Timeline	Resources required
1.5.2 Pre-implementation / Project Kick-off 1. Identify, propose and approval of the site 2. Siting application and approval (Land acquisition and crop Compensation) 3. Appointment of implementing agency	1. Site identified and approved by Ministry 2. 250 ha approved for Bebuling Agropark 3. SLDB appointed as the implementing agency	**Start date** Jan 2022 **End date** Jun 2022	Approved budget: RM50 mil (alternative funding) Estimated project cost: Land acquisition and crop compensation: RM27 mil Infrastructure construction cost: RM19.8 mil Consultant fee, Management fee and Supervision Cost: RM3.2 mil Total: RM50 mil
1.5.3 Project Implementation 1. Appointment of consultant	1. Appointment of Consultant	**Start date** Jul 2022 **End date** Sep 2022	
2. Engineering design (C&S, M&E, EIA, SI, Topographical survey, etc.)	2. Site Analysis Report, Engineering detail drawing and costing	**Start date** Oct 2022 **End date** Mar 2023	
3. Authority approval (SPA, DID, NREB)	3. Engineering plan and report output	**Start date** Jan 2023 **End date** Mar 2023	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
1.5.3 Project Implementation (cont'd) 4. Tender and award of project	4. Project awarded to contractor	**Start date** Apr 2023 **End date** Jun 2023	-
5. Construction and Completion of the Infrastructure	5. Infrastructure works completed	**Start date** Jul 2023 **End date** Jun 2024	
1.5.4 Business Model: Public-Private-Community Partnership 1. Engagement and Selection of potential anchor company 2. Park Operation Management: by Special Purpose Vehicle	1. 1 Anchor company 2. Collaboration between government and private sector. Licensing Agreement signed	**Start date** Jul 2023 **End date** Jun 2024	-
1.5.5 Completion and commencement of operation 1. Farm development by anchor company (practicing MyGAP) 2. Production 3. Marketing 4. Monitoring and Evaluation	1. Project commence 2. 250,000 coconut standing points & 25 million nuts production annually 3. Local & Export markets 4. Physical and financial Report	**Start date** 2024 **End date** 2027	-

Project Owner	Implementing Agency	Other Stakeholders
DOA	SLDB	MANRED, SADA, anchor company, programme participants

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.6

Action step (s)	Output (s)	Timeline	Resources required
1.6 Parit Bugis, Sarikei		**Start date**	
1.6.1 Policy, guidelines and incentives formulation 1. Development of agriculture policy 2. Agropark Management and operation SOP 3. Incentives and allowances	1. Agriculture development blueprint 2. Guideline for Agropark Management and operation SOP developed 3. Proposed incentive and allowances approved	Nov 2021 **End date** Mar 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SLDB	Private sector, smallholders

Action step (s)	Output (s)	Timeline	Resources required
1.6.2 Pre-implementation / Project Kick-off 1. Siting application and approval 2. Land Acquisition and Crop Compensation 3. Appointment of implementing agency	1. 684 ha approved for Parit Bugis Agropark 2. Land Acquired 3. SLDB appointed as the implementing agency	**Start date** Jun 2022 **End date** Mar 2022	Approved budget: RM50 mil (alternative funding) Estimated project cost: Land acquisition and crop compensation: RM3.2 mil Infrastructure construction cost: RM40.8 mil Consultant fee, Management fee and Supervision Cost: RM6 mil Total: RM50 mil
1.6.3 Project Implementation 1. Appointment of consultant	1. Appointment of Consultant	**Start date** Apr 2022 **End date** Jun 2022	
2. Engineering design (C&S, M&E, EIA, SI, Topographical survey, etc.)	2. Site Analysis Report, Engineering detail drawing and costing	**Start date** Jul 2022 **End date** Dec 2022	
3. Authority approval (SPA, DID, NREB)	3. Engineering plan and report output	**Start date** Oct 2022 **End date** Dec 2022	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	1. Agro Park development programme (cont'd)
Action step	:	1.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
1.6.3 Project Implementation (cont'd) 4. Tender and award of project	4. Project awarded to contractor	**Start date** Jan 2023 **End date** Mar 2023	-
5. Construction and Completion of the Infrastructure	5. Infrastructure works completed	**Start date** Apr 2023 **End date** Sep 2024	
1.6.4 Business Model: Public-Private-Community Partnership 1. Engagement and Selection of potential anchor company 2. Engagement and selection of potential participants (agro-entrepreneurs) 3. Park Operation Management: by Special Purpose Vehicle	1. 1 Anchor company 2. Develop agropreneurs 3. Collaboration between government and private sector. Licensing Agreement signed	**Start date** Apr 2023 **End date** Sep 2024	-
1.5.5 Completion and commencement of operation 1. Farm development by anchor company (practicing MyGAP) 2. Production 3. Marketing 4. Monitoring and Evaluation	1. Project commence 2. Pineapple 3. Local & Export markets 4. Physical and financial Report	**Start date** 2024 **End date** 2025	-

Project Owner	Implementing Agency	Other Stakeholders
DOA	SLDB	MANRED, SADA, anchor company, programme participants

AIP Level 1 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Strategy	:	1. Shift from subsistence farming to modern and high yielding commercial scale agriculture & food processing 2. Unlocking and optimise utilisation of land and strengthen supply chain infrastructure to enhance efficiency & competitiveness 3. Enhance sustainability and increase agro-based community's income
Initiative	:	2. Precision Farming development programme

Initiative	Desired Outcome (s)
2. Precision Farming development programme	**Economic Prosperity** ● 50% of poor households receive monthly income above PLI level ● 150 skilled and high-tech agro-entrepreneur with monthly income of RM6,000 & above ● 3,108 MT /year of high value agriculture produces by 2025. ● RM150 million worth of investment awarded to local contractors that provides job opportunities ● Creation of RM500 million multiplier effect through direct and indirect value supply chain development and operationalisation **Social Inclusivity** ● 50% of Precision Farming Development Programme's participants comprised of poor rural households **Environment Sustainability** ● 100% application of GAP ● Increase 50% efficiency in usage of resources such as water ● 100 ha area maintained as green area ● 5% increase in absorption rate of CO_2

Timeline		Resources Required
Start Date	End Date	
2021	2023	RM52.4 mil (12MP) RM190 mil (proposed under alternate funding)

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SLDB, LCDA	MANRED, MIPD, MOU, MINTRED, DID, L&S, SMA, R&DO, JBALB, SEB, PBT, anchor companies, private investors

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme
Action step	:	2.1

Action step (s)	Output (s)	Timeline	Resources required
2.1 Rampangi, Kuching		**Start date**	
2.1.1 Policies Change - Business Model		Nov 2021	
2.1.1.1 Identify issues on existing system	Lists of issues to be solved	**End date**	
		Nov 2021	
2.1.1.2 Identify potential Special Purpose Vehicle (SPV) and budget required	Approved SPV and budget	**Start date**	
		Dec 2021	
		End date	
		Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	EPU Sarawak, SFS, SAG

Action step (s)	Output (s)	Timeline	Resources required
2.1.1.3 Drafting of Policy Paper to appoint SPV	Draft policy paper and agreement	**Start date**	
		Jan 2022	
		End date	
		Jan 2022	
2.1.1.4 Submission and approval of MMKN paper (if necessary)	Approved Cabinet Paper	**Start date**	
		Feb 2022	
		End date	
		Feb 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, Minister Office, DOA, SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.1.1.5 Appointment of SPV to implement, manage & operate the precision parks.	Qualified SPV been appointed to manage and operate the park. Main role of the involved party: • SPV: Collect rental fee, Long term maintenance and repairing of the facilities and infrastructure, Involve in Buy back and Marketing, Providing production Incentive • Community involvement: Participants • MANRED: Policy maker & Budget • State agencies (DOA & SMA): Technical advice, technology transfer, suitable crops, selection of participant	**Start date** Mar 2022 **End date** Mar 2022	Funding: Internal SPV Manpower: Technician (1) Supervisor (1), Security (2)

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.1.1.6 Monitor and Evaluate	Monitoring & Evaluation report	**Start date** Apr 2022 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SPV

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.1.2 Formulation of new incentives		Start date	
2.1.2.1 Appointment of consultant to collate and examine/analyse all relevant information	1 qualified consultant been appointed - Consultant report on the propose new incentives Description: Identify additional/ supplementary incentives that can be offered by State, in addition to Federal Incentives.	May 2022 End date Nov 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SFS, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.1.2.2 Drafting of Policy Paper on new incentives	Draft Policy paper and list of new incentives	Start date Dec 2022 End date Dec 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.1.2.3 Submission and approval of MMKN paper (if necessary)	Approved investment incentives Initial proposal: • Special rental rate (RM100/SPH/month) • 20% discount on utilities (water & electric) • Production incentive - 20 cent per KG	Start date Jan 2023 End date Jan 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.1.2.4 Implement new incentives **2.1.2.5** Implement new incentives, Monitor and Evaluate	No. of beneficiaries: 15 participants Monitoring & Evaluation report	Start date Feb 2023 End date Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.1.3 Develop Criteria and guideline for management and operation		Start date Mar 2023 End date Mar 2030	
2.1.3.1 Engagement with relevant stakeholders	Engagement with 4 stakeholders		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SAG, SFS, UAD, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.1.3.2 Drafting TOR / SOP of selecting participant, Farming Practices, Management and Operation of the park	Draft TOR/SOP	Start date Apr 2023 End date Apr 2030	
2.1.3.3 Submission to Ministry for approval	Approved TOR/ SOP: Description: • Open for application (online ads, newspaper) • Interview • Committee Approval • Award letter to participant • Participant will be replaced if they didn't achieve the production target in two years	Start date May 2023 End date May 2030	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.1.3.4 Implement, Monitor and Evaluate	Monitoring & Evaluation report	**Start date** May 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	-

Action step (s)	Output (s)	Timeline	Resources required
2.1.4 Continuous engagement session with relevant agencies on: 1. Issues and to develop strategies, action plan and implementation approach 2. Budget requirement 3. Identify suitable crop 4. Identify Best Farming Technology & Practices 5. Legal document with SPV and participant 6. IOT requirement 7. Research & Development	Engagement with 14 Stakeholders: EPU Sarawak - Program & Budget Approval SMA, SDEC - IOT Requirement for parks MANRED - Policy & Budget L&S - Land Status & Application, Compensation SLDB - SPV (Implementor & Operator) SFS - Funding Water Board / JBALB - Water facilities/connection SEB - Electric supply SAG - Legal MMKN Secretariat Training Institute Research Institute	**Start date** Jan 2021 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SPV	EPU Sarawak, SMA, SDEC, L&S, SLDB, SFS , Water Board, JBALB, SEB, SAG, MMKN Secretariat, training institute, research institute

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.1.5 Planning and Pre - Implementation		Start date	Fund (2.1.5a): RM1 mil
2.1.5a Planning and design		Apr 2022	
2.1.5a.1 Appointment of consultant	Appointment Letter from SPV to Consultant	End date	
		Apr 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS

Action step (s)	Output (s)	Timeline	Resources required
2.1.5a.2 Soil Investigation	Investigation report	Start date	-
		May 2022	
		End date	
		May 2022	
2.1.5a.3 Preliminary site layout and schematic design	Site layout plan and design by consultant	Start date	-
		Jun 2022	
2.1.5a.4 Preliminary costing	Estimate Breakdown cost by consultant	End date	
		Jun 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Consultant	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.1.5a.5 Approval by implementing Agency & Project Owner	Complete Detailed and layout plan by SPV and client	Start date	-
		May 2022	
		End date	
		May 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.1.5a.6 Submission and Approval (State Building Design Committee)	Approved Detailed and layout plan by SBDC	Start date: Jul 2022 End date: Aug 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SBDC, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.1.5a.7 Submission & Approval (State Planning Authority)	Approved Detailed and layout plan by SPA	Start date: Sep 2022 End date: Sep 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SPA, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.1.5b Specification and procurement process		Start date: Oct 2022 End date: Oct 2022	Fund (2.1.5b): RM1.11 mil
2.1.5b.1 Preparation of tender and contract document	Complete Tender document		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.1.5b.2 Tendering, approval and awarding contract	Award letter and contract agreement to successful contractor	Start date: Oct 2022 End date: Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS, SPV Board, contractor

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.1.5b.3 Hand Over Site	Handing over document to contractor	Start date Dec 2021 End date Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA, Contractor

Action step (s)	Output (s)	Timeline	Resources required
2.1.6 Project Implementation - Construction of Infrastructures and facilities		Start date Jan 2023 End date Jan 2030	Fund: RM19.5 mil
2.1.6.1 Site Preparation (Clearing, compaction, stacking and levelling)	13.6 ha site preparation in Rampangi cleared		
2.1.6.2 Main infrastructure and utilities development (Building, Road, Fencing, Drainage)	13.6 ha been developed with infrastructure	Start date Feb 2023 End date Oct 2023	
2.1.6.3 Farming Facilities (SPH, IOT Nursery, etc.)	15 farming lots with 30 SPH	Start date Feb 2023 End date Oct 2023	
2.1.6.4 Project completion and handing over	Handing over document	Start date Nov 2023 End date Nov 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Contractor	SPV, DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.1.7 Monitoring and Evaluation	Monitoring and Evaluation report	Start date Jan 2023 End date Dec 2024	Fund: RM555,000

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV, DOA	SPV, DOA, EPU Sarawak, SFS, SIMU, UAD

Action step (s)	Output (s)	Timeline	Resources required
2.1.8 Completion and commencement of operation		Start date Dec 2023 End date Dec 2030	Seed Capital for SPV: RM2 mil Manpower: 5 person (General worker, Supervisor, Security)
2.1.8.1 Operation, management and maintenance by SPV	Report on the: 1. Rental collected 2. Incentives provided 3. Operation and maintenance 4. Marketing		
2.1.8.2 Participant selection process	1. Online advertisement, notice on newspaper, office, notice board 2. Interview 3. Short listed qualified participants 4. Award letter to 15 successful participants	Start date Jun 2023 End date Dec 2023	
2.1.8.3 Farming Facilities (SPH, IOT Nursery, etc.)	15 farming lots with 30 SPH	Start date Jun 2023 End date Dec 2023	
2.1.8.4 Production	Focus crop: Chilli 1 participant = 4,000 polybag 15 participant = 60,000 polybag 60,000 polybag x 2.5 kg = 150,000 kg / season 150,000 kg x RM10 = RM1,500,000 / season 1 year can plant 2 times RM1,500,000 x 2 = RM3,000,000 Total estimate production over 10 years for 15 participants: 3,000 mt@RM30,000,000.00	Start date Jun 2024 End date Dec 2030	Operation cost borne by the participant for 10 years: RM160,000

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.1.8.5 Marketing	Domestic market through online and direct sell 1. Hypermarket (Emart, AEON, H&L, Everise, Lepapa, etc.) 2. Shafiq, Timogah, Kina Karar	**Start date** Jun 2024 **End date** Dec 2030	
2.1.8.6 Monitoring and Evaluation	Monitoring and Evaluation report	**Start date** Dec 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.2

Action step (s)	Output (s)	Timeline	Resources required
2.2 Tarat, Serian		**Start date**	
2.2.1 Policies Change - Business Model		Nov 2021	
2.2.1.1 Identify issues on existing system	Lists of issues to be solved	**End date**	
		Nov 2021	
2.2.1.2 Identify potential SPV and budget required	Approved SPV and budget	**Start date**	
		Dec 2021	
		End date	
		Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	EPU Sarawak, SFS, SAG

Action step (s)	Output (s)	Timeline	Resources required
2.2.1.3 Drafting of Policy Paper to appoint SPV	Draft policy paper and agreement	**Start date**	
		Jan 2022	
		End date	
		Jan 2022	
2.2.1.4 Submission and approval of MMKN paper (if necessary)	Approved Cabinet Paper	**Start date**	
		Feb 2022	
		End date	
		Feb 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	Minister Office, DOA, SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.2.1.5 Appointment of SPV to implement, manage & operate the precision parks.	Qualified SPV been appointed to manage and operate the park. Main role of the involved party: • SPV: Collect rental fee, Long term maintenance and repairing of the facilities and infrastructure, Involve in Buy back and Marketing, Providing production Incentive • Community involvement: Participants • MANRED: Policy maker & Budget • State agencies (DOA & SMA): Technical advice, technology transfer, suitable crops, selection of participant	**Start date** Mar 2022 **End date** Mar 2022	Funding: Internal SPV Manpower: Technician (1) Supervisor (1), Security (2)

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.2.1.6 Monitor and Evaluate	Monitoring & Evaluation report	**Start date** Apr 2022 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SPV

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.2.2 Formulation of new incentives		Start date	
2.2.2.1 Appointment of consultant to collate and examine/analyse all relevant information	1 qualified consultant been appointed - Consultant report on the propose new incentives Description: Identify additional/ supplementary incentives that can be offered by State, in addition to Federal Incentives.	May 2022 End date Nov 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SFS, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.2.2.2 Drafting of Policy Paper on new incentives	Draft Policy paper and list of new incentives	Start date Dec 2022 End date Dec 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.2.2.3 Submission and approval of MMKN paper (if necessary)	Approved investment incentives Initial proposal: • Special rental rate (RM100/SPH/month) • 20% discount on utilities (water & electric) • Production incentive - 20 cent per KG	Start date Jan 2023 End date Jan 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.2.2.4 Implement new incentives **2.2.2.5** Implement new incentives, Monitor and Evaluate	No of beneficiaries: 15 participants Monitoring & Evaluation report	**Start date** Feb 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.2.3 Develop Criteria and guideline for management and operation		**Start date** Mar 2023 **End date** Mar 2030	
2.2.3.1 Engagement with relevant stakeholders	Engagement with 4 stakeholders		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SAG, SFS, UAD, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.2.3.2 Drafting TOR / SOP of selecting participant, Farming Practices, Management and Operation of the park	Draft TOR/SOP	**Start date** Apr 2023 **End date** Apr 2030	
2.2.3.3 Submission to Ministry for approval	Approved TOR/ SOP: Description: • Open for application (online ads, newspaper) • Interview • Committee Approval • Award letter to participant • Participant will be replaced if they didn't achieve the production target in two years	**Start date** May 2023 **End date** May 2023	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.2.3.4 Implement, Monitor and Evaluate	Monitoring & Evaluation report	**Start date** May 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	-

Action step (s)	Output (s)	Timeline	Resources required
2.2.4 Continuous engagement session with relevant agencies on: 1. Issues and to develop strategies, action plan and implementation approach 2. Budget requirement 3. Identify suitable crop 4. Identify Best Farming Technology & Practices 5. Legal document with SPV and participant 6. IOT requirement 7. Research & Development"	Engagement with 14 Stakeholders: EPU Sarawak - Program & Budget Approval SMA, SDEC - IOT Requirement for parks MANRED - Policy & Budget L&S - Land Status & Application, Compensation SLDB - SPV (Implementor & Operator) SFS - Funding Water Board / JBALB - Water facilities/connection SEB - Electric supply SAG - Legal MMKN Secretariat Training Institute Research Institute	**Start date** Jan 2021 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SPV	EPU Sarawak, SMA, SDEC, L&S, SLDB, SFS , Water Board, JBALB, SEB, SAG, MMKN Secretariat, training institute, research institute

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.2.5 Planning and Pre - Implementation		Start date	Fund (2.2.5a): RM1.359 mil
2.2.5a Planning and design		Apr 2022	
2.2.5a.1 Appointment of consultant	Appointment Letter from SPV to Consultant	End date	
		Apr 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS

Action step (s)	Output (s)	Timeline	Resources required
2.2.5a.2 Soil Investigation	Investigation report	Start date	-
		May 2022	
		End date	
		May 2022	
2.2.5a.3 Preliminary site layout and schematic design	Site layout plan and design by consultant	Start date	-
		Jun 2022	
2.2.5a.4 Preliminary costing	Estimate Breakdown cost by consultant	End date	
		Jun 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Consultant	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.2.5a.5 Approval by implementing Agency & Project Owner	Complete Detailed and layout plan by SPV and client	Start date	-
		Jul 2022	
		End date	
		Jul 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.2.5a.6 Submission and Approval (State Building Design Committee)	Approved Detailed and layout plan by SBDC	Start date: Jul 2022 End date: Aug 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SBDC, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.2.5a.7 Submission & Approval (State Planning Authority)	Approved Detailed and layout plan by SPA	Start date: Sep 2022 End date: Sep 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SPA, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.2.5b Specification and procurement process		Start date: Oct 2022 End date: Oct 2022	Fund (2.2.5b): RM1.510 mil
2.2.5b.1 Preparation of tender and contract document	Complete Tender document		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.2.5b.2 Tendering, approval and awarding contract	Award letter and contract agreement to successful contractor	Start date: Oct 2022 End date: Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS, SPV Board, contractor

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.2.5b.3 Hand Over Site	Handing over document to contractor	**Start date** Dec 2022 **End date** Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA, Contractor

Action step (s)	Output (s)	Timeline	Resources required
2.2.6 Project Implementation - Construction of Infrastructures and facilities		**Start date** Jan 2023 **End date** Jan 2023	Fund: RM26.576 mil
2.2.6.1 Site Preparation (Clearing, compaction, stacking and levelling)	15 ha site preparation in Tarat cleared		
2.2.6.2 Main infrastructure and utilities development (Building, Road, Fencing, Drainage)	15 ha been developed with infrastructure	**Start date** Feb 2023 **End date** Oct 2023	
2.2.6.3 Farming Facilities (SPH, IOT Nursery, etc.)	12 farming lots with 24 SPH	**Start date** Feb 2023 **End date** Oct 2023	
2.2.6.4 Project completion and handing over	Handing over document	**Start date** Nov 2023 **End date** Nov 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Contractor	SPV, DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.2.7 Monitoring and Evaluation	Monitoring and Evaluation report	Start date Jan 2023 End date Dec 2024	Fund: RM755,000

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV, DOA	SPV, DOA, EPU Sarawak, SFS, SIMU, UAD

Action step (s)	Output (s)	Timeline	Resources required
2.2.8 Completion and commencement of operation		Start date Dec 2023 End date Dec 2030	Seed Capital for SPV: RM2 mil Manpower: 5 person (General worker, Supervisor, Security)
2.2.8.1 Operation, management and maintenance by SPV	Report on the: 1. Rental collected 2. Incentives provided 3. Operation and maintenance 4. Marketing		
2.2.8.2 Participant selection process	1. Online advertisement, notice on newspaper, office, notice board 2. Interview 3. Short listed qualified participants 4. Award letter to 12 successful participants	Start date Jun 2023 End date Dec 2023	
2.2.8.3 Incubation and intensified training to participant	12 participants have been trained	Start date Jun 2024 End date Mar 2024	
2.2.8.4 Production	Focus crop: Chilli 1 participant = 4,000 polybag 12 participant = 48,000 polybag 48,000 polybag x 2.5 kg = 120,000 kg / season 120,000 kg x RM10 = RM1,200,000 / season 1 year can plant 2 times RM1,200,000 x 2 = RM2,400,000 Total estimate production over 10 years for 12 participants: 1,200 mt@RM24,000,000.00	Start date Jun 2024 End date Dec 2030	Operation cost borne by the participant for 10 years: RM160,000

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.2.8.5 Marketing	Domestic market through online and direct sell 1. Hypermarket (Emart, AEON, H&L, Everise, Lepapa, etc.) 2. Shafiq, Timogah, Kina Karar	**Start date** Jun 2024 **End date** Dec 2030	
2.2.8.6 Monitoring and Evaluation	Monitoring and Evaluation report	**Start date** Dec 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.3

Action step (s)	Output (s)	Timeline	Resources required
2.3 Kabuloh, Miri		Start date	
2.3.1 Policies Change - Business Model		Nov 2021	
2.3.1.1 Identify issues on existing system	Lists of issues to be solved	End date Nov 2021	
2.3.1.2 Identify potential SPV and budget required	Approved SPV and budget	Start date Dec 2021 End date Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	EPU Sarawak, SFS, SAG

Action step (s)	Output (s)	Timeline	Resources required
2.3.1.3 Drafting of Policy Paper to appoint SPV	Draft policy paper and agreement	Start date Jan 2022 End date Jan 2022	
2.3.1.4 Submission and approval of MMKN paper (if necessary)	Approved Cabinet Paper	Start date Feb 2022 End date Feb 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	Minister Office, DOA, SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.3.1.5 Appointment of SPV to implement, manage & operate the precision parks.	Qualified SPV been appointed to manage and operate the park. Main role of the involved party: • SPV: Collect rental fee, Long term maintenance and repairing of the facilities and infrastructure, Involve in Buy back and Marketing, Providing production Incentive • Community involvement: Participants • MANRED: Policy maker & Budget • State agencies (DOA & SMA): Technical advice, technology transfer, suitable crops, selection of participant	**Start date** Mar 2022 **End date** Mar 2022	Funding: Internal SPV Manpower: Technician (1) Supervisor (1), Security (2)

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.3.1.6 Monitor and Evaluate	Monitoring & Evaluation report	**Start date** Apr 2022 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SPV

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.3.2 Formulation of new incentives		Start date	
2.3.2.1 Appointment of consultant to collate and examine/analyse all relevant information	1 qualified consultant been appointed - Consultant report on the propose new incentives Description: Identify additional/ supplementary incentives that can be offered by State, in addition to Federal Incentives.	May 2022 End date Nov 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SFS, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.3.2.2 Drafting of Policy Paper on new incentives	Draft Policy paper and list of new incentives	Start date Dec 2022 End date Dec 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.3.2.3 Submission and approval of MMKN paper (if necessary)	Approved investment incentives Initial proposal: • Special rental rate (RM100/SPH/month) • 20% discount on utilities (water & electric) • Production incentive - 20 cent per KG	Start date Jan 2023 End date Jan 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.3.2.4 Implement new incentives **2.3.2.5** Implement new incentives, Monitor and Evaluate	No of beneficiaries: 15 participants Monitoring & Evaluation report	**Start date** Feb 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.3.3 Develop Criteria and guideline for management and operation		**Start date** Mar 2023 **End date** Mar 2023	
2.3.3.1 Engagement with relevant stakeholders	Engagement with 4 stakeholders		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SAG, SFS, UAD, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.3.3.2 Drafting TOR / SOP of selecting participant, Farming Practices, Management and Operation of the park	Draft TOR/SOP	**Start date** Apr 2023 **End date** Apr 2023	
2.3.3.3 Submission to Ministry for approval	Approved TOR/SOP: Description: • Open for application (online ads, newspaper) • Interview • Committee Approval • Award letter to participant • Participant will be replaced if they didn't achieve the production target in two years	**Start date** May 2023 **End date** May 2023	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.3.3.4 Implement, Monitor and Evaluate	Monitoring & Evaluation report	**Start date** May 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	-

Action step (s)	Output (s)	Timeline	Resources required
2.3.4 Continuous engagement session with relevant agencies on: 1. Issues and to develop strategies, action plan and implementation approach 2. Budget requirement 3. Identify suitable crop 4. Identify Best Farming Technology & Practices 5. Legal document with SPV and participant 6. IOT requirement 7. Research & Development"	Engagement with 14 Stakeholders: EPU Sarawak - Program & Budget Approval SMA, SDEC - IOT Requirement for parks MANRED - Policy & Budget L&S - Land Status & Application, Compensation SLDB - SPV (Implementor & Operator) SFS - Funding Water Board / JBALB - Water facilities/connection SEB - Electric supply SAG - Legal MMKN Secretariat Training Institute Research Institute	**Start date** Jan 2021 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SPV	EPU Sarawak, SMA, SDEC, L&S, SLDB, SFS , Water Board, JBALB, SEB, SAG, MMKN Secretariat, training institute, research institute

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.3.5 Planning and Pre - Implementation		Start date	Fund (2.3.5a): RM1.35 mil
2.3.5a Planning and design		Apr 2022	
2.3.5a.1 Appointment of consultant	Appointment Letter from SPV to Consultant	End date	
		Apr 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS

Action step (s)	Output (s)	Timeline	Resources required
2.3.5a.2 Soil Investigation	Investigation report	Start date	-
		May 2022	
		End date	
		May 2022	
2.3.5a.3 Preliminary site layout and schematic design	Site layout plan and design by consultant	Start date	-
		Jun 2022	
2.3.5a.4 Preliminary costing	Estimate Breakdown cost by consultant	End date	
		Jun 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Consultant	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.3.5a.5 Approval by implementing Agency & Project Owner	Complete Detailed and layout plan by SPV and client	Start date	-
		Jul 2022	
		End date	
		Jul 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.3.5a.6 Submission and Approval (State Building Design Committee)	Approved Detailed and layout plan by SBDC	Start date: Jul 2022 End date: Aug 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SBDC, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.3.5a.7 Submission & Approval (State Planning Authority)	Approved Detailed and layout plan by SPA	Start date: Sep 2022 End date: Sep 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SPA, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.3.5b Specification and procurement process		Start date: Oct 2022 End date: Oct 2022	Fund (2.3.5b): RM1.5 mil
2.3.5b.1 Preparation of tender and contract document	Complete Tender document		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.3.5b.2 Tendering, approval and awarding contract	Award letter and contract agreement to successful contractor	Start date: Oct 2022 End date: Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS, SPV Board, contractor

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.3.5b.3 Hand Over Site	Handing over document to contractor	**Start date** Dec 2022 **End date** Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA, Contractor

Action step (s)	Output (s)	Timeline	Resources required
2.3.6 Project Implementation - Construction of Infrastructures and facilities		**Start date** Jan 2023 **End date** Jan 2023	Fund: RM26.4 mil
2.3.6.1 Site Preparation (Clearing, compaction, stacking and levelling)	10 ha site preparation in Kabuloh cleared		
2.3.6.2 Main infrastructure and utilities development (Building, Road, Fencing, Drainage)	10 ha been developed with infrastructure	**Start date** Feb 2023 **End date** Oct 2023	
2.3.6.3 Farming Facilities (SPH, IOT Nursery, etc.)	11 farming lots with 22 SPH	**Start date** Feb 2023 **End date** Oct 2023	
2.3.6.4 Project completion and handing over	Handing over document	**Start date** Nov 2023 **End date** Nov 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Contractor	SPV, DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.3.7 Monitoring and Evaluation	Monitoring and Evaluation report	Start date Jan 2023 End date Dec 2024	Fund: RM750,000

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV, DOA	SPV, DOA, EPU Sarawak, SFS, SIMU, UAD

Action step (s)	Output (s)	Timeline	Resources required
2.3.8 Completion and commencement of operation		Start date Dec 2023 End date Dec 2030	Seed Capital for SPV: RM2 mil Manpower: 5 person (General worker, Supervisor, Security)
2.3.8.1 Operation, management and maintenance by SPV	Report on the: 1. Rental collected 2. Incentives provided 3. Operation and maintenance 4. Marketing		
2.3.8.2 Participant selection process	1. Online advertisement, notice on newspaper, office, notice board 2. Interview 3. Short listed qualified participants 4. Award letter to 11 successful participants	Start date Jun 2023 End date Dec 2023	
2.3.8.3 Incubation and intensified training to participant	11 participants have been trained	Start date Jun 2024 End date Mar 2024	
2.3.8.4 Production	Focus crop: Ginger 1 participant = 4,000 polybag 11 participant = 44,000 polybag 44,000 polybag x 3 kg = 132,000 kg / season 132,000 kg x RM10 = RM1,320,000 / season 1 year can plant 2 times RM1,320,000 x 2 = RM2,640,000 Total estimate production over 10 years for 12 participants: 1,320 mt@RM26,400,000.00	Start date Jun 2024 End date Dec 2030	Operation cost borne by the participant for 10 years: RM120,000

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.3.8.5 Marketing	Domestic market through online and direct sell 1. Hypermarket (Emart, AEON, H&L, Everise, Lepapa, etc.) 2. Timogah	**Start date** Jun 2024 **End date** Dec 2030	
2.3.8.6 Monitoring and Evaluation	Monitoring and Evaluation report	**Start date** Dec 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.4

Action step (s)	Output (s)	Timeline	Resources required
2.4 Oya, Sibu		Start date	
2.4.1 Policies Change - Business Model		Nov 2021	
2.4.1.1 Identify issues on existing system	Lists of issues to be solved	End date Nov 2021	
2.4.1.2 Identify potential SPV and budget required	Approved SPV and budget	Start date Dec 2021 End date Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	EPU Sarawak, SFS, SAG

Action step (s)	Output (s)	Timeline	Resources required
2.4.1.3 Drafting of Policy Paper to appoint SPV	Draft policy paper and agreement	Start date Jan 2022 End date Jan 2022	
2.4.1.4 Submission and approval of MMKN paper (if necessary)	Approved Cabinet Paper	Start date Feb 2022 End date Feb 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	Minister Office, DOA, SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.4.1.5 Appointment of SPV to implement, manage & operate the precision parks.	Qualified SPV been appointed to manage and operate the park. Main role of the involved party: • SPV: Collect rental fee, Long term maintenance and repairing of the facilities and infrastructure, Involve in Buy back and Marketing, Providing production Incentive • Community involvement: Participants • MANRED: Policy maker & Budget • State agencies (DOA & SMA): Technical advice, technology transfer, suitable crops, selection of participant	**Start date** Mar 2022 **End date** Mar 2022	Funding: Internal SPV Manpower: Technician (1) Supervisor (1), Security (2)

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.4.1.6 Monitor and Evaluate	Monitoring & Evaluation report	**Start date** Apr 2022 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SPV

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.4.2 Formulation of new incentives		**Start date**	
2.4.2.1 Appointment of consultant to collate and examine/analyse all relevant information	1 qualified consultant been appointed - Consultant report on the propose new incentives Description: Identify additional/ supplementary incentives that can be offered by State, in addition to Federal Incentives.	May 2022 **End date** Nov 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SFS, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.4.2.2 Drafting of Policy Paper on new incentives	Draft Policy paper and list of new incentives	**Start date** Dec 2022 **End date** Dec 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.4.2.3 Submission and approval of MMKN paper (if necessary)	Approved investment incentives Initial proposal: • Special rental rate (RM100/SPH/month) • 20% discount on utilities (water & electric) • Production incentive - 20 cent per KG	**Start date** Jan 2023 **End date** Jan 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.4.2.4 Implement new incentives **2.4.2.5** Implement new incentives, Monitor and Evaluate	No of beneficiaries: 15 participants Monitoring & Evaluation report	**Start date** Feb 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.4.3 Develop Criteria and guideline for management and operation		**Start date** Mar 2023 **End date** Mar 2023	
2.4.3.1 Engagement with relevant stakeholders	Engagement with 4 stakeholders		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SAG, SFS, UAD, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.4.3.2 Drafting TOR / SOP of selecting participant, Farming Practices, Management and Operation of the park	Draft TOR/SOP	**Start date** Apr 2023 **End date** Apr 2023	
2.4.3.3 Submission to Ministry for approval	Approved TOR/ SOP: Description: • Open for application (online ads, newspaper) • Interview • Committee Approval • Award letter to participant • Participant will be replaced if they didn't achieve the production target in two years	**Start date** May 2023 **End date** May 2023	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.4.3.4 Implement, Monitor and Evaluate	Monitoring & Evaluation report	**Start date** May 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	-

Action step (s)	Output (s)	Timeline	Resources required
2.4.4 Continuous engagement session with relevant agencies on: 1. Issues and to develop strategies, action plan and implementation approach 2. Budget requirement 3. Identify suitable crop 4. Identify Best Farming Technology & Practices 5. Legal document with SPV and participant 6. IOT requirement 7. Research & Development"	Engagement with 14 Stakeholders: EPU Sarawak - Program & Budget Approval SMA, SDEC - IOT Requirement for parks MANRED - Policy & Budget L&S - Land Status & Application, Compensation SLDB - SPV (Implementor & Operator) SFS - Funding Water Board / JBALB - Water facilities/connection SEB - Electric supply SAG - Legal MMKN Secretariat Training Institute Research Institute	**Start date** Jan 2021 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SPV	EPU Sarawak, SMA, SDEC, L&S, SLDB, SFS , Water Board, JBALB, SEB, SAG, MMKN Secretariat, training institute, research institute

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.4.5 Planning and Pre - Implementation		Start date	Fund (2.4.5a): RM1.35 mil
2.4.5a Planning and design		Apr 2022	
2.4.5a.1 Appointment of consultant	Appointment Letter from SPV to Consultant	End date	
		Apr 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS

Action step (s)	Output (s)	Timeline	Resources required
2.4.5a.2 Soil Investigation	Investigation report	Start date	-
		May 2022	
		End date	
		May 2022	
2.4.5a.3 Preliminary site layout and schematic design	Site layout plan and design by consultant	Start date	-
		Jun 2022	
2.4.5a.4 Preliminary costing	Estimate Breakdown cost by consultant	End date	
		Jun 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Consultant	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.4.5a.5 Approval by implementing Agency & Project Owner	Complete Detailed and layout plan by SPV and client	Start date	-
		Jul 2022	
		End date	
		Jul 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.4.5a.6 Submission and Approval (State Building Design Committee)	Approved Detailed and layout plan by SBDC	Start date: Jul 2022 End date: Aug 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SBDC, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.4.5a.7 Submission & Approval (State Planning Authority)	Approved Detailed and layout plan by SPA	Start date: Sep 2022 End date: Sep 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SPA, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.4.5b Specification and procurement process		Start date: Oct 2022 End date: Oct 2022	Fund (2.4.5b): RM1.5 mil
2.4.5b.1 Preparation of tender and contract document	Complete Tender document		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.4.5b.2 Tendering, approval and awarding contract	Award letter and contract agreement to successful contractor	Start date: Oct 2022 End date: Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS, SPV Board, contractor

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.4.5b.3 Hand Over Site	Handing over document to contractor	Start date Dec 2022 End date Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA, Contractor

Action step (s)	Output (s)	Timeline	Resources required
2.4.6 Project Implementation - Construction of Infrastructures and facilities		Start date Jan 2023 End date Jan 2023	Fund: RM26.4 mil
2.4.6.1 Site Preparation (Clearing, compaction, stacking and levelling)	10 ha site preparation in Oya cleared		
2.4.6.2 Main infrastructure and utilities development (Building, Road, Fencing, Drainage)	10 ha been developed with infrastructure	Start date Feb 2023 End date Oct 2023	
2.4.6.3 Farming Facilities (SPH, IOT Nursery, etc.)	12 farming lots with 24 SPH	Start date Feb 2023 End date Oct 2023	
2.4.6.4 Project completion and handing over	Handing over document	Start date Nov 2023 End date Nov 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Contractor	SPV, DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.4.7 Monitoring and Evaluation	Monitoring and Evaluation report	Start date Jan 2023 End date Dec 2024	Fund: RM750,000

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV, DOA	SPV, DOA, EPU Sarawak, SFS, SIMU, UAD

Action step (s)	Output (s)	Timeline	Resources required
2.4.8 Completion and commencement of operation		Start date Dec 2023 End date Dec 2030	Funding: Internal SPV Manpower: 4 person (Technician (1) Supervisor (1), Security (2)
2.4.8.1 Operation, management and maintenance by SPV	Report on the: 1. Rental collected 2. Incentives provided 3. Operation and maintenance 4. Marketing		
2.4.8.2 Participant selection process	1. Online advertisement, notice on newspaper, office, notice board 2. Interview 3. Short listed qualified participants 4. Award letter to 11 successful participants	Start date Jun 2023 End date Dec 2023	
2.4.8.3 Incubation and intensified training to participant	11 participants have been trained	Start date Jun 2024 End date Mar 2024	
2.4.8.4 Production	Focus crop : Ginger 1 participant = 4,000 polybag 12 participant = 48,000 polybag 48,000 polybag x 3 kg = 144,000 kg / season 144,000 kg x RM10 = RM1,440,000 / season 1 year can plant 2 times RM1,440,000 x 2 = RM2,880,000 Total estimate production over 10 years for 12 participants : 1,440 mt@RM28,800,000.00	Start date Jun 2024 End date Dec 2030	Operation cost borne by the participant for 10 years: RM120,000

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.4.8.5 Marketing	Domestic market through online and direct sell 1. Hypermarket (Emart, AEON, H&L, Everise, Lepapa, etc.) 2. Timogah	**Start date** Jun 2024 **End date** Dec 2030	
2.4.8.6 Monitoring and Evaluation	Monitoring and Evaluation report	**Start date** Dec 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.5

Action step (s)	Output (s)	Timeline	Resources required
2.5 Sg. Sebiew, Bintulu		**Start date**	
2.5.1 Policies Change - Business Model		Nov 2021	
2.5.1.1 Identify issues on existing system	Lists of issues to be solved	**End date**	
		Nov 2021	
2.5.1.2 Identify potential SPV and budget required	Approved SPV and budget	**Start date**	
		Dec 2021	
		End date	
		Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	EPU Sarawak, SFS, SAG

Action step (s)	Output (s)	Timeline	Resources required
2.5.1.3 Drafting of Policy Paper to appoint SPV	Draft policy paper and agreement	**Start date**	
		Jan 2022	
		End date	
		Jan 2022	
2.5.1.4 Submission and approval of MMKN paper (if necessary)	Approved Cabinet Paper	**Start date**	
		Feb 2022	
		End date	
		Feb 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	Minister Office, DOA, SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.5.1.5 Appointment of SPV to implement, manage & operate the precision parks.	Qualified SPV been appointed to manage and operate the park. Main role of the involved party: • SPV: Collect rental fee, Long term maintenance and repairing of the facilities and infrastructure, Involve in Buy back and Marketing, Providing production Incentive • Community involvement: Participants • MANRED: Policy maker & Budget • State agencies (DOA & SMA): Technical advice, technology transfer, suitable crops, selection of participant	**Start date** Mar 2022 **End date** Mar 2022	Funding: Internal SPV Manpower: Technician (1) Supervisor (1), Security (2)

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.5.1.6 Monitor and Evaluate	Monitoring & Evaluation report	**Start date** Apr 2022 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SPV

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.5.2 Formulation of new incentives		Start date	
2.5.2.1 Appointment of consultant to collate and examine/analyse all relevant information	1 qualified consultant been appointed - Consultant report on the propose new incentives Description: Identify additional/ supplementary incentives that can be offered by State, in addition to Federal Incentives.	May 2022 End date Nov 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SFS, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.5.2.2 Drafting of Policy Paper on new incentives	Draft Policy paper and list of new incentives	Start date Dec 2022 End date Dec 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.5.2.3 Submission and approval of MMKN paper (if necessary)	Approved investment incentives Initial proposal: • Special rental rate (RM100/SPH/month) • 20% discount on utilities (water & electric) • Production incentive - 20 cent per KG	Start date Jan 2023 End date Jan 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.5.2.4 Implement new incentives **2.5.2.5** Implement new incentives, Monitor and Evaluate	No of beneficiaries: 15 participants Monitoring & Evaluation report	**Start date** Feb 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.5.3 Develop Criteria and guideline for management and operation		**Start date** Mar 2023 **End date** Mar 2023	
2.5.3.1 Engagement with relevant stakeholders	Engagement with 4 stakeholders		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SAG, SFS, UAD, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.5.3.2 Drafting TOR / SOP of selecting participant, Farming Practices, Management and Operation of the park	Draft TOR/SOP	**Start date** Apr 2023 **End date** Apr 2023	
2.5.3.3 Submission to Ministry for approval	Approved TOR/ SOP: Description: • Open for application (online ads, newspaper) • Interview • Committee Approval • Award letter to participant • Participant will be replaced if they didn't achieve the production target in two years	**Start date** May 2023 **End date** May 2023	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.5.3.4 Implement, Monitor and Evaluate	Monitoring & Evaluation report	**Start date** May 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	-

Action step (s)	Output (s)	Timeline	Resources required
2.5.4 Continuous engagement session with relevant agencies on: 1. Issues and to develop strategies, action plan and implementation approach 2. Budget requirement 3. Identify suitable crop 4. Identify Best Farming Technology & Practices 5. Legal document with SPV and participant 6. IOT requirement 7. Research & Development"	Engagement with 14 Stakeholders: EPU Sarawak - Program & Budget Approval SMA, SDEC - IOT Requirement for parks MANRED - Policy & Budget L&S - Land Status & Application, Compensation SLDB - SPV (Implementor & Operator) SFS - Funding Water Board / JBALB - Water facilities/connection SEB - Electric supply SAG - Legal MMKN Secretariat Training Institute Research Institute	**Start date** Jan 2021 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SPV	EPU Sarawak, SMA, SDEC, L&S, SLDB, SFS , Water Board, JBALB, SEB, SAG, MMKN Secretariat, training institute, research institute

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.5.5 Planning and Pre - Implementation		Start date	Fund (2.5.5a): RM1.35 mil
2.5.5a Planning and design		Apr 2022	
2.5.5a.1 Appointment of consultant	Appointment Letter from SPV to Consultant	End date	
		Apr 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS

Action step (s)	Output (s)	Timeline	Resources required
2.5.5a.2 Soil Investigation	Investigation report	Start date	-
		May 2022	
		End date	
		May 2022	
2.5.5a.3 Preliminary site layout and schematic design	Site layout plan and design by consultant	Start date	-
		Jun 2022	
2.5.5a.4 Preliminary costing	Estimate Breakdown cost by consultant	End date	
		Jun 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Consultant	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.5.5a.5 Approval by implementing Agency & Project Owner	Complete Detailed and layout plan by SPV and client	Start date	-
		Jul 2022	
		End date	
		Jul 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.5.5a.6 Submission and Approval (State Building Design Committee)	Approved Detailed and layout plan by SBDC	Start date: Jul 2022 End date: Aug 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SBDC, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.5.5a.7 Submission & Approval (State Planning Authority)	Approved Detailed and layout plan by SPA	Start date: Sep 2022 End date: Sep 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SPA, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.5.5b Specification and procurement process		Start date: Oct 2022 End date: Oct 2022	Fund (2.5.5b): RM1.5 mil
2.5.5b.1 Preparation of tender and contract document	Complete Tender document		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.5.5b.2 Tendering, approval and awarding contract	Award letter and contract agreement to successful contractor	Start date: Oct 2022 End date: Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS, SPV Board, contractor

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.5.5b.3 Hand Over Site	Handing over document to contractor	**Start date** Dec 2022 **End date** Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA, Contractor

Action step (s)	Output (s)	Timeline	Resources required
2.5.6 Project Implementation - Construction of Infrastructures and facilities		**Start date** Jan 2023 **End date** Jan 2023	Fund: RM26.4 mil
2.5.6.1 Site Preparation (Clearing, compaction, stacking and levelling)	10 ha site preparation in Sg. Sebiew cleared		
2.5.6.2 Main infrastructure and utilities development (Building, Road, Fencing, Drainage)	10 ha been developed with infrastructure	**Start date** Feb 2023 **End date** Oct 2023	
2.5.6.3 Farming Facilities (SPH, IOT Nursery, etc.)	12 farming lots with 24 SPH	**Start date** Feb 2023 **End date** Oct 2023	
2.5.6.4 Project completion and handing over	Handing over document	**Start date** Nov 2023 **End date** Nov 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Contractor	SPV, DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.5.7 Monitoring and Evaluation	Monitoring and Evaluation report	Start date Jan 2023 End date Dec 2024	Fund: RM750,000

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV, DOA	SPV, DOA, EPU Sarawak, SFS, SIMU, UAD

Action step (s)	Output (s)	Timeline	Resources required
2.5.8 Completion and commencement of operation		Start date Dec 2023 End date Dec 2030	Funding: Internal SPV Manpower: 4 person (Technician (1) Supervisor (1), Security (2)
2.5.8.1 Operation, management and maintenance by SPV	Report on the: 1. Rental collected 2. Incentives provided 3. Operation and maintenance 4. Marketing		
2.5.8.2 Participant selection process	1. Online advertisement, notice on newspaper, office, notice board 2. Interview 3. Short listed qualified participants 4. Award letter to 12 successful participants	Start date Jun 2023 End date Dec 2023	
2.5.8.3 Incubation and intensified training to participant	12 participants have been trained	Start date Jun 2024 End date Mar 2024	
2.5.8.4 Production	Focus crop : Tomato 1 participant = 4,000 polybag 12 participant = 48,000 polybag 48,000 polybag x 4 kg = 192,000 kg / season 192,000 kg x RM8 = RM1,536,000 / season 1 year can plant 2 times RM1,536,000 x 2 = RM3,072,000 Total estimate production over 10 years for 12 participants : 1,920 mt@RM30,720,000.00	Start date Jun 2024 End date Dec 2030	Operation cost borne by the participant for 10 years: RM128,000

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.5.8.5 Marketing	Domestic market through online and direct sell 1. Hypermarket (Emart, AEON, H&L, Everise, Lepapa, etc.) 2. Timogah	**Start date** Jun 2024 **End date** Dec 2030	
2.5.8.6 Monitoring and Evaluation	Monitoring and Evaluation report	**Start date** Dec 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.6

Action step (s)	Output (s)	Timeline	Resources required
2.6 Bebuling, Spaoh		**Start date**	
2.6.1 Policies Change - Business Model		Nov 2021	
2.6.1.1 Identify issues on existing system	Lists of issues to be solved	**End date**	
		Nov 2021	
2.6.1.2 Identify potential SPV and budget required	Approved SPV and budget	**Start date**	
		Dec 2021	
		End date	
		Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	EPU Sarawak, SFS, SAG

Action step (s)	Output (s)	Timeline	Resources required
2.6.1.3 Drafting of Policy Paper to appoint SPV	Draft policy paper and agreement	**Start date**	
		Jan 2022	
		End date	
		Jan 2022	
2.6.1.4 Submission and approval of MMKN paper (if necessary)	Approved Cabinet Paper	**Start date**	
		Feb 2022	
		End date	
		Feb 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	Minister Office, DOA, SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.6.1.5 Appointment of SPV to implement, manage & operate the precision parks.	Qualified SPV been appointed to manage and operate the park. Main role of the involved party: • SPV: Collect rental fee, Long term maintenance and repairing of the facilities and infrastructure, Involve in Buy back and Marketing, Providing production Incentive • Community involvement: Participants • MANRED: Policy maker & Budget • State agencies (DOA & SMA): Technical advice, technology transfer, suitable crops, selection of participant	**Start date** Mar 2022 **End date** Mar 2022	Funding: Internal SPV Manpower: Technician (1) Supervisor (1), Security (2)

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.6.1.6 Monitor and Evaluate	Monitoring & Evaluation report	**Start date** Apr 2022 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SPV

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.6.2 Formulation of new incentives		Start date	
2.6.2.1 Appointment of consultant to collate and examine/analyse all relevant information	1 qualified consultant been appointed - Consultant report on the propose new incentives Description: Identify additional/ supplementary incentives that can be offered by State, in addition to Federal Incentives.	May 2022 End date Nov 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SFS, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.6.2.2 Drafting of Policy Paper on new incentives	Draft Policy paper and list of new incentives	Start date Dec 2022 End date Dec 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.6.2.3 Submission and approval of MMKN paper (if necessary)	Approved investment incentives Initial proposal: • Special rental rate (RM100/SPH/month) • 20% discount on utilities (water & electric) • Production incentive - 20 cent per KG	Start date Jan 2023 End date Jan 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.6.2.4 Implement new incentives **2.6.2.5** Implement new incentives, Monitor and Evaluate	No of beneficiaries: 15 participants Monitoring & Evaluation report	**Start date** Feb 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.6.3 Develop Criteria and guideline for management and operation		**Start date** Mar 2023 **End date** Mar 2023	
2.6.3.1 Engagement with relevant stakeholders	Engagement with 4 stakeholders		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SAG, SFS, UAD, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.6.3.2 Drafting TOR / SOP of selecting participant, Farming Practices, Management and Operation of the park	Draft TOR/SOP	**Start date** Apr 2023 **End date** Apr 2023	
2.6.3.3 Submission to Ministry for approval	Approved TOR/ SOP: Description: • Open for application (online ads, newspaper) • Interview • Committee Approval • Award letter to participant • Participant will be replaced if they didn't achieve the production target in two years	**Start date** May 2023 **End date** May 2023	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.6.3.4 Implement, Monitor and Evaluate	Monitoring & Evaluation report	**Start date** May 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	-

Action step (s)	Output (s)	Timeline	Resources required
2.6.4 Continuous engagement session with relevant agencies on: 1. Issues and to develop strategies, action plan and implementation approach 2. Budget requirement 3. Identify suitable crop 4. Identify Best Farming Technology & Practices 5. Legal document with SPV and participant 6. IOT requirement 7. Research & Development"	Engagement with 14 Stakeholders: EPU Sarawak - Program & Budget Approval SMA, SDEC - IOT Requirement for parks MANRED - Policy & Budget L&S - Land Status & Application, Compensation SLDB - SPV (Implementor & Operator) SFS - Funding Water Board / JBALB - Water facilities/connection SEB - Electric supply SAG - Legal MMKN Secretariat Training Institute Research Institute	**Start date** Jan 2021 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SPV	EPU Sarawak, SMA, SDEC, L&S, SLDB, SFS , Water Board, JBALB, SEB, SAG, MMKN Secretariat, training institute, research institute

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.6.5 Planning and Pre - Implementation		Start date	Fund (2.6.5a.1-3): RM560,000
2.6.5a Planning and design		Jun 2021	
2.6.5a.1 Site Identification	Appointment Letter from SPV to Consultant	End date	
		Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.6.5a.2 Siting Application & SPA approval	Investigation report	Start date	-
		Jan 2022	
		End date	
		Jun 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	L&S, SPA

Action step (s)	Output (s)	Timeline	Resources required
2.6.5a.3 Land Acquisition & Crop Compensation	Site layout plan and design by consultant	Start date	-
		Jun 2022	
		End date	
		Dec 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	L&S	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.6.5a.4 Appointment of consultant	Appointment Letter from SPV to Consultant	Start date	Fund (2.6.5a.4-10): RM1.575 mil
		Jul 2022	
		End date	
		Jul 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.6.5a.5 Soil Investigation	Investigation report	Start date May 2022 End date May 2022	-
2.6.5a.6 Preliminary site layout and schematic design	Site layout plan and design by consultant	Start date Jun 2022	-
2.6.5a.7 Preliminary costing	Estimate Breakdown cost by consultant	End date Jun 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Consultant	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.6.5a.8 Approval by implementing Agency & Project Owner	Complete Detailed and layout plan by SPV and client	Start date Jul 2022 End date Jul 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.6.5a.9 Submission & Approval (State Building Design Committee)	Approved Detailed and layout plan by SBDC	Start date Jul 2022 End date Aug 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SBDC, DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.6.5a.10 Submission & Approval (State Planning Authority)	Approved Detailed and layout plan by SPA	Start date: Sep 2022 End date: Sep 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SPA, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.6.5b Specification and procurement process		Start date: Oct 2022 End date: Oct 2022	Fund (2.6.5b): RM1.75 mil
2.6.5b.1 Preparation of tender and contract document	Complete Tender document		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.6.5b.2 Tendering, approval and awarding contract	Award letter and contract agreement to successful contractor	Start date: Oct 2022 End date: Dec 2022	-

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.6.5b.3 Hand Over Site	Handing over document to contractor	**Start date** Dec 2022 **End date** Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA, contractor

Action step (s)	Output (s)	Timeline	Resources required
2.6.6 Project Implementation - Construction of Infrastructures and facilities		**Start date** Jan 2023 **End date** Jan 2023	Fund: RM30.24 mil
2.6.6.1 Site Preparation (Clearing, compaction, stacking and levelling)	13.6 ha site preparation in Bebuling cleared		
2.6.6.2 Main infrastructure and utilities development (Building, Road, Fencing, Drainage)	13.6 ha been developed with infrastructure	**Start date** Feb 2023 **End date** Oct 2023	
2.6.6.3 Farming Facilities (SPH, IOT Nursery, etc.)	15 farming lots with 30 SPH	**Start date** Feb 2023 **End date** Oct 2023	
2.6.6.4 Project completion and handing over	Handing over document	**Start date** Nov 2023 **End date** Nov 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Contractor	SPV, DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.6.7 Monitoring and Evaluation	Monitoring and Evaluation report	Start date Jan 2023 End date Dec 2024	Fund: RM875,000

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV, DOA	SPV, DOA, EPU Sarawak, SFS, SIMU, UAD

Action step (s)	Output (s)	Timeline	Resources required
2.6.8 Completion and commencement of operation		Start date Dec 2023 End date Dec 2030	Funding: Internal SPV Manpower: 4 person (Technician (1) Supervisor (1), Security (2)
2.6.8.1 Operation, management and maintenance by SPV	Report on the: 1. Rental collected 2. Incentives provided 3. Operation and maintenance 4. Marketing		
2.6.8.2 Participant selection process	1. Online advertisement, notice on newspaper, office, notice board 2. Interview 3. Short listed qualified participants 4. Award letter to 12 successful participants	Start date Jun 2023 End date Dec 2023	
2.6.8.3 Incubation and intensified training to participant	12 participants have been trained	Start date Jun 2024 End date Mar 2024	
2.6.8.4 Production	Focus crop : Tomato 1 participant = 4,000 polybag 12 participant = 48,000 polybag 48,000 polybag x 4 kg = 192,000 kg / season 192,000 kg x RM8 = RM1,536,000 / season 1 year can plant 2 times RM1,536,000 x 2 = RM3,072,000 Total estimate production over 10 years for 12 participants : 1,920 mt@RM30,720,000.00	Start date Jun 2024 End date Dec 2030	Operation cost borne by the participant for 10 years: RM128,000

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.6.8.5 Marketing	Domestic market through online and direct sell 1. Hypermarket (Emart, AEON, H&L, Everise, Lepapa, etc.) 2. Timogah	**Start date** Jun 2024 **End date** Dec 2030	
2.6.8.6 Monitoring and Evaluation	Monitoring and Evaluation report	**Start date** Dec 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.7

Action step (s)	Output (s)	Timeline	Resources required
2.7 Kapit		Start date	
2.7.1 Policies Change - Business Model		Nov 2021	
2.7.1.1 Identify issues on existing system	Lists of issues to be solved	End date Nov 2021	
2.7.1.2 Identify potential SPV and budget required	Approved SPV and budget	Start date Dec 2021 End date Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	EPU Sarawak, SFS, SAG

Action step (s)	Output (s)	Timeline	Resources required
2.7.1.3 Drafting of Policy Paper to appoint SPV	Draft policy paper and agreement	Start date Jan 2022 End date Jan 2022	
2.7.1.4 Submission and approval of MMKN paper (if necessary)	Approved Cabinet Paper	Start date Feb 2022 End date Feb 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	Minister Office, DOA, SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.7.1.5 Appointment of SPV to implement, manage & operate the precision parks.	Qualified SPV been appointed to manage and operate the park. Main role of the involved party: • SPV: Collect rental fee, Long term maintenance and repairing of the facilities and infrastructure, Involve in Buy back and Marketing, Providing production Incentive • Community involvement: Participants • MANRED: Policy maker & Budget • State agencies (DOA & SMA): Technical advice, technology transfer, suitable crops, selection of participant	**Start date** Mar 2022 **End date** Mar 2022	Funding: Internal SPV Manpower: Technician (1) Supervisor (1), Security (2)

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.7.1.6 Monitor and Evaluate	Monitoring & Evaluation report	**Start date** Apr 2022 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SPV

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.7.2 Formulation of new incentives		Start date	
2.7.2.1 Appointment of consultant to collate and examine/analyse all relevant information	1 qualified consultant been appointed - Consultant report on the propose new incentives Description: Identify additional/ supplementary incentives that can be offered by State, in addition to Federal Incentives.	May 2022 End date Nov 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SFS, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.7.2.2 Drafting of Policy Paper on new incentives	Draft Policy paper and list of new incentives	Start date Dec 2022 End date Dec 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.7.2.3 Submission and approval of MMKN paper (if necessary)	Approved investment incentives Initial proposal: • Special rental rate (RM100/SPH/month) • 20% discount on utilities (water & electric) • Production incentive - 20 cent per KG	Start date Jan 2023 End date Jan 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.7.2.4 Implement new incentives **2.7.2.5** Implement new incentives, Monitor and Evaluate	No of beneficiaries: 15 participants Monitoring & Evaluation report	**Start date** Feb 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.7.3 Develop Criteria and guideline for management and operation		**Start date** Mar 2023	
2.7.3.1 Engagement with relevant stakeholders	Engagement with 4 stakeholders	**End date** Mar 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SAG, SFS, UAD, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.7.3.2 Drafting TOR / SOP of selecting participant, Farming Practices, Management and Operation of the park	Draft TOR/SOP	**Start date** Apr 2023 **End date** Apr 2023	
2.7.3.3 Submission to Ministry for approval	Approved TOR/ SOP: Description: • Open for application (online ads, newspaper) • Interview • Committee Approval • Award letter to participant • Participant will be replaced if they didn't achieve the production target in two years	**Start date** May 2023 **End date** May 2023	Operation cost borne by the participant for 10 years: RM64,000

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.7.3.4 Implement, Monitor and Evaluate	Monitoring & Evaluation report	**Start date** May 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	-

Action step (s)	Output (s)	Timeline	Resources required
2.7.4 Continuous engagement session with relevant agencies on: 1. Issues and to develop strategies, action plan and implementation approach 2. Budget requirement 3. Identify suitable crop 4. Identify Best Farming Technology & Practices 5. Legal document with SPV and participant 6. IOT requirement 7. Research & Development"	Engagement with 14 Stakeholders: EPU Sarawak- Program & Budget Approval SMA, SDEC - IOT Requirement for parks MANRED - Policy & Budget L&S - Land Status & Application, Compensation SLDB - SPV (Implementor & Operator) SFS - Funding Water Board / JBALB - Water facilities/connection SEB - Electric supply SAG - Legal MMKN Secretariat Training Institute Research Institute	**Start date** Jan 2021 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SPV	EPU Sarawak, SMA, SDEC, L&S, SLDB, SFS , Water Board, JBALB, SEB, SAG, MMKN Secretariat, training institute, research institute

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.7.5 Planning and Pre - Implementation		Start date	Fund (2.7.5a.1-3): RM360,000
2.7.5a Planning and design		Jun 2021	
2.7.5a.1 Site Identification	Kapit Precision Farming Park - 10 ha	End date	
		Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.7.5a.2 Siting Application & SPA approval	10 ha approved for development • Complete Project brief and Map for Siting Application	Start date Jan 2022 End date Jun 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	L&S, SPA

Action step (s)	Output (s)	Timeline	Resources required
2.7.5a.3 Land Acquisition & Crop Compensation	10 ha been acquired	Start date Jun 2022 End date Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	L&S	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.7.5a.4 Appointment of consultant	Appointment Letter from SPV to Consultant	Start date Jul 2022 End date Jul 2022	Fund (2.7.5a.4-10): RM1.575 mil

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.7.5a.5 Soil Investigation	Investigation report	Start date May 2022 End date May 2022	-
2.7.5a.6 Preliminary site layout and schematic design	Site layout plan and design by consultant	Start date Jun 2022	-
2.7.5a.7 Preliminary costing	Estimate Breakdown cost by consultant	End date Jun 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Consultant	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.7.5a.8 Approval by implementing Agency & Project Owner	Complete Detailed and layout plan by SPV and client	Start date Jul 2022 End date Jul 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.7.5a.9 Submission & Approval (State Building Design Committee)	Approved Detailed and layout plan by SBDC	Start date Jul 2022 End date Aug 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SBDC, DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.7.5a.10 Submission & Approval (State Planning Authority)	Approved Detailed and layout plan by SPA	Start date: Sep 2022 End date: Sep 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SPA, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.7.5b Specification and procurement process		Start date: Oct 2022 End date: Oct 2022	Fund (2.7.5b): RM1.75 mil
2.7.5b.1 Preparation of tender and contract document	Complete Tender document		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.7.5b.2 Tendering, approval and awarding contract	Award letter and contract agreement to successful contractor	Start date: Oct 2022 End date: Dec 2022	-

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.7.5b.3 Hand Over Site	Handing over document to contractor	**Start date** Dec 2022 **End date** Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA, contractor

Action step (s)	Output (s)	Timeline	Resources required
2.7.6 Project Implementation - Construction of Infrastructures and facilities		**Start date** Jan 2023 **End date** Jan 2023	Fund: RM30.44 mil
2.7.6.1 Site Preparation (Clearing, compaction, stacking and levelling)	13.6 ha site preparation in Kapit cleared		
2.7.6.2 Main infrastructure and utilities development (Building, Road, Fencing, Drainage)	13.6 ha been developed with infrastructure	**Start date** Feb 2023 **End date** Oct 2023	
2.7.6.3 Farming Facilities (SPH, IOT Nursery, etc.)	15 farming lots with 30 SPH	**Start date** Feb 2023 **End date** Oct 2023	
2.7.6.4 Project completion and handing over	Handing over document	**Start date** Nov 2023 **End date** Nov 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Contractor	SPV, DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.7.7 Monitoring and Evaluation	Monitoring and Evaluation report	Start date Jan 2023 End date Dec 2024	Fund: RM875,000

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV, DOA	SPV, DOA, EPU Sarawak, SFS, SIMU, UAD

Action step (s)	Output (s)	Timeline	Resources required
2.7.8 Completion and commencement of operation		Start date Dec 2023 End date Dec 2030	Funding: Internal SPV Manpower: 4 person (Technician (1) Supervisor (1), Security (2)
2.7.8.1 Operation, management and maintenance by SPV	Report on the: 1. Rental collected 2. Incentives provided 3. Operation and maintenance 4. Marketing		
2.7.8.2 Participant selection process	1. Online advertisement, notice on newspaper, office, notice board 2. Interview 3. Short listed qualified participants 4. Award letter to 12 successful participants	Start date Jun 2023 End date Dec 2023	
2.7.8.3 Incubation and intensified training to participant	12 participants have been trained	Start date Jun 2024 End date Mar 2024	
2.7.8.4 Production	Focus crop: Golden Melon 1 participant = 4,000 polybag 12 participant = 48,000 polybag 48,000 polybag x 1.2 kg = 57,600 kg / season 57,600 kg x RM10 = RM576,000 / season 1 year can plant 4 times RM576,000 x 4 = RM2,304,000 Total estimate production over 10 years for 12 participants: 1,152 mt@RM23,040,000	Start date Jun 2024 End date Dec 2030	Operation cost borne by the participant for 10 years: RM64,000

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.7.8.5 Marketing	Domestic market through online and direct sell 1. Hypermarket (Emart, AEON, H&L, Everise, Lepapa, etc.) 2. Timogah	**Start date** Jun 2024 **End date** Dec 2030	
2.7.8.6 Monitoring and Evaluation	Monitoring and Evaluation report	**Start date** Dec 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.8

Action step (s)	Output (s)	Timeline	Resources required
2.8 Limbang		Start date	
2.8.1 Policies Change - Business Model		Nov 2021	
2.8.1.1 Identify issues on existing system	Lists of issues to be solved	End date Nov 2021	
2.8.1.2 Identify potential SPV and budget required	Approved SPV and budget	Start date Dec 2021 End date Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	EPU Sarawak, SFS, SAG

Action step (s)	Output (s)	Timeline	Resources required
2.8.1.3 Drafting of Policy Paper to appoint SPV	Draft policy paper and agreement	Start date Jan 2022 End date Jan 2022	
2.8.1.4 Submission and approval of MMKN paper (if necessary)	Approved Cabinet Paper	Start date Feb 2022 End date Feb 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	Minister Office, DOA, SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.8.1.5 Appointment of SPV to implement, manage & operate the precision parks.	Qualified SPV been appointed to manage and operate the park. Main role of the involved party: • SPV: Collect rental fee, Long term maintenance and repairing of the facilities and infrastructure, Involve in Buy back and Marketing, Providing production Incentive • Community involvement: Participants • MANRED: Policy maker & Budget • State agencies (DOA & SMA): Technical advice, technology transfer, suitable crops, selection of participant	**Start date** Mar 2022 **End date** Mar 2022	Funding: Internal SPV Manpower: Technician (1) Supervisor (1), Security (2)

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.8.1.6 Monitor and Evaluate	Monitoring & Evaluation report	**Start date** Apr 2022 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SPV

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.8.2 Formulation of new incentives		Start date	
2.8.2.1 Appointment of consultant to collate and examine/analyse all relevant information	1 qualified consultant been appointed - Consultant report on the propose new incentives Description: Identify additional/ supplementary incentives that can be offered by State, in addition to Federal Incentives.	May 2022 End date Nov 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SFS, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.8.2.2 Drafting of Policy Paper on new incentives	Draft Policy paper and list of new incentives	Start date Dec 2022 End date Dec 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.8.2.3 Submission and approval of MMKN paper (if necessary)	Approved investment incentives Initial proposal: • Special rental rate (RM100/SPH/month) • 20% discount on utilities (water & electric) • Production incentive - 20 cent per KG	Start date Jan 2023 End date Jan 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	SS, SAG, SFS, MMKN Secretariat

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.8.2.4 Implement new incentives **2.8.2.5** Implement new incentives, Monitor and Evaluate	No of beneficiaries: 15 participants Monitoring & Evaluation report	**Start date** Feb 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.8.3 Develop Criteria and guideline for management and operation		**Start date** Mar 2023 **End date** Mar 2023	
2.8.3.1 Engagement with relevant stakeholders	Engagement with 4 stakeholders		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	SAG, SFS, UAD, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.8.3.2 Drafting TOR / SOP of selecting participant, Farming Practices, Management and Operation of the park	Draft TOR/SOP	**Start date** Apr 2023 **End date** Apr 2023	
2.8.3.3 Submission to Ministry for approval	Approved TOR/ SOP: Description: • Open for application (online ads, newspaper) • Interview • Committee Approval • Award letter to participant • Participant will be replaced if they didn't achieve the production target in two years	**Start date** May 2023 **End date** May 2023	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.8.3.4 Implement, Monitor and Evaluate	Monitoring & Evaluation report	**Start date** May 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	-

Action step (s)	Output (s)	Timeline	Resources required
2.8.4 Continuous engagement session with relevant agencies on: 1. Issues and to develop strategies, action plan and implementation approach 2. Budget requirement 3. Identify suitable crop 4. Identify Best Farming Technology & Practices 5. Legal document with SPV and participant 6. IOT requirement 7. Research & Development"	Engagement with 14 Stakeholders: EPU Sarawak - Program & Budget Approval SMA, SDEC - IOT Requirement for parks MANRED - Policy & Budget L&S - Land Status & Application, Compensation SLDB - SPV (Implementor & Operator) SFS - Funding Water Board / JBALB - Water facilities/connection SEB - Electric supply SAG - Legal MMKN Secretariat Training Institute Research Institute	**Start date** Jan 2021 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SPV	EPU Sarawak, SMA, SDEC, L&S, SLDB, SFS , Water Board, JBALB, SEB, SAG, MMKN Secretariat, training institute, research institute

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.8.5 Planning and Pre - Implementation		Start date	-
2.8.5a Planning and design		Jun 2021	
2.8.5a.1 Site Identification	Limbang Precision Farming Park - 10 ha	End date	
		Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.8.5a.2 Siting Application & SPA approval	10 ha approved for development • Complete Project brief and Map for Siting Application	Start date	-
		Jan 2022	
		End date	
		Jun 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	L&S, SPA

Action step (s)	Output (s)	Timeline	Resources required
2.8.5a.3 Land Acquisition & Crop Compensation	10 ha been acquired	Start date	-
		Jun 2022	
		End date	
		Dec 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	L&S	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.8.5a.4 Appointment of consultant	Appointment Letter from SPV to Consultant	Start date	Fund (2.8.5a.4-10): RM1.35 mil
		Jul 2022	
		End date	
		Jul 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SFS

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.8.5a.5 Soil Investigation	Investigation report	Start date May 2022 End date May 2022	-
2.8.5a.6 Preliminary site layout and schematic design	Site layout plan and design by consultant	Start date Jun 2022	-
2.8.5a.7 Preliminary costing	Estimate Breakdown cost by consultant	End date Jun 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Consultant	DOA, SPV

Action step (s)	Output (s)	Timeline	Resources required
2.8.5a.8 Approval by implementing Agency & Project Owner	Complete Detailed and layout plan by SPV and client	Start date Jul 2022 End date Jul 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.8.5a.9 Submission & Approval (State Building Design Committee)	Approved Detailed and layout plan by SBDC	Start date Jul 2022 End date Aug 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SBDC, DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.8.5a.10 Submission & Approval (State Planning Authority)	Approved Detailed and layout plan by SPA	**Start date** Sep 2022 **End date** Sep 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	SPA, DOA

Action step (s)	Output (s)	Timeline	Resources required
2.8.5b Specification and procurement process		**Start date**	Fund (2.7.5b): RM1.5 mil
2.8.5b.1 Preparation of tender and contract document	Complete Tender document	Oct 2022 **End date** Oct 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

Action step (s)	Output (s)	Timeline	Resources required
2.8.5b.2 Tendering, approval and awarding contract	Award letter and contract agreement to successful contractor	**Start date** Oct 2022 **End date** Dec 2022	-

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.8.5b.3 Hand Over Site	Handing over document to contractor	**Start date** Dec 2022 **End date** Dec 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA, Contractor

Action step (s)	Output (s)	Timeline	Resources required
2.8.6 Project Implementation - Construction of Infrastructures and facilities		**Start date** Jan 2023 **End date** Jan 2023	Fund: RM26.4 mil
2.8.6.1 Site Preparation (Clearing, compaction, stacking and levelling)	13.6 ha site preparation in Limbang cleared		
2.8.6.2 Main infrastructure and utilities development (Building, Road, Fencing, Drainage)	13.6 ha been developed with infrastructure	**Start date** Feb 2023 **End date** Oct 2023	
2.8.6.3 Farming Facilities (SPH, IOT Nursery, etc.)	15 farming lots with 30 SPH	**Start date** Feb 2023 **End date** Oct 2023	
2.8.6.4 Project completion and handing over	Handing over document	**Start date** Nov 2023 **End date** Nov 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	Contractor	SPV, DOA

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.8.7 Monitoring and Evaluation	Monitoring and Evaluation report	Start date Jan 2023 End date Dec 2024	Fund: RM750,000

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV, DOA	SPV, DOA, EPU Sarawak, SFS, SIMU, UAD

Action step (s)	Output (s)	Timeline	Resources required
2.8.8 Completion and commencement of operation		Start date Dec 2023 End date Dec 2030	Funding: Internal SPV Manpower: 4 person (Technician (1) Supervisor (1), Security (2)
2.8.8.1 Operation, management and maintenance by SPV	Report on the: 1. Rental collected 2. Incentives provided 3. Operation and maintenance 4. Marketing		
2.8.8.2 Participant selection process	1. Online advertisement, notice on newspaper, office, notice board 2. Interview 3. Short listed qualified participants 4. Award letter to 12 successful participants	Start date Jun 2023 End date Dec 2023	
2.8.8.3 Incubation and intensified training to participant	12 participants have been trained	Start date Jun 2024 End date Mar 2024	
2.8.8.4 Production	Focus crop: Golden Melon 1 participant = 4,000 polybag 12 participant = 48,000 polybag 48,000 polybag x 1.2 kg = 57,600 kg / season 57,600 kg x RM10 = RM576,000 / season 1 year can plant 4 times RM576,000 x 4 = RM2,304,000 Total estimate production over 10 years for 12 participants: 1,152 mt@RM23,040,000	Start date Jun 2024 End date Dec 2030	Operation cost borne by the participant for 10 years: RM64,000

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	2. Precision Farming development programme (cont'd)
Action step	:	2.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
2.8.8.5 Marketing	Domestic market through online and direct sell 1. Hypermarket (Emart, AEON, H&L, Everise, Lepapa, etc.) 2. Timogah	**Start date** Jun 2024 **End date** Dec 2030	
2.8.8.6 Monitoring and Evaluation	Monitoring and Evaluation report	**Start date** Dec 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SPV	DOA

AIP Level 1 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Strategy	:	1. Shift from subsistence farming to modern and high yielding commercial scale agriculture & food processing 2. Unlocking and optimise utilisation of land and strengthen supply chain infrastructure to enhance efficiency & competitiveness 3. Enhance sustainability and increase agro-based community's income
Initiative	:	3. Ruminant industry development programme

Initiative	Desired Outcome (s)
3. Ruminant industry development programme (cattle, buffalo, goat)	**Economic Prosperity** ● 50% of poor households receive monthly income above PLI level ● 50 trained agro-entrepreneur with monthly income of RM6,000 and above ● Cattle population increased from 17,000 heads to 150,000 heads by 2030 ● Beef production increased from 533 MT to 2,600 MT by 2030, contributing to the increase of beef self-sufficient level (SSL) from 12% to 50% by 2030 ● RM50 mil / year revenue generated and 7,500 job created by 2030 ● A total of 150,000 ha developed area under integration programme (25,000 ha by SALCRA, 25,000 ha of other new estates) **Social Inclusivity** ● 50% of Ruminant Industry Development Programme's participants comprised of poor rural households **Environment Sustainability** ● 100% application of Good Husbandry Practices (GHP) ● 150,000 ha area maintained as green area ● 5% increase in absorption rate of CO_2

Timeline		Resources Required
Start Date	End Date	
2021	2030	Public: RM40 mil (12MP) Private: RM50 mil

Project Owner	Implementing Agency	Other Stakeholders
DVSS, SALCRA	DVSS, SALCRA	MANRED, DOA, MIPD, MOU, MINTRED, DID, L&S, SMA, R&DO, JBALB, SEB, PBT, anchor companies, private investors

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme
Action step	:	3.1

Action step (s)	Output (s)	Timeline	Resources required
3.1 Ruminant Entrepreneur Development (Integration / Feedlot / Greenlot)		**Start date**	
Formulate policy and guideline on implementation of Ruminant Entrepreneur Development Programme. 1. Productive heifer and cow are not allowed to be slaughtered 2. Establishment of Sarawak Livestock Development Board to spearhead livestock industry development	1. Livestock Development Programme Implementation Manual / SOP 2. Sarawak Livestock Industry Development Ordinance	Nov 2021 **End date** Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	Ruminant integrators, feedlotters, greenlotters

Action step (s)	Output (s)	Timeline	Resources required
3.1.1 Identification of participants and stakeholders		**Start date**	
3.1.1.1 Identification of participants & Stakeholders engagement	100 stakeholder & participants identified and selected for the 2021-2025 a) Cattle (50 Participant) b) Buffalo (40 Participant) c) Goat/Sheep (10 Participant)	Jan 2021 **End date** Jan 2021	
3.1.1.2 Investigation on potential oil palm estate, feedlotter / smallholder on eligibility and readiness for the project (Having relevant infrastructures required)	150 participants / stakeholder investigated	**Start date** Feb 2021 **End date** Apr 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	Oil palm plantations, cattle feedlotters, entrepreneurs

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.1.2 Procurement of Breeding Stocks (Cattle, Buffalo, Goats / Sheep)		**Start date**	
3.1.2.1 Prepared Specification of quality breeder for procurement	One Specification document prepared	Jan 2021 **End date** Jan 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	SFS

Action step (s)	Output (s)	Timeline	Resources required
3.1.2.2 Conduct market survey on the prices of the breeders	5 market survey	**Start date** Jan 2021 **End date** Jan 2021	
3.1.2.3 Procurement procedure (Tender/WOT)	Completed procurement procedure	**Start date** Feb 2021 **End date** Feb 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	-

Action step (s)	Output (s)	Timeline	Resources required
3.1.2.4 Procurement of Breeding Stocks (Cattle, Buffalo, Goats/Sheep)	8,000 heads of breeder ruminant purchased (5,000 heads cattle, 1,000 heads buffaloes, 2,000 heads goats/sheep)	**Start date** Apr 2021 **End date** Jun 2021	Fund: RM54 mil *Cattle: RM40 mil* *Buffalo: RM8 mil* *Goat: RM6 mil*

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	PPES TERNAK, livestock suppliers / traders

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.1.3 Training		Start date	
3.1.3.1 Identify training need for participant / stakeholder	100 participants / stakeholders trained	Feb 2021 End date Feb 2021	
3.1.3.2 Prepare training module and trainers requirement from Federal, State, private sector	Three training modules produced	Start date Apr 2021 End date Apr 2021	
3.1.3.3 Conduct training for the participant	6 training courses conducted	Start date May 2021 End date Jun 2021	RM10,000

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	Ruminant entrepreneurs (Integrators, Feedlotters, Greenlotters)

Action step (s)	Output (s)	Timeline	Resources required
3.1.4 Distribution of stocks under Pawah		Start date	
3.1.4.1 Identify logistics requirement and cost	Identified requirements and budget	Jul 2021 End date Jul 2021	
3.1.4.2 Prepare distribution schedule and inform participant / stakeholder to prepare necessary infrastructures	One distribution schedule produced	Start date Aug 2021 End date Aug 2021	
3.1.4.3 Conduct necessary deworming, vaccination and health check before distribution	8,000 head of breeder examined and treated	Start date Sep 2021 End date Oct 2021	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.1.4.4 Distribution of livestock	8,000 heads of breeder ruminant distributed to 100 participant / stakeholder (5,000 heads cattle, 1,000 heads buffaloes, 2,000 heads goats/sheep)	**Start date** Sep 2021 **End date** Oct 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	Ruminant entrepreneurs (Integrators, Feedlotters, Greenlotters)

Action step (s)	Output (s)	Timeline	Resources required
3.1.5 Extension & Monitoring		**Start date**	
3.1.5.1 Prepare monitoring format	One monitoring format prepared	Jul 2021 **End date** Jul 2021	
3.1.5.2 Prepare schedule for field visit	One field visit schedule prepared	**Start date** Jul 2021 **End date** Jul 2021	
3.1.5.3 Conduct field visit, in situ training, herd health and monitoring according to schedule	100 farms visited and monitored	**Start date** Jan 2021 **End date** Dec 2021	
3.1.5.4 Compile and analyse field report	One analysis report	**Start date** Jan 2021 **End date** Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	-

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.1.6 Collection and redistribution under Pawah		**Start date**	
3.1.6.1 Identify potential new participant	100 stakeholder & participants engaged for the 2027-2031	Jan 2021 **End date** Dec 2021	
3.1.6.2 Identify logistic requirement	List of logistics required	**Start date** Jan 2021 **End date** Dec 2021	
3.1.6.3 Plan schedule for collection of livestock	One specification document prepared	**Start date** Jan 2021 **End date** Jan 2021	
3.1.6.4 Conduct collection and redistribution (repawah livestock)	Breeder stock collected and re-distributed Cattle (5,000 head) Buffalo (1,000 head)	**Start date** Jan 2022 **End date** Dec 2028	
	Sheep/Goat (2,000 head)	**Start date** Jan 2022 **End date** Dec 2025	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	-

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.1.7 Analysis		**Start date**	
3.1.7.1 Compile report from all divisions	One completed report	2021 **End date** 2030	
3.1.7.2 Analyse the participant / stakeholder performance based on the standard production parameter	One analysis report	**Start date** Dec 2021 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	-

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.2

Action step (s)	Output (s)	Timeline	Resources required
3.2 Station Privatisation & Anchor Farm Development		Start date	
Prepare policy and guideline on implementation of Station privatisation and Ruminant anchor farm development. 1. Productive heifer and cow are not allowed to be slaughtered 2. Establishment of Sarawak Livestock Development Board to spearhead livestock industry development	1. Livestock Development Programme Implementation Manual / SOP 2. Sarawak Livestock Industry Development Ordinance	Nov 2021 End date Dec 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	Anchor farms (Mucow Malaysia Sdn Bhd, Alam Bumijaya Sdn Bhd, Green Valley Dairy Sdn Bhd)

Action step (s)	Output (s)	Timeline	Resources required
3.2.1 Engagement with private company as an anchor company (privatisation of livestock station)		Start date	
3.2.1.1 Planning & Discussion on term and condition for privatisation of livestock station	Three anchor company engaged and three licence agreement signed	Jan 2021 End date Dec 2022	
3.2.1.1a Temudok Livestock Station-Mucow Malaysia Sdn Bhd		Start date Nov 2021 End date Nov 2021	Temudok Station: 45.6 ha Funding Required: DVS: 1.5 mil Mucow Malaysia: RM 4 mil SLDB(AgroCapital): RM 4 mil Manpower Required: 1 vet, 1 farm manager, 4 stockman

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.2.1.1b Karabungan Livestock Station-Alam BumiJaya Sdn Bhd	Three anchor company engaged and three licence agreement signed	**Start date** Dec 2021 **End date** Dec 2021	Karabungan Station: 120 ha Funding Required: DVS:RM 4 mil Alam BumiJaya: 9 mil SLDB(AgroCapital): RM 7 mil Manpower Required: 1 vet, 1 farm manager, 2 assistant, 8 stockman
3.2.1.1c Maragang Livestock Station-GreenValley Dairy Sdn Bhd		**Start date** Nov 2022 **End date** Dec 2022	Maragang Station: 180 ha Funding Required: RECODA: 9 mil DVS: RM 4 mil GreenValley: 9 mil Manpower Required: 1 vet, 1 farm manager,1 Quality Assurance Manager, 2 assistant, 6 stockman

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	Mucow Malaysia Sdn Bhd, Alam BumiJaya Sdn Bhd, GreenValley Dairy Sdn Bhd, SLDB (AgroCapital), PPES Ternak

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.2.2 Station Infrastructure Development		**Start date**	
3.2.2.1 Upgrading of existing infrastructures (animal shed)	Temudok: 8 livestock shed upgrade Karabungan: 2 livestock shed	Temudok: Dis 2021 Karabungan: Jan 2022 Maragang July 2022	
3.2.2.2 Temudok Livestock Station-Mucow Malaysia Sdn Bhd	Temudok: 1 cattle feedlot shed build Karabungan: 2 cattle feedlot shed build Maragang: 2 cattle feedlot shed build	**End date** Temudok: Mac 2022 Karabungan: April 2022 Maragang Sep 2022	
3.2.2.3 Pasture and fodder development	Temudok: 45.6 ha pasture/paddock develop Karabungan: 120 ha pasture/paddock develop Maragang:180 ha pasture/paddock develop		

Project Owner	Implementing Agency	Other Stakeholders
MANRED	-	-

Action step (s)	Output (s)	Timeline	Resources required
3.2.3 Procurement of Breeding Stocks (Cattle, Buffalo, Goats/Sheep)		**Start date**	
3.2.3.1 Prepared specification of quality breeder for procurement	One specification document prepared	Jan 2022 **End date**	
3.2.3.2 Conduct market survey on the prices of the breeders	5 market survey	Jan 2022	
3.2.3.3 Procurement procedure (Tender/WOT)	Completed procurement procedure	**Start date** Feb 2022 **End date** Feb 2022	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.2.3.4 Procurement of Breeding Stocks (Cattle, Buffalo, Goats/Sheep)			
3.2.3.4a Mucow Malaysia Sdn Bhd	500 head of breeder sheep/goat	**Start date** Apr 2022 **End date** Jun 2022	RM1.5 mil
3.2.3.4b Alam BumiJaya Sdn Bhd	500 head of breeder cattle	**Start date** Apr 2022 **End date** Jun 2022	RM4 mil
3.2.3.4c GreenValley Dairy Sdn Bhd	500 head of breeder buffalo	**Start date** Apr 2023 **End date** Jun 2023	RM4 mil

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	PPES Ternak Sdn Bhd, Ruminant traders

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.2.4 Training		**Start date**	
3.2.4.1 Identify training need for participant / stakeholder	15 participant/stakeholder trained	Feb 2022 **End date** Feb 2022	
3.2.4.2 Prepare training module and trainers requirement from Federal, State, private sector	Three training module produced	**Start date** Apr 2022 **End date** Apr 2022	
3.2.4.3 Conduct training for the participant	Three training courses conducted	**Start date** May 2022 **End date** Jun 2022	RM10,000

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	Anchor farms workers (Mucow Malaysia Sdn Bhd, Alam Bumijaya Sdn Bhd, Green Valley Dairy Sdn Bhd)

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.2.5 Distribution of stocks		**Start date**	
3.2.5.1 Identify logistic requirement and cost	List of requirements and budget required	Jul 2022 **End date** Jul 2022	
3.2.5.2 Prepare distribution schedule and inform participant / stakeholder to prepare necessary infrastructures	One distribution schedule produced	**Start date** Aug 2022 **End date** Aug 2022	
3.2.5.3 Conduct necessary deworming, vaccination and health check before distribution	1,500 heads of breeder examined and treated	**Start date** Sep 2022 **End date** Oct 2022	
3.2.5.4 Distribution of livestock	1,500 heads of breeder ruminant distributed (500 heads cattle, 500 heads buffaloes, 500 heads goats / sheep)	**Start date** Sep 2022 **End date** Oct 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	Anchor farms workers (Mucow Malaysia Sdn Bhd, Alam Bumijaya Sdn Bhd, Green Valley Dairy Sdn Bhd)

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.2.6 Extension & Monitoring		**Start date**	
3.2.6.1 Prepare monitoring format	One monitoring format prepared	Jul 2022 **End date** Jul 2022	
3.2.6.2 Prepare schedule for field visit	One field visit schedule prepared	**Start date** Jul 2022 **End date** Jul 2022	
3.2.6.3 Conduct field visit, in situ training, herd health and monitoring according to schedule	3 station visited and monitored	**Start date** Jan 2022 **End date** Dec 2022	
3.2.6.4 Compile and analyse field report	One analysis report	**Start date** Jan 2022 **End date** Dec 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	-

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.2.7 Collection and redistribution		**Start date**	
3.2.7.1 Identify potential new participant	15 stakeholder and participants engaged for the 2027-2031 Cattle (5 participants) Goat/Sheep (5 participants) Buffalo (5 participants)	Jul 2027 **End date** Jul 2031	
3.2.7.2 Identify logistic requirement	List of requirements	**Start date** Jan 2022 **End date** Dec 2022	
3.2.7.3 Plan schedule for collection of livestock	Livestock collection plan	**Start date** Jan 2022 **End date** Jan 2022	
3.1.7.4 Conduct collection and redistribution (repawah livestock)	Breeder stock collected and redistributed Cattle (500 head) Buffalo (500 head)	**Start date** Jan 2022 **End date** Dec 2028	
	Sheep/Goat (500 head)	**Start date** Jan 2022 **End date** Dec 2025	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	Ruminant Entrepreneurs (Integrators, Feedlotters, Greenlotters)

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	3. Ruminant industry development programme (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.1.8 Analysis		**Start date**	
3.1.8.1 Compile report from all divisions	One completed report	2021 **End date** 2030	
3.1.8.2 Analyse the participant / stakeholder performance based on the standard production parameter	One analysis report	**Start date** Dec 2021 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	-

AIP Level 1 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Strategy	:	1. Shift from subsistence farming to modern and high yielding commercial scale agriculture & food processing 2. Unlocking and optimise utilisation of land and strengthen supply chain infrastructure to enhance efficiency & competitiveness 3. Enhance sustainability and increase agro-based community's income
Initiative	:	4. Swine industry development programme

Initiative	Desired Outcome (s)
4. Swine industry development programme	**Economic Prosperity** ● 20% of poor households within 20 KM radius of Pig Farming Area receive monthly income above PLI level ● 650,000 Standing Pig Population (SPP) by 2030 ● RM359.5 mil / year revenue generated ● RM257.5 mil / year of export value by 2030 ● Three (3) anchor companies with RM1 bil worth of investment. ● RM1 bil worth of investment awarded to local contractors that provides job opportunities ● 2,000 job created by 2030 ● A total of 1,437 ha of developed area **Social Inclusivity** ● 20% of land owners within 20 KM radius of Pig Farming Area participated as outgrowers to the anchor company **Environment Sustainability** ● 100% application of GHP ● 150,000 ha area maintained as green area. ● 5% increase in absorption rate of CO_2

Timeline		Resources Required
Start Date	End Date	
2021	2030	Public: RM27 mil Private: RM550 mil

Project Owner	Implementing Agency	Other Stakeholders
DVSS	DVSS	MANRED, L&S, NREB, JKR, JBALB, Local Council, Port Authority, SEB, PFA Operator, Bomba, BDA, local communities

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	4. Swine industry development programme
Action step	:	4.1

Action step (s)	Output (s)	Timeline	Resources required
4.1 Proposed Pig Farming Area (PFA) Selangau, Sungai Selabi, Sibu		Start date	
4.1.1 Site identification and preliminaries	New site identified: 233 ha	2019	
		End date	
		2019	
4.1.1.1 Dialogue with land owners(NCR Land) by L & S/DVS	Land owners agreed to give the land	Start date	
		2019	
		End date	
4.1.1.2 Site suitability study	1. Site Suitable and agreed by Land & Survey, District office, Council, longhouses community 2. EIA Reports 3. Application for submission to SPA for approval	2021	
		Start date	
		2021	
		End date	
4.1.2 State Planning Authority (SPA) Approval	SPA approval/memo from Land & survey	2021	
		Start date	
		2021	
		End date	
4.1.3 Land Acquisition (NCR Land)	233 ha acquired	2021	
4.1.3.1 Land compensation	233 ha of land paid: RM6.5 mil	Start date	
4.1.3.2 Submission of master plan and subdivision plan to SPA	SPA approved Master Plan/gazettement of land	2021	
4.1.3.3 Submission for approval of layout plan to SPA	SPA's approval of overall site Layout plan		
4.1.3.4 Presentation to SPA on the proposed development by project proponent	SPA's approval to client department & amount of money required for land acquisition by Land & Survey Department	End date	RM6.5 mil
4.1.3.5 Issuance of land title to project owner/anchor farmers/farmers	Land title documents issue to project owner / proponent / farmers	2022	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	4. Swine industry development programme (cont'd)
Action step	:	4.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.1.4 Pre-Project Implementation		**Start date**	
4.1.4.1 Handing over site to project developer	Agreement documents signed	2021 **End date** 2022	
4.1.5 Project implementation	SPA approved Master Plan/gazettement of land	**Start date**	Project owner / Private sector funding
4.1.5.1 Land preparation	Designated areas and plots cleared - estimated 233 ha	2022	
4.1.5.2 Construction of accessed and internal road	2 km main road and 5 km secondary road built	**End date**	
4.1.5.3 Installation of utilities supplies / telecommunication facilities and other related infrastructures	Water retrelocation system, electricity supplies, internet, fax, telephone installed	2024	
4.1.5.4 Construction of animal sheds, wastewater ponds, feedmill, abattoir, sale house, workers' barracks, etc.	25 animal sheds -Breeder sheds, gilt shed, weaner sheds, porker sheds and finisher sheds, 3 wastewater treatment ponds, 1 feedmill, 1 abattoir, 1 sale house, 15 barracks for workers constructed	**Start date** 2022 **End date** 2025	Project owner / Private sector funding
4.1.5.5 Construction of facilities for meat processing, cool room, etc.	1 unit of meat processing plant and 2 cool rooms for pork and pork products	**Start date** 2023 **End date** 2024	Project owner / Private sector funding
4.1.5.6 Construction of Laboratory and Biosecurity facilities	1 unit of Laboratory and 5 km biosecurity fencing for diseases screening / control constructed	**Start date** 2024 **End date** 2025	Project owner / Private sector funding
4.1.5.7 Manpower / employment for pig production and related activities	2 veterinarian, 5 para-vet and 150 stockmen employed	**Start date** 2024	Project owner / Private sector funding
4.1.5.8 Pig Production activities - 2025 (5,000 sows) and 2030 (10,000 sows)	Porker production: 2025 (100,000 heads) and 2030 (220,000 heads) produced	**End date** 2025	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	4. Swine industry development programme (cont'd)
Action step	:	4.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.1.6 Project monitoring		Start date	
4.1.6.1 Monthly site meeting and progress report	Monthly progress reports	2022	
4.1.6.2 Proposed work schedule	Monthly plan of work	End date 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	EPU Sarawak, L&S, NREB, DOA, SEB, DID, JKR, JBALB, Local Authorities, PFA Operator (MPF Agronomy Sdn Bhd), local farmers

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	4. Swine industry development programme
Action step	:	4.2

Action step (s)	Output (s)	Timeline	Resources required
4.2 Proposed PFA Samarakan, Bintulu		**Start date**	
4.2.1 Site identification and preliminaries	New site identified	2021 **End date** 2021	
4.2.1.1 Dialogue with BDA / Land & Survey Dept and 10 longhouses nearby the site (State Land)	Land owners agreed to give the land	**Start date** 2021 **End date** 2022	
4.2.1.2 Site suitability study	1. Site Suitable and agreed by Land & Survey, District office, Council, longhouses community 2. EIA Reports 3. Application for submission to SPA for approval	**Start date** 2021 **End date** 2022	
4.2.2 SPA approval	SPA approval/memo from Land & survey	**Start date** 2022 **End date** 2022	
4.2.3 Land Acquisition (State Land)	230 ha acquired	**Start date**	
4.2.3.1 Submission of master plan and subdivision plan to SPA	SPA approved Master Plan/gazettement of land	2022	
4.2.3.2 Submission for approval of layout plan to SPA	SPA's approval of overall site Layout plan		
4.2.3.3 Presentation to SPA on the proposed development by project proponent	SPA's approval to client department & amount of money required for land acquisition by Land & Survey Department	**End date** 2023	
4.2.3.4 Issuance of land title to project owner/anchor farmers/farmers	Land title documents issue to project owner / proponent / farmers		

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	4. Swine industry development programme (cont'd)
Action step	:	4.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.2.4 Pre-Project Implementation		Start date	
4.2.4.1 Handing over site to project developer	Agreement documents signed	2022 End date 2023	
4.2.5 Project implementation	SPA approved Master Plan/gazettement of land	Start date	
4.2.5.1 Land preparation	Designated areas and plots cleared - estimated 230 ha	2023	
4.2.5.2 Construction of accessed and internal road	1 km main road and 4 km secondary road constructed	End date	Project owner / Private sector funding
4.2.5.3 Installation of utilities supplies / telecommunication facilities and other related infrastructures	Water retrelocation system, electricity supplies, internet, fax, telephone installed	2024	
4.2.5.4 Construction of animal sheds, wastewater ponds, feedmill, abattoir, sale house, workers' barracks, etc.	20 animal sheds -Breeder sheds, gilt shed, weaner sheds, porker sheds and finisher sheds, 3 wastewater treatment ponds, 1 feedmill, 1 abattoir, 1 sale house, 1 main office, 10 barracks for workers and other related infrastructures constructed	Start date 2023 End date 2026	Project owner / Private sector funding
4.2.5.5 Construction of facilities for meat processing, cool room, etc.	1 unit of meat processing plant and 2 cool rooms for pork and pork products	Start date 2024 End date 2025	Project owner / Private sector funding
4.2.5.6 Construction of Laboratory and Biosecurity facilities	1 unit of Laboratory and 5 km biosecurity fencing for diseases screening / control constructed	Start date 2024 End date 2025	Project owner / Private sector funding
4.2.5.7 Manpower / employment for pig production and related activities	1 veterinarians, 2 para-vet and 100 workers employed	Start date 2024	Project owner / Private sector funding
4.2.5.8 Pig Production activities - 2025 (3,000 sows) and 2030 (5,500 sows)	Porker production: 2025 (60,000 heads) and 2030 (121,000 heads) produced	End date 2030	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	4. Swine industry development programme (cont'd)
Action step	:	4.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.2.6 Project monitoring		Start date	
4.2.6.1 Monthly site meeting and progress report	Monthly progress reports	2023	
4.2.6.2 Proposed work schedule	Monthly plan of work	End date 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	EPU Sarawak, L&S, NREB, DOA, SEB, DID, JKR, JBALB, Local Authorities, PFA Operator, local farmers

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	4. Swine industry development programme
Action step	:	4.3

Action step (s)	Output (s)	Timeline	Resources required
4.3 Proposed extension to PFA Pasir Puteh, Simunjan		**Start date**	
4.3.1 Site identification and preliminaries	Proposed Site Identified	2021 **End date** 2021	
4.3.1.1 Dialogue with land owners (NCR Land)	NCR Land owners agreed to give the land	**Start date** 2021 **End date** 2022	
4.3.1.2 Site suitability study	1. Site Suitable and agreed by Land & Survey, District office, Council, longhouses community 2. EIA Reports 3. Application for submission to SPA for approval	**Start date** 2021 **End date** 2022	
4.3.2 SPA approval	SPA approval/memo from Land & survey	**Start date** 2022 **End date** 2022	
4.3.3 Land Acquisition (State Land)	200 ha acquired	**Start date**	
4.3.3.1 Land compensation	200 ha of land paid (no land disputes among owners)	2022	
4.3.3.2 Submission of master plan and subdivision plan to SPA	SPA approved Master Plan/gazettement of land		
4.3.3.3 Submission for approval of layout plan to SPA	SPA's approval of overall site Layout plan	**End date**	
4.3.3.4 Presentation to SPA on the proposed development by project proponent	SPA's approval to client department & amount of money required for land acquisition by Land & Survey Department	2023	
4.3.3.5 Issuance of land title to project owner/anchor farmers/farmers	Land title documents issue to project owner / proponent / farmers		

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	4. Swine industry development programme (cont'd)
Action step	:	4.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.3.4 Pre-Project Implementation		Start date	
4.3.4.1 Handing over site to project developer	Agreement documents signed	2022 End date 2023	
4.3.5 Project implementation	SPA approved Master Plan/gazettement of land	Start date	Project owner / Private sector funding
4.3.5.1 Land preparation	Designated areas and plots of 200 ha cleared	2023	
4.3.5.2 Construction of accessed and internal road	1 km main road and 4 km secondary road constructed	End date	
4.3.5.3 Installation of utilities supplies / telecommunication facilities and other related infrastructures	Water reticulation system, electricity supplies, internet, fax, telephone installed	2024	
4.3.5.4 Construction of animal sheds, wastewater ponds, feedmill, abattoir, sale house, workers' barracks, etc.	22 animal sheds -Breeder sheds, gilt shed, weaner sheds, porker sheds and finisher sheds, 3 wastewater treatment ponds, 1 feedmill, 1 abattoir, 1 sale house, 1 main office, 12 barracks for workers and other related infrastructures constructed	Start date 2023 End date 2026	Project owner / Private sector funding
4.3.5.5 Construction of facilities for meat processing, cool room, etc.	1 unit of meat processing plant and 2 cool rooms for pork and pork products	Start date 2024 End date 2025	Project owner / Private sector funding
4.3.5.6 Construction of Laboratory and Biosecurity facilities	1 unit of Laboratory and 4 km biosecurity fencing for diseases screening / control constructed	Start date 2024 End date 2025	Project owner / Private sector funding
4.3.5.7 Manpower / employment for pig production and related activities	2 veterinarians, 4 para-vet and 120 workers employed by 2030	Start date 2024	Project owner / Private sector funding
4.3.5.8 Pig Production activities - 2025 (4,000 sows) amd 2030 (8,000 sows)	Porker production: 2025 (80,000 heads) and 2030 (176,000 heads) produced	End date 2030	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	4. Swine industry development programme (cont'd)
Action step	:	4.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.3.6 Project monitoring		Start date	
4.3.6.1 Monthly site meeting and progress report	Monthly progress reports	2023	
4.3.6.2 Proposed work schedule	Monthly plan of work	End date 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DVS	EPU Sarawak, L&S, NREB, DOA, SEB, DID, JKR, JBALB, Local Authorities, PFA Operator, local farmers

AIP Level 1 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Strategy	:	1. Shift from subsistence farming to modern and high yielding commercial scale agriculture & food manufacturing 2. In the mid/long term, aim to attract global partnership and access to international markets 3. Enhance sustainable and double agro-based community's income
Initiative	:	5. Refinery and Oleochemical Plant development programme

Initiative	Desired Outcome (s)
5. Refinery and Oleochemical Plant development programme	**Economic Prosperity** ● 28,000 indigenous families receive monthly income above PLI level ● 30 ha. site established for investors to set up Oleochemical Plant ● RM315 mil of private and RM50.1 mil of public investment ● RM365 mil worth of investment awarded to local contractors that provides job opportunities ● 450,000 MT per year from refinery plant and 100,000 MT per year from Oleochemical plant production of high value added products (derivatives such as surfactants, glycerine and emulsifiers, olein, methyl ester, fatty acid cuts, fatty alcohol cuts and glycerin, etc.) for local and global markets ● RM1.7 bil revenue generated annually ● 155 skilled and semi-skilled jobs created **Social Inclusivity** ● 28,000 indigenous families who are active oil palm farmers benefited from guaranteed market and steady price. **Environment Sustainability** ● 100% GMP and certified oleochemical ingredients. ● 100% compliance to physical Certified Sustainable Palm Oil, MSPO and RSPO standards ● 5% increase in absorption rate of CO_2

Timeline		Resources Required
Start Date	End Date	
2021	2025	RM50.10 mil (cost of land premium and alienation, site preparation)

Project Owner	Implementing Agency	Other Stakeholders
SALCRA	SALCRA	MANRED, BDA, SFS, SAG, private investors

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	5. Refinery and Oleochemical Plant development programme
Action step	:	Refinery and Oleochemical Plant development programme

Action step (s)	Output (s)	Timeline	Resources required
5.1.1 Enhancement of current policies, regulations, investment incentives, (for ease of doing business)	Proposal to MINTRED	**Start date** 2021 **End date** 2022	Funding, manpower, data
5.1.2 Pre-Implementation / Project Kick-off (feasibility study, business arrangement	MoU with potential investor Feasibility report Formation of JV company	**Start date** 2022 **End date** 2023	
5.1.3 Land acquisition	Approval of land (30.17 HA) for development Issuance of Title to SALCRA	**Start date** 2022 **End date** 2023	
5.1.4 Project preparation (Engineering design, authorities approval and tender process)	Appointment of engineering consultant Completion of engineering design Obtain authorities approval Contract award	**Start date** 2023 **End date** 2024	
5.1.5 Project implementation	Completion of Refinery and Oleochemical Plant construction	**Start date** 2024 **End date** 2026	
5.1.6 Project completion	Issuance of Certificate of Practical Completion (CPC) and Taking Over Test (ToT)	**Start date** 2026 **End date** 2026	

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	5. Refinery and Oleochemical Plant development programme
Action step	:	Refinery and Oleochemical Plant development programme

Action step (s)	Output (s)	Timeline	Resources required
5.1.7 Post implementation (RBD Palm Olein 360,000 MT/year, RBD Palm Stearin 90,000 MT/year, Biodiesel 100,000 MT/year, Glycerin 5,000 MT/year)	Value added products to be marketed Evaluation report	**Start date** 2023 **End date** 2030	Funding, manpower, data

Project Owner	Implementing Agency	Other Stakeholders
SALCRA	SALCRA	MINTRED, private investor, NREB, MPOB, DOE, DOSH and BDA

AIP Level 1 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Strategy	:	1. Shift from subsistence farming to modern and high yielding commercial scale agriculture & food manufacturing 2. In the mid/long term, aim to attract global partnership and access to international markets 3. Enhance sustainable and double agro-based community's income
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme

Initiative	Desired Outcome (s)
6. Agrofood processing, marketing and trading facilities development programme	**Economic Prosperity** ● 50% of poor household families among Farmers Institution (FI) members receive monthly income above PLI level. ● RM96.813 mil of public investment ● RM96.813 mil worth of investment awarded to local contractors that provides job opportunities. ● Three (3) Agro Food Terminal and One (1) Wholesale Market: ○ 280,800 kg per day of fruits and vegetables traded (30 large wholesalers at 6,000 kg / day) and 84 regular wholesalers at 1,200 kg / day) ○ RM1.965 mil transaction per day (average wholesale price of fruits and vegetables RM7 per kg) ○ 250 skilled and semi-skilled jobs created ● 5. Four (4) CPPC: ○ 100,000 MT / year worth RM750 mil / year of durian products (RM7,500 per MT). and 50,000 MT / year worth RM125 mil / year of other agro processed products export value by 2030 ○ 200 skilled and semi-skilled jobs created **Social Inclusivity** ● More than 170,000 members of FI in Sarawak benefited from these facilities through guaranteed market and steady price of fresh agricultural produces **Environment Sustainability** ● 100% GMP, HACCP and HALAL certified ● Increase 50% efficiency in usage of resources such as water and electricity

AIP Level 1 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Strategy	:	1. Shift from subsistence farming to modern and high yielding commercial scale agriculture & food manufacturing 2. In the mid/long term, aim to attract global partnership and access to international markets 3. Enhance sustainable and double agro-based community's income
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme (cont'd)

Timeline		Resources Required
Start Date	End Date	
2021	2025	**Agro Food Terminal** 1. Bebuling (RM19.1 mil) 2. Sg. Baji (RM16.9 mil) 3. Lachau (RM6.8 mil) 4. Lundu (RM8.2 mil) 5. Sebangan (RM8.5 mil) 6. SARTECH ((RM13.8 mil) **CPPCs** 1. Tarat (Phase 1: RM2.5 mil / Phase 2: RM3.2 mil) 2. Limbang (RM4.5 mil) 3. Lawas (RM4.0 mil) 4. Layar (Phase 1: RM0.5 mil / Phase 2: RM1.5 mil) **Wholesale Market** 1. Samarahan RM4.3 mil and Expansion Phase RM3 mil

Project Owner	Implementing Agency	Other Stakeholders
DOA	RECODA, JKR	Carus Sdn Bhd, Top Fruit, Pico Sdn Bhd, ATA Supplies, PPNS

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.1-6.1.3

Action step (s)	Output (s)	Timeline	Resources required
6.1.1 Setting up regulations **a) Drafting policy paper** **b) Submission and approval of MKNN paper**	a) Policy paper endorsed by SS, SFS and SAG for tabulated to the Cabinet b) Approved policy by the MMKN	**Start date** Jan 2022 **End date** Oct 2022	Manpower : DOA Officers
6.1.2 **a) Engagement with Farming community and community leaders** **b) Engagement with Private sector**	a) List of active farmers, list of crops planted and volume of production b) Listing of existing facilities and service c) Mutual agreement between relevant agencies, farming community and local community leaders d) List of potential operators/anchor company e) Proposals of business plan for f) Leasing agreement between DOA and operator/anchor company	**Start date** Jan 2018 **End date** Dec 2025	Manpower : DOA officers Funding : RM2.5 mil (OPEX)
6.1.3 Construction and Completion of Collection, Processing and Packaging Centre Limbang **a) Planning Stage** **b) Design Development Stage** **c) Contract Documentation and Preparation Stage** **d) Construction Stage**	a) 9 acres approved at Kubong Project scope/brief completed Approvals received a) Approvals received Detailed design/costing completed a) Tender prepared, advertised and awarded b) Construction of CPPC Project handed over to client	**Start date** May 2018 **End date** Jun 2021	Manpower : DOA officers Funding : RM5 mil Adequate utilities and connectivity

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	DOA, SAG, SS, SFS, community leaders, local farmers, L&S, NREB, SEB, DID, Anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.4 - 6.1.5

Action step (s)	Output (s)	Timeline	Resources required
6.1.4 Construction and Completion of Collection, Processing and Packaging Centre Layar **a) Planning Stage** **b) Design Development Stage** **c) Contract Documentation and Preparation Stage** **d) Construction Stage**	a) 2.8 acres at Stesen Pertanian Layar Project scope/brief completed Approvals received a) Approvals received Detailed design/costing completed a) Tender prepared, advertised and awarded b) Construction of CPPC Project handed over to client	**Start date** Feb 2020 **End date** Jun 2022	Manpower : DOA officers Funding : RM6 mil Adequate utilities and connectivity
6.1.5 Construction and Completion of Collection, Processing and Packaging Centre Lawas **a) Planning Stage** **b) Design Development Stage** **c) Contract Documentation and Preparation Stage** **d) Construction Stage**	a) 9 acres approved at Lawas Light Industrial Estate Project scope/brief completed Approvals received a) Approvals received Detailed design/costing completed a) Tender prepared, advertised and awarded b) Construction of CPPC Project handed over to client	**Start date** Jan 2022 **End date** Jun 2022	Manpower : DOA officers Funding : RM1.5 mil

Project Owner	Implementing Agency	Other Stakeholders
MANRED	JKR	DOA, L&S, NREB, SEB , DID, Anchor Company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.6 - 6.1.7

Action step (s)	Output (s)	Timeline	Resources required
6.1.6 Construction and Completion of Collection, Processing and Packaging Centre Long Lama, Miri **a) Planning Stage** **b) Design Development Stage** **c) Contract Documentation and Preparation Stage** **d) Construction Stage**	a) Project scope/brief completed Approvals received a) Approvals received Detailed design/costing completed a) Tender prepared, advertised and awarded b) Construction of CPPc Project handed over to client	**Start date** Jan 2022 **End date** Dec 2024	Manpower : DOA officers Funding : RM6 mil Adequate utilities and connectivity
6.1.7 Construction and Completion of Food Terminal Kapit **a) Planning Stage** **b) Design Development Stage** **c) Contract Documentation and Preparation Stage** **d) Construction Stage**	a) 3 acres approved at Kapit Light Industrial estate Project scope/brief completed Approvals received a) Approvals received Detailed design/costing completed a) Tender prepared, advertised and awarded b) Construction of CPPC Project handed over to client	**Start date** Jan 2022 **End date** Dec 2024	Manpower : DOA officers Funding : RM6 mil Adequate utilities and connectivity

Project Owner	Implementing Agency	Other Stakeholders
MANRED	JKR	DOA, L&S, NREB, SEB , DID, Anchor Company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.8 Construction and Completion of Food Terminal Lachau

Action step (s)	Output (s)	Timeline	Resources required
6.1.8.1 Planning Stage a) Preparation of project scope / brief b) Submission of siting application to Department of Land and Survey c) Approval by State Planning Authority (SPA) d) Appointment of implementing agency e) Site visit and report f) Topography survey and soil investigation g) Preliminary site layout and schematic design h) Preliminary costing i) Approval by client j) Approval by implementing agency k) Approval by State Building Design Committee (SBDC)	Completion of work of scope	**Start date** Jan 2021 **End date** Aug 2021	Manpower: DOA officers Funding: RM6 million Adequate utilities and connectivity
6.1.8.2 Design Development Stage a) Scope and specifications confirmation by client b) Scope and specifications endorsement by implementing agency c) Detailed design (Archi / C&S / M&E) d) Detailed costing e) Submission of detailed drawing for State Planning Authority (SPA) approval f) Building plan approval by authorities g) Approval by State Tender Board Committee (STBC)	Completion of work of scope	**Start date** Aug 2021 **End date** Nov 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	JKR	DOA, L&S, NREB, SEB, DID, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.8 Construction and Completion of Food Terminal Lachau

Action step (s)	Output (s)	Timeline	Resources required
6.1.8.3 Contract Documentation and Preparation Stage a) Preparation of tender/drawing documents b) Tender advertisement c) Tender evaluation and award	Completion of work of scope	**Start date** Dec 2021 **End date** Feb 2022	Manpower: DOA officers Funding: RM6 million Adequate utilities and connectivity
6.1.8.4 Construction Stage a) Construction b) Testing and Commissioning / CPC / Project Handing Over to client	Completion of work of scope	**Start date** Mac 2022 **End date** Dec 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	JKR	DOA, L&S, NREB, SEB, DID, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.9 Construction and Completion of Food Terminal Sebangan

Action step (s)	Output (s)	Timeline	Resources required
6.1.9.1 Planning Stage a) Preparation of project scope / brief b) Submission of siting application to Department of Land and Survey c) Approval by State Planning Authority (SPA) d) Appointment of implementing agency e) Site visit and report f) Topography survey and soil investigation g) Preliminary site layout and schematic design h) Preliminary costing i) Approval by client j) Approval by implementing agency k) Approval by State Building Design Committee (SBDC)	Completion of work of scope	**Start date** Jan 2021 **End date** Aug 2021	Manpower: DOA officers Funding: RM6 million Adequate utilities and connectivity
6.1.9.2 Design Development Stage a) Scope and specifications confirmation by client b) Scope and specifications endorsement by implementing agency c) Detailed design (Archi / C&S / M&E) d) Detailed costing e) Submission of detailed drawing for State Planning Authority (SPA) approval f) Building plan approval by authorities g) Approval by State Tender Board Committee (STBC)	Completion of work of scope	**Start date** Aug 2021 **End date** Nov 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	JKR	DOA, L&S, NREB, SEB, DID, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.9 Construction and Completion of Food Terminal Sebangan

Action step (s)	Output (s)	Timeline	Resources required
6.1.9.3 Contract Documentation and Preparation Stage a) Preparation of tender/drawing documents b) Tender advertisement c) Tender evaluation and award	Completion of work of scope	**Start date** Dec 2021 **End date** Feb 2022	Manpower: DOA officers Funding: RM6 million Adequate utilities and connectivity
6.1.9.4 Construction Stage a) Construction b) Testing and Commissioning / CPC / Project Handing Over to client	Completion of work of scope	**Start date** Mac 2022 **End date** Dec 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	JKR	DOA, L&S, NREB, SEB, DID, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.10 Construction and Completion of Food Terminal Lundu

Action step (s)	Output (s)	Timeline	Resources required
6.1.10.1 Planning Stage a) Preparation of project scope / brief b) Submission of siting application to Department of Land and Survey c) Approval by State Planning Authority (SPA) d) Appointment of implementing agency e) Site visit and report f) Topography survey and soil investigation g) Preliminary site layout and schematic design h) Preliminary costing i) Approval by client j) Approval by implementing agency k) Approval by State Building Design Committee (SBDC)	Completion of work of scope	**Start date** Jan 2021 **End date** Aug 2021	Manpower: DOA officers Funding: RM6 million Adequate utilities and connectivity
6.1.10.2 Design Development Stage a) Scope and specifications confirmation by client b) Scope and specifications endorsement by implementing agency c) Detailed design (Archi / C&S / M&E) d) Detailed costing e) Submission of detailed drawing for State Planning Authority (SPA) approval f) Building plan approval by authorities g) Approval by State Tender Board Committee (STBC)	Completion of work of scope	**Start date** Aug 2021 **End date** Nov 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	JKR	DOA, L&S, NREB, SEB, DID, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.10 Construction and Completion of Food Terminal Lundu

Action step (s)	Output (s)	Timeline	Resources required
6.1.10.3 Contract Documentation and Preparation Stage a) Preparation of tender/drawing documents b) Tender advertisement c) Tender evaluation and award	Completion of work of scope	**Start date** Dec 2021 **End date** Feb 2022	Manpower: DOA officers Funding: RM6 million Adequate utilities and connectivity
6.1.10.4 Construction Stage a) Construction b) Testing and Commissioning / CPC / Project Handing Over to client	Completion of work of scope	**Start date** Mac 2022 **End date** Dec 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	JKR	DOA, L&S, NREB, SEB, DID, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.11 Construction and Completion of Food Terminal Spaoh

Action step (s)	Output (s)	Timeline	Resources required
6.1.11.1 Planning Stage a) Preparation of project scope / brief b) Submission of siting application to Department of Land and Survey c) Approval by State Planning Authority (SPA) d) Appointment of implementing agency e) Site visit and report f) Topography survey and soil investigation g) Preliminary site layout and schematic design h) Preliminary costing i) Approval by client j) Approval by implementing agency k) Approval by State Building Design Committee (SBDC)	Completion of work of scope	**Start date** Jan 2021 **End date** Aug 2021	Manpower: DOA officers Funding: RM18 million (Federal/ RECODA) Adequate utilities and connectivity
6.1.11.2 Design Development Stage a) Scope and specifications confirmation by client b) Scope and specifications endorsement by implementing agency c) Detailed design (Archi / C&S / M&E) d) Detailed costing e) Submission of detailed drawing for State Planning Authority (SPA) approval f) Building plan approval by authorities g) Approval by State Tender Board Committee (STBC)	Completion of work of scope	**Start date** Aug 2021 **End date** Nov 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	RECODA	DOA, L&S, NREB, SEB, DID, JKR, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.11 Construction and Completion of Food Terminal Spaoh

Action step (s)	Output (s)	Timeline	Resources required
6.1.11.3 Contract Documentation and Preparation Stage a) Preparation of tender/drawing documents b) Tender advertisement c) Tender evaluation and award	Completion of work of scope	**Start date** Dec 2021 **End date** Feb 2022	Manpower: DOA officers Funding: RM18 million (Federal/ RECODA) Adequate utilities and connectivity
6.1.11.4 Construction Stage a) Construction b) Testing and Commissioning / CPC / Project Handing Over to client	Completion of work of scope	**Start date** Mac 2022 **End date** Dec 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	RECODA	DOA, L&S, NREB, SEB, DID, JKR, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.12 Construction and Completion of Food Terminal Sarikei

Action step (s)	Output (s)	Timeline	Resources required
6.1.12.1 Planning Stage a) Preparation of project scope / brief b) Submission of siting application to Department of Land and Survey c) Approval by State Planning Authority (SPA) d) Appointment of implementing agency e) Site visit and report f) Topography survey and soil investigation g) Preliminary site layout and schematic design h) Preliminary costing i) Approval by client j) Approval by implementing agency k) Approval by State Building Design Committee (SBDC)	Completion of work of scope	**Start date** Jan 2021 **End date** Aug 2021	Manpower: DOA officers Funding: RM18 million (Federal/ RECODA) Adequate utilities and connectivity
6.1.12.2 Design Development Stage a) Scope and specifications confirmation by client b) Scope and specifications endorsement by implementing agency c) Detailed design (Archi / C&S / M&E) d) Detailed costing e) Submission of detailed drawing for State Planning Authority (SPA) approval f) Building plan approval by authorities g) Approval by State Tender Board Committee (STBC)	Completion of work of scope	**Start date** Aug 2021 **End date** Nov 2021	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	RECODA	DOA, L&S, NREB, SEB, DID, JKR, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.12 Construction and Completion of Food Terminal Sarikei

Action step (s)	Output (s)	Timeline	Resources required
6.1.12.3 Contract Documentation and Preparation Stage a) Preparation of tender/drawing documents b) Tender advertisement c) Tender evaluation and award	Completion of work of scope	**Start date** Dec 2021 **End date** Feb 2022	Manpower: DOA officers Funding: RM18 million (Federal/ RECODA) Adequate utilities and connectivity
6.1.12.4 Construction Stage a) Construction b) Testing and Commissioning / CPC / Project Handing Over to client	Completion of work of scope	**Start date** Mac 2022 **End date** Dec 2023	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	RECODA	DOA, L&S, NREB, SEB, DID, JKR, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	6. Agrofood processing, marketing and trading facilities development programme
Action step	:	6.1.13 Operation and Management

Action step (s)	Output (s)	Timeline	Resources required
6.1.13 Operation and Management a) Appointment of implementing agency b) Advisory services to farmers on myGap certification c) Advisory services to operator / anchor company for GMP and HACCP certification d) Promotional activities e) Purchasing of agricultural produces from the farmers f) Monitoring and evaluation for enhancement of the program g) Building operation and management by operator / anchor company h) Utilities and maintenance by operator / anchor company i) Processing of downstream (CPPC) j) Distribution of produces (Food Terminal)	a) SLDB appointed as implementing agency b) 10 farms to obtain myGAP certification for international market access (currently 210 farms are myGAP certified since 2005) c) To achieve GMP and HACCP certification for international market access d) Local products exposure to domestic and international market through collaboration with other agencies such as MIDA, STATOS e) Volume and value of purchase, list of farmers selling their produce, incorporate with the nearby Precision Farming and Agroparks f) Monthly monitoring and evaluation reports g) Compliance to standard operating procedure for GMP and HACCP certification h) Well maintained government assets and facilities i) Production of paste, jams, juice, etc. j) Sales volume of produces	**Start date** Jan 2022 **End date** Dec 2025	Manpower : Certified myGap auditors from DOA, Agrofood Division, anchor company Funding : RM6.3 million

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA	MOH, MIDA, STATOS, anchor company, local farmers

AIP Level 1 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Strategy	:	1. Shift from subsistence farming to modern and high yielding commercial scale agriculture & food manufacturing 2. In the mid/long term, aim to attract global partnership and access to international markets 3. Enhance sustainable and double agro-based community's income
Initiative	:	7. Sarawak Agrotechnology Park development

Initiative	Desired Outcome (s)
7. Sarawak Agrotechnology Park (SARTECH) development	**Economic Prosperity** ● 50% of poor household families among FI members receive monthly income above PLI level ● RM262 mil of public investment and RM240 mil of private investment ● RM262 mil worth of investment awarded to local contractors that provides job opportunities ● 100 New IPs and commercialisation worth RM50 mil through R&D&I by 2030 ● 21,600 MT / year worth RM21.6 mil / year of high-quality agriculture produces by 2030 (50 modern production plots at 5 ha / plot) ● RM5 mil / year worth of livestock taded through Livestock Auction Centre by 2030 ● RM50 mil / year of agricultural produces and products traded through agriculture promotional events ● 100 agro entrepreneurs and start-ups produce by 2030 ● 500 skilled and semi-skilled jobs created **Social Inclusivity** ● More than 170,000 members of Farmers Institution in Sarawak benefited from these facilities through guaranteed market and steady price of fresh agricultural produces, and from improved food safety through quality control laboratory and biosecurity and quarantine facilities **Environment Sustainability** ● 100% GMP, HACCP and HALAL, GHM, GHP certified ● Increase 50% efficiency in usage of resources such as water and electricity

Timeline		Resources Required
Start Date	End Date	
2021	2030	Total: RM500 mil RM12 mil (12MP) RM250 mil (proposed under alternate funding)

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SLDB	DOA, DVS, SFS, SAG, SMA, private sector

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	7. Sarawak Agrotechnology Park development
Action step	:	7.1 - 7.2

Action step (s)	Output (s)	Timeline	Resources required
7.1 Pre-implementation / project kick-off		**Start date**	Total funding required (7.1 - 7.3): RM500 mil
1. Develop policy, guideline and investment incentives 2. Identify, propose and approval of the site 3. Identify and engage potential private investor. 4. Concept and business model study	1. Policy, guideline and incentive document 2. Approved site for the project 3. Approval of achor company and investor 4. Business plan for SARTECH	2021 **End date** 2022	
7.1.1 Appointment of SPV (SLDB)		**Start date**	
1. SLDB appoint consultant for the masterplan development 2. Design, submission and approval by SPA for masterplan 3. Engagement with the existing tenants 4. Land status verification with L&S 5. Land Alienation to SLDB	1. Master layout plan (Semenggok and Tarat) 2. Engagement report 3. Approval of land alienation and issuance of title to SLDB (Semeggok - 373Ha and Tarat - 86Ha)	2021 **End date** 2022	
7.2 Project implementation		**Start date**	
7.2.1 Infrastructure		2021 **End date** 2022	
1. Appointment of the consultant 2. Engineering design (C&S, M&E, EIA, SI, etc.) 3. Authorities approval (SPA & SBDC) 4. Tender/Award project 5. Construction & completion of essential infrastructure 6. Project Handover from the contractor to SLDB	1. Completion of the basic infrastructure (roads, drainages, earthwork, water and power supply, telco tower, etc.) 2. Completion of commercial production plots (55 plots at 5Ha per plot)		

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	7. Sarawak Agrotechnology Park development (cont'd)
Action step	:	7.2 - 7.3

Action step (s)	Output (s)	Timeline	Resources required
7.2.2 Building components		**Start date**	Total funding required (7.1 - 7.3): RM500 mil
1. Appointment of the consultant 2. Engineering design (Arc., C&S, M&E, EIA, SI, etc.) 3. Authorities approval (SPA & SBDC) 4. Tender/Award project 5. Construction and completion of essential infrastructure 6. Project Handover from the contractor to SLDB	1. Completion of other SARTECH components (exhibition centre, biosecurity & quarantine, research centre, agriculture institute, department of veterinary services, incubator centre, biotech centre, aquaria, livestock auction, inland fisheries, etc.) 2. Handing over of completed SARTECH project to SLDB to manage & operate	2024 **End date** 2028	
7.3 Post implementation		**Start date**	
1. Promoting SARTECH 2. Evaluate potential investors' proposal, approve and issue permit to operate 3. Monitoring investors performance 4. Continuous improvement - policy, guidelines and incentives	1. Website and social media channel 2. Performance report: a. 55 lots taken by investors for smart farming projects. b. Increase of smart farming technologies adoption by local farmers. c. Producing graduates specialising in smart farming. d. Enhance research & development in smart farming technology e. Auction sale f. Fisheries & aquaria 3. Report (annual)	2025 **End date** 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	SLDB	L&S, SPA, SBDC, Bomba, Local Council, DID, NREB, SEB, DOA, DVS, private investor, SLDB subsidiaries

AIP Level 1 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Strategy	:	1. Shift from subsistence farming to modern and high yielding commercial scale agriculture & food processing 2. Improve access to land and upgrade supply chain infrastructure to enhance efficiency & competitiveness 3. In the short term, leverage on existing local anchor companies and increase farmer productivity 4. Enhance sustainability and increase agro-based community's income
Initiative	:	8. Paddy and rice industry development programmes

Initiative	Desired Outcome (s)
8. Paddy and rice industry development programmes	**Economic Prosperity** ● 90% of poor households receive monthly income above PLI level ● 50 trained skilled farmers with monthly income above RM6,000 ● Paddy production increased from 189,660 MT to 266,949 metric tonne by 2030 and yield from 3.0 MT / ha / season to 5.0 MT / ha / season in order to achieve 60% of rice SSL ● RM276.6 mil / year revenue generated and 150 job created by 2030 **Social Inclusivity** ● 90% of paddy and rice industry development programme's participants comprised of poor rural households **Environment Sustainability** ● 80% application of GAP (e.g. MyGAP), ● Efficient utilisation of land and water resources ● 5% increase in absorption rate of CO_2

Timeline		Resources Required
Start Date	End Date	
2021	2030	RM378.56 mil (2021-2025), RM332.45 mil (2026-2030) Assets: DID scheme areas, Batang Lupar Granary area, new areas for paddy double-cropping

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SLDB	MIPD, MOU, MINTRED, DID, IADA, BERNAS, L&S, R&DO, JBALB, SEB, PBT, anchor companies, private investors

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	8. Paddy and rice industry development programmes
Action step	:	8.1 Establishing State Policy on Paddy and Rice Industry in Sarawak

Action step (s)	Output (s)	Timeline	Resources required
8.1.1 Policy research	Identified suitable incentives and business model for Sarawak	Start date 2021 End date 2021	
8.1.2 Policy formulation (i.e. engagement, policy drafting)	Completion of policy paper and presented to miniter	Start date 2022 End date 2022	
8.1.3 Policy endorsement and approval	Approval by MMKN or cabinet on Sarawak's development policy and incentives for paddy and rice industry	Start date 2022 End date 2022	
8.1.4 Policy communication and implementation	Engagement with landowners	Start date 2022 End date 2022	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	MANRED	DOA, DID, L&S, IADA BL, and owners, paddy farmers and private company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	8. Paddy and rice industry development programmes
Action step	:	8.2 Development of Seed Farm, Stumbin, Sri Aman

Action step (s)	Output (s)	Timeline	Resources required
8.2.1 Planning and design (i.e. site selection, design, proposal, tender and appointment of contractor)	181 ha of seed farm complete with tertiary irrigation and facilities Planted area 120 ha Yield 3 mt per ha Seed production 360 mt	Start date 2021 End date 2022	RM 6.5 mil
8.2.2 Implementation stage (i.e.construction of Primary, secondary, and tertiary Irrigation)		Start date 2022 End date 2023	
8.2.3 Post implementation stage (i.e. commissioning, liability check)		Start date 2024 End date 2025	
8.2.4 Pre-production stage (i.e. seed preparation and site inspection)		Start date 2024 End date 2024	
8.2.5 Production stage (i.e. land preparation, crop management, harvesting)		Start date 2025 End date 2025	
8.2.6 Post harvest handling (i.e. processing of raw seed)		Start date 2025 End date 2025	
8.2.7 Distribution of certified seed (i.e. packaging & distribution to various paddy area)		Start date 2025 Start date 2025	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA / DID	-

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	8. Paddy and rice industry development programmes
Action step	:	8.3 Upgrading of Rice Mill to Seed Processing Plant, Stumbin

Action step (s)	Output (s)	Timeline	Resources required
8.3.1 Planning and design (i.e. site selection, design, proposal, tender and appointment of contractor)	Upgraded rice mill and seed processing plant	**Start date** 2022 **End date** 2022	RM4 mil
8.3.2 Implementation stage (i.e.construction of Primary, secondary, and tertiary Irrigation)		**Start date** 2022 **End date** 2023	
8.3.3 Post implementation stage (i.e. commissioning, testing, liability check)		**Start date** 2024 **End date** 2025	
8.3.4 Appointment of contractor / operator		**Start date** 2024 **End date** 2024	
8.1.5 Operation		**Start date** 2025 **End date** 2025	

Project Owner	Implementing Agency	Other Stakeholders
DOA	JKR / DOA	MANRED, private seed producer

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	8. Paddy and rice industry development programmes
Action step	:	8.4 Development of Seed Test Laboratory, Stumbin

Action step (s)	Output (s)	Timeline	Resources required
8.4.1 Planning and design (i.e. site selection, design, proposal, tender and appointment of contractor)	Quality paddy seeds	**Start date**	RM100,000
		2022	
		End date	
		2022	
8.4.2 Implementation stage (i.e. supply, delivery, installation and testing)		**Start date**	
		2022	
		End date	
		2022	
8.4.3 Post implementation stage (i.e. monitoring, evaluation, payment)		**Start date**	
		2022	
		End date	
		2022	
8.4.4 Operation (i.e. seed sampling and testing)		**Start date**	
		2025	
		End date	
		2026	

Project Owner	Implementing Agency	Other Stakeholders
DOA	DOA	SFS and EPU Sarawak

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	8. Paddy and rice industry development programmes
Action step	:	8.5 Development of Paddy Production Project at Lubok Nibong, Saratok (Local Variety - Bajong)

Action step (s)	Output (s)	Timeline	Resources required
8.5.1 Planning and design (i.e. site selection, design, proposal, tender and appointment of contractor)	190 ha complete with tertiary irrigation and facilities Planted area 190 ha Yield 3 mt per ha Seed production 570 mt	Start date 2021 End date 2022	RM11.4 mil
8.5.2 Implementation stage (i.e. construction of Primary, secondary, and tertiary Irrigation)		Start date 2022 End date 2023	
8.5.3 Post implementation stage (i.e. commissioning, liability check)		Start date 2024 End date 2025	
8.5.4 Pre-production stage (i.e. seed preparation and site inspection)		Start date 2024 End date 2024	
8.5.5 Production stage (i.e. land preparation, crop management, harvesting)		Start date 2025 End date 2025	
8.5.6 Post harvest handling (i.e. processing and packaging)		Start date 2025 End date 2025	

Project Owner	Implementing Agency	Other Stakeholders
DOA	DOA	SFS, EPU Sarawak, MANRED, L&S, land owner, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	8. Paddy and rice industry development programmes
Action step	:	8.6 Development of Paddy Production Project at Kpg. Pueh, Sematan

Action step (s)	Output (s)	Timeline	Resources required
8.6.1 Planning and design (i.e. site selection, design, proposal, tender and appointment of contractor)	61 ha complete with tertiary irrigation and facilities Planted area 61 ha Yield 4 mt per ha Seed production 488 mt	Start date 2021 End date 2022	RM2.36 mil
8.6.2 Implementation stage (i.e. construction of Primary, secondary, and tertiary Irrigation)		Start date 2022 End date 2023	
8.6.3 Post implementation stage (i.e. commissioning, liability check)		Start date 2024 End date 2025	
8.6.4 Pre-production stage (i.e. seed preparation and site inspection)		Start date 2024 End date 2024	
8.6.5 Production stage (i.e. land preparation, crop management, harvesting)		Start date 2025 End date 2025	
8.6.6 Post harvest handling (i.e. processing and packaging)		Start date 2025 End date 2025	

Project Owner	Implementing Agency	Other Stakeholders
DOA	DOA / DID	SFS, EPU Sarawak, MANRED, L&S, land owner, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	8. Paddy and rice industry development programmes
Action step	:	8.7 Development of Paddy Production Project at Paya Payang, Serian

Action step (s)	Output (s)	Timeline	Resources required
8.7.1 Planning and design (i.e. site selection, design, proposal, tender and appointment of contractor)	72 ha complete with tertiary irrigation and facilities Planted area 72 ha Yield 4 mt per ha Seed production 576 mt	Start date 2021 End date 2022	RM4.3 mil
8.7.2 Implementation stage (i.e. construction of primary, secondary, and tertiary Irrigation)		Start date 2022 End date 2023	
8.7.3 Post implementation stage (i.e. commissioning, liability check)		Start date 2024 End date 2025	
8.7.4 Pre-production stage (i.e. seed preparation and site inspection)		Start date 2024 End date 2024	
8.7.5 Production stage (i.e. land preparation, crop management, harvesting)		Start date 2025 End date 2025	
8.7.6 Post harvest handling (i.e. processing and packaging)		Start date 2025 End date 2025	

Project Owner	Implementing Agency	Other Stakeholders
DOA	DOA	SFS, EPU Sarawak, MANRED, L&S, land owner, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	8. Paddy and rice industry development programmes
Action step	:	8.8 Development of Paddy Production Project at Paya Mending, Serian

Action step (s)	Output (s)	Timeline	Resources required
8.8.1 Planning and design (i.e. site selection, design, proposal, tender and appointment of contractor)	100 ha complete with tertiary irrigation and facilities Planted area 100 ha Yield 4 mt per ha Seed production 800 mt	Start date 2021 End date 2022	RM6 mil
8.8.2 Implementation stage (i.e. construction of Primary, secondary, and tertiary Irrigation)		Start date 2022 End date 2023	
8.8.3 Post implementation stage (i.e. commissioning, liability check)		Start date 2024 End date 2025	
8.8.4 Pre-production stage (i.e. seed preparation and site inspection)		Start date 2024 End date 2024	
8.8.5 Production stage (i.e. land preparation, crop management, harvesting)		Start date 2025 End date 2025	
8.8.6 Post harvest handling (i.e. processing and packaging)		Start date 2025 End date 2025	

Project Owner	Implementing Agency	Other Stakeholders
DOA	DOA / DID	SFS, EPU Sarawak, MANRED, L&S, land owner, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	8. Paddy and rice industry development programmes
Action step	:	8.9 New Development of Paddy Production Project at Abok - Selepong, Sri Aman

Action step (s)	Output (s)	Timeline	Resources required
8.9.1 Planning and design (i.e. site selection, design, proposal, tender and appointment of contractor)	200 ha complete with tertiary irrigation and facilities Planted area 200 ha Yield 4 mt per ha Seed production 1,600 mt	Start date 2021 End date 2022	RM14 mil
8.9.2 Implementation stage (i.e. construction of Primary, secondary, and tertiary Irrigation)		Start date 2022 End date 2023	
8.9.3 Post implementation stage (i.e. commissioning, liability check)		Start date 2024 End date 2025	
8.9.4 Pre-production stage (i.e. seed preparation and site inspection)		Start date 2024 End date 2024	
8.9.5 Production stage (i.e. land preparation, crop management, harvesting)		Start date 2025 End date 2025	
8.9.6 Post harvest handling (i.e. processing and packaging)		Start date 2025 End date 2025	

Project Owner	Implementing Agency	Other Stakeholders
DOA	DOA / DID	SFS, EPU Sarawak, MANRED, L&S, land owner, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	8. Paddy and rice industry development programmes
Action step	:	8.10 Monitoring and Coordinate The Construction of Upgrading of Tertiary Infrastructure at Block A and Block B, Stumbin, Sri Aman

Action step (s)	Output (s)	Timeline	Resources required
8.10.1 Planning and design (i.e. site selection, design, proposal, tender and appointment of contractor)	400 ha complete with tertiary irrigation and facilities Planted area 400 ha Yield 4 mt per ha Seed production 3,200 mt	Start date 2021 End date 2022	RM20 mil
8.10.2 Implementation stage (i.e. construction of Primary, secondary, and tertiary Irrigation)		Start date 2022 End date 2023	
8.10.3 Post implementation stage (i.e. commissioning, liability check)		Start date 2024 End date 2025	
8.10.4 Pre-production stage (i.e. seed preparation and site inspection)		Start date 2025 End date 2026	
8.10.5 Production stage (i.e. land preparation, crop management, harvesting)		Start date 2026 End date 2027	
8.10.6 Post harvest handling (i.e. processing and packaging)		Start date 2026 End date 2027	

Project Owner	Implementing Agency	Other Stakeholders
BPSP, MAFI	IADA Batang Lupar	Land owner, anchor company

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	8. Paddy and rice industry development programmes
Action step	:	8.11 Paddy Development Project at Tanjung Purun, Lundu

Action step (s)	Output (s)	Timeline	Resources required
8.11.1 Planning and design (i.e. site selection, design, proposal, tender and appointment of contractor)	140 ha complete with tertiary irrigation and facilities Planted area 140 ha Yield 4 mt per ha Seed production 1,120 mt	Start date 2022 End date 2022	RM2.8 mil
8.11.2 Implementation stage (i.e. construction of Primary, secondary, and tertiary Irrigation)		Start date 2022 End date 2024	
8.11.3 Post implementation stage (i.e. commissioning, liability check)		Start date 2024 End date 2026	
8.11.4 Pre-production stage (i.e. seed preparation and site inspection)		Start date 2023 End date 2024	
8.11.5 Production stage (i.e. land preparation, crop management, harvesting)		Start date 2023 End date 2025	
8.11.6 Post harvest handling (i.e. processing and packaging)		Start date 2024 End date 2025	

Project Owner	Implementing Agency	Other Stakeholders
DOA	DOA / DID	SFS / EPU Sarawak / MANRED / L&S / 205 Land Owner / Anchor Company (PPK Sri Gading, Ceria & Antares)

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	8. Paddy and rice industry development programmes
Action step	:	8.12 New Paddy Production Development Project at Mujat, Serian

Action step (s)	Output (s)	Timeline	Resources required
8.12.1 Planning and design (i.e. site selection, design, proposal, tender and appointment of contractor)	100 ha complete with tertiary irrigation and facilities Planted area 100 ha Yield 4 mt per ha Seed production 800 mt	Start date 2022 End date 2022	RM12 mil
8.12.2 Implementation stage (i.e. construction of Primary, secondary, and tertiary Irrigation)		Start date 2022 End date 2024	
8.12.3 Post implementation stage (i.e. commissioning, liability check)		Start date 2024 End date 2026	
8.12.4 Pre-production stage (i.e. seed preparation and site inspection)		Start date 2024 End date 2025	
8.12.5 Production stage (i.e. land preparation, crop management, harvesting)		Start date 2025 End date 2026	
8.12.6 Post harvest handling (i.e. processing and packaging)		Start date 2025 End date 2026	

Project Owner	Implementing Agency	Other Stakeholders
DOA	DOA / DID	SFS / EPU Sarawak / MANRED / L&S / 205 Land Owner / Anchor Company (PPK Sri Gading, Ceria & Antares)

AIP Level 1 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Strategy	:	1. Shift from subsistence farming to modern and high yielding commercial scale agriculture & food processing 2. Unlocking and optimise utilisation of land and strengthen supply chain infrastructure to enhance efficiency & competitiveness 3. In the short term, leverage on existing local anchor companies and increase farmer productivity 4. Enhance sustainability and increase agro-based community's income
Initiative	:	9. Fisheries industry development programme

Initiative	Desired Outcome (s)
9. Fisheries industry development programme	**Economic Prosperity** ● 80% of poor households receive monthly income above PLI level ● RM285.77 mil of public investment and RM128.32 bil of private investment ● RM285.77 mil worth of investment awarded to local contractors that provides job opportunities ● RM2 bil / year revenue generated and 1,100 job created by 2030 ● RM582 mil / year of export value by 2030 ● Creation of RM136 mil multiplier effect through direct and indirect value supply chain development and operationalisation **Social Inclusivity** ● 80% of fisheries industry development programme's participants comprised of poor rural households **Environment Sustainability** ● 80% application of GAP (e.g. MyGAP), ● Efficient utilisation of land and water resources ● 5% increase in absorption rate of CO_2

Timeline		Resources Required
Start Date	End Date	
2021	2025	Total: RM285.77 mil RM45 mil (under 12MP) 2229.55 ha of area (Land-based and Water-bodies) Infrastructure and logistics (jetty and landing facilities collection / storage centre)

Project Owner	Implementing Agency	Other Stakeholders
MANRED	DOA, SLDB, LCDA	MIPD, MOU, MINTRED, DID, L&S, SMA, R&DO, JBALB, SEB, PBT, anchor companies, private investors

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	9. Fisheries industry development programme
Action step	:	9.1 Development of Aquaculture Industrial Zone at Batang Ai

Action step (s)	Output (s)	Timeline	Resources required
9.1.1 Policy on gazettement of aquaculture industrial zone	Feasibility study MMKN paper and approval Gazettement of aquaculture area	Start date 2021 End date 2021	
9.1.2 Management model - public private community development model	Licensed agreement from SAG Authority letter from ministry Signing of agreement with anchor company	Start date 2022 End date 2022	
9.1.3 Development planning (project proposal and budgeting, stakeholder engagement, approval by implementing agency)	Readiness and approval of building design and planning Approval from MAFI and implementing agency	Start date 2022 End date 2022	
9.1.4 Contract documentation and preparation	Tender evaluation report, recommendation and approval	Start date 2022 End date 2022	
9.1.5 Construction and completion (inclusive rectification if any)	Project handed over to client	Start date 2022 End date 2023	
9.1.6 Implementation of aquaculture project (i.e. supply of input, training, monitoring, etc.)	Issuance of licensed by DOA Harvesting (volume)	Start date 2023 End date 2030	
9.1.7 Production and marketing (engagement between anchor company and participant, marketing by anchor company)	MOU between participant and anchor company Selling of product to market	Start date 2023 End date 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED / DOA	JKR / DOA	MAFI, NREB, DOA, SEB, JKR, local farmers and entrepreneurs

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	9. Fisheries industry development programme
Action step	:	9.2 Development of Aquaculture Industrial Zone at Rambungan

Action step (s)	Output (s)	Timeline	Resources required
9.1.1 Policy on gazettement of aquaculture industrial zone and Land acquisition	Feasibility study MMKN paper and approval Gazettement of aquaculture area Land acquired	Start date 2021 End date 2023	RM 20 mil from MAFI for 12MP
9.1.2 Management model - public private community development model	Licensed agreement from SAG Authority letter from ministry Signing of agreement with anchor company	Start date 2023 End date 2023	
9.1.3 EIA and Development planning (project proposal and budgeting, stakeholder engagement, approval by implementing agency)	EIA approval Readiness and approval of building design and planning Approval from MAFI and implementing agency	Start date 2024 End date 2024	
9.1.4 Contract documentation and preparation	Tender evaluation report, recommendation and approval	Start date 2024 End date 2024	
9.1.5 Construction and completion (inclusive rectification if any)	Project handed over to client	Start date 2024 End date 2025	
9.1.6 Implementation of aquaculture project (i.e. supply of input, training, monitoring, etc.)	Issuance of licensed by DOA Harvesting (volume)	Start date 2026 End date 2030	
9.1.7 Production and marketing (engagement between anchor company and participant, marketing by anchor company)	MOU between participant and anchor company Selling of product to market	Start date 2026 End date 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED / DOA	L&S / PPNS	MAFI, NREB, DOA, SEB, JKR, local farmers and entrepreneurs

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	9. Fisheries industry development programme
Action step	:	9.3 Development of Aquaculture Industrial Zone at Bakun

Action step (s)	Output (s)	Timeline	Resources required
9.1.1 Policy on gazettement of aquaculture industrial zone	Feasibility study MMKN paper and approval Gazettement of aquaculture area	Start date 2022 End date 2022	
9.1.2 Management model - public private community development model	Licensed agreement from SAG Authority letter from ministry Signing of agreement with anchor company	Start date 2023 End date 2023	
9.1.3 Development planning (project proposal and budgeting, stakeholder engagement, approval by implementing agency)	Readiness and approval of building design and planning Approval from MAFI and implementing agency	Start date 2023 End date 2024	
9.1.4 Contract documentation and preparation	Tender evaluation report, recommendation and approval	Start date 2024 End date 2024	
9.1.5 Construction and completion (inclusive rectification if any)	Project handed over to client	Start date 2024 End date 2024	
9.1.6 Implementation of aquaculture project (i.e. supply of input, training, monitoring, etc.)	Issuance of licensed by DOA Harvesting (volume)	Start date 2024 End date 2030	
9.1.7 Production and marketing (engagement between anchor company and participant, marketing by anchor company)	MOU between participant and anchor company Selling of product to market	Start date 2024 End date 2030	

Project Owner	Implementing Agency	Other Stakeholders
MANRED / DOA	JKR / DOA	MAFI, NREB, DOA, SEB, JKR, local farmers and entrepreneurs

AIP Level 2 - Commercial agriculture and agro-commodities sector

Sector	:	Commercial agriculture and agro-commodities
Initiative	:	9. Fisheries industry development programme
Action step	:	9.4 Development of Aquaculture Park Loba Stoh

Action step (s)	Output (s)	Timeline	Resources required
9.1.1 Development planning	Site analysis report Feasibility report	**Start date** 2022 **End date** 2022	RM28 million (yet to be approved under Alternative Funding)
9.1.2 Development phase	EIA / EMR report approval by NREB Appointment of consultant	**Start date** 2023 **End date** 2023	
9.1.3 Contract documentation and preparation	Tender evaluation report, recommendation and approval	**Start date** 2023 **End date** 2024	
9.1.4 Construction and completion (inclusive rectification if any)	Project handed over to client	**Start date** 2024 **End date** 2024	
9.1.5 Completion and commencement of operation	Harvesting (volume) Physical and financial report	**Start date** 2024 **End date** 2024	

Project Owner	Implementing Agency	Other Stakeholders
MANRED	LCDA	NREB, DOA, SEB, JKR, local farmers and entrepreneurs

1.3 Tourism

Aspiration for Tourism Sector

Tourism is a key sector in driving Sarawak's visibility and branding around the world. The sector has been severely affected by the COVID-19 pandemic. Hence, there is a need to sustain Sarawak's visibility on this front with key initiatives.

These initiatives should develop both the required infrastructure, connectivity and supporting programmes that encourage visits by business and leisure consumers.

Increasing domestic visitor arrivals as well as upskilling and capacity-building of the tourism industry players (including rural communities) is the focus. This encompasses strategies that develop tourism products and assets, increase connectivity and promote Sarawak as preferred tourism destination.

Figure 1.3.1: Aspiration framework for tourism sector

Aspiration	**By 2030, Sarawak will be a leading destination for eco-tourism and business events in ASEAN Region driven by empowered communities to conserve heritage, culture and biodiversity and to promote investment and development through responsible actions**			
Key outcomes	**11% to GDP contribution** **7.5% annual growth in visitor arrivals**	**25% Tourism employment** **50 increase homegrown business events**	**10% increase handicraft sale** **20% increase in community-based tourism**	
Strategies	**Enhance travel to and within Sarawak**	**Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets**	**To position Sarawak as a leading and preferred ecotourism destination driven by empowered communities and responsible action**	**Improve capacity and capability of human capital**
	Increase accessibility and connectivity of Sarawak	**Develop ecotourism attractions within Sarawak's rich natural environment**	**Develop signature events, festivals and business events unique to Sarawak**	**Develop signature museum and cultural products**
Catalytic initiatives	**Enhancing Sarawak online presence through the improvement and designated focal points of tourism products**	**Establishing trade and tourism office to gather insights and implement operational marketing and branding campaigns**	**Provide training to tourism workforce and local communities**	**Build capabilities in digitalisation of tourism services**
Key impacts	**Infrastructure**	**Stakeholder engagement**	**Regulatory framework**	**Innovative environment**	**Human capital**

Figure 1.3.2: Summary of desired outcomes for tourism sector

Summary of key outcomes

Economic prosperity

11%
Contribution to GDP

7.5%
Annual growth in visitor arrivals

50
homegrown business events (at least 5 are international events)

350,000
yearly Business Events delegates into Sarawak by 2030

10%
Increase in handicraft sale

Social inclusivity

25%
Employment in tourism industry

20%
Increase in community-based tourism

Environment sustainability

Sarawak as a responsible tourism destination, aligned with SDG goals

30 Totally Protected Areas (TPA)
to have Management Plans to ensure efficient conservation and visitors management by 2030

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period.

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Enhance travel to and within Sarawak
Initiative	:	1. Increase number of direct flights to and from key international destinations

Initiative	Desired Outcome (s)
1. Increase number of direct flights to and from key international destinations	Enhanced international connectivity to and from Sarawak and increase in visitors arrivals and tourism receipts **Economic Prosperity** ● Connectivity from 15 new international destinations ● Increased visitors' arrival and tourism receipts ● Additional 7.5% growth visitors' arrivals p.a. ● Annual revenue generated from tourism receipts p.a.: RM870.68 mil

Timeline		Resources Required
Start Date	End Date	
2022	2030	Airline collaboration incentives: RM20 mil p.a. by types of aircrafts seat capacity Aircrafts: ● RBA – B737 – 159 seats ● Malindo – 180 seats ● Kuwait Airways – 283 seats ● Hainan Airlines – B737-800 – 162 seats ● China Express – A320 – 168 seats ● Firefly – 160 seats

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Sarawak Tourism Board (STB)	MAS, AirAsia, Malindo, Kuwait Airways, China Express Airline, Hainan Airlines, Firefly, chartered flights

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period.

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	1. Increase number of direct flights to and from key international destinations
Action step	:	1.1

Action step (s)	Output (s)	Timeline	Resources required
1.1 Identify potential markets for direct airline connectivity		Start date	
1.1.1 Strategic collaboration with potential airlines	Potential Airlines: • RBA • Malindo • Kuwait Airways • Hainan Airlines • China Express • Firefly • AirAsia • Thai Airways • Indigo, India • Korean Air • Jetstar, Australia • Eva Air, Taiwan	2022	Engagement Session, Meetings, Internal STB
1.1.2 Identify the passenger load factor (PLF) against the budget (PLF pending on airline and STB mutual agreement)	Minimum Passenger Load Factor (PLF) 65%		Contract Monthly report (airline & MAHB)
1.1.3 Conduct a feasibility study- awareness about Sarawak and intention to visit Sarawak among the population in the the proposed 15 new destinations	NEW 15 destinations connectivity within 9-year period • **China**: Hainan, Shenzhen, Shanghai, Chengdu • **Indonesia**: Jakarta • **UAE**: Jeddah, Madinah, Kuwait (transit) • **India**: Bangalore, Mumbai (Transit) • **Japan**: Tokyo • **Korea**: Busan • **Thailand**: Bangkok • **Australia**: Perth, Adelaide • **Taiwan**: Taipei	End date 2030	Engagement Session, Meetings, Internal STB
1.1.4 To collaborate with major OTAs/ Tour operators and airline marketing team to promote Sarawak in the selected destinations.	• Tour operators - ATS Global • Travel agencies associations - ASIATA, TAFFI, MATTA, Expedia • Airlines - Homegrown airlines • SKS Airways		Engagement Session, Meetings, Internal STB

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	1. Increase number of direct flights to and from key international destinations (cont'd)
Action step	:	1.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
1.1.5 To develop Strategic plans (short-term and medium-term) for destination promotion.	Short Term Measures ● Interstate and intrastate campaigns Long Term Measures ● To have Sarawak's own airline *Notes:* *Enhance visibility of Sarawak among international destinations.* *Increase international visitor arrivals to Sarawak*	**Start date** 2022	Market research for short term and long term destination promotion
1.1.6 The results of the feasibility studies will be used to understand the consumer market and demand towards Sarawak, from this to develop marketing and promotional initiatives.	Marketing and promotional initiatives (e.g. interstate and intrastate campaign, VIP, etc.)	**End date** 2030	Feasibility studies
1.1.7 To connect with Tourism Malaysia (TM) and do the joint promotional campaign to create awareness about Sarawak in the potential new destinations.	Collaboration with Tourism Malaysia Sarawak for both domestic market and Tourism Malaysia overseas offices for long haul/ market international markets		Engagement Session, Meetings, Internal STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	MAHB, MAS, AirAsia, Malindo, Kuwait Airways, China Express Airline, Hainan Airlines, Firefly, chartered airlines, MAB, MAVCOM, MOT, TM

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	1. Increase number of direct flights to and from key international destinations (cont'd)
Action step	:	1.2 - 1.3

Action step (s)	Output (s)	Timeline	Resources required
1.2 Policy on Airline Incentives		Start date	Airline collaboration incentives: RM20 mil per annum by airlines (RM4 mil per airline)
1.2.1 Strategic collaboration with potential airlines/ charter companies	Airline collaboration incentives: RM20 mil per annum by airlines (RM4 mil per airline)	2022	
1.2.2 Identify the passenger load factor (PLF) against the budget (PLF pending on airline and STB mutual agreement)	Minimum Passenger Load Factor (PLF) 65%	End date	
1.2.3 Contract / Mutual Terms and Conditions	• MOU / MOA • Cabinet Approval	2030	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	MAS, AirAsia, Malindo, Kuwait Airways, China Express Airline, Hainan Airlines, Firefly, chartered airlines

Action step (s)	Output (s)	Timeline	Resources required
1.3 Promotion & Marketing		Start date	RM45mil for 9 years (RM5mil per annum)
1.3.1 Campaign	Roadshows	2022	
1.3.2 Advertisement (i.e. offline and online platforms - depending on the trends of platforms on specific period)	Infocast Kenyalang, LED Videowalls, online platforms	End date	
1.3.3 Social Media promotion (Depending on the trending on the social media platforms)	Promotion through various social media such as Instagram, Facebook, Youtube	2030	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	MAS, AirAsia, Malindo, Kuwait Airways, China Express Airline, Hainan Airlines, Firefly, chartered airlines, online and offline platform

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	1. Increase number of direct flights to and from key international destinations (cont'd)
Action step	:	1.4 - 1.5

Action step (s)	Output (s)	Timeline	Resources required
1.4 Validation and verification of the PLF by MAHB Identify the PLF against the budget	Minimum PLF (depending on airline agreement/contact)	Start date 2022 End date 2030	Contract Monthly report (airline & MAHB)

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	MAHB, MAS, AirAsia, Malindo, Kuwait Airways, China Express Airline, Hainan Airlines, Firefly, chartered airlines

Action step (s)	Output (s)	Timeline	Resources required
1.5 Review of performance and terms & conditions through monitoring and evaluation	Yearly review based on performance analysis and produce results The PLF progress report submission and evaluation ROI • Annual 7.5% growth in visitors arrivals • Annual revenue generated from tourism receipts p.a.: RM870.68 mil	Start date 2022 End date 2030	Monthly report (airline & MAHB) Visitor Arrivals – data from Immigration Department Sarawak TSA - RM1.5mil every 2 years (RM6.75mil)

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	MAHB, MAS, AirAsia, Malindo, Kuwait Airways, China Express Airline, Hainan Airlines, Firefly, chartered airlines

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period.

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Enhance travel to and within Sarawak
Initiative	:	2. Kuching as the regional hub for Umrah flights

Initiative	Desired Outcome (s)
2. Kuching as the regional hub for Umrah flights	**Economic Prosperity** ● Increased arrivals to Kuching from Indonesia, Singapore, Southern Philippines, Brunei, Sabah and other Malaysian States ● Increased visitors of 114,210 for 3 years assuming 65% PLF ● Tourism receipts generated for Umrah packages RM57.1 mil for 3 years (RM500 per pax) ● Investment: RM37.5 mil for 3 years

Timeline		Resources Required
Start Date	End Date	
2022	2025	Airline Collaboration Incentives: ● RM37.3 mil for 3 years ● RM38,000 - RM60,000 per flight

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	Malindo Air, Kuwait Airways, Local Tour operators, hotels

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period.

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	2. Kuching as the regional hub for Umrah flights
Action step	:	2.1 - 2.2

Action step (s)	Output (s)	Timeline	Resources required
2.1 Identify potential Umrah markets		Start date	Market research: RM1.6 mil RM200k x 4 countries x 2 years
2.1.1 Conduct a feasibility study - travellers intention to go for Umrah via Sarawak	The selected study destinations are: • Indonesia • Brunei • Philippines • Malaysia	2022	
		End date	
2.1.2 To develop strategic plans and directions for marketing and promotion of KCH as an Umrah Hub among the targeted population	Kuching as a preferred Umrah destination within 9 years	2030	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	STB, MTAC, Airlines, Charterers, Tourism industry partners

Action step (s)	Output (s)	Timeline	Resources required
2.2 Identify potential Airlines / Charterer to provide direct flight to Sarawak		Start date	RM37.5 mil for 3 years
2.2.1 Engage with MAHB to obtain information on Umrah flights/charterers/airlines	Proposal from airline/charterer: • 3 years Charter flights using Kuching as an Umrah Hub • Collaboration with airline/charterer / MAHB on propose pre or post tour minimum of one-night stay in Kuching, 65% Passenger Load factor to be achieved	2022	
		End date	
2.2.2 Mutual Terms & Conditions	• MOU/MOA/Contract agreement	2025	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	STB, MTAC, Airlines, Charterers, Tourism industry partners

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	2. Kuching as the regional hub for Umrah flights (cont'd)
Action step	:	2.3 - 2.4

Action step (s)	Output (s)	Timeline	Resources required
2.3 Promotion & Marketing			
2.3.1 Campaign	• Roadshows • Kuching as preferred Umrah Hub • Average increase of 47% of Umrah pilgrims • Yearly incremental of flights frequency	Start date 2022	RM1.5mil per annum (RM6 mil)
2.3.2 Advertisement (i.e. offline and online platforms - depending on the trends of platforms on specific period)	Infocast Kenyalang, LED Videowalls	End date	
2.3.3 Social Media promotion (i.e. offline and online platforms - depending on the trends of platforms on specific period)	Promotion through various social media such as Instagram, Facebook, Youtube	2025	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	STB, airlines, charterers

Action step (s)	Output (s)	Timeline	Resources required
2.4 Validation and verification of the PLF by MAHB and airline		Start date	Contract Monthly report (airline & MAHB)
2.4.1 Evaluate the PLF based on the mutual agreement	Minimum 65% PLF	2022 End date	
2.4.2 Cross-check with MAHB on the PLF		2025	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	MAHB, STB, MTAC, Airlines, Charterers, Tourism industry partners

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	2. Kuching as the regional hub for Umrah flights (cont'd)
Action step	:	2.5

Action step (s)	Output (s)	Timeline	Resources required
2.5 Review of performance and terms & conditions		**Start date**	Monthly report (airline & MAHB) Visitor Arrivals – data from Immigration Department Sarawak TSA
2.5.1 Monitoring and evaluation	Quarterly report	2022	
2.5.2 Review the T&C based on airlines' performance	Yearly review based on performance analysis and produce results	**End date**	
2.5.3 To compare the performance of the airlines quarterly	Contract renewal depends on the performance	2025	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	STB, MTAC, airlines, charterers, tourism industry partners

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Enhance travel to and within Sarawak
Initiative	:	3. Promotion through enhanced gateway through air, land and sea

Initiative	Desired Outcome (s)
3.1 Promotion through upgraded airports in Kuching, Sibu and Miri	**Economic Prosperity** ● Increased in flight frequencies and visitors arrivals ● Flight weekly frequency into Kuching airport from 302 to 456, Miri from 175 to 263, Sibu from 118 to 176 ● With new upgraded capacity for Kuching airport: 8,000,000 (5,300,000): 4.6% p.a. increase visitors arrival via Kuching airport from 975,481 visitors (2019) to 1,472,424 by 2030 ● Miri: 3,000,000 (2,000,000): 4.6% p.a. increase from 161,390 visitors (2019) to 242,085 by 2030 ● Sibu: 2,500,000 (1,700,000): 4.3% p.a. increase from 246,697 visitors (2019) to 362,789 by 2030 ● Improvement of facilities in Visitor Information Centres (VIC) in airports for 9 years RM5.55 mil

Timeline		Resources Required
Start Date	End Date	
2022	2030	● RM19.0 millions for Facilities and ● RM 36 millions (RM 4 Million x 9 years) for marketing and promotion ● Improvement of visitors' facilities in Kuching, Miri, Sibu RM5.55 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC in collaboration with MOT and MAHB	STB in collaboration with MAHB	MAHB, airlines, Immigration, MOT, Department of Civil Aviation, Malaysia Aviation Commission (MAVCOM)

Note: Downside risks and key challenges to projected growth in terms of visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period.

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Enhance travel to and within Sarawak
Initiative	:	3. Promotion through enhanced gateway through air, land and sea (cont'd)

Initiative	Desired Outcome (s)
3.2 Promotion border tourism through new and upgrade CIQS at Tebedu, Serikin, Biawak and Telok Melano	**Economic Prosperity** • Increase of visitor arrivals from Kalimantan together with cross border trade, tourism and events • Increased land arrival of Indonesians from 367,304 in 2019 by 5% to 570,000 by 2030 • Potential tourism receipt RM541.5 mil by 2030

Timeline		Resources Required
Start Date	End Date	
2022	2030	• Promotion & Marketing in Brunei and Indonesia at the gateway and in marketplace - RM13.5 mil (RM1.5 mil x 9 years) • Collaboration with tourism stakeholders

Project Owner	Implementing Agency	Other Stakeholders
MTAC in collaboration with EPU Sarawak and Immigration	MTAC,STB	Tourism Malaysia, STF, MAH, MATTA, SATA, EPU Sarawak, Immigration, Customs

Initiative	Desired Outcome (s)
3.3 Promotion of cruise tourism through existing deep-sea terminals in Sarawak (Senari, Bintawa, Tanjung Manis, Tanjung Kidurong and Kuala Baram) and the proposed Tanjung Po new deep-sea terminal	**Economic Prosperity** • Increased capacity of Sarawak to cater for international visitors' arrival through international passenger cruises. • Increase from 8 cruises and 4,009 passengers in 2019 to 24 cruises and 20,891 passengers by 2030 • Annual potential revenue (visitors receipts) - RM10.96 mil by 2030

Timeline		Resources Required
Start Date	End Date	
2022	2030	• Promotion and Marketing - RM4.5 million (RM500k x 9 years)

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	Port Authorities (Kuching, Miri, Bintulu), shipping agents, tour operators, cruise operators, Immigration, police, Customs, Tourism Malaysia

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period.

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	3. Promotion through enhanced gateway through air, land and sea
Action step	:	3.1

Action step (s)	Output (s)	Timeline	Resources required
3.1 Promotion through upgraded airports in Kuching, Sibu and Miri		**Start date**	Funding: RM15 mil
3.1.1 Engage with MAHB during design stage ● Discussion with MAHB on the design	To give recommendation on the design of airport facilities to ensure seamless airport experience and also to include medical hospitality area	Jan 2022 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MTAC, MOT	MAHB, STB	MAHB, airlines, Immigration, Ministry of Transport, Department of Civil Aviation, MAVCOM

Action step (s)	Output (s)	Timeline	Resources required
3.1.2 Geofencing / dynamic advertising 1. Collaborate with SMA who will take charge of developing the modules 2. Modules will be introduced in different stages to allow tracking of visitors in the state allowing to push tourism products in relation to their location	Phase 1 (Duration - 2022-2025) Analysis and study Identify wants and needs of Geofencing initiative ● Welcome message ● Promotional content and destination information ● Data packages for travelers entering Sarawak ● Security features ● Interactive map system ● Customer Support/CRM Development ● Smart device application that serves as a one-stop information centre for visitors ● Creation of different modules by different stakeholders Implementation ● Different modules to be combined and incorporated into app ● Marketing and promotion activities – targeting a 30-40 percent use by arriving visitors by 2030. (online statistics as baseline)	**Start date** Jan 2022 **End date** Dec 2025	RM1.5 million for development and implementation of app/system

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	SMA, SDEC, SSMU

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	3. Promotion through enhanced gateway through air, land and sea (cont'd)
Action step	:	3.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	Phase 2 (Duration – 2025-2030) Data review and evaluation ● Better tourism packages and products based on data collected from the app ● Improved marketing reach with feedback based on info/spending and travel habits from users ● Updated modules and promotional content to suit the ever-changing market trends Phase 3 (Duration – 2025-2030) Continued Development ● Hotel/tourism activities – ebooking and e-ticketing system ● Sarawak Loyalty programme ● Ecommerce/Payment Gateway system	Start date Jan 2025 End date Dec 2030	-

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	SMA, SDEC, SSMU

Action step (s)	Output (s)	Timeline	Resources required
3.1.3 Visitors' Information Centre at the airports – Kuching, Sibu & Miri 1. Marketing materials to be placed at the centres 2. Offer good customer service	1. Photo booth/Display marketing collaterals materials: Brochures, Souvenirs, videos, buntings, etc. 2. Excellent ambiance in the VICs.	Start date Jan 2022 End date Dec 2030	RM36 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC, MOT	MAHB, STB	MAHB, airlines, Immigration, Ministry of Transport, Department of Civil Aviation, MAVCOM

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	3. Promotion through enhanced gateway through air, land and sea (cont'd)
Action step	:	3.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.1.4 Visitors exit survey – TSA by MTAC	Information on visitors' demographic profile, expenditure pattern and perception level on the services and facilities	Start date Jan 2022 End date Dec 2030	RM200,000

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	

Action step (s)	Output (s)	Timeline	Resources required
3.1.5 Promotion and marketing Seasonal basis • Campaign • Advertisement • Social media promotion	• Roadshows • Create seasonal ambiance (5 seasonal festivals)	Start date Jan 2022 End date Dec 2030	-

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	STB, MAHB

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	3. Promotion through enhanced gateway through air, land and sea (cont'd)
Action step	:	3.2

Action step (s)	Output (s)	Timeline	Resources required
3.2 Promotion border tourism through new and upgrade CIQS at Tebedu, Serikin, Biawak and Telok Melano		**Start date**	Funding, Engagement Session
3.2.1 Organise joint events	Seven (7) joint cross border events organised yearly: ● Cross Border Festival at Biawak-Aruk and Tebedu-Entikong organised by Ministry of Tourism Indonesia , Consulate General Indonesia Office and MTAC. ● Karnival Tenun Linggi , Sambas ● Tour de Malindo Lund-Sambas-Singkawang , collaboration under SOSEK MALINDO through MTAC and Kem Dalam Negeri Indonesia (KALBAR) ● The Heart of Borneo Highland, Eco-Challenge in Sipitang- Long Semadoh-Ba'kelalan- Long Bawan-Long Layu-Bario by Alliance of the Indigenous Peoples of the Highlands of Borneo (FORMADAT) & WWF, Indonesia ● Malam Titian Muhibah by Tebedu DO and Pejabat Kabupaten Sanggau, Indonesia ● Joint wildlife conservation by industry players. Knowledge sharing though conference and engagement session	Jan 2021 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	STB, MOTAC, Tourism Malaysia,STF, EPU Sarawak, Immigration, Customs, Residen Kuching

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	3. Promotion through enhanced gateway through air, land and sea (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.2.2 Leverage on initiatives under collaboration of SOSEK MALINDO	• Health Issue (Infectious disease control, malaria, health tourism) addressed • Arts and Culture exchange programmes coordinated • Sports tourism (Fun Bike Tour de Malindo) • Education tourism program ,student visit programme jointly organised yearly • Collaboration and agreement between tourist guide association and tour operators from both Sarawak (Malaysia) and West Kalimantan (Indonesia) jointly organised yearly	**Start date** Jan 2021 **End date** Dec 2030	Funding, engagement session, joint collaboration
3.2.3 Leverage on initiatives under collaboration of BIMP-EAGA	• New air route connecting to EAGA Region established • Development of BIMP-EAGA Cruise Tourism Package • Community-based ecotourism (CBET) • Development of new Tourism Facilities: 2 VICs at new CIQS • Establishment of UNESCO World Heritage Sites, National Parks and Marine Parks • Increased promotions of BIMP-EAGA tourism packages • Capacity Building on ASEAN Tourism Standards • Joint Promotion and Marketing	**Start date** Jan 2021 **End date** Dec 2030	Funding engagement session, joint collaboration

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	STB, Tourism Malaysia, STF, MOTAC, Residen Kuching, Immigration, Customs, MKN

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	3. Promotion through enhanced gateway through air, land and sea (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.2.4 Establishment of Sarawak Trade and Tourism Pontianak (STATOP) office at Pontianak	Promotion on trade, health tourism, education tourism, S-MM2H, food, etc.	Start date: Jan 2022 End date: Jan 2023	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	STB, MOTAC, Tourism Malaysia, STF, EPU Sarawak, Immigration, Customs

Action step (s)	Output (s)	Timeline	Resources required
3.2.5 Promote health tourism	• Increased visitors arrivals and tourism receipts through promoting Sarawak as an international Wellness Tourism destination • Sarawak has attracted 44,700 Indonesian health visitors with RM66.30 mil revenue in 2019. • 9% annual growth rate of health visitors to 120,000 with RM162 Million in health revenue by 2030 targeting Balikpapan and Palangkaraya	Start date: Jan 2022 End date: Dec 2030	Funding, engagement with stakeholders

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	STB, Tourism Malaysia, STF, MAH, MATTA, Health Department Sarawak, Immigration, Customs, MHTC

Action step (s)	Output (s)	Timeline	Resources required
3.2.6 Engage with CIQs designers during design stage • Discussion on the design	To give recommendation on the design of CIQs facilities to include medical hospitality area	Start date: Jan 2022 End date: Dec 2030	Engagement session, manpower

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, STB	Tourism Malaysia, STF, MAH, MATTA, SATA, EPU Sarawak, Immigration, Customs

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	3. Promotion through enhanced gateway through air, land and sea (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.2.7 Monitoring visitor arrivals through new CIQs	Feedback from the visitors on the smooth running of the CIQs	**Start date** Jan 2022 **End date** Jan 2023	RM200,000

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	Immigration/Customs

Action step (s)	Output (s)	Timeline	Resources required
3.2.8 Geofencing / dynamic advertising 1. Collaborate with SMA who will take charge of developing the modules 2. Modules will be introduced in different stages to allow tracking of visitors in the state allowing to push tourism products in relation to their location	Phase 1 (Duration - 2022-2025) Analysis and study Identify wants and needs of Geofencing initiative ● Welcome message ● Promotional content and destination information ● Data packages for travelers entering Sarawak ● Security features ● Interactive map system ● Customer Support/CRM Development ● Smart device application that serves as a one-stop information centre for visitors ● Creation of different modules by different stakeholders Implementation ● Different modules to be combined and incorporated into app ● Marketing and promotion activities – targeting a 30-40 percent use by arriving visitors by 2030. (online statistics as baseline)	**Start date** Jan 2022 **End date** Dec 2025	1.5 million for development and implementation of app/system

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	SMA, SDEC, SSMU

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	3. Promotion through enhanced gateway through air, land and sea (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	Phase 2 (Duration – 2025-2030) Data review and evaluation ● Better tourism packages and products based on data collected from the app ● Improved marketing reach with feedback based on info/spending and travel habits from users ● Updated modules and promotional content to suit the ever-changing market trends Phase 3 (Duration – 2025-2030) Continued Development ● Hotel/tourism activities – ebooking and e-ticketing system ● Sarawak Loyalty programme ● Ecommerce/Payment Gateway system	Start date Jan 2025 End date Dec 2030	-

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	SMA, SDEC, SSMU

Action step (s)	Output (s)	Timeline	Resources required
3.2.9 Visitors exit survey – TSA by MTAC	Feedback from visitors about the destination	Start date Jan 2022 End date Dec 2030	RM200,000

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	-

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	3. Promotion through enhanced gateway through air, land and sea (cont'd)
Action step	:	3.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.2.10 Promotion and marketing • Seasonal basis • Photo booth/Display marketing collaterals materials: Brochures, Souvenirs, videos, buntings, etc. • Joint Tour Packages – Familiarisation Trips (media & travel agents)	• Create seasonal ambiance • Joint Tour Packages – A.N.F.F. package – 4 packages per annum • Familiarisation Trips – 2 per annum	**Start date** Jan 2022 **End date** Dec 2030	RM3 mil per annum (RM27 mil)

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	Tourism Malaysia, STF, MAH, MATTA, SATA

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	3. Promotion through enhanced gateway through air, land and sea (cont'd)
Action step	:	3.3

Action step (s)	Output (s)	Timeline	Resources required
3.3 Promotion of cruise tourism through existing deep-sea terminals in Sarawak (Senari, Bintawa, Tanjung Manis, Tanjung Kidurong and Kuala Baram) and the proposed Tanjung Po new deep-sea terminal.		Start date: 2022	
3.3.1 Feasibility study for passenger cruise terminal	To understand the trends of visitor arrivals in the new cruise ship port.	End date: 2023	RM500,000

Project Owner	Implementing Agency	Other Stakeholders
MTAC, MIPD	MIPD	Port Authorities (Kuching/Miri/Bintulu) shipping agents, tour operators, cruise operators, Immigration, Police, Customs, Tourism Malaysia

Action step (s)	Output (s)	Timeline	Resources required
3.3.2 Engage with MIPD on design and provision of cruise terminal facilities	To give recommendation on the design of cruise terminal facilities	Start date: 2022 End date: 2024	RM50 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC, MIPD	MIPD	

Action step (s)	Output (s)	Timeline	Resources required
3.3.3 Promotion and marketing on cruise tourism • Identify the cruise market segments • Engaging with cruise liners • Market the destination • Collaborative promotion for cruise tourism (nearby states and Singapore) and under BIMP EAGA initiatives / Singkawang / Northern Territory	Enhance cruise arrivals in Sarawak as a cruise tourism destination 7 cruise ships per year with an estimated number 3,474 pax per year Annual Potential Revenue (Visitors Receipts) = RM1.82 mil per year	Start date: 2022 End date: 2030	RM4.5 mil (RM500k x 9 years)

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	Tour operators, cruise operators, Tourism Malaysia

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	3. Promotion through enhanced gateway through air, land and sea (cont'd)
Action step	:	3.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
3.3.4 Training and ground handling capacity	Ground handlers who are well trained to ensure visitors' satisfaction	Start date: 2022 End date: 2023	RM500,000

Project Owner	Implementing Agency	Other Stakeholders
MTAC, MIPD	MTAC, Port Authorities	Port Authorities (Kuching, Miri, Bintulu) shipping agents, tour operators, cruise operators, Immigration, Police, Customs, Tourism Malaysia

Action step (s)	Output (s)	Timeline	Resources required
3.3.5 Digital advertising and promotion to focus on cruise market segments. ● Campaign ● Advertisement ● Social media promotion	Sarawak as a preferred cruise tourism destination in this region	Start date: 2022 End date: 2030	

Project Owner	Implementing Agency	Other Stakeholders
MTAC, MIPD	STB	Tour operators, cruise operators, Tourism Malaysia

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets

Initiative	Desired Outcome (s)
4.1 Sarawak Arts Gallery	**Economic Prosperity** ● Preservation and conservation of Sarawak's unique arts heritage. ● 35,000 visitors to patronise by 2030 (RM10 per entrée, annual ROI at RM350,000) ● 14,000 items (paintings, fashion products, costumes, sculptures showcased by 2030. ● RM701,000 ROI through rental of showcase spaces

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM50 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, SAC	JKR, L&S, R&DO, DTTG, NGOs, international organisations, local communities

Initiative	Desired Outcome (s)
4.2 Establish a State Performing Arts Centre at Old DUN Building	**Economic Prosperity** ● 12 events to be organised per year in 2030 ○ RM10,000 rental per events (ROI: RM120,000) ● 50 clubs / organisations to utilise the premise ○ 50 events to be organised per year ○ RM1,000 rental per events (ROI: RM50,000) ● Rental for small seminars/workshops ○ RM100 per session for 30 seminars/workshops (ROI RM3,000.00) ○ 80,000 pax expected to patronise the State Performing Arts Centre in 2030 ● 7 programmes focusing on seven key art forms (i.e. dance, acting, modern music, traditional music, vocals, Literary arts and visual arts) with 20 classes per year ○ No of trainees in Performing Arts -1,000 per year ○ No of trainees in Visual Arts - 200 per year ○ No of trainees in Literary Arts - 100 per year ○ No of trainees in Virtual Arts - 10 per year

Timeline		Resources Required
Start Date	End Date	
2022	2030	● RM175 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, SAC	JKR, L&S, R&DO, DTTG, NGOs, international organisations, local communities

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period. *(Initiatives 4.1-4.16)*

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)

Initiative	Desired Outcome (s)
4.3 Develop Arts and Handicrafts Centre Kuching	**Economic Prosperity** ● A centre for training, research and development of local crafts in addition to visitors destination. ● Attract 15,000 visitors monthly ● Generate RM5 mil direct sales annually (with an economic value of RM11.5 mil annually at 2.3x multiplier effect). ● Collect revenue from rental totalling RM1.2 mil annually ● Train 100 producers annually

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM99 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, SCC	JKR, L&S, R&DO, DTTG, NGOs, international organisations, local communities

Initiative	Desired Outcome (s)
4.4 Restoration and upgrading of historical forts in Sarawak	**Economic Prosperity** ● To develop new tourism products leveraging on 11 historical forts built by Brooke. ○ 50,760 cumulative visitors to all forts in the year 2030

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM28.47 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	JKR, L&S, R&DO, DTTG, NGOs, international organisations, local communities

Initiative	Desired Outcome (s)
4.5 Santubong Archaeological Park and Wallace Centre (SAP)	**Economic Prosperity** ● To develop new tourism products leveraging on the history of past civilisations in Santubong. ○ 97,460 visitors in year 2030 for SAP ○ 44.03 acres of archaeological area conserved

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM35 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	JKR, L&S, R&DO, DTTG, NGOs, international organisations, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)

Initiative	Desired Outcome (s)
4.6 Dewan Warisan Budaya Batang Sadong, Sarawak	**Economic Prosperity** ● 10,000 visitors to patronise in 2030 (RM5 per entrée, annual ROI at RM50,000) ○ 1,000 items exhibited and showcased (cumulative) ○ RM100,000 ROI through canteen rental, kiosks, merchandise sales, handicrafts.

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM3 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	JKR, L&S, R&DO, DTTG, NGOs, international organisations, local communities

Initiative	Desired Outcome (s)
4.7 Transform Brooke Dockyard into Maritime Museum	**Economic Prosperity** ● To develop new tourism products leveraging on the heritage building built during Brooke era with significance to Sarawak's past history as one of the few shipyards in South East Asia. ○ 500,000 pax visitors in 2030 ○ Conservation of historical heritage from 1912 when BDY was ceremoniated by Ranee Margaret

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM48.5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	JKR, L&S, R&DO, Council, DTTG, NGOs, international organisations, local communities

Initiative	Desired Outcome (s)
4.8 Establish Sarawak Museum Campus and Heritage Trail, Kuching	**Economic Prosperity** ● To develop new tourism products leveraging on the unique socio-culture in Sarawak. ○ 366,000 visitors in 2030; comparative of Old Building visitors count of 127,027 visitors in 2017.

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM325.8 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	JKR, L&S, R&DO, Council, DTTG, NGOs, international organisations, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)

Initiative	Desired Outcome (s)
4.9 Muzium Pembangunan Limbang, Galeri Sejarah Pentadbiran Limbang	**Economic Prosperity** ● To develop new tourism products leveraging on the development history of the Limbang division. ○ Muzium Limbang visitors to increase to 9,700 in 2030; comparative to 5,780 visitors in 2019.

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM10 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	JKR, L&S, R&DO, Council, DTTG, NGOs, international organisations, local communities

Initiative	Desired Outcome (s)
4.10 Transforming Astana into Museum	**Economic Prosperity** ● To develop new tourism products leveraging on the rich and unique socio-cultural in Miri division. ○ Platform to showcase culture and heritage unique to the Miri division. ○ Assuming an opening in 2029, 82,413 expected visitors in 2030 at an annual growth of 3% (benchmarked with Chinese Museum due to easy accessibility, 77,682 pax in 2019)

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM50 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	JKR, L&S, R&DO, Council, DTTG, NGOs, international organisations, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)

Initiative	Desired Outcome (s)
4.11 Miri Cultural and Heritage Museum	**Economic Prosperity** ● To develop new tourism products leveraging on the rich and unique socio-cultural in Miri division. ○ Platform to showcase culture and heritage unique to the Miri division. ○ Assuming an opening in 2029, 82,413 expected visitors in 2030 at an annual growth of 3% (benchmarked with Chinese Museum due to easy accessibility and Miri as a city status, 77,682 pax in 2019)

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM50 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	JKR, L&S, R&DO, Council, DTTG, NGOs, international organisations, local communities

Initiative	Desired Outcome (s)
4.12 Gold Mine Museum and Park	**Economic Prosperity** ● To develop a museum leveraging on the history of gold-mining industry in Bau which is among one of the oldest in Sarawak. ○ No. of estimated visitors: 275,260 pax (assuming that Gold Mine Museum is opened in 2024; Gold Mine Museum and Park Study, MTAC)

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM30 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	JKR, L&S, R&DO, Council, DTTG, NGOs, international organisations, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)

Initiative	Desired Outcome (s)
4.13 Bintulu Museum	**Economic Prosperity** ● To develop a museum leveraging on the socio-cultural of Bintulu division. ○ No of estimated visitors: 275,260 pax (benchmarked from Gold Mine Museum and assuming that it is opened in 2024; Gold Mine Museum and Park Study, MTAC)

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM60 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	JKR, L&S, R&DO, Council, DTTG, NGOs, international organisations, local communities

Initiative	Desired Outcome (s)
4.14 Transform Muzium Tekstil Sarawak into Kuching City Museum	**Economic Prosperity** ● To develop a new museum showcasing the unique socio-cultural profile of Kuching city as the capital city of Sarawak. ○ 38,500 visitors in 2030 for Muzium Tekstil Sarawak

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM30 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	JKR, L&S, R&DO, Council, DTTG, NGOs, international organisations, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)

Initiative	Desired Outcome (s)
4.15 Akuarium Jabatan Muzium Sarawak	**Economic Prosperity** ● To further upgrade the historical building by showcasing marine life endemic to Sarawak. ○ Expected 35,000 visitors in 2030

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM10 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	JKR, L&S, R&DO, Council, DTTG, NGOs, international organisations, local communities

Initiative	Desired Outcome (s)
4.16 Preliminary Study for Malay Heritage Museum at Projek Darul Hana	**Economic Prosperity** ● To develop a new museum showcasing the unique Malay history and heritage. ○ 10,000 visitors in 2030

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM1 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	LCDA, JMS	JKR, L&S, R&DO, Council, DTTG, NGOs, international organisations, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets
Action step	:	4.1

Action step (s)	Output (s)	Timeline	Resources required
4.1 Sarawak Arts Gallery		Start date	RM500,000
4.1.1 Feasibility study and study trip	Data and relevant information prior to physical development / benchmarking	Jan 2023	
4.1.2 Appointment of implementing agencies	Appointment of implementing agencies with technical expertise and relevant experience on the subject matter (art)	End date Feb 2023	Internal MTAC
4.1.3 Appointment of consultant for building design	Space and exhibition requirements / facility management planning	Start date Mar 2023 End date Apr 2023	RM2.5 mil
4.1.4 Engagement with stakeholders and local communities	Obtain opinion and buy-in from stakeholders and the public	Start date May 2023 End date Jun 2023	Internal SAC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SAC, JKR	R&DO, DTTG, NGOs, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.1.5 Siting, boundary, gazettement	A clear boundary of project site Acquisition and compensation of land (if required)	Start date Mar 2023 End date Jun 2023	Internal MTAC / SAC
4.1.6 Dilapidation report and CMP	Completed dilapidation report and CMP (if required for gazette/heritage building)	Start date Mar 2023 End date Aug 2023	RM1.5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	R&DO, DTTG, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.1.7 Appointment of contractor	Completed construction and renovation	Start date: Jan 2024 End date: Apr 2024	RM45.5 mil
4.1.8 Monitoring of construction and renovation	As-scheduled progress and timely completion	Start date: May 2023 End date: Jun 2023	Monthly Monitoring Meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	R&DO, DTTG, NGOs, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.1.9 Engagement with potential tenant and related NGOs on exhibitions	Exhibition list and contributors	Start date: May 2025 End date: Jul 2025	Internal SAC
4.1.10 Recruitment and training of staffs	Trained staffs for the operation including building maintenance, ticket collection, and upkeeping	Start date: May 2025 End date: Jul 2025	Internal MTAC / SAC
4.1.11 Handover to Sarawak Arts Council	A comprehensive operation and business model	Start date: Apr 2026 End date: May 2026	Internal MTAC / SAC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SAC	R&DO, DTTG, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.1.12 Interagency engagement (STB, SCB)	Inter-agency collaboration on promotion and seasonal events.	Start date: May 2026 End date: Jul 2026	Internal MTAC / SAC / STB
4.1.13 Promotion and opening to public	Targeted number of visitors and number of events	Start date: May 2026 End date: Jul 2026	Internal MTAC / SAC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SAC, STB, SCB	R&DO, DTTG, NGOs, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.1.14 Evaluation and data collection	Database on visitors statistics and satisfaction survey	Start date: Dec 2026 End date: Feb 2027	Internal SAC
4.1.15 Engagement with learning institutions, NGOs, and international bodies for potential programmes and collaborations	• Number of visits by learning institutions • Number of events with NGOs and industry players • Number of collaborations with international bodies	Start date: May 2026 End date: Jul 2026	Internal SAC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SAC	R&DO, DTTG, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.2

Action step (s)	Output (s)	Timeline	Resources required
4.2 Establish a State Performing Arts Centre at Old DUN Building		Start date	RM500,000
4.2.1 Feasibility study and study trip	Data and relevant information prior to physical development / benchmarking	Jan 2021	
4.2.2 Appointment of implementing agencies	Appointment of implementing agencies with technical expertise and relevant experience on the subject matter (performing art)	End date Feb 2021	Internal MTAC
4.2.3 Appointment of consultant for building design	Space and exhibition requirements / facility management planning	Start date Mar 2021 End date Apr 2021	RM2.5 mil
4.2.4 Engagement with stakeholders and local communities	Obtain opinion and buy-in from stakeholders and the public	Start date May 2021 End date Jun 2021	Internal SAC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SAC, JKR	R&DO, DTTG, NGOs, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.2.5 Siting, boundary, gazettement	A clear boundary of project site Acquisition and compensation of land (if required)	Start date Mar 2021 End date Jun 2021	Internal MTAC / SAC
4.2.6 Dilapidation report and CMP	Completed dilapidation report and CMP (if required for gazette/heritage building)	Start date Mar 2021 End date Aug 2021	RM1.5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	R&DO, DTTG, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.2.7 Appointment of contractor	Completed construction and renovation	Start date Sep 2021 End date Aug 2024	RM174 mil
4.2.8 Monitoring of construction and renovation	As-scheduled progress and timely completion	Start date Sep 2021 End date Aug 2024	Monthly monitoring meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	R&DO, DTTG, NGOs, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.2.9 Engagement with stakeholders and related NGOs	Potential exhibition list and contributors, performing programme, training	Start date May 2023 End date Jul 2023	Internal SAC
4.2.10 Recruitment and training of staffs	Trained staffs for the operation including building maintenance, ticket collection, and upkeeping	Start date May 2023 End date Jul 2023	Internal MTAC / SAC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SAC	R&DO, DTTG, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.3

Action step (s)	Output (s)	Timeline	Resources required
4.3 Develop Arts and Handicrafts Centre Kuching		Start date	
4.3.1 Consultation with stakeholders	Proposal on: 1. General Concept 2. Build-up area 3. Siting 4. Costing/budget 5. Expected benefits	Oct 2019 End date Nov 2019	
4.3.2 Presentation of proposal to BOD for approval	Approved Final proposal	Start date Dec 2019 End date Dec 2019	
4.3.3 Submission of proposal	Approval of concept and budget	Start date Apr 2020 End date Apr 2020	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCC	Handicraft producers and retailers, NGOs, relevant government agencies

Action step (s)	Output (s)	Timeline	Resources required
4.3.4 Identify suitable project siting	Land identified, approved and purchased	Start date Jul 2021 End date Oct 2021	RM30 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	L&S	-

Action step (s)	Output (s)	Timeline	Resources required
4.3.5 Appointment of consultant(s)	Complete building plans, work schedule and BQ	Start date Jan 2022 End date Mar 2022	RM1 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	-

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.3.6 Tender processes	Award of tender	Start date: Apr 2022 End date: Sep 2022	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Tender Committee, JKR	-

Action step (s)	Output (s)	Timeline	Resources required
4.3.7 Construction, monitoring and evaluation	Periodic progress reports	Start date: Oct 2022 End date: Dec 2024	RM34 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, SCC	Appointed consultants, contractor

Action step (s)	Output (s)	Timeline	Resources required
4.3.8 Project / Site handover	Ensure site and building as per plan and requirements	Start date: Jan 2025 End date: Feb 2025	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, SCC	Appointed consultants, contractor, local authority

Action step (s)	Output (s)	Timeline	Resources required
4.3.9 Content development and occupancy	1. Handicraft products for display and sale in gallery 2. Fully operational	Start date: Jun 2024 End date: May 2025	

Project Owner	Implementing Agency	Other Stakeholders
SCC	SCC	R&DO, DTTGs, NGOs

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.3.10 Select tenants and collect rental	1. Tenancy agreement for 36 retail outlets 2. Revenue from rental RM100,000 monthly	Start date: Jan 2025 End date: May 2025	Legal framework for SCC

Project Owner	Implementing Agency	Other Stakeholders
SCC	SAGC, SCC	-

Action step (s)	Output (s)	Timeline	Resources required
4.3.11 Market and promote Arts and Handicrafts Centre Kuching	1. Marketing and promotional plans and materials 2. Scheduled annual activities lists 3. Tour Packages 4. 15,000 visitors monthly 5. RM5 million of annual sales of authentic Sarawak handicraft	Start date: May 2024 End date: Dec 2030	RM34 mil

Project Owner	Implementing Agency	Other Stakeholders
SCC	SCC, STB	Handicraft Communities, R&DO, DTTG, STF, Tour Agencies, STGA, NGOs, SCB, JMS, MSS, Kraftangan Malaysia

Action step (s)	Output (s)	Timeline	Resources required
4.3.12 Scheduled training programmes	100 participants trained annually	Start date: May 2025 End date: Dec 2030	
4.3.13 Monitoring and evaluation	• Scheduled report on sales, activities and visitors • Annual evaluation report and review on all programmes & activities	Start date: Jun 2025 End date: Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
SCC	SCC	Handicraft Communities, Kraftangan Malaysia

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.4a

Action step (s)	Output (s)	Timeline	Resources required
4.4a Restoration and upgrading of historical forts in Sarawak (restored forts)		Start date	2 staff, 1 security
4.4a.1 Handover of Fort Hose, Fort Lili, Fort Brooke and Fort Emma to Sarawak Museum Department	Handover of physical project to JMS in timely completion.	Jan 2021 End date Aug 2021	
4.4a.2 Appointment of exhibition designer for Fort Hose, Fort Lili, Fort Brooke and Fort Emma	Completed exhibition design and tender document for fabrication with clear work scope	Start date Aug 2021 End date Mar 2022	RM1 mil
4.4a.3 Appointment of contractor for exhibition fabrication and development for Fort Hose, Fort Lili, Fort Brooke and Fort Emma	Completed exhibition fabrication, installation and development.	Start date Apr 2022 End date Dec 2023	RM3 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.4a.4 Monitoring of design, fabrication and installation	As-scheduled progress and timely completion	Start date Aug 2021 End date Dec 2023	Monthly monitoring meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	JKR, R&DO, DTTG, NGOs, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.4a.5 Recruitment and training of staffs to Fort Sylvia, Fort Arundell, Fort Lio Mato, Fort Long Akah, Fort Charles, Fort Ranee and Fort Vyner.	To manage ticket collection, building maintenance and administration	Start date Sep 2023 End date Dec 2030	RM6,000 for training, 2 staff, 1 security

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.4a (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.4a.6 Opening to public	Local and international visitors. Target number of visitors by 2030: Fort Hose: 18,700 visitors Fort Lili: 5,000 visitors Fort Emma: 5,060 visitors. Fort Brooke: 2,000 visitors.	Start date Jan 2024 End date Feb 2024	2 staff / 1 security
4.4a.7 Project evaluation	Evaluate project impact and effectiveness/ meet the expectation	Start date Jan 2024 End date Mar 2024	Internal JMS staff
4.4a.8 Engagement with agencies (STB, SCB), learning institutions.	Seminars, conference, workshops, guided visits, product packaging	Start date Jan 2024 End date May 2024	Internal JMS staff

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.4a.9 Promotion	Domestic and international market, promotion through social media, etc.	Start date Jan 2024 End date May 2024	Internal JMS/STB staff
4.4a.10 Preparation of Fort Trail for submission to UNESCO	Set up Fort Trail committee to prepare dossier and relevant documents for submission to UNESCO	Start date Mar 2025 End date Dec 2025	Internal JMS staff

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS/STB	R&DO, DTTG, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.4b

Action step (s)	Output (s)	Timeline	Resources required
4.4b Restoration and upgrading of historical forts in Sarawak (unrestored forts)		Start date	2 staff, 1 security
4.4b.1 Handover of Fort Hose, Fort Lili, Fort Brooke and Fort Emma to Sarawak Museum Department and opening to public	Local and international visitors. Target number of visitors by 2030: Fort Hose: 18,700 visitors Fort Lili: 5,000 visitors Fort Emma: 5,060 visitors. Fort Brooke: 2,000 visitors	Jan 2024 End date Feb 2024	
4.4b.2 Appointing implementing agency for Fort Sylvia, Fort Arundell, Fort Lio Mato, Fort Long Akah, Fort Charles, Fort Ranee and Fort Vyner.	Appointment letter by MTAC	Start date Jan 2021	Internal MTAC
4.4b.3 Engagement session with stakeholder and local communities	Obtain opinion and buy-in from stakeholders and the public	End date	Internal JMS Internal JMS
4.4b.4 Siting, boundary identification, gazettement	A clear boundary of project site	Dec 2024	
4.4b.5 Appointing consultant for preparation of dilapidation report and CMP	Completed dilapidation report and CMP		RM10.5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	JKR, R&DO, DTTG, NGOs, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.4b.6 Appointing contractor for restoration and upgrading works	Completed restoration and upgrading works.	Start date Jan 2022 End date Dec 2024	RM35 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	JKR, R&DO, DTTG, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.4b (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.4b.7 Appointment of exhibition designer	Completed exhibition design and tender document for fabrication with clear work scope	Start date: Jan 2023 End date: Sep 2023	RM1 mil
4.4b.8 Appointment of contractor for exhibition fabrication and development	Completed exhibition fabrication, installation and development.	Start date: Oct 2023 End date: Dec 2024	RM3 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.4b.9 Monitoring of design, fabrication and installation	As-scheduled progress and timely completion	Start date: Jan 2021 End date: Dec 2024	Monthly monitoring meeting
4.4b.10 Recruitment and training of staffs to Fort Sylvia, Fort Arundell, Fort Lio Mato, Fort Long Akah, Fort Charles, Fort Ranee and Fort Vyner.	To manage ticket collection, building maintenance and administration	Start date: Oct 2024 End date: Dec 2024	RM6,000 for training, 2 staff, 1 security

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.4b.11 Handover of completed forts projects to Sarawak Museum Department and opening to public.	Local and international visitors. Targeted number of visitors for each forts are between 2,500 to 3,500 visitors by 2030.	Start date: Jan 2025 End date: Feb 2025	2 staff, 1 security

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.4b (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.4b.12 Project evaluation	Evaluate project impact and effectiveness / meet the expectation	Start date: Jan 2025 End date: Mar 2025	Internal JMS staff
4.4b.13 Engagement with agencies (STB, SCB), learning institutions.	Seminars, conference, workshops, guided visits, product packaging	Start date: Jan 2025 End date: May 2025	Internal JMS, STB staff

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.4b.14 Promotion	Domestic and international market, promotion through social media, etc.	Start date: Jan 2025 End date: May 2025	Internal JMS, STB staff

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGOs, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.4b.15 Preparation of Fort Trail for submission to UNESCO	Set up Fort Trail committee to prepare dossier and relevant documents for submission to UNESCO	Start date: Mar 2025 End date: Dec 2026	Internal JMS staff

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.5

Action step (s)	Output (s)	Timeline	Resources required
4.5 Santubong Archaeological Park & Wallace Centre		Start date	RM1 mil
4.5.1 Appointment of exhibition designer for Santubong Archaeological Park & Wallace Centre	Completed exhibition design and tender document for fabrication	Aug 2021 End date Mar 2022	
4.5.2 Engagement with stakeholders and local communities.	Obtain opinion and buy-in from stakeholders and the public	Start date Aug 2021 End date Mar 2022	Internal JMS
4.5.3 Appointment of contractor for exhibition fabrication and development	Completed exhibition fabrication, installation and development.	Start date Apr 2022 End date Dec 2023	RM3 mil
4.5.4 Monitoring of design, fabrication and installation	As-scheduled progress and timely completion	Start date Aug 2021 End date Dec 2023	Monthly monitoring meeting
4.5.5 Recruitment and training of staffs to SAP	To manage ticket collection, building maintenance and administration	Start date Sep 2023 End date Dec 2030	RM6,000 for training, 6 staff, 3 security
4.5.6 Handover SAP to Sarawak Museum Department and Open to Public	Local and international visitors. Target 97,460 visitors for year 2030 for SAP	Start date Jan 2024 End date Feb 2024	6 staff, 3 security
4.5.7 Project evaluation	Evaluate project impact and effectiveness/ meet the expectation	Start date Jan 2024 End date Mar 2024	Internal JMS staff

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.5.8 Engagement with agencies (STB, SCB), learning institutions.	Seminars, conference, workshops, guided visits, product packaging	Start date: Jan 2024 End date: May 2024	Internal JMS, STB staff

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.5.9 Promotion	Domestic and international market, promotion through social media, etc.	Start date: Jan 2024 End date: May 2024	Internal JMS, STB staff

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGOs, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.5.10 Preparation of SAP for submission to UNESCO	Set up SAP committee to prepare dossier and relevant documents for submission to UNESCO	Start date: Mar 2024 End date: Dec 2025	Internal JMS staff

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.6

Action step (s)	Output (s)	Timeline	Resources required
4.6 Dewan Budaya Warisan Batang Sadong, Kota Samarahan		Start date	Internal MTAC
4.6.1 Appointment of implementing agency	Appointment letter by MTAC	Jul 2021 End date Aug 2021	
4.6.2 Engagement with stakeholders and local communities	Obtain opinion and buy-in from stakeholders and the public	Start date Aug 2021 End date Sep 2021	Internal MPKS
4.6.3 Siting application	Identification of clear site boundary and condition/land acquisition	Start date Sep 2021 End date Mar 2022	Internal MPKS
4.6.4 Appointment of consultant	Conceptual design as per clients requirements and tender document	Start date Apr 2022 End date May 2022	RM1.5 mil
4.6.5 Appointment of contractor	Completion of project as per specifications	Start date Aug 2022 End date Dec 2022	RM12.5 mil
4.6.6 Project monitoring	Timely completion with minimal delays	Start date Jan 2023 End date Dec 2023	Monthly Monitoring Meeting
4.6.7 Staff recruitment and training	Handling daily operation of the facility including maintenance and upkeeping, and admin works	Start date Sep 2022 End date Oct 2022	Internal MPKS

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.6.8 Handover to MPKS	Comprehensive facility operation and management plan	Start date: Dec 2023 End date: Jan 2024	Internal MPKS

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS	R&DO, STF, TTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.6.9 Promotion	Collaboration with STB on promotional materials through brochures or videos, etc.	Start date: Jan 2024	Internal MPKS, STB
4.6.10 Engagement with agencies, NGOs, learning institutions	Introduction of new tourism product to industry players and inclusion in tour packages Guided visits by visitors from learning institutions	End date: Feb 2024	Internal MPKS

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.6.11 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	Start date: Dec 2024 End date: Feb 2025	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.7

Action step (s)	Output (s)	Timeline	Resources required
4.7 Transform Brooke Dockyard into Maritime Museum		Start date	RM3 mil
4.7.1 Appointment of exhibition designer for maritime museum	Completed exhibition design and tender document for fabrication with clear work scope	Jan 2021 End date Mar 2021	
4.7.2 Appointment of contractor for exhibition fabrication and development	Completed exhibition fabrication, installation and development.	Start date Apr 2021 End date Jul 2021	RM10 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.7.3 Monitoring of museum development and exhibition fabrication and installation	Timely completion	Start date Jan 2021 End date Dec 2022	Monthly Monitoring Meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.7.4 Recruitment and training of staffs to maritime museum	To manage ticket collection, building maintenance and administration	Start date Sep 2021 End date Nov 2021	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.7.5 Handover of maritime to Sarawak Museum Department and opening to public.	Local and international visitors	Start date: Jan 2023 End date: Feb 2023	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.7.6 Project evaluation	Project effectiveness and meet expectation. Data and satisfaction survey	Start date: Jan 2024 End date: Feb 2024	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.7.7 Engagement with agencies (STB, SCB), learning institutions, NGOs and other museums	Seminars, conference, workshops, guided visits	Start date: Mar 2023 End date: Apr 2023	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB, SCB	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.7.8 Promotion	Domestic and international market, promotion through social media	Start date: Mar 2023 End date: Apr 2023	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.8

Action step (s)	Output (s)	Timeline	Resources required
4.8 Establish Sarawak Museum Campus and Heritage Trails		Start date	RM2 mil
4.8.1 Appointment of exhibition designer	Completed exhibition design and tender document for fabrication with clear work scope	Aug 2021 End date Mar 2022	
4.8.2 Appointment of contractor for exhibition fabrication and development	Completed exhibition fabrication, installation and development.	Start date Apr 2022 End date Dec 2023	RM24 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.8.3 Monitoring of design, fabrication and installation	Timely completion	Start date Aug 2021 End date Dec 2023	Monthly Monitoring Meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.8.4 Recruitment and training of staffs to maritime museum	To manage ticket collection, building maintenance and administration	Start date Sep 2022 End date Nov 2022	RM10,000 for training, 10 staff, 3 security

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.8.5 Handover to Sarawak Museum Department and opening to public	Local and international visitors	Start date: Dec 2023 End date: Jan 2024	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.8.6 Evaluation and data collection	Project effectiveness	Start date: Dec 2024 End date: Jan 2025	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.8.7 Engagement with agencies (STB, SCB), learning institutions	Seminars, conference, workshops, guided visits	Start date: Jan 2024 End date: Feb 2024	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB, SCB	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.8.8 Promotion	Domestic and international market, promotion through social media	Start date: Feb 2024 End date: Mar 2024	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGOs, international organisations, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.9

Action step (s)	Output (s)	Timeline	Resources required
4.9 Muzium Pembangunan Limbang, Galeri Sejarah Pentadbiran Limbang		Start date	RM1 mil
4.9.1 Appointment of exhibition designer for Museum Limbang	Completed exhibition design and tender document for fabrication with clear work scope	Jan 2021 End date Mar 2021	
4.9.2 Appointment of contractor for exhibition fabrication and development	Completed exhibition fabrication, installation and development.	Start date Apr 2021 End date Jul 2022	RM5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.9.3 Monitoring of museum development and exhibition fabrication and installation	Timely completion	Start date Jan 2021 End date Jul 2022	Monthly Monitoring Meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.9.4 Recruitment and training of staffs to Museum Limbang	To manage ticket collection, building maintenance and administration	Start date Sep 2021 End date Nov 2021	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.9 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.9.5 Handover of Museum Limbang to Sarawak Museum Department and opening to public.	Local and international visitors	Start date: Aug 2022 End date: Sep 2022	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.9.6 Project evaluation	Project effectiveness and meet expectation. Data and satisfaction survey.	Start date: Nov 2023 End date: Dec 2023	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.9.7 Engagement with agencies (STB, SCB), learning institutions, NGOs and other museums	Seminars, conference, workshops, guided visits	Start date: Oct 2022 End date: Nov 2022	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB, SCB	R&DO, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
4.9.8 Promotion	Domestic and international market, promotion through social media	Start date: Oct 2022 End date: Nov 2022	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGOs, international organisations, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.10

Action step (s)	Output (s)	Timeline	Resources required
4.10 Transform Astana into a Museum		Start date	RM1.5 mil
4.10.1 Appointment of study consultant for dilapidation report, CMP and museum development	Term of reference. Buy in and opinions of stakeholders. Completed CMP report	Jan 2022 End date Feb 2022	
4.10.2 Undertaking of study and engagement with local communities, NGOs, study trip	Clear boundary and zoning, Infra and facilities needed, Visitor's flow, storyline and theme, Input from technical agencies	Start date Feb 2022 End date Mar 2022	Internal JMS
4.10.3 Monitoring of study and finalising recommendation for implementation	Completed study documents with recommendations	Start date Jan 2022 End date Dec 2022	Monthly Monitoring Meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.10.4 Appointment of consultant for physical development	Conceptual design as per study recommendation and clients requirements	Start date Jan 2023 End date Feb 2023	Internal JMS, JKR

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.10.5 Appointment of contractor for physical development	Construction as per conceptual design and specifications	Start date Jun 2023 End date Aug 2023	RM30 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.10 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.10.6 Appointment of ID Consultant for exhibition design	Conceptual design of exhibition and storyline development	Start date: Jun 2023 End date: Aug 2023	RM15 mil
4.10.7 Monitoring of construction and exhibition fabrication and installation	Timely completion of project with minimal delays	Start date: Jun 2023 End date: May 2025	Monthly Monitoring Meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.10.8 Promotion to build hype in social media	Collaboration with STB and on social media	Start date: Jan 2025 End date: Feb 2025	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.10.9 Recruitment and training of staffs	Staffs to handle the operation and maintenance of the museum including ticketing counter, upkeeping and admin work	Start date: Jan 2025 End date: Feb 2025	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.10 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.10.10 Engagement with STB, SCB, tour operators and industry players	Introduction to industry players and inclusion in tour packages	Start date: May 2025 End date: Jun 2025	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.10.11 Handover to Sarawak Museum Department and open to public	Comprehensive facility management and maintenance plan	Start date: May 2025 End date: Jun 2025	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.10.12 Engagement with NGOs, associations, learning institutions and other museum bodies	Guided visits from learning institutions. Collaboration with other museums for seasonal exhibitions	Start date: May 2025 End date: Jun 2025	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.10.13 Evaluation and data collection	Database on visitor statistics and satisfactory survey	Start date: Jun 2026 End date: Jul 2026	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.11

Action step (s)	Output (s)	Timeline	Resources required
4.11 Miri Cultural and Heritage Museum		Start date	RM1.5 mil
4.11.1 Appointment of study consultant for dilapidation report, CMP and museum development	Term of reference. Buy in and opinions of stakeholders. Completed CMP report	Jan 2022 End date Feb 2022	
4.11.2 Undertaking of study and engagement with local communities, NGOs, study trip	Clear boundary and zoning, Infra and facilities needed, Visitor's flow, storyline and theme, Input from technical agencies	Start date Feb 2022 End date Mar 2022	Internal JMS
4.11.3 Monitoring of study and finalising recommendation for implementation	Completed study documents with recommendations	Start date Jan 2022 End date Dec 2022	Monthly Monitoring Meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.11.4 Appointment of consultant for physical development	Conceptual design as per study recommendation and clients requirements	Start date Jan 2023 End date Feb 2023	Internal JMS, JKR

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MCC, JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.11.5 Appointment of contractor for physical development	Construction as per conceptual design and specifications	Start date Jun 2023 End date Aug 2023	RM30 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MCC	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.11 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.11.6 Appointment of ID Consultant for exhibition design	Conceptual design of exhibition and storyline development	Start date: Jun 2023 End date: Aug 2023	RM15 mil
4.11.7 Monitoring of construction and exhibition fabrication and installation	Timely completion of project with minimal delays	Start date: Jun 2023 End date: May 2025	Monthly Monitoring Meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MCC, JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.11.8 Promotion to build hype in social media	Collaboration with STB and on social media	Start date: Jan 2025 End date: Feb 2025	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.11.9 Recruitment and training of staffs	Staffs to handle the operation and maintenance of the museum including ticketing counter, upkeeping and admin work	Start date: Jan 2025 End date: Feb 2025	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.11 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.11.10 Engagement with STB, SCB, tour operators and industry players	Introduction to industry players and inclusion in tour packages	Start date: May 2025 End date: Jun 2025	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.11.11 Handover to Sarawak Museum Department and open to public	Comprehensive facility management and maintenance plan	Start date: May 2025 End date: Jun 2025	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO,D TTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.11.12 Engagement with NGOs, associations, learning institutions and other museum bodies	Guided visits from learning institutions. Collaboration with other museums for seasonal exhibitions	Start date: May 2025 End date: Jun 2025	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.11.13 Evaluation and data collection	Database on visitor statistics and satisfactory survey	Start date: Jun 2026 End date: Jul 2026	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.12

Action step (s)	Output (s)	Timeline	Resources required
4.12 Gold Mine Museum and Park		Start date	RM1 mil
4.12.1 Appointment of study consultant	Term of Reference	Sep 20202 End date Jul 2021	
4.12.2 Undertaking of study and engagement with local communities, NGOs, etc.	Buy in and opinions of stakeholders	Start date Sep 2020 End date Jul 2021	Internal Bau DC
4.12.3 Monitoring of study and finalising study recommendation for implementation	Clear boundary and zoning, Infra and facilities needed, Visitor's flow, storyline and theme, Input from technical agencies	Start date Sep 2020 End date Jul 2021	Monthly Monitoring Meeting
4.12.4 Appointment of consultant for physical development	Study documents with recommendations	Start date Jan 2023 End date Feb 2023	Internal Bau DC
4.12.5 Appointment of contractor for physical development	Construction as per conceptual design and specifications	Start date Jun 2023 End date Aug 2023	RM20 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Bau DC	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.12.6 Appointment of ID Consultant for exhibition design	Conceptual design of exhibition and storyline development	Start date Jun 2023 End date Aug 2023	RM5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Bau DC, JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.12 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.12.7 Monitoring of construction and exhibition fabrication and installation	Timely completion of project with minimal delays	Start date: Jun 2023 End date: May 2025	Monthly Monitoring Meeting
4.12.8 Promotion to build hype in social media	Collaboration with STB and on social media	Start date: Jan 2025 End date: Feb 2025	Internal Bau DC, STB
4.12.9 Recruitment and training of staffs	Staffs to handle the operation and maintenance of the museum including ticketing counter, upkeeping and admin work	Start date: Jan 2025 End date: Feb 2025	Internal Bau DC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Bau DC	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.12.10 Engagement with STB, SCB, tour operators and industry players	Introduction to industry players and inclusion in tour packages	Start date: May 2025 End date: Jun 2025	Internal Bau DC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Bau DC, JMS, STB, SCB	R&DO,D TTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.12.11 Handover to Sarawak Bau DC and open to public	Comprehensive facility management and maintenance plan	Start date: May 2025 End date: Jun 2025	Internal Bau DC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Bau DC, JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.12 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.12.12 Engagement with NGOs, associations, learning institutions and other museum bodies	Guided visits from learning institutions, Collaboration with other museum for seasonal exhibitions	Start date: May 2025 End date: Jun 2025	Internal Bau DC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Bau DC, STB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.12.13 Evaluation and data collection	Database on visitor statistics and satisfactory survey	Start date: Jun 2026 End date: Jul 2026	Internal Bau DC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Bau DC	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.13

Action step (s)	Output (s)	Timeline	Resources required
4.13 Bintulu Museum		Start date	Internal BDA
4.13.1 Engagement with stakeholders, local communities, NGOs, associations	Opinions and buy in from stakeholders, Client requirements	Jan 2021 End date Feb 2021	
4.13.2 Appointment of consultant for physical development	Concept design as per study recommendations and client requirements	Start date Feb 2021 End date Mar 2021	RM2 mil
4.13.3 Appointment of contractor for physical development	Completion of project as per conceptual design and specifications	Start date Jan 2022 End date Mar 2022	RM80 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	BDA	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.13.4 Appointment of ID Consultant for exhibition design	Completed exhibition design and content development, ready for fabrication	Start date Sep 2022 End date Oct 2022	RM2 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	BDA, JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.13.5 Monitoring of construction and exhibition fabrication and installation	Timely completion of construction and exhibition with minimal delays	Start date Jan 2022 End date Dec 2024	Monthly Monitoring Meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	BDA, JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.13 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.13.6 Promotion to build hype in social media	Collaboration with STB on promotion through brochures, social media, etc.	Start date: Jan 2025 End date: Feb 2025	Internal BDA, JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	BDA, JMS, STB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.13.7 Recruitment and training of staffs	To manage ticket collection, building maintenance and upkeeping, and administration	Start date: Jun 2024 End date: Jul 2024	Internal BDA, JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	BDA, JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.13.8 Engagement with STB, SCB, tour operators Industry players	Introduction to industry players and inclusion in tour packages	Start date: Jan 2025 End date: Feb 2025	Internal BDA, JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	BDA, JMS, STB, SCB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.13.9 Handover to Sarawak Museum Department/BDA and open to public	Comprehensive facility management and maintenance plan	Start date: Jan 2025 End date: Feb 2025	Internal BDA, JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	BDA, JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.13 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.13.10 Engagement with NGOs, associations, learning institutions and other museum bodies	Guided visits from learning institutions, Collaboration with other museums for seasonal exhibitions	Start date: Jan 2025 End date: Feb 2025	Internal BDA, JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.13.11 Evaluation and data collection	Database on visitor statistics and satisfactory survey	Start date: Dec 2025 End date: Jan 2026	Internal BDA, JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.14

Action step (s)	Output (s)	Timeline	Resources required
4.14 Transform Muzium Tekstil Sarawak into Kuching City Museum		Start date	RM1.5 mil
4.14.1 Appointment of study consultant for dilapidation report, CMP and museum development	Term of reference Buy in and opinions of stakeholders Completed CMP report	Jan 2022 End date Feb 2022	
4.14.2 Undertaking of study and engagement with local communities, NGOs, study trip	Clear boundary and zoning Infra and facilities needed Visitor's flow, storyline and theme Input from technical agencies	Start date Feb 2022 End date Mar 2022	Internal JMS
4.14.3 Monitoring of study and finalising recommendation for implementation	Completed study documents with recommendations	Start date Jan 2022 End date Dec 2022	Monthly Monitoring Meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.14.4 Appointment of consultant for physical development	Conceptual design as per study recommendation and clients requirements	Start date Jan 2023 End date Feb 2023	Internal JMS, JKR

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.14.5 Appointment of contractor for physical development	Construction as per conceptual design and specifications	Start date Jun 2023 End date Aug 2023	RM30 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.14 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.14.6 Appointment of ID Consultant for exhibition design	Conceptual design of exhibition and storyline development	Start date: Jun 2023 End date: Aug 2023	RM15 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.14.7 Monitoring of construction and exhibition fabrication and installation	Timely completion of project with minimal delays	Start date: Jun 2023 End date: May 2025	Monthly Monitoring Meeting

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.14.8 Promotion to build hype in social media	Collaboration with STB and on social media	Start date: Jan 2025 End date: Feb 2025	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.14.9 Recruitment and training of staffs	Staffs to handle the operation and maintenance of the museum including ticketing counter, upkeeping and admin work	Start date: Jan 2025 End date: Feb 2025	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.14 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.14.10 Engagement with STB, SCB, tour operators and industry players	Introduction to industry players and inclusion in tour packages	Start date: May 2025 End date: Jun 2025	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.14.11 Handover to Sarawak Museum Department and open to public	Comprehensive facility management and maintenance plan	Start date: May 2025 End date: Jun 2025	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.14.12 Engagement with NGOs, associations, learning institutions and other museum bodies	Guided visits from learning institutions. Collaboration with other museums for seasonal exhibitions	Start date: May 2025 End date: Jun 2025	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.14.13 Evaluation and data collection	Database on visitor statistics and satisfactory survey	Start date: Jun 2026 End date: Jul 2026	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.15

Action step (s)	Output (s)	Timeline	Resources required
4.15 Akuarium Jabatan Muzium Sarawak		Start date	RM1.5 mil
4.15.1 Appointment of exhibition designer and animal specialist	Completed exhibition design and tender document for fabrication with clear work scope	Jan 2026 End date Feb 2026	
4.15.2 Appointment of contractor for exhibition fabrication and development for	Completed exhibition fabrication, installation and development.	Start date Aug 2026 End date Sep 2026	RM5 mil
4.15.3 Monitoring of design, fabrication and installation, animal acquisition for exhibition	Timely completion	Start date Sep 2026 End date Aug 2027	Monthly Monitoring Meeting
4.15.4 Recruitment and training of staffs including animal caretaker, veterinarian	To manage ticket collection, building maintenance and administration, animal welfare	Start date Jun 2027 End date Jul 2027	Internal JMS
4.15.5 Handover to Sarawak Museum Department and opening to public	Local and international visitors	Start date Sep 2027 End date Oct 2027	Internal JMS
4.15.6 Evaluation and data collection	Project effectiveness	Start date Oct 2028 End date Nov 2028	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.15 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.15.7 Engagement with agencies (STB, SCB), learning institutions, industry players, etc.	Seminars, conference, workshops, guided visits	Start date: Oct 2027 End date: Nov 2027	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB, SCB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.15.8 Promotion	Domestic and international market, promotion through social media	Start date: Oct 2027 End date: Nov 2027	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.16

Action step (s)	Output (s)	Timeline	Resources required
4.16 Preliminary Study of Malay Heritage Museum at Darul Hana Project		Start date	RM1.5 mil
4.16.1 Appointment of study consultant	Term of Reference, Buy in and opinions of stakeholders	Jan 2021	
		End date	
		Feb 2021	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	LCDA	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.16.2 Undertaking of study and engagement with local communities, NGOs, etc.	Clear boundary and zoning Infra and facilities needed Visitor's flow, storyline and theme Input from technical agencies	Start date	Internal JMS
		Feb 2021	
		End date	
		Mar 2021	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	LCDA, JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.16.3 Monitoring of study and finalising study recommendation for implementation	Study documents with recommendations	Start date	Monthly Monitoring Meeting
		Jan 2021	
		End date	
		Dec 2021	
4.16.4 Appointment of consultant for physical development	Conceptual design as per study recommendation and clients requirements	Start date	Internal JMS, JKR
		Jan 2023	
		End date	
		Feb 2023	
4.16.5 Appointment of contractor for physical development	Construction as per conceptual design and specifications	Start date	RM30 mil
		Jun 2023	
		End date	
		Aug 2023	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	LCDA	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.16 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.16.6 Appointment of ID Consultant for exhibition design	Conceptual design of exhibition and storyline development	Start date: Jun 2023 End date: Aug 2023	RM15 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	LCDA, JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.16.7 Monitoring of construction and exhibition fabrication and installation	Timely completion of project with minimal delays	Start date: Jun 2023 End date: May 2025	Monthly Monitoring Meeting
4.16.8 Promotion to build hype in social media	Collaboration with STB and on social media	Start date: Jan 2025 End date: Feb 2025	Internal JMS, STB
4.16.9 Recruitment and training of staffs	Staffs to handle the operation and maintenance of the museum including ticketing counter, upkeeping and admin work	Start date: Jan 2025 End date: Feb 2025	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	LCDA	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.16.10 Engagement with STB, SCB, tour operators and industry players	Introduction to industry players and inclusion in tour packages	Start date: May 2025 End date: Jun 2025	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	LCDA, JMS, STB, SCB	R&DO, DTTG, NGO, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	4. Conservation and upgrading of cultural and heritage products and assets (cont'd)
Action step	:	4.16 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
4.16.11 Handover to Sarawak Museum Department and open to public	Comprehensive facility management and maintenance plan	Start date: May 2025 End date: Jun 2025	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	LCDA, JMS	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.16.12 Engagement with NGOs, associations, learning institutions and other museum bodies	Guided visits from learning institutions. Collaboration with other museum for seasonal exhibitions	Start date: May 2025 End date: Jun 2025	Internal JMS, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS, STB	R&DO, DTTG, NGO, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
4.16.13 Evaluation and data collection	Database on visitor statistics and satisfactory survey	Start date: Jun 2026 End date: Jul 2026	Internal JMS

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	R&DO, DTTG, NGO, STF, industry players

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	5. Development of urban heritage tourism products and assets

Initiative	Desired Outcome (s)
5.1 Rejuvenation of Kuching Waterfront and its surrounding area	**Economic Prosperity** • Increase in average length of stay from 5.5 days to 7.5 days. • 120 number of business operator at urban tourism spot through restaurant & café/kiosk/push cart/vending machine, etc. • RM110,000.00 cumulative rental income. • 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	• RM12 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DBKU	STB, industry players, local authorities, local communities

Initiative	Desired Outcome (s)
5.2 Samarahan Boulevard	**Economic Prosperity** • Increase in average length of stay from 5.5 days to 7.5 days. • 120 number of business operator at urban tourism spot through restaurant & café/kiosk/push cart/vending machine, etc. • RM110,000.00 cumulative rental income. • 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	• RM25 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MPKS	STB, industry players, local authorities, local communities

Initiative	Desired Outcome (s)
5.3 Redevelopment of disused Ferry Point at Kota Samarahan	**Economic Prosperity** • Increase in average length of stay from 5.5 days to 7.5 days. • 120 number of business operator at urban tourism spot through restaurant & café/kiosk/push cart/vending machine, etc. • RM110,000.00 cumulative rental income. • 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	• RM35.6 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MPKS	STB, industry players, local authorities, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	5. Development of urban heritage tourism products and assets (cont'd)

Initiative	Desired Outcome (s)
5.4 Sadong Jaya Iconic Tower	**Economic Prosperity** • Increase in average length of stay from 5.5 days to 7.5 days. • 120 number of business operator at urban tourism spot through restaurant & café/kiosk/push cart/vending machine, etc. • RM110,000.00 cumulative rental income. • 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	• RM10 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MPKS	STB, industry players, local authorities, local communities

Initiative	Desired Outcome (s)
5.5 Beautification of Tourism Facilities in Pengkalan Sapi and its surroundings	**Economic Prosperity** • Increase in average length of stay from 5.5 days to 7.5 days. • 120 number of business operator at urban tourism spot through restaurant & café/kiosk/push cart/vending machine, etc. • RM110,000.00 cumulative rental income. • 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	• RM2 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DBKU	STB, industry players, local authorities, local communities

Initiative	Desired Outcome (s)
5.6 Linkway and Railing from Fort Margherita to Golden Bridge, Kuching	**Economic Prosperity** • Increase in average length of stay from 5.5 days to 7.5 days. • 120 number of business operator at urban tourism spot through restaurant & café/kiosk/push cart/vending machine, etc. • RM110,000.00 cumulative rental income. • 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	• RM5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DBKU	STB, industry players, local authorities, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	5. Development of urban heritage tourism products and assets
Action step	:	5.1

Action step (s)	Output (s)	Timeline	Resources required
5.1 Rejuvenation of Kuching Waterfront and its surrounding area		Start date	Internal MTAC
5.1.1 Appointment of implementing agency	Appointment letter by MTAC	Jul 2021 End date Aug 2021	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DBKU	STB, industry players, local communities

Action step (s)	Output (s)	Timeline	Resources required
5.1.2 Appointment of consultant for study and engagement with stakeholders	• Terms of Reference (TOR) • Clear boundary and zoning, • Concept for every zone, • Infra and facilities needed • Visitors' flow • Input from technical agencies • Buy in and opinions of stakeholders & local communities	Start date Aug 2021 End date Sep 2021	RM1 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DBKU	STB, industry players, local communities, NREB, SRB, SEB, KWB, JMS, DID, L&S, STB, STF

Action step (s)	Output (s)	Timeline	Resources required
5.1.3 Monitoring of study progress	Timely completion of study with recommendation	Start date Sep 2021 End date Mar 2022	Monthly Monitoring Meeting
5.1.4 Appointment of consultant for physical development	Concept design as per study recommendations and clients requirements	Start date Apr 2022 End date May 2022	RM1 mil

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	5. Development of urban heritage tourism products and assets (cont'd)
Action step	:	5.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
5.1.5 Appointment of contractor	Construction as per concept design and specifications	Start date: Aug 2022 End date: Dec 2022	RM10 mil
5.1.6 Monitoring of physical development	Timely completion of physical development & renovation	Start date: Jan 2023 End date: May 2024	Monthly monitoring meeting
5.1.7 Handover to DBKU and open to public	Completed projects with proper documentation on assets record	Start date: May 2024 End date: Jun 2024	Internal DBKU
5.1.8 Promotion	Collaboration with STB on promotional plan	Start date: Jun 2024 End date: Jul 2024	Internal DBKU, STB
5.1.9 Facilities management (outsourcing or recruitment and training of new staffs)	A comprehensive facilities management plan with sufficient manpower and resources	Start date: Apr 2024 End date: May 2024	Internal DBKU
5.1.10 Evaluation	Statistics on visitors and satisfactory survey - output from AIP level 1	Start date: Dec 2024 End date: Feb 2025	Internal DBKU

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DBKU	STB, industry players, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	5. Development of urban heritage tourism products and assets
Action step	:	5.2

Action step (s)	Output (s)	Timeline	Resources required
5.2 Samarahan Boulevard		Start date	Internal MTAC
5.2.1 Appointment of implementing agency	Appointment letter by MTAC	Jul 2021 End date Aug 2021	
5.2.2 Engagement with stakeholders and local communities	Obtain opinion and buy-in from stakeholders and the public Identify requirement and work scope	Start date Aug 2021 End date Sep 2021	Internal MPKS
5.2.3 Siting application	Identification of clear site boundary and condition/land acquisition	Start date Sep 2021 End date Mar 2022	Internal MPKS
5.2.4 Appointment of consultant	Conceptual design as per clients requirements and tender document	Start date Apr 2022 End date May 2022	RM1.5 mil
5.2.5 Appointment of contractor	Completion of project as per specifications	Start date Aug 2022 End date Dec 2022	RM12.5 mil
5.2.6 Project monitoring	Timely completion with minimal delays	Start date Jan 2023 End date Dec 2023	Monthly Monitoring Meeting
5.2.7 Staff recruitment and training	Handling daily operation of the facility including maintenance and upkeeping, and admin works	Start date Sep 2022 End date Oct 2022	Internal MPKS

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	5. Development of urban heritage tourism products and assets
Action step	:	5.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
5.2.8 Handover to MPKS	Comprehensive facility operation and management plan	Start date Dec 2023 End date Jan 2024	Internal MPKS

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
5.2.9 Promotion	Collaboration with STB on promotional materials through brochures or videos, etc.	Start date Jan 2024 End date Feb 2024	Internal MPKS, STB
5.2.10 Engagement with agencies, NGOs, learning institutions	Introduction of new tourism product to industry players and inclusion in tour packages, Guided visits by visitors from learning institutions	Start date Jan 2024 End date Feb 2024	Internal MPKS

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
5.2.11 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	Start date Dec 2024 End date Feb 2025	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	5. Development of urban heritage tourism products and assets
Action step	:	5.3

Action step (s)	Output (s)	Timeline	Resources required
5.3 Redevelopment of Disused Ferry Point at Kota Samarahan		Start date	Internal MTAC
5.3.1 Appointment of implementing agency	Appointment letter by MTAC	Jul 2021 End date Aug 2021	
5.3.2 Engagement with stakeholders and local communities	Obtain opinion and buy-in from stakeholders and the public Identify requirement and work scope	Start date Aug 2021 End date Sep 2021	Internal MPKS
5.3.3 Siting application	Identification of clear site boundary and condition/land acquisition	Start date Sep 2021 End date Mar 2022	Internal MPKS
5.3.4 Appointment of consultant	Conceptual design as per clients requirements and tender document	Start date Apr 2022 End date May 2022	RM1.5 mil
5.3.5 Appointment of contractor	Completion of project as per specifications	Start date Aug 2022 End date Dec 2022	RM12.5 mil
5.3.6 Project monitoring	Timely completion with minimal delays	Start date Jan 2023 End date Dec 2023	Monthly Monitoring Meeting
5.3.7 Staff recruitment and training	Handling daily operation of the facility including maintenance and upkeeping, and admin works	Start date Sep 2022 End date Oct 2022	Internal MPKS

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	5. Development of urban heritage tourism products and assets
Action step	:	5.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
5.3.8 Handover to MPKS	Comprehensive facility operation and management plan	Start date Dec 2023 End date Jan 2024	Internal MPKS

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
5.3.9 Promotion	Collaboration with STB on promotional materials through brochures or videos, etc.	Start date Jan 2024 End date Feb 2024	Internal MPKS, STB
5.3.10 Engagement with agencies, NGOs, learning institutions	Introduction of new tourism product to industry players and inclusion in tour packages, Guided visits by visitors from learning institutions	Start date Jan 2024 End date Feb 2024	Internal MPKS

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
5.3.11 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	Start date Dec 2024 End date Feb 2025	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	5. Development of urban heritage tourism products and assets
Action step	:	5.4

Action step (s)	Output (s)	Timeline	Resources required
5.4 Sadong Jaya Iconic Tower		Start date	Internal MTAC
5.4.1 Appointment of implementing agency	Appointment letter by MTAC	Jul 2021 End date Aug 2021	
5.4.2 Engagement with stakeholders and local communities	Obtain opinion and buy-in from stakeholders and the public Identify requirement and work scope	Start date Aug 2021 End date Sep 2021	Internal MPKS
5.4.3 Siting application	Identification of clear site boundary and condition/land acquisition	Start date Sep 2021 End date Mar 2022	Internal MPKS
5.4.4 Appointment of consultant	Conceptual design as per clients requirements and tender document	Start date Apr 2022 End date May 2022	RM1.5 mil
5.4.5 Appointment of contractor	Completion of project as per specifications	Start date Aug 2022 End date Dec 2022	RM12.5 mil
5.4.6 Project monitoring	Timely completion with minimal delays	Start date Jan 2023 End date Dec 2023	Monthly Monitoring Meeting
5.4.7 Staff recruitment and training	Handling daily operation of the facility including maintenance and upkeeping, and admin works	Start date Sep 2022 End date Oct 2022	Internal MPKS

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	5. Development of urban heritage tourism products and assets
Action step	:	5.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
5.4.8 Handover to MPKS	Comprehensive facility operation and management plan	Start date Dec 2023 End date Jan 2024	Internal MPKS

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
5.4.9 Promotion	Collaboration with STB on promotional materials through brochures or videos, etc.	Start date Jan 2024 End date Feb 2024	Internal MPKS, STB
5.4.10 Engagement with agencies, NGOs, learning institutions	Introduction of new tourism product to industry players and inclusion in tour packages, Guided visits by visitors from learning institutions	Start date Jan 2024 End date Feb 2024	Internal MPKS

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
5.4.11 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	Start date Dec 2024 End date Feb 2025	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC, IRSDA	MPKS	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	5. Development of urban heritage tourism products and assets
Action step	:	5.5

Action step (s)	Output (s)	Timeline	Resources required
5.5 Beautification of Tourism Facilities in Pengkalan Sapi and its Surrounding		Start date	Internal DBKU
5.5.1 Siting and land acquisition	A clear boundary of project site, Acquisition and compensation of land (if required)	Jan 2021 End date Dec 2021	
5.5.2 Monitoring of physical development	Timely completion of project with minimal delay	Start date Jan 2021 End date Dec 2021	Monthly Monitoring Meeting
5.5.3 Handover to DBKU	A comprehensive facilities management plan with sufficient manpower and resources	Start date Dec 2021 End date Jan 2022	Internal DBKU

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DBKU	MLGH, STB, STF, industry player, local communities

Action step (s)	Output (s)	Timeline	Resources required
5.5.4 Promotion	Domestic and international market, promotion through social media	Start date Feb 2022 End date Mar 2022	Internal DBKU, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DBKU, STB	MLGH, STB, STF, industry player, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	5. Development of urban heritage tourism products and assets
Action step	:	5.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
5.5.5 Facilities management (outsourcing or recruitment and training of new staffs)	To manage ticket collection, rental, building maintenance and administration	**Start date** Feb 2022 **End date** Mar 2022	Internal DBKU
5.5.6 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	**Start date** Dec 2023 **End date** Jan 2024	Internal DBKU

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DBKU	MLGH, STB, STF, industry player, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	5. Development of urban heritage tourism products and assets
Action step	:	5.6

Action step (s)	Output (s)	Timeline	Resources required
5.6 Linkway and Railing from Fort Margherita to Golden Bridge, Kuching		Start date	Internal DBKU
5.6.1 Siting and land acquisition	A clear boundary of project site, Acquisition and compensation of land (if required)	Jan 2021 End date Dec 2021	
5.6.2 Monitoring of physical development	Timely completion of project with minimal delay	Start date Jan 2021 End date Dec 2021	Monthly Monitoring Meeting
5.6.3 Handover to DBKU	A comprehensive facilities management plan with sufficient manpower and resources	Start date Dec 2021 End date Jan 2022	Internal DBKU

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DBKU	MLGH, STB, STF, industry player, local communities

Action step (s)	Output (s)	Timeline	Resources required
5.6.4 Promotion	Domestic and international market, promotion through social media	Start date Feb 2022 End date Mar 2022	Internal DBKU, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DBKU, STB	MLGH, STB, STF, industry player, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	5. Development of urban heritage tourism products and assets
Action step	:	5.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
5.6.5 Facilities management (outsourcing or recruitment and training of new staffs)	To manage ticket collection, rental, building maintenance and administration	**Start date** Feb 2022 **End date** Mar 2022	Internal DBKU
5.6.6 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	**Start date** Dec 2023 **End date** Jan 2024	Internal DBKU

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DBKU	MLGH, STB, STF, industry player, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	6. Development and upgrading of ecotourism products and assets

Initiative	Desired Outcome (s)
6.1 Develop, upgrade and improve tourism facilities at Gua Gunung Silabur.	**Economic Prosperity** • Increase in average length of stay from 5.5 days to 7.5 days. • 30 business operator in ecotourism spots offering F&B or souvenir or rental of equipments. • 276,492 cumulative visitors by 2030 • RM6 mil income generated by 2030 through guide fee, entrance fee, and other services offered through ecotourism supply chain • 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	• RM2.2 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MD Serian	STB, industry players, local authorities, local communities

Initiative	Desired Outcome (s)
6.2 Develop, upgrade and improve tourism facilities at Air Terjun Melasak, Lawas	**Economic Prosperity** • Increase in average length of stay from 5.5 days to 7.5 days. • 30 business operator in ecotourism spots offering F&B or souvenir or rental of equipments. • 276,492 cumulative visitors by 2030 • RM6 mil income generated by 2030 through guide fee, entrance fee, and other services offered through ecotourism supply chain • 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	• RM1 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MD Lawas	STB, industry players, local authorities, local communities

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period. *(Initiatives 6.1-6.12)*

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)

Initiative	Desired Outcome (s)
6.3 Develop, upgrade and improve tourism facilities at Wind and Fairy Cave	**Economic Prosperity** ● Increase in average length of stay from 5.5 days to 7.5 days. ● 30 business operator in ecotourism spots offering F&B or souvenir or rental of equipments. ● 276,492 cumulative visitors by 2030 ● RM6 mil income generated by 2030 through guide fee, entrance fee, and other services offered through ecotourism supply chain ● 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM12 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	STB, industry players, local authorities, local communities

Initiative	Desired Outcome (s)
6.4 Develop, upgrade and improve tourism facilities at Sadong Jaya Mangrove	**Economic Prosperity** ● Increase in average length of stay from 5.5 days to 7.5 days. ● 30 business operator in ecotourism spots offering F&B or souvenir or rental of equipments. ● 276,492 cumulative visitors by 2030 ● RM6 mil income generated by 2030 through guide fee, entrance fee, and other services offered through ecotourism supply chain ● 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM15 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	STB, industry players, local authorities, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)

Initiative	Desired Outcome (s)
6.5 Tourism facilities at Santubong National Park	**Economic Prosperity** ● Increase in average length of stay from 5.5 days to 7.5 days. ● 30 business operator in ecotourism spots offering F&B or souvenir or rental of equipments. ● 276,492 cumulative visitors by 2030 ● RM6 mil income generated by 2030 through guide fee, entrance fee, and other services offered through ecotourism supply chain ● 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM3 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	STB, industry players, local authorities, local communities

Initiative	Desired Outcome (s)
6.6 Establish and develop Discovery Centre for Totally Protected Areas (TPAs) in Lundu and Sematan	**Economic Prosperity** ● Increase in average length of stay from 5.5 days to 7.5 days. ● 30 business operator in ecotourism spots offering F&B or souvenir or rental of equipments. ● 276,492 cumulative visitors by 2030 ● RM6 mil income generated by 2030 through guide fee, entrance fee, and other services offered through ecotourism supply chain ● 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM55 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	STB, industry players, local authorities, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)

Initiative	Desired Outcome (s)
6.7 Ecotourism Complex at Gunung Ngeli Simunjan	**Economic Prosperity** ● Increase in average length of stay from 5.5 days to 7.5 days. ● 30 business operator in ecotourism spots offering F&B or souvenir or rental of equipments. ● 276,492 cumulative visitors by 2030 ● RM6 mil income generated by 2030 through guide fee, entrance fee, and other services offered through ecotourism supply chain ● 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM40 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MD Simunjan	STB, industry players, local authorities, local communities

Initiative	Desired Outcome (s)
6.8 Gunung Lesong Ecotourism Complex	**Economic Prosperity** ● Increase in average length of stay from 5.5 days to 7.5 days. ● 30 business operator in ecotourism spots offering F&B or souvenir or rental of equipments. ● 276,492 cumulative visitors by 2030 ● RM6 mil income generated by 2030 through guide fee, entrance fee, and other services offered through ecotourism supply chain ● 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM25 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, SFC, MD Sri Aman	STB, industry players, local authorities, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)

Initiative	Desired Outcome (s)
6.9 Batang Ai Ecotourism Complex	**Economic Prosperity** ● Increase in average length of stay from 5.5 days to 7.5 days. ● 30 business operator in ecotourism spots offering F&B or souvenir or rental of equipments. ● 276,492 cumulative visitors by 2030 ● RM6 mil income generated by 2030 through guide fee, entrance fee, and other services offered through ecotourism supply chain ● 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM25 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, SFC, MD Lubok Antu	STB, industry players, local authorities, local communities

Initiative	Desired Outcome (s)
6.10 Tourism Facilities at Waterfalls	**Economic Prosperity** ● Increase in average length of stay from 5.5 days to 7.5 days. ● 30 business operator in ecotourism spots offering F&B or souvenir or rental of equipments. ● 276,492 cumulative visitors by 2030 ● RM6 mil income generated by 2030 through guide fee, entrance fee, and other services offered through ecotourism supply chain ● 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2023	Dec 2030	● RM100 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC, PBT	STB, industry players, local authorities, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)

Initiative	Desired Outcome (s)
6.11 Tourism Facilities at Lumpur Bebuak at Meritam, Limbang	**Economic Prosperity** ● Increase in average length of stay from 5.5 days to 7.5 days. ● 30 business operator in ecotourism spots offering F&B or souvenir or rental of equipments. ● 276,492 cumulative visitors by 2030 ● RM6 mil income generated by 2030 through guide fee, entrance fee, and other services offered through ecotourism supply chain ● 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM2 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MD Limbang	STB, industry players, local authorities, local communities

Initiative	Desired Outcome (s)
6.12 Niah N.P. as a recognised UNESCO World Heritage Site	**Economic Prosperity** ● Increase in average length of stay from 5.5 days to 7.5 days. ● 30 business operator in ecotourism spots offering F&B or souvenir or rental of equipments. ● 276,492 cumulative visitors by 2030 ● RM6 mil income generated by 2030 through guide fee, entrance fee, and other services offered through ecotourism supply chain ● 25% of job creation in tourism and hospitality sector

Timeline		Resources Required
Start Date	End Date	
Jan 2020	Dec 2030	● RM0.5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	STB, industry players, local authorities, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)

Initiative	Desired Outcome (s)
6.13 Formulation of management plan for Totally Protected Area (National Park / Nature Reserve / Wildlife Sanctuary) and tourism management plan	**Economic Prosperity** ● 30 Management Plans for Totally Protected Area by year 2030 (existing 19), still valid – 7, expired – 12

Timeline		Resources Required
Start Date	End Date	
Jan 2023	Dec 2030	● RM22.5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	STB, industry players, local authorities, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets
Action step	:	6.1

Action step (s)	Output (s)	Timeline	Resources required
6.1 Develop, upgrade and improve tourism facilities at Gua Gunung Silabur		Start date	Internal MTAC
6.1.1 Appointment of implementing agency	Appointment letter by MTAC	Jul 2021 End date Aug 2021	
6.1.2 Engagement with stakeholders and local communities	Obtain opinion and buy-in from stakeholders and the public Identify requirement and work scope	Start date Aug 2021 End date Sep 2021	Internal MD Serian
6.1.3 Siting application	Identification of clear site boundary and condition/land acquisition	Start date Sep 2021 End date Mar 2022	Internal MD Serian
6.1.4 Appointment of consultant	Conceptual design as per clients requirements and tender document	Start date Apr 2022 End date May 2022	RM0.4 mil
6.1.5 Appointment of contractor	Completion of project as per specifications	Start date Aug 2022 End date Dec 2022	RM1.6 mil
6.1.6 Project monitoring	Timely completion with minimal delays	Start date Jan 2023 End date Dec 2023	Monthly Monitoring Meeting
6.1.7 Handover to Majlis Daerah Serian	Comprehensive facility management and maintenance plan	Start date Dec 2023 End date Jan 2024	Internal MD Serian

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Majlis Daerah Serian	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.1.8 Promotion	Collaboration with STB on promotion through brochures, videos, social media, etc.	Start date Jan 2024 End date Feb 2024	Internal MD Serian, STB
6.1.9 Engagement with agencies, NGOs, learning institutions	To be included in tourism package ● Number of visits from school / IPT ● Number of tourism package	Start date Jan 2024 End date Feb 2024	Internal MD Serian

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Majlis Daerah Serian, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.1.10 Evaluation	Database on visitor statistics and satisfactory survey	Start date Dec 2024 End date Feb 2025	Internal MD Serian

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Majlis Daerah Serian	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.2

Action step (s)	Output (s)	Timeline	Resources required
6.2 Develop, upgrade and improve tourism facilities at Air Terjun Melasak, Lawas		Start date	Internal MTAC
6.2.1 Appointment of implementing agency	Appointment letter by MTAC	Jul 2021 End date Aug 2021	
6.2.2 Engagement with stakeholders and local communities	Obtain opinion and buy-in from stakeholders and the public Identify requirement and work scope	Start date Aug 2021 End date Sep 2021	Internal MD Lawas
6.2.3 Siting application	Identification of clear site boundary and condition/land acquisition	Start date Sep 2021 End date Mar 2022	Internal MD Lawas
6.2.4 Appointment of consultant	Conceptual design and completed tender documents (if necessarily)	Start date Apr 2022 End date May 2022	RM0.1 mil
6.2.5 Appointment of contractor	Completion of project as per specifications	Start date Aug 2022 End date Dec 2022	RM0.9 mil
6.2.6 Project monitoring	Timely completion with minimal delays	Start date Jan 2023 End date Dec 2023	Monthly Monitoring Meeting
6.2.7 Handover to Majlis Daerah Lawas	Number of visitors and a comprehensive facility management plan from Majlis Daerah Lawas	Start date Dec 2023 End date Jan 2024	Internal MD Lawas

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Majlis Daerah Lawas	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.2.8 Promotion	Collaboration with STB on promotion through brochures, videos, social media, etc.	Start date Jan 2024 End date Feb 2024	Internal MD Lawas, STB
6.2.9 Engagement with agencies, NGOs, learning institutions	To be included in tourism package ● Number of visits from school / IPT ● Number of tourism package	Start date Jan 2024 End date Feb 2024	Internal MD Lawas

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Majlis Daerah Lawas, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.2.10 Evaluation	Database on visitor statistics and satisfactory survey	Start date Dec 2024 End date Feb 2025	Internal MD Lawas

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Majlis Daerah Lawas	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.3

Action step (s)	Output (s)	Timeline	Resources required
6.3 Develop, upgrade and improve tourism facilities at Wind and Fairy Cave		Start date	Monthly Monitoring Meeting
6.3.1 Project monitoring	Timely completion of project with minimal delay	Jan 2021 End date Aug 2021	
6.3.2 Handover of site to SFC	Comprehensive facility operation and management plan	Start date Aug 2021 End date Sep 2021	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.3.3 Promotion	Collaboration with STB on promotional materials through brochures	Start date Sep 2021 End date Oct 2021	Internal SFC, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.3.4 Engagement with agencies, NGOs, learning institutions	Inclusion in tour packages, Guided visits from learning institutions	Start date Sep 2021 End date Oct 2021	Internal SFC
6.3.5 Data collecting and evaluation	Database on visitor statistics, satisfactory survey	Start date Oct 2022 End date Dec 2022	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.4

Action step (s)	Output (s)	Timeline	Resources required
6.4 Develop, upgrade and improve tourism facilities at Sadong Jaya Mangrove		Start date	Monthly Monitoring Meeting
6.4.1 Project monitoring	Timely completion of project with minimal delay	Jan 2021 End date Dec 2022	
6.4.2 Staff recruitment and training	Handling daily operation of the facility including maintenance and upkeeping, and admin works	Start date Sep 2022 End date Oct 2022	Internal SFC
6.4.3 Handover to SFC	Comprehensive facility operation and management plan	Start date Jan 2023 End date Feb 2023	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.4.4 Promotion	Collaboration with STB on promotional materials through brochures or videos, etc.	Start date Mar 2023 End date Apr 2023	Internal SFC, STB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC, STB	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets
Action step	:	6.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.4.5 Engagement with agencies, NGOs, learning institutions	Introduction of new tourism product to industry players and inclusion in tour packages, guided visits by visitors from learning institutions	**Start date** Mar 2023 **End date** Apr 2023	Internal SFC
6.4.6 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	**Start date** Dec 2023 **End date** Feb 2023	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.5

Action step (s)	Output (s)	Timeline	Resources required
6.5 Tourism facilities at Santubong National Park		Start date	Internal MTAC
6.5.1 Appointment of implementing agency	Appointment letter by MTAC	Jul 2021 End date Aug 2021	
6.5.2 Engagement with stakeholders and local communities	Obtain opinion and buy-in from stakeholders and the public Identify requirement and work scope	Start date Aug 2021 End date Sep 2021	Internal SFC
6.5.3 Siting application	Identification of clear site boundary and condition/land acquisition	Start date Sep 2021 End date Mar 2022	Internal SFC
6.5.4 Appointment of consultant	Conceptual design as per clients requirements and tender document	Start date Apr 2022 End date May 2022	RM0.4 mil
6.5.5 Appointment of contractor	Completion of project as per specifications	Start date Aug 2022 End date Dec 2022	RM1.6 mil
6.5.6 Project monitoring	Timely completion with minimal delays	Start date Jan 2023 End date Dec 2023	Monthly Monitoring Meeting
6.5.7 Recruitment and training of staffs	Handling daily operation of the facility including maintenance and upkeeping, and admin works	Start date Sep 2022 End date Oct 2022	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.5.8 Handover to SFC	Comprehensive facility operation and management plan	Start date: Dec 2023 End date: Jan 2024	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.5.9 Promotion	Collaboration with STB on promotional materials through brochures or videos, etc.	Start date: Jan 2024 End date: Feb 2024	Internal SFC, STB
6.5.10 Engagement with agencies, NGOs, learning institutions	Introduction of new tourism product to industry players and inclusion in tour packages, guided visits by visitors from learning institutions	Start date: Jan 2024 End date: Feb 2024	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.5.11 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	Start date: Dec 2024 End date: Feb 2025	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.6

Action step (s)	Output (s)	Timeline	Resources required
6.6 Establish and develop Discovery Centre for Totally Protected Areas (TPAs) in Lundu and Sematan		Start date	Internal MTAC
6.6.1 Appointment of implementing agency	Appointment letter by MTAC	Jul 2021 End date Aug 2021	
6.6.2 Engagement with stakeholders and local communities	Obtain opinion and buy-in from stakeholders and the public Identify requirement and work scope	Start date Aug 2021 End date Sep 2021	Internal SFC
6.6.3 Siting application	Identification of clear site boundary and condition/land acquisition	Start date Sep 2021 End date Mar 2022	Internal SFC
6.6.4 Appointment of consultant	Conceptual design as per clients requirements and tender document	Start date Apr 2022 End date May 2022	RM0.4 mil
6.6.5 Appointment of contractor	Completion of project as per specifications	Start date Aug 2022 End date Dec 2022	RM1.6 mil
6.6.6 Project monitoring	Timely completion with minimal delays	Start date Jan 2023 End date Dec 2023	Monthly Monitoring Meeting
6.6.7 Staff recruitment and training	Handling daily operation of the facility including maintenance and upkeeping, and admin works	Start date Sep 2022 End date Oct 2022	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.6 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.6.8 Handover to SFC	Comprehensive facility operation and management plan	Start date: Dec 2023 End date: Jan 2024	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.6.9 Promotion	Collaboration with STB on promotional materials through brochures or videos, etc.	Start date: Jan 2024 End date: Feb 2024	Internal SFC, STB
6.6.10 Engagement with agencies, NGOs, learning institutions	Introduction of new tourism product to industry players and inclusion in tour packages, guided visits by visitors from learning institutions	Start date: Jan 2024 End date: Feb 2024	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.6.11 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	Start date: Dec 2024 End date: Feb 2025	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.7

Action step (s)	Output (s)	Timeline	Resources required
6.7 Ecotourism Complex at Gunung Ngeli Simunjan		Start date	Internal MTAC
6.7.1 Appointment of implementing agency	Appointment letter by MTAC	Jan 2022 End date Mar 2022	
6.7.2 Engagement with stakeholders and local communities	Comprehensive TOR Relevant research experts Identify requirement and scope	Start date Mar 2022 End date Apr 2022	Internal Simunjan DC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Simunjan DC	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.7.3 Undertaking of study and engagement with stakeholders and technical agencies	Clear boundary and zoning, concept for every zone, infra and facilities needed (upgrading or new), visitors' flow	Start date Apr 2022 End date Oct 2022	RM1.5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Simunjan DC	NREB, SRB, SEB, JBALB, JMS, DID, L&S, STB, KBS

Action step (s)	Output (s)	Timeline	Resources required
6.7.4 Monitoring of study and finalisation of study document	Study satisfy the requirement of clients and complete with recommendation and development plan	Start date Apr 2022 End date Oct 2022	Internal Simunjan DC
6.7.5 Appointment of implementing agency for physical development	Appointment letter by MTAC	Start date Jan 2022 End date Mar 2022	Internal MTAC

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.7.6 Engagement with stakeholders and local communities on development as per study's recommendations	Obtain opinion and buy-in from stakeholders and the public Identify requirement and work scope	Start date Mar 2022 End date Apr 2022	Internal Simunjan DC
6.7.7 Siting application	Identification of clear site boundary and condition/land acquisition	Start date Apr 2022 End date Jul 2022	Internal Simunjan DC
6.7.8 Appointment of consultant	Conceptual design as per clients requirements and tender document	Start date Aug 2022 End date Sep 2022	RM2 mil
6.7.9 Appointment of contractor	Completion of project as per specifications	Start date Nov 2022 End date Dec 2022	RM35 mil
6.7.10 Project monitoring	Timely completion with minimal delays	Start date Jan 2023 End date Dec 2024	Monthly Monitoring Meeting
6.7.11 Handover to Majlis Daerah Simunjan	Number of domestic and foreign visitors, Preparation of a comprehensive facility operation and management plan	Start date Dec 2024 End date Jan 2025	Internal Simunjan DC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Simunjan DC	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.7 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.7.12 Promotion	Collaboration with STB on promotional materials through brochures, videos, websites, social medias, travel fair, etc.	**Start date** Jan 2025 **End date** Feb 2025	Internal Simunjan DC, STB
6.7.13 Engagement with agencies, NGOs, learning institutions, sporting events organisers	Introduction to tour operators and inclusion in tour packages, Number of visits by learning institutions.	**Start date** Jan 2025 **End date** Feb 2025	Internal Simunjan DC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Simunjan DC, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.7.14 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	**Start date** Dec 2025 **End date** Feb 2026	Internal Simunjan DC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Simunjan DC	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.8

Action step (s)	Output (s)	Timeline	Resources required
6.8 Gunung Lesong Ecotourism Complex		Start date	Internal MTAC
6.8.1 Appointment of implementing agency	Appointment letter by MTAC	Jan 2022 End date Mar 2022	
6.8.2 Engagement with stakeholders and local communities	Comprehensive TOR Relevant research experts Identify requirement and scope	Start date Mar 2022 End date Apr 2022	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC, SADA	JKR, MDSA, SFC	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.8.3 Undertaking of study and engagement with stakeholders and technical agencies	Clear boundary and zoning, concept for every zone, infra and facilities needed (upgrading or new), visitors' flow	Start date Apr 2022 End date Oct 2022	RM1 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, MDSA, SFC	NREB, SRB, SEB, JBALB, JMS, DID, L&S, STB, KBS

Action step (s)	Output (s)	Timeline	Resources required
6.8.4 Monitoring of study and finalisation of study document	Study satisfy the requirement of clients and complete with recommendation and development plan	Start date Apr 2022 End date Oct 2022	Internal SFC
6.8.5 Appointment of implementing agency for physical development	Appointment letter by MTAC	Start date Jan 2022 End date Mar 2022	Internal MTAC

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.8.6 Engagement with stakeholders and local communities on development as per study's recommendations	Obtain opinion and buy-in from stakeholders and the public Identify requirement and work scope	Start date Mar 2022 End date Apr 2022	Internal SFC
6.8.7 Siting application	Identification of clear site boundary and condition/land acquisition	Start date Apr 2022 End date Jul 2022	Internal SFC, MDSA, JKR
6.8.8 Appointment of consultant	Conceptual design as per clients requirements and tender document	Start date Aug 2022 End date Sep 2022	RM2 mil
6.8.9 Appointment of contractor	Completion of project as per specifications	Start date Nov 2022 End date Dec 2022	RM23 mil
6.8.10 Project monitoring	Timely completion with minimal delays	Start date Jan 2023 End date Dec 2024	Monthly Monitoring Meeting
6.8.11 Handover to SFC	Number of domestic and foreign visitors, Preparation of a comprehensive facility operation and management plan	Start date Dec 2024 End date Jan 2025	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC, SADA	JKR, MDSA, SFC	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.8 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.8.12 Promotion	Collaboration with STB on promotional materials through brochures, videos, websites, social medias, travel fair, etc.	Start date Jan 2025 End date Feb 2025	Internal SFC
6.8.13 Engagement with agencies, NGOs, learning institutions, sporting events organisers	Introduction to tour operators and inclusion in tour packages, Number of visits by learning institutions.	Start date Jan 2025 End date Feb 2025	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC, SADA	JKR, MDSA, SFC, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.8.14 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	Start date Dec 2025 End date Feb 2026	Internal Simunjan DC

Project Owner	Implementing Agency	Other Stakeholders
MTAC, SADA	JKR, MDSA, SFC	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.9

Action step (s)	Output (s)	Timeline	Resources required
6.9 Batang Ai Ecotourism Complex		Start date	Internal MTAC
6.9.1 Appointment of implementing agency	Appointment letter by MTAC	Jan 2022 End date Mar 2022	
6.9.2 Procurement process and appointment of consultant for study	Comprehensive TOR Relevant research experts Identify requirement and scope	Start date Mar 2022 End date Apr 2022	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC, SADA	JKR, MDLA, SFC	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.9.3 Undertaking of study and engagement with stakeholders and technical agencies	Clear boundary and zoning, concept for every zone, infra and facilities needed (upgrading or new), visitors' flow	Start date Apr 2022 End date Oct 2022	RM1 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, MDLA, SFC	NREB, SRB, SEB, JBALB, JMS, DID, L&S, STB, KBS

Action step (s)	Output (s)	Timeline	Resources required
6.9.4 Monitoring of study and finalisation of study document	Study satisfy the requirement of clients and complete with recommendation and development plan	Start date Apr 2022 End date Oct 2022	Internal SFC
6.9.5 Appointment of implementing agency for physical development	Appointment letter by MTAC	Start date Jan 2022 End date Mar 2022	Internal MTAC

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.9 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.9.6 Engagement with stakeholders and local communities on development as per study's recommendations	Obtain opinion and buy-in from stakeholders and the public Identify requirement and work scope	Start date Mar 2022 End date Apr 2022	Internal SFC
6.9.7 Siting application	Identification of clear site boundary and condition/land acquisition	Start date Apr 2022 End date Jul 2022	Internal SFC, MDSA, JKR
6.9.8 Appointment of consultant	Conceptual design as per clients requirements and tender document	Start date Aug 2022 End date Sep 2022	RM2 mil
6.9.9 Appointment of contractor	Completion of project as per specifications	Start date Nov 2022 End date Dec 2022	RM23 mil
6.9.10 Project monitoring	Timely completion with minimal delays	Start date Jan 2023 End date Dec 2024	Monthly Monitoring Meeting
6.9.11 Handover to SFC	Number of domestic and foreign visitors, Preparation of a comprehensive facility operation and management plan	Start date Dec 2024 End date Jan 2025	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC, SADA	JKR, MDLA, SFC	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.9 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.9.12 Promotion	Collaboration with STB on promotional materials through brochures, videos, websites, social medias, travel fair, etc.	Start date Jan 2025 End date Feb 2025	Internal SFC
6.9.13 Engagement with agencies, NGOs, learning institutions, sporting events organisers	Introduction to tour operators and inclusion in tour packages, Number of visits by learning institutions.	Start date Jan 2025 End date Feb 2025	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC, SADA	JKR, MDLA, SFC, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.9.14 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	Start date Dec 2025 End date Feb 2026	Internal Simunjan DC

Project Owner	Implementing Agency	Other Stakeholders
MTAC, SADA	JKR, MDLA, SFC	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.10

Action step (s)	Output (s)	Timeline	Resources required
6.10 Tourism Facilities at Waterfalls		Start date	Internal Local Council, SFC
6.10.1 Identification of waterfalls in Sarawak	Potential number of waterfalls identified	Jan 2021	
6.10.2 Stakeholders engagement and project prioritisation	Site profile and prioritisation list Identify requirement and project scope		Internal Local Council, SFC
6.10.3 Appointment of implementing agency	Appointment letter by MTAC		Internal MTAC
6.10.4 Appointment of contractor	Completion of project as per specifications		RM1 mil for each waterfall
6.10.5 Project Implementation and monitoring	Timely completion of project as per specifications and with minimal delays		Monthly Monitoring Meeting
6.10.6 Project completed and hand over to local authority/SFC	Number of domestic and foreign visitors Preparation of a comprehensive facility operation and management plan	End date Dec 2030	Internal Local Council, SFC
6.10.7 Promotion	Collaboration with STB on promotional materials through brochures, videos, websites, social medias, travel fair, etc.		Internal Local Council, SFC, STB
6.10.8 Engagement with agencies, NGOs, learning institutions, sporting events organisers	Introduction to tour operators and inclusion in tour packages Number of visits by learning institutions.		Internal Local Council, SFC, STB
6.10.9 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey		Internal Local Council, SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Local council, SFC	SFC, Local Authority, R&DO, NGOs

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.11

Action step (s)	Output (s)	Timeline	Resources required
6.11 Lumpur Facilities at Lumpur Bebuak, Meritam, Limbang		Start date	Internal MTAC
6.11.1 Appointment of implementing agency	Appointment letter by MTAC	Jul 2021 End date Aug 2021	
6.11.2 Engagement with stakeholders and local communities	Obtain opinion and buy-in from stakeholders and the public Identify requirement and work scope	Start date Aug 2021 End date Sep 2021	Internal MD Limbang
6.11.3 Siting application	Identification of clear site boundary and condition/land acquisition	Start date Sep 2021 End date Mar 2022	Internal MD Limbang
6.11.4 Appointment of consultant	Conceptual design as per clients requirements and tender document	Start date Apr 2022 End date May 2022	RM0.4 mil
6.11.5 Appointment of contractor	Completion of project as per specifications	Start date Aug 2022 End date Dec 2022	RM1.6 mil
6.11.6 Project monitoring	Timely completion with minimal delays	Start date Jan 2023 End date Dec 2023	Monthly Monitoring Meeting
6.11.7 Recruitment and training of staffs	Handling daily operation of the facility including maintenance and upkeeping, and admin works	Start date Sep 2022 End date Oct 2022	Internal MD Limbang

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MD Limbang	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.11 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.11.8 Handover to MD Limbang	Comprehensive facility operation and management plan	Start date: Dec 2023 End date: Jan 2024	Internal MD Limbang

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MD Limbang	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.11.9 Promotion	Collaboration with STB on promotional materials through brochures or videos, etc.	Start date: Jan 2024 End date: Feb 2024	Internal MD Limbang, STB
6.11.10 Engagement with agencies, NGOs, learning institutions	Introduction of new tourism product to industry players and inclusion in tour packages, guided visits by visitors from learning institutions	Start date: Jan 2024 End date: Feb 2024	Internal MD Limbang

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MD Limbang, STB	R&DO, STF, DTTG, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.11.11 Evaluation and data collection	Database on visitor statistics and visitor satisfaction survey	Start date: Dec 2024 End date: Feb 2025	Internal MD Limbang

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MD Limbang	R&DO, STF, DTTG, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.12

Action step (s)	Output (s)	Timeline	Resources required
6.12 Niah National Park as a recognised UNESCO World Heritage Site		Start date	Internal MTAC/SFC
6.12.1 Completion Niah National Park Tourism Management Plan	A comprehensive Tourism management plan focusing on preservation and conservation of heritage area.	Jan 2020 End date Dec 2021	
6.12.2 Completion of Dossier for Nomination of Niah National Park into UNESCO's World Heritage List	Comprehensive Dossier for nomination of Niah NP and to be submitted to UNESCO World Heritage committee.	Start date Jan 2020 End date Dec 2021	Internal MTAC/SFC
6.12.3 Nomination of Niah National Park into the UNESCO World Heritage Committee for inscription	Nomination and inscription	Start date Jan 2023 End date Dec 2024	Internal MTAC/SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	MOTAC, MUDeNR, Forest Department, Local Authorities, NGOs, tourism industry players, local communities

Action step (s)	Output (s)	Timeline	Resources required
6.12.4 Collaboration with JMS/STB on promotional materials and efforts e.g. roadshows, social media campaign	Increased interest from potential visitors and Sarawak's visibility across the globe.	Start date Jan 2023 End date Dec 2025	Internal JMS/STB/SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC, JMS, STB	-

Action step (s)	Output (s)	Timeline	Resources required
6.12.5 Implementation of Tourism Management Plan	Conserved and preserved heritage site	Start date Jan 2022 End date Dec 2030	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC, JMS	-

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.12 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
6.12.6 Evaluation and data collection	Visitors' data statistics and visitor satisfaction survey	**Start date** Jan 2022 **End date** Dec 2030	Internal SFC
6.12.7 Review and amendment of Tourism Management Plan	Continuous review of the Management Plan and amendment as per requirements.	**Start date** Jan 2022 **End date** Dec 2023	Internal SFC

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	-

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.13a

Action step (s)	Output (s)	Timeline	Resources required
6.13a Formulation of management plan for Totally Protected Area (National Park / Nature Reserve / Wildlife Sanctuary) and tourism management plan (existing)		Start date	RM6 mil (RM0.5 mil each)
6.13a.1 Review and update expired TPA Management Plans and incorporates with the current needs of visitors and the tourist industry.	12 TPA-Management Plans integrated with Tourism Management Plan renewed. 1. Kuching Wetland NP (2022-2023) 2. Semenggoh WC (2022-2023) 3. Bako NP (2022-2023) 4. Gunung Mulu NP (2023-2024) 5. Niah NP (2023-2024) 6. Batang Ai NP (2023-2024) 7. Lambir Hills NP (2024-2025) 8. Piasau NR (2024-2025) 9. Lanjak Entimau WS (2024-2025) 10. Maludam NP (2025-2026) 11. Similajau NP (2025-2026) 12. Loagan Bunut NP (2025-2026)	2022 End date 2026	
6.13a.2 Stakeholder engagement and collaboration – tourism industry players and local community.	TPA – Mngt Plan analysis on Visitor Facilities and Management: Workshop on tourism product development and proposition that clearly responded to market demand and visitor expectation.	Start date 2025	Consultancy services
6.13a.3 Develop a concept for the right product or service in the right location (Unique Selling Proposition –USP).	Integrated Tourism Management Plan for a "strongly" market-ready products with the identification of market trends over the next 3-5 years. Packaging, Testing and Evaluation.	End date 2026	
6.13a.4 Implementation	Product Launching, Marketing And Promotion Campaign.		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR/MTAC (Steering Committee for National Park And Tourism)	SFC	Government agencies, industries players, NGOs, international organisations, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	6. Development and upgrading of ecotourism products and assets (cont'd)
Action step	:	6.13b

Action step (s)	Output (s)	Timeline	Resources required
6.13b Formulation of management plan for Totally Protected Area (National Park / Nature Reserve / Wildlife Sanctuary) and tourism management plan (new)		**Start date**	RM16.5 mil (RM1.5 mil each)
6.13b.1 Review and update expired TPA Management Plans and incorporates with the current needs of visitors and the tourist industry.	11 New TPA-Management Plans which incorporates the protection of flora/fauna and address the needs of visitors and the tourist industry. 1. Wind Cave-Fairy Cave NR (2022-2024) 2. Tanjung Datu NP (2022-2024) 3. Talang-Satang NP (2023-2025) 4. Gunung Gading NP (2023-2025) 5. Miri-Sibuti Coral Reefs NP (2024-2026) 6. Santubong NP (Extension) (2024-2026) 7. Pulau Seduku NR (2025-2027) 8. Bakun Islands NP (2025-2027) 9. Limbang Mangrove NP (2026-2028) 10. Danau Mujan NP (2027-2029) 11. Bukit Kana NP (2028-2030)	2022 **End date** 2026	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR/MTAC (Steering Committee for National Park And Tourism)	SFC	Government agencies, industries players, NGOs, international organisations, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	7. Enhance legal and international framework to preserve on culture and heritage

Initiative	Desired Outcome (s)
7.1 Implementation of Sarawak Heritage Ordinance 2019	**Economic Prosperity** • Preservation and conservation of antiquities, monuments and sites of cultural, archaeological, architectural, artistic, religious or traditional, historical, tangible and intangible interest or value and bio-anthropological, geographical and natural history items, for the benefit of the State and as a heritage of the people • 15 gazetted buildings, monuments and historical sites under Sarawak Heritage Ordinance, 2019 per annum by 2030 • 12 issuance of each licences and permit under Sarawak Heritage Ordinance, 2019 per annum by 2030

Timeline		Resources Required
Start Date	End Date	
Jan 2020	Dec 2030	• RM35.775 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	Lands & Survey Department, SAGC

Initiative	Desired Outcome (s)
7.2 Sarawak Crafts Bill 2021	**Economic Prosperity** • A gazetted legal framework for the strategic development of the handicraft industry in Sarawak resulting in a more co-ordinated and strategic development, • Increase number of entrepreneur from 1096 in 2020 to 1800 by 2030 • Increased in total sales for entrepreneurs from RM32 million in 2019 to RM183.6 million in 2030 (based on projected CAGR of 21%)

Timeline		Resources Required
Start Date	End Date	
Jan 2020	Dec 2030	• RM61 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCC	SAG, NGOs, local communities, handicraft producers

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	7. Enhance legal and international framework to preserve on culture and heritage
Action step	:	7.1

Action step (s)	Output (s)	Timeline	Resources required
7.1 Implementation of Sarawak Heritage Ordinance, 2019		Start date	JMS administration / enforcement
7.1.1 Prepare and endorse Standard Operating Procedures	35 SOPs prepared and endorsed	Jul 2005 End date Sep 2021	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JMS	SAGC, MUDeNR, MLGH, R&DO, Lands & Survey Department, Public Works Department, relevant enforcement agencies, Local Authorities

Action step (s)	Output (s)	Timeline	Resources required
7.1.2 Enforce and implement the Sarawak Heritage Ordinance, 2019	Notice of Gazetted on date of enforcement of SHO2019	Start date Oct 2021 End date Beyond 2030	JMS administration / enforcement

Project Owner	Implementing Agency	Other Stakeholders
JMS	JMS	SAGC, MUDeNR, MLGH, R&DO, Lands & Survey Department, Public Works Department, relevant enforcement agencies, Local Authorities

Action step (s)	Output (s)	Timeline	Resources required
7.1.3 Establish the Sarawak Heritage Council	• 11 council members • Efficient administration and management of heritage in Sarawak	Start date Jan 2021 End date Oct 2021	-

Project Owner	Implementing Agency	Other Stakeholders
JMS	JMS	Sarawak State Government, local communities, NGOs

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	7. Enhance legal and international framework to preserve on culture and heritage (cont'd)
Action step	:	7.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
7.1.4 Establish the Sarawak Heritage Trust Fund	A trust fund to provide for the preservation works on heritage buildings or historical monuments or sites	Start date: 2019 End date: Jan 2021	RM1 mil

Project Owner	Implementing Agency	Other Stakeholders
JMS	JMS	SHTF Management Committee, Heritage owners, DTTG, NGOs, international organisations, local communities

Action step (s)	Output (s)	Timeline	Resources required
7.1.5 Prepare and endorse Standard Operating Procedures	Guidelines for the Sarawak Heritage Grant/Loan	Start date: Jul 2021 End date: Dec 2021	RM20,000

Project Owner	Implementing Agency	Other Stakeholders
JMS	JMS	SHTF Management Committee, DTTG, NGOs, international organisations

Action step (s)	Output (s)	Timeline	Resources required
7.1.6 Produce Conservation Management Plan (CMP) for forts in Sarawak.	Conservation Management Plan for 1-2 forts per year.	Start date: Jan 2022 End date: Dec 2030	RM3 mil

Project Owner	Implementing Agency	Other Stakeholders
JMS	JMS	Jabatan Warisan Negara

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	7. Enhance legal and international framework to preserve on culture and heritage (cont'd)
Action step	:	7.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
7.1.7 Promotion and adoption of technology towards digitalisation in heritage tourism for Sarawak Heritage Ordinance, 2019.	Wide distribution of promotional materials e.g. at R&DO offices, airports, ports, border and, etc.	Start date: Jan 2022 End date: Dec 2030	RM216,000

Project Owner	Implementing Agency	Other Stakeholders
JMS	JMS	R&DO offices, STB, FOSM, SHC, SCC , PNB, international organisations

Action step (s)	Output (s)	Timeline	Resources required
7.1.8 Public engagement programme for heritage sustainability	• 4 number of public heritage programmes and activities per year. • Increase public interest on the importance of preservation and conservation of Sarawak Heritage.	Start date: Jan 2022 End date: Dec 2030	RM675,000

Project Owner	Implementing Agency	Other Stakeholders
JMS	JMS	R&DO office, relevant enforcement agencies, local communities

Action step (s)	Output (s)	Timeline	Resources required
7.1.9 Enforcement of the Ordinance to regulate activities relating to antiquities or historical objects in Sarawak	• 2 number of permits and licences per year. • Decrease number of illegal exportation through statistic	Start date: Jan 2021 End date: Dec 2030	RM500,000

Project Owner	Implementing Agency	Other Stakeholders
JMS	JMS	Relevant enforcement agencies, Local Authorities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	7. Enhance legal and international framework to preserve on culture and heritage
Action step	:	7.2

Action step (s)	Output (s)	Timeline	Resources required
7.2 Sarawak Crafts Bill 2021		Start date	Legal Officer
7.2.1 Consultation with stakeholders on the proposed Sarawak Craft Ordinance (Sarawak Craft Bill 2021)	Proposed Draft Bill	Dec 2019 End date Feb 2020	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCC	SAG, NGOs, Industry Stakeholders,SEDC, Kraftangan Malaysia, JMS, MTAC

Action step (s)	Output (s)	Timeline	Resources required
7.2.2 Finalise the proposed Sarawak Craft Bill, compile and present to BOD	Proposed Draft Bill to be ready for submission to SAG	Start date 2020 End date 2021	Legal Officer

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCC	-

Action step (s)	Output (s)	Timeline	Resources required
7.2.3 Proposed Sarawak Craft Council Bill to be submitted to SAGC for vetting and comments	To ensure the draft proposed Bill is in order and approved by SAGC	Start date 2021 End date 2021	Legal Officer

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SAGC	-

Action step (s)	Output (s)	Timeline	Resources required
7.2.4 Final Draft Bill submitted to Cabinet and tabled in DUN	Sarawak Craft Bill	Start date 2021 End date 2021	Legal Officer

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, SCC	-

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	7. Enhance legal and international framework to preserve on culture and heritage
Action step	:	7.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
7.2.5 Gazettement of Ordinance	Notice of gazettement and commencement date of Ordinance	Start date 2021 End date 2022	-

Project Owner	Implementing Agency	Other Stakeholders
MTAC	-	-

Action step (s)	Output (s)	Timeline	Resources required
7.2.6 Implementation of the Sarawak Crafts Ordinance	1. Established rules, regulations, policies guideline for the enforcement of the Sarawak Craft Ordinance to the public. 2. Established financial planning and management under the Sarawak Craft Ordinance i.e. Trust Fund 3. Established Management structure of Sarawak Craft Council pursuant to the Sarawak Crafts Ordinance 4. Secure the benefits and protection towards the industry players involved under the Sarawak Craft Ordinance 5. Easily promote and manage the development of the Sarawak Crafts 6.	Start date 2023 End date 2024	-

Project Owner	Implementing Agency	Other Stakeholders
MTAC, SCC	SCC	-

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	7. Enhance legal and international framework to preserve on culture and heritage
Action step	:	7.2 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
7.2.7 The approved Sarawak Crafts Council Ordinance to be announced to the public and stakeholders through • Five (5) outreach and consultations sessions in major towns/areas • Information leaflets / materials in printed and digital platform • Direct consultation with all stakeholders • Restructure the Management of Sarawak Craft Council in accordance in accordance to the Ordinance	1. Public awareness on the Sarawak Craft Council Ordinance. 2. Well function operational management in handling industry players involved in Sarawak Crafts. 3. Establish regional offices all over Sarawak for the easement of the industry players.	Start date 2022 End date 2025	RM1 mil
	4. Establish more manpower in each of the district within Sarawak.	Start date 2022 End date 2030	RM60 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCC	Handicraft Communities, R&DO, DTTGs, Government agencies, SAG, NGOs, industry stakeholders,SEDC, Kraftangan Malaysia, JMS

Action step (s)	Output (s)	Timeline	Resources required
7.2.8 Review of Ordinance	Proposals for Amendments	Start date 2022 End date 2030	-

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCC	SAG, NGOs, industry stakeholders,SEDC, Kraftangan Malaysia, JMS

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Develop Sarawak tourism products and assets by building upon its cultural, heritage and natural assets
Initiative	:	8. UNESCO Recognition

Initiative	Desired Outcome (s)
8.1 Kuching City as a recognised UNESCO Creative City of Gastronomy	**Economic Prosperity** ● Promotion of Sarawak's culinary heritage with recognition by UNESCO (Kuching as UNESCO Creative City of Gastronomy) ● Expected number of visitors: 50,000 / year with annual increase of 10% ● Expected revenue generated: 140 mil / year with annual increase of 10%

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM5.785 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MBKS, DBKU, STB	MOTAC MANRED, MLGH, Society Atelier Sarawak, Culinary Heritage and Arts Society

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period.

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	8. UNESCO Recognition
Action step	:	8.1

Action step (s)	Output (s)	Timeline	Resources required
8.1 Kuching City as a recognised UNESCO Creative City of Gastronomy		**Start date**	RM5.785 mil
8.1.1 To collaborate with the Task Force to submit application to UNESCO to enlist Kuching as under the UNESCO Creative City Network (Gastronomy Category)	Recognition from UNESCO as a Creative City of Gastronomy.	2023	
8.1.2 Both Federal and State Government to give support to the project.	Culinary festivals / events.	**End date**	Promotion and marketing: RM8 mil
8.1.3 Assisting the Task Force with adequate financial support.	Various promotional initiatives for Kuching to sustain as a Gastronomy City	2024	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MBKS, DBKU, STB	MOTAC, MANRED, MLGH, Society Atelier Sarawak, Culinary Heritage and Arts Society

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Position Sarawak as a preferred tourism destination
Initiative	:	9. Promotion of domestic tourism

Initiative	Desired Outcome (s)
9.1 Sia Sitok Sarawak (intrastate) **9.2 Sia Sitok Sarawak Accommodation (intrastate & interstate)** **9.3 Interstate campaign and Visitor's Incentive Package**	**Economic Prosperity** Increased domestic tourism ● Estimated 10% increase with some adjustment assumption due to COVID-19 pandemic in interstate domestic arrivals from 2,579,975 (2019) to 4,000,000 by 2030 ● Interstate domestic tourism receipts from RM5.6 bil in 2019 to RM8.8 bil by 2030 ● ROI: RM8.8 bil – RM58.5 mil = RM8.74 bil

Timeline		Resources Required
Start Date	End Date	
2022	2030	Promotion Incentives (STB) ● Sia Sitok Sarawak (intrastate) = RM13.5 mil (1.5mil per annum) ● Sia Sitok Accommodation (intrastate and interstate) = RM18 mil (RM2 mil per annum) ● Interstate campaign = RM27 mil (RM3 mil per annum) ● Total = RM6.5 mil p.a. or total RM58.5 mil by 2030

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	TM, STF, MATTA, MAH, MyBHA, ASIA, SATA, Homestay associations, airlines

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period.

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	9. Promotion of domestic tourism
Action step	:	9.1 - 9.3

Action step (s)	Output (s)	Timeline	Resources required
9.1 Sia Sitok Sarawak (intrastate) Promotion & Marketing (intrastate marketing) through stakeholder engagement Public-private partnership (PPP) collaboration (products/ transportation) • Offering discounted packages through subsidy • Promotion through digital social media • Monitoring & evaluation of Sia Sitok Sarawak campaign's visibility, success rate, consumer satisfaction	16.6% increase in number of visitors	Start date 2021 End date 2030	Promotion Incentives Sia Sitok Sarawak (intrastate): RM13.5 mil (1.5mil per annum)
9.2 Sia Sitok Sarawak Accommodation (intrastate & interstate) PPP collaboration with hotels / accommodation sector • Offering discounted packages through subsidy • Promotion and marketing through digital and non-digital platforms • Monitoring and evaluation	4.6% increase room occupancy rate in accommodation sector	Start date 2022 End date 2030	RM18 mil (RM2 mil per annum)
9.3 Interstate campaign and Visitor's Incentive Package (interstate campaign Promotion and marketing via business-to-business and business-to-consumer sessions in West Malaysia and Sabah • Visitors Incentive Package (VIP) for industry players to bring in non-Sarawakians. • Promotion through digital social media. • Monitoring and evaluation of interstate campaign's visibility, success rate, consumer satisfaction	5.6% annual increase number of domestic visitor arrivals.	Start date 2022 End date 2030	RM27 mil (RM3 mil per annum)

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	TM, STF, MATTA, MAH, MyBHA, ASIA, SATA, Homestay associations, airlines

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Position Sarawak as a preferred tourism destination
Initiative	:	10. Positioning Sarawak as the leading Business Event destination

Initiative	Desired Outcome (s)
10.1 Strengthen marketing and promotional initiatives in positioning Sarawak as business events destination	Recognition as one of the top second-tier destinations for business events (BE). **Economic Prosperity** ● Increased total number of international business events. ● Increased delegates and total direct delegate expenditure (DDE) ● Increased in delegates' length of stay from 5 days to 7.5 days. ● Won 10 international awards ● 10% increment of media value yearly ● To be recognised by business events international bodies such as International Congress and Convention Association (ICCA) as one of the successful role model for 2nd tier destination in APAC

Timeline		Resources Required
Start Date	End Date	
2021	2030	● This initiative budget is included in the total Approved Operating Funding under 12MP (2021 to 2025): RM55.5 mil ● Proposed Operating Funding under 13MP (2026 to 2030): RM84 mil ● Total: RM139.5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	Local and national Government agencies and ministries, industry partners, local / national / international BE affiliates and alliances, local communities

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period. *(Initiatives 10.1-10.4)*

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Position Sarawak as a preferred tourism destination
Initiative	:	10. Positioning Sarawak as the leading Business Event destination (cont'd)

Initiative	Desired Outcome (s)
10.2 Joint committee for global promotion	More international BE conferences in Sarawak with increased delegates and accompanying visitors, subsequently increasing tourism receipts. **Economic Prosperity** 2021-2025: ● Events Target: 640 Events ● Potential Total Economic Impact: RM 1,760,803,111.00 ● Potential Direct Delegate Expenditure: RM 956,958 212.50 ● Potential Tax Earned: RM 105,648,186.66 ● Potential Job Creation: 139,746 ● Est. Total Delegates: 214,750 ● Est Total Delegate Days: 742,250 ● 50 homegrown events (of which 5 must be international events) based on Sarawak Economic Ratio for events hosted (60 economic Key sector: 40 Non Focus sector) by 2030 ● Increase centralised funding for events support by 30% after 5 years from 2025 to 2030

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Approved Joint Committee Fund under 12MP (2021 to 2025): RM40 mil ● Proposed Joint Committee Fund under 13MP (2026 to 2030): RM60 mil ● Total: RM100 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	Local / national / international associations, corporate organisations, academia for BE and Non-BE, local / national Government agencies and ministries, industry partners, local / national / international BE affiliates and alliances, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Position Sarawak as a preferred tourism destination
Initiative	:	10. Positioning Sarawak as the leading Business Event destination (cont'd)

Initiative	Desired Outcome (s)
10.3 Miri Convention Centre and Musical Theater, Miri	**Economic Prosperity** Private Funded Initiative • Business Events (2021 to 2025) • Events Target: 120 • Potential Total Economic Impact: RM352,160,622.20 • Potential Direct Delegate Expenditure: RM191,391,642 • Potential Tax Earned: RM21,129,637.33 • Potential Job Creation: 27,949 • Est. Total Delegates: 42,950 • Est Total Delegate Days: 148,450

Timeline		Resources Required
Start Date	End Date	
2021	2030	• RM30 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	International associations, corporate organisations, academia for BE and Non-BE, local / national Government agencies and ministries, industry partners, local / national / international BE affiliates and alliances, local communities, MOTAC, R&DO, private sector

Initiative	Desired Outcome (s)
10.4 Sibu Convention Centre	**Economic Prosperity** Private Funded Initiative • Business Events (2021 to 2025) • Events Target: 120 • Potential Total Economic Impact: RM352,160,622.20 • Potential Direct Delegate Expenditure: RM191,391,642 • Potential Tax Earned: RM21,129,637.33 • Potential Job Creation: 27,949 • Est. Total Delegates: 42,950 • Est Total Delegate Days: 148,450

Timeline		Resources Required
Start Date	End Date	
2021	2030	• RM30 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	International associations, corporate organisations, academia for BE and Non-BE, local / national Government agencies and ministries, industry partners, local / national / international BE affiliates and alliances, local communities, MOTAC, R&DO, private sector

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	10. Positioning Sarawak as the leading Business Event destination
Action step	:	10.1

Action step (s)	Output (s)	Timeline	Resources required
10.1 Strengthen marketing and promotional initiatives in positioning Sarawak as business events (BE) destination		Start date	Included in the total approved funding under 12MP (2021 to 2025): RM55.5 mil Proposed funding under 13MP (2026 to 2030): RM84 mil Total: RM139.5 mil

10.1.1 Identified relevant award and recognitions for business events for submission and winning	• Win 10 international awards by 2030
	• Win 1 international award yearly
	• By 2022, 100% utilisation of marketing and promotional channels
	• 5 local / national / international roadshows and tradeshows yearly (physical and virtual)
	• Implementing a revised or new campaign from 2025 onwards
	• 80% conversion of Hot leads to Bid Wins: 62 events per year (78 total)
	• Annual Homegrown events:
	  ○ 1 international
	  ○ 20 local / national
	• Annual events supported:
	  ○ 30 international / national
	• Annual corporate meetings and corporate incentives:
	  ○ 5 international / national
		2021	

10.1.2 Submit application of marketing materials (ie: videos, campaigns, etc.) for international nomination			
10.1.3 Producing marketing and promotional tools / initiatives (including virtual & hybrid)		End date	Approved Joint Committee Fund under 12MP (2021 to 2025): RM40 mil Proposed Joint Committee Fund under 13MP (2026 to 2030): RM60 mil Total: RM100 mil
10.1.4 Conducting engagement sessions with industry partners for improved understanding of the key campaign elements with active collaboration between industry partners.	• Organise 6 engagement sessions (2 per city) per year	2030	Included in total funding: RM139.5 mil
10.1.5 Organising and participating in roadshows and tradeshows to spearhead the campaign.	• Branding and Marketing Campaign: Developed “Tribe Legacy Sarawak” Campaign, Implementation of the campaign, Revision of the effectiveness of the campaign		Included in total funding: RM100 mil
10.1.6 Revising the campaign or developing a new one in 2024			

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	10. Positioning Sarawak as the leading Business Event destination (cont'd)
Action step	:	10.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	2021 to 2025 Media Log ● Estimated total of Print Media target: 1100 ● Estimated total of Print Online Target: 755 ● Estimated total of Broadcasting: 215 ● Total Media log: 1390 ● Est. Media Value: RM27.15 mil Development of new segments focus ● Corporate Meetings & Corporate Incentives ● Homegrown Events ● Exhibitions ● 30 Events Economic Sector ● 20 Events Non Economic Sector Economic Sector (7 key focus areas based on Sarawak Government economic focus) List: ● Urban Development / Redevelopment ● Social Development ● Environmental Development ● Rural Transformation on Agriculture Development ● Re-engineering Economic Growth (SCORE) ● Service Industry ● Digital Economy Revise current State Convention Fund guideline to include Homegrown, Corporate Meetings, Corporate Incentives and Exhibitions segments.	Start date 2021 End date 2030	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	Local / national Government agencies and ministries, industry partners, local / national / international BE affiliates and alliances, local communities, creative agencies, trade show organisers, event management companies, SFS, EPU Sarawak

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	10. Positioning Sarawak as the leading Business Event destination (cont'd)
Action step	:	10.2

Action step (s)	Output (s)	Timeline	Resources required
10.2 Joint committee for global promotion		Start date	
10.2.1 A total of 50 Homegrown events (of which one must be international event) based on Sarawak Economic Ration for events hosted (60 economic sectors, 40 non-focus sectors) by 2030	• 30 Events Economic Sector • 20 Events Non Economic Sector • Economic Sector (7 key focus areas based on Sarawak Government economic focus) List: Urban Development / Redevelopment, Social Development, Environmental Development, Rural Transformation on Agriculture Development, Re-engineering Economic Growth (SCORE), Service Industry, Digital Economy	2021	Included in the total approved funding under 12MP (2021 to 2025): RM55.5 mil Proposed funding under 13MP (2026 to 2030): RM84 mil Total: RM139.5 mil
10.2.2 Revise current State Convention Fund guideline to include Homegrown, Corporate Meetings, Corporate Incentives and Exhibitions segments.	Increased centralised funding for events support by 30% after 5 years from 2025 to 2030 Due to the 4 new segments of Business Events to be included in the State Convention Fund, the yearly funding based on the approved 12MP (RM10 mil) with 30% increment for the yearly 13MP funding is averaged at RM13 mil.	End date 2030	Approved Joint Committee Fund under 12MP (2021 to 2025): RM40 mil Proposed Joint Committee Fund under 13MP (2026 to 2030): RM60 mil Total: RM100 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	Local / national Government agencies and ministries, industry partners, local / national / international BE affiliates and alliances, local communities, creative agencies, trade show organisers, event management companies, SFS, EPU Sarawak

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	10. Positioning Sarawak as the leading Business Event destination (cont'd)
Action step	:	10.3

Action step (s)	Output (s)	Timeline	Resources required
10.3 Miri Convention Centre and Musical Theater, Miri		Start date	RM1 mil
10.3.1 Feasibility and development study	Development strategy including potential collaborators, marketing strategy and location	Jan 2022 End date Feb 2022	
10.3.2 Engagement with industry players and subject matter expert	Opinions and buy in from stakeholders and experts	Start date Mar 2022 End date Apr 2022	Internal MTAC, SCB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	R&DO, DTTG, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
10.3.3 Engagement with STB, SCB	Identified requirements	Start date Mar 2022 End date Apr 2022	Internal MTAC, SCB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB, STB	R&DO, DTTG, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
10.3.4 Engagement with private sector for possible collaborations	Obtained opinions and buy in from agencies	Start date Mar 2022 End date Apr 2022	Internal MTAC, SCB
10.3.5 Completion of study and evaluation of study's recommendation	Events bidding organised by SCB	Start date Jan 2023 End date Feb 2023	Internal MTAC, SCB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	R&DO, DTTG, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	10. Positioning Sarawak as the leading Business Event destination (cont'd)
Action step	:	10.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
10.3.6 Approach private sector for negotiations on collaboration	Promotional materials with STB through brochures, website, social media	Start date: Feb 2023 End date: Mar 2023	Internal MTAC, SCB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	R&DO, DTTG, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
10.3.7 Physical development	Support to private sector until business is self-sufficient	Start date: Jun 2023 End date: Jun 2025	RM30 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, SMC	R&DO, DTTG, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
10.3.8 Staff recruitment and training	Continuous bidding and promotion for events	Start date: Jan 2025 End date: Jun 2025	Internal MTAC, SCB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	R&DO, DTTG, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	10. Positioning Sarawak as the leading Business Event destination (cont'd)
Action step	:	10.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
10.3.9 Securing Business Events for Miri	Business Events (2021 to 2025) Events target: 120 Estimated TEI: RM352.16 mil Estimated DDE: RM191.39 mil Estimated tax earned: RM21.12 mil Estimated job creation: 27,949 Estimated total delegates: 42,950 Estimated total delegate days: 148,450 120 total secured events breakdown: Bid wins – 75 events Homegrown – 15 events Supported Events – 15 events Corporate Meetings and Corporate Incentives – 15 events	**Start date** 2021 **End date** 2030	Approved Joint Committee Fund under 12MP (2021 to 2025): RM40 mil Proposed Joint Committee Fund under 13MP (2026 to 2030): RM60 mil Total: RM100 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	Local / national Government agencies and ministries, industry partners, local / national / international BE affiliates and alliances, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	10. Positioning Sarawak as the leading Business Event destination (cont'd)
Action step	:	10.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
10.3.10 Producing marketing and promotional tools / initiatives (including virtual and hybrid) Conducting engagement sessions with industry partners for improved understanding of the key campaign elements with active collaboration between industry partners. Participating in roadshows and tradeshows to promote Miri and convention center Revising the marketing plan for Miri or developing a new one in 2024.	By 2022, 100% utilisation of marketing and promotional channels Organised 2 engagement sessions per year under Business Events Consortium of Miri (BECoM) 5 local / national / international roadshows and tradeshows yearly (physical and virtual) Implementing the revised or new marketing plan from 2025 onwards	**Start date** 2021 **End date** 2025	Included in the total approved funding under 12MP (2021 to 2025): RM55.5 mil Proposed funding under 13MP (2026 to 2030): RM84 mil Total: RM139.5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	BECoM, industry partners, Resident Office, private sectors, investor, creative agencies, local / national / international media, trade show organisers

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	10. Positioning Sarawak as the leading Business Event destination (cont'd)
Action step	:	10.4

Action step (s)	Output (s)	Timeline	Resources required
10.4 Sibu Convention Centre		Start date	RM1 mil
10.4.1 Feasibility and development study	Development strategy including potential collaborators, marketing strategy and location	Jan 2022 End date Feb 2022	
10.4.2 Engagement with industry players and subject matter expert	Opinions and buy in from stakeholders and experts	Start date Mar 2022 End date Apr 2022	Internal MTAC, SCB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	R&DO, DTTG, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
10.4.3 Engagement with STB, SCB	Identified requirements	Start date Mar 2022 End date Apr 2022	Internal MTAC, SCB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB, STB	R&DO, DTTG, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
10.4.4 Engagement with private sector for possible collaborations	Obtained opinions and buy in from agencies	Start date Mar 2022 End date Apr 2022	Internal MTAC, SCB
10.4.5 Completion of study and evaluation of study's recommendation	Events bidding organised by SCB	Start date Jan 2023 End date Feb 2023	Internal MTAC, SCB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	R&DO, DTTG, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	10. Positioning Sarawak as the leading Business Event destination (cont'd)
Action step	:	10.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
10.4.6 Approach private sector for negotiations on collaboration	Promotional materials with STB through brochures, website, social media	Start date: Feb 2023 End date: Mar 2023	Internal MTAC, SCB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	R&DO, DTTG, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
10.4.7 Physical development	Support to private sector until business is self-sufficient	Start date: Jun 2023 End date: Jun 2025	RM30 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JKR, SMC	R&DO, DTTG, STF, industry players

Action step (s)	Output (s)	Timeline	Resources required
10.4.8 Staff recruitment and training	Continuous bidding and promotion for events	Start date: Jan 2025 End date: Jun 2025	Internal MTAC, SCB

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	R&DO, DTTG, STF, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	10. Positioning Sarawak as the leading Business Event destination (cont'd)
Action step	:	10.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
10.4.9 Securing Business Events for Miri	Business Events (2021 to 2025) Events target: 120 Estimated TEI: RM352.16 mil Estimated DDE: RM191.39 mil Estimated tax earned: RM21.12 mil Estimated job creation: 27,949 Estimated total delegates: 42,950 Estimated total delegate days: 148,450 120 total secured events breakdown: Bid wins – 75 events Homegrown – 15 events Supported Events – 15 events Corporate Meetings and Corporate Incentives – 15 events	Start date 2021 End date 2030	Approved Joint Committee Fund under 12MP (2021 to 2025): RM40 mil Proposed Joint Committee Fund under 13MP (2026 to 2030): RM60 mil Total: RM100 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	Local / national Government agencies and ministries, industry partners, local / national / international BE affiliates and alliances, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	10. Positioning Sarawak as the leading Business Event destination (cont'd)
Action step	:	10.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
10.4.10 Producing marketing and promotional tools / initiatives (including virtual and hybrid) Conducting engagement sessions with industry partners for improved understanding of the key campaign elements with active collaboration between industry partners. Participating in roadshows and tradeshows to promote Miri and convention center Revising the marketing plan for Miri or developing a new one in 2024.	By 2022, 100% utilisation of marketing and promotional channels Organised 2 engagement sessions per year under Business Events Consortium of Miri (BECoM) 5 local / national / international roadshows and tradeshows yearly (physical and virtual) Implementing the revised or new marketing plan from 2025 onwards	**Start date** 2021 **End date** 2025	Included in the total approved funding under 12MP (2021 to 2025): RM55.5 mil Proposed funding under 13MP (2026 to 2030): RM84 mil Total: RM139.5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCB	BECoM, industry partners, Resident Office, private sectors, investor, creative agencies, local / national / international media, trade show organisers

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Position Sarawak as a preferred tourism destination
Initiative	:	11. Tourism Promotion through Sarawak Trade and Tourism Offices

Initiative	Desired Outcome (s)
11. Tourism Promotion through Sarawak Trade and Tourism Offices (STATOS)	**Economic Prosperity** ● Increased arrivals through 2 additional offices in Brunei and Pontianak ● Indonesia total arrival to Sarawak in 2019 is 418,461 with 5% increase growth to 649,170 by 2030 and potential tourism receipt RM616.71 mil (Average Indonesia expenditure per pax = RM950) ● Brunei arrival to Sarawak in 2019 is 1,296,017 with 5.23% increase growth to 2 mil by 2030 and potential tourism receipt RM1.74 bil (Average Brunei Expenditure per pax = RM871) ● Total RM2.35 bil tourism receipt generated through 2 STATOS Offices

Timeline		Resources Required
Start Date	End Date	
2022	2030	● Promotion and marketing in Kalimantan and Brunei (at the gateway and in the marketplace): RM4 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	Tourism Malaysia, STF, MAH, MATTA, ASIA, SATA, EPU Sarawak, Immigration, Customs

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period.

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	11. Tourism Promotion through Sarawak Trade and Tourism Offices
Action step	:	11.1 - 11.3

Action step (s)	Output (s)	Timeline	Resources required
11.1 Promotion and marketing Marketing collaterals materials: brochures, souvenirs, videos, buntings, etc. Tour packages to Sarawak (weekend escapes, family package, educational tour) Familiarisation trips (media & travel agents)	• Joint Tour packages (C.A.N.F.F. package): 4 packages per annum • Familiarisation Trips: 2 per annum	**Start date** 2022	Promotion & Marketing in Singapore, Kalimantan & Brunei (at the gateway and in the marketplace): RM4 mil per annum
11.2 Digital advertising and promotion in the marketplace • Digital advertising types, platforms	• Digital marketing ensure to popularise Sarawak as the leisure/medical/wellness/educational destination • AR/VR • Digital promotion reach (clicks, eyeballs)		-
11.3 Identify Sarawak destination visibility - collaborative research with STATOs 1. Identify the research consultant for conducting the research in the marketplace 2. Appoint the consultant based on the evaluation and match with STB's market research scope, aim and objectives. 3. Conduct the research and submit the report by the consultant to STB	• Information about consumers in the marketplace (e.g. intention to travel to Sarawak, consumer travel demands, Sarawak's visibility among the destinations) • Insights on the demographic, psychographic and product segmentation based on the consumer's preference during the post-pandemic travel which will assist future marketing and promotional activities during the new norm travel. • Sarawak positioned among other competing destinations • Guidelines for digital and non-digital marketing and promotion of Sarawak based on consumer segments.	**End date** 2030	-

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	Tourism Malaysia, STF, MAH, MATTA, ASIA, SATA, MyBHA, other related tourism agencies, STATOS

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Position Sarawak as a preferred tourism destination
Initiative	:	12. Develop events, festivals, and business events unique to Sarawak

Initiative	Desired Outcome (s)
12. Develop events, festivals, and business events unique to Sarawak	**Economic Prosperity** ● Increase visitors arrivals and tourism receipts through promoting Sarawak as a destination for international events and festivals ● Fifty (50) new international events by 2030 ● Expected number of visitors = 10,000 / year (2,000 visitors/event) with annual increase of 10% ● Expected revenue generated = 28 mil / year with annual increase of 10%

Timeline		Resources Required
Start Date	End Date	
2021	2030	● RM100 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	NGOs, DTTG

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period.

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	12. Develop events, festivals, and business events unique to Sarawak
Action step	:	12.1 - 12.6

Action step (s)	Output (s)	Timeline	Resources required
12.1 Received proposals from the organisers	Numbers of relevant proposals compiled for tabling.	Start date	RM100 mil (RM10 mil/year)
12.2 Evaluation through Jawatankuasa Teknikal Geran Acara (JTGA) and Jawatankuasa Induk Geran Acara, Kajian dan Penyelidikan (JIGAKP)	Decisions on the quantum of support grant to be given.	2021	
12.3 Enter into written agreement with the organiser	Agreement on the terms and conditions of the support grant		
12.4 Provide support funding for approved events or festivals	Progressive payment of the support grant	End date	
12.5 To assist with the promotions and marketing	Coordination meetings, press conferences, promotional collaterals	2030	
12.6 Post-mortem of the event	ROI and suggestions for improvement		

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	NGOs, DTTG

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Position Sarawak as a preferred tourism destination
Initiative	:	13. Promoting second home programme through S-MM2H

Initiative	Desired Outcome (s)
13. Promoting second home programme through S-MM2H	**Economic Prosperity** ● Increase visitors arrivals and tourism receipts through promoting Sarawak as an international second home destination ● 18% growth for number of S-MM2H participants, 224 (2019) to 1,058(2030) ● Increase of Potential Revenue generated for SMM2H applicants by 15% from RM26.88 million in 2020 to RM100.08 million by 2030 ● Potential Revenue generate through S-MM2H property investment RM31.2 million by 2030

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Promotion and marketing - RM450,000

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC,JIMS, MOTAC, STB	SAG, PDRM, JKNS, JKM, SHEDA

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	13. Promoting second home programme through S-MM2H
Action step	:	13.1 - 13.3

Action step (s)	Output (s)	Timeline	Resources required
13.1 Conduct survey and study to attract more S-MM2H participants	Full document on the overall study on S-MM2H Identify the factors to attract more S-MM2H applicants	Start date 2020 End date 2021	RM30,000

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MOTAC, KLMG	-

Action step (s)	Output (s)	Timeline	Resources required
13.2 Organise talks / webinars to promote S-MM2H through online mediums	3 talks/webinars First webinar organised on 24th May 2021 with 161 participants from Singapore, Hong Kong, China, Taiwan and other countries	Start date 2021 End date 2022	IT technical team RM30,000

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STATOS	MOTAC, TM, STB

Action step (s)	Output (s)	Timeline	Resources required
13.3 Promote S-MM2H to targeted participant ● via marketing and promotion, online and offline, collaborate with STATOS	2 tourism fair participated every year 1,000 promotional booklet (with updated content every 2 years) 5 types of printing/video advertisement being printed/produced	Start date 2022 End date 2030	RM0.45 mil (STB) Translator Content editor

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	STATOS, TM, MOTAC, MOFA

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	13. Promoting second home programme through S-MM2H (cont'd)
Action step	:	13.4 - 13.6

Action step (s)	Output (s)	Timeline	Resources required
13.4 Offer more competitive incentives to the S-MM2H pass holder	Discount/local rates for tourism incentives offered by STB Easiness to travel and enter Sarawak Increase potential revenue generated for S-MM2H applicants by 15% from RM26.88 mil to RM100.8 mil by 2030	Start date 2021 End date 2030	Enhancement of S-MM2H policy Incentives and discount: RM1 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, STB	MOTAC, IMMI, SAG, PDRM, JKNS

Action step (s)	Output (s)	Timeline	Resources required
13.5 Create dedicated One Stop Centre to make the process easier	18% growth in number of S-MM2H participants. From 224 (2019) to 1,058 (2030)	Start date 2021 End date 2030	RM100,000 Dedicated office space for One Stop Centre, Multi-lingual staff

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	-

Action step (s)	Output (s)	Timeline	Resources required
13.6 Work with SHEDA to promote suitable property for S-MM2H applicant	Potential Revenue generate through S-MM2H property investment RM31.2 million by 2030	Start date 2021 End date 2030	Enhancement of policy Marketing and promotion: RM1 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SHEDA	Land & Survey Department, property agencies

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Position Sarawak as a preferred tourism destination
Initiative	:	14. Digital tourism

Initiative	Desired Outcome (s)
14.1 S-MM2H online application system	**Economic Prosperity** ● Increase customer satisfaction by reducing processing time, avoiding hassles of submitting in person. ● Reduced processing time from 90 days to 30 days.
14.2 Enhancement of STODAS	● Auto-fill rather than manual fill of forms. ● Increased number of components from 9 to 19. ● A web-based survey management system in conducting a one-off survey or feedback to sure success of development of Sarawak Tourism Satellite Account (STSA) for the state
14.3 Visitors tracking system at Bako National Park	A visitor tracking system that can address visitor safety issue to the park as well as to facilitate the search and rescue effort during time of emergency ● Increase efficiency of Search and Rescue Operations ● Boost confidence level of visitors ● Traceability of visitors
14.4 E-commerce platform for tourism, arts and culture	An e-commerce and content management platform that can generate revenues for tourism industry and provide convenient to visitors in the era of digital economy ● Increase in sales and revenue for tourism, arts and culture entrepreneurs. ● Increase in tourism receipts ● Increase in global market reach
14.5 Digital Visitor Landing Application integrated with EnterSarawak	● Visitor's information can be captured into an interactive, environmental friendly and paperless monitoring system ● Increased capture of visitors data (length of stay, accommodation, purpose of stay, spending pattern, etc.) compared to usual time-consuming visitors' exit survey.

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Applied for funding under ICT project for RMK 12 ● Total amount: RM7.65 Million

Project Owner	Implementing Agency	Other Stakeholders
MTAC	DOSM, SSMU	STB

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	14. Digital tourism
Action step	:	14.1

Action step (s)	Output (s)	Timeline	Resources required
14.1 S-MM2H online application		Start date	RM0.5 mil ceiling budget approved by SSMU
14.1.1 Engagement with EPU Sarawak and SSMU to come up with the proposal for S-MM2H online application	Submission of the S-MM2H online application as the ICT project under RMK12	2019 End date 2021	

Project Owner	Implementing Agency	Other Stakeholders
EPU Sarawak	MTAC, SSMU	JIMS

Action step (s)	Output (s)	Timeline	Resources required
14.1.2 Digitalisation the S-MM2H workflow	All processing done paperless	Start date 2022 End date 2030	-

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	SSMU, JIMS, PDRM,JKM

Action step (s)	Output (s)	Timeline	Resources required
14.1.3 Troubleshooting and maintenance of the system every 6 months	The system security up to date with secured data	Start date 2022 End date 2030	RM0.15 mil IT executive Server

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, SAINS	-

Action step (s)	Output (s)	Timeline	Resources required
14.1.4 Online briefing and question and answer (Q&A) session with agents on how to use the online application	Reduction in rejected applications due to incomplete documents	Start date 2022 End date 2030	RM0.15 mil IT executive Server

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	-

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	14. Digital tourism (cont'd)
Action step	:	14.2

Action step (s)	Output (s)	Timeline	Resources required
14.2 Enhancement of STODAS		Start date	Applied for funding under ICT project for RMK12: RM1.5 mil
14.2.1 Engagement with EPU Sarawak and SSMU to come with the proposal for STODAS online application	Submission of the STODAS online application as the ICT project under RMK12	2019 End date 2021	

Project Owner	Implementing Agency	Other Stakeholders
EPU Sarawak	MTAC, SSMU	STB

Action step (s)	Output (s)	Timeline	Resources required
14.2.2 Digitalisation the STODAS and STSA workflow	All processing done paperless	Start date 2022 End date 2030	-

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	SSMU, JIMS, PDRM,JKM

Action step (s)	Output (s)	Timeline	Resources required
14.1.3 Troubleshooting and maintenance of the system every 6 months	The system security up to date with secured data	Start date 2022 End date 2030	RM0.15 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, SAINS	-

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	14. Digital tourism (cont'd)
Action step	:	14.3

Action step (s)	Output (s)	Timeline	Resources required
14.3 Visitors tracking system at Bako National Park		Start date	Applied for funding under ICT project for RMK 12: RM0.4 mil
14.3.1 Engage with EPU Sarawak, SSMU and SMA to come with the proposal of for Visitor Tracking App system	Submission of the application as the ICT project under RMK12	2021 End date 2025	
14.3.2 Engagements with key stakeholder	Facilitate development of Visitor Tracking App system	Start date 2022 End date 2030	Task Force Committee Meeting
14.3.3 Improve network infrastructure in Bako NP	High capacity network at the Bako NP area. Maintain smoothness and stability of application system.	Start date 2022 End date 2030	Proposed Funding: RM4.5 mill (RM0.5 mil/year)

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SMA, SFC	SSMU, SAINS, EPU Sarawak, Forest Department

Action step (s)	Output (s)	Timeline	Resources required
14.3.4 Provide training and deployment of staff	Enhanced deployment for monitoring the system üNo of training (2 times / year) üNo of staff per training (maximum of 15 person / session)	Start date 2022 End date 2030	Proposed Funding RM0.9 mil (RM0.1 mil x 9 years) Manpower

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	SSMU, SMA, STB, Forest Department of Sarawak

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	14. Digital tourism (cont'd)
Action step	:	14.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
14.3.5 Maintenance of the system	Annual maintenance of the system Effective Tool development and customisation (supported new application of the technology)	Start date 2022 End date 2030	Proposed funding RM1.8 mill (RM0.2 mil / year x 9 years) IT Consultant

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SMA, SFC	Forest Department, STTF, MOTAC

Action step (s)	Output (s)	Timeline	Resources required
14.3.6 Collaborate with key stakeholders to facilitate R&D for Visitor Tracking App system	Generate reliable data of the system Developed solution for visitor detection and customisation of the system based on survey and research	Start date 2022 End date 2030	Proposed Funding RM0.9 mil (RM0.1 mil x 9 years) Manpower

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SMA, SFC	SSMU, SAINS, EPU Sarawak, Forest Department

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	14. Digital tourism (cont'd)
Action step	:	14.4

Action step (s)	Output (s)	Timeline	Resources required
14.4 E-commerce Platform for tourism, arts and culture		Start date	Applied for funding under ICT project for RMK 12: RM1.6 mil
14.4.1 Engagement with EPU Sarawak, SSMU and SMA to come with the proposal for E-commerce Enhancement of Sarawak Travel App ● E-commerce platform to be incorporated in Sarawak Travel App, data collection system will be standardised to benefit different stakeholders	Submission of the application as the ICT project under RMK12	2021 End date 2025	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	SSMU, SAINS, STB, SCC, STF, SDEC, CENTEX, digital investor

Action step (s)	Output (s)	Timeline	Resources required
14.4.2 Collaboration with existing e-commerce platform	Enhanced tourism promotion through existing ecommerce platform (Shopee, Lazada, Wechat, Eprenuers, etc.) Conducted training for industry players via collaboration with Centex, Pustaka (Pandei), etc. Number of transaction done	Start date 2022 End date 2022	Funding Digital Marketing

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SMA, STB	SSMU, SAINS, STB, SCC, STF

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	14. Digital tourism (cont'd)
Action step	:	14.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
14.4.3 Collaboration with local entrepreneurs ● Tour agencies, Handicraft producers, entrepreneurs	Increased sales and promotion of tourism product and packages Improved digital literacy among local entrepreneurs on e-commerce platform via capacity building programme. Expected no of people trained hook on new e-commerce platform Sarawak Tourism Ecosystem Online Fund application approved: ● 2020: 45 application ● 2021: 60 application	Start date 2021 End date 2030	Funding , Manpower, Existing e-commerce platform

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, STB	SMA, SSMU, SAINS, STB, SCB, SCC, STF

Action step (s)	Output (s)	Timeline	Resources required
14.4.4 Support S Global Pay as a payment gateway	Integrated S Global Pay as a payment gateway for all tourism related e-commerce platform Enhanced S Global Pay user among local and foreign visitors *Number of S Global Pay users as at 11 July 2021 is 550,000, out of which about 5,000 are non-local (without NRIC)* *As of 11 July 2021, total amount transacted via S Global Pay is over RM 1.3 billion and total number of transactions is over 30 million*	Start date 2022 End date 2030	Existing e-commerce platform, Sarawak Travel App

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, STB	SMA, SSMU, SAINS, STB, SCB, SCC, STF

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	14. Digital tourism (cont'd)
Action step	:	14.4 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
14.4.5 Tourists Loyalty Programme ● Introduction of programme / virtual card that can provide incentives and promotion for tourists and Sarawakians	Tourist benefited the privilege via loyalty programme such as e-coupon, discount and other value-added offered in the package. Increase e-commerce traffic thus encouraged tourists to visit and revisit Sarawak and visitor's arrival increased Enhanced digital economy with incentives for/from tourism industry players leading to repeat purchases Improved brand loyalty with special benefits given to certain demographics of users Improved services and products designed from the data collected from the use of the card. Reach of card use to leverage on users of S Global Pay (Subject to further discussions). ● Projected S Global Pay users at end of 2021: 650,000 of which 60% are active users ● Projected growth per year: 30%"	Start date 2021 End date 2030	Existing e-commerce platform, Sarawak Travel App

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, STB	SMA, SSMU, SAINS, STB, SCB, SCC, STF

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	14. Digital tourism (cont'd)
Action step	:	14.5

Action step (s)	Output (s)	Timeline	Resources required
14.5 Sarawak's Visitor Landing Application integrated with EnterSarawak		**Start date**	Applied under RMK 12 ICT project funding amount: RM2 mil QR Code, Digital Template Form
14.5.1 Engagement with EPU Sarawak, JIMS and SSMU to come with the digital application	An application fulfilled all requirements of the TORs	2019 **End date** 2021	
14.5.2 Digitalise the workflow • To create QR code and template form for visitors to fill in the required information. • Visitors created an account and fill in an individual or a group submission card. • Visitors need to fill the important information like the date of departure and entry address, and the place of entry and exit. • Upon successful submission, a confirmation barcode with reference details will be displayed. When transiting, visitors must present the confirmation barcode on mobile phone at immigration counter, and stamp or scan the passport before entering the state.	1. Visitors submitted the information after completing fill in the form and received a confirmation code 1. The immigration officer verified the confirmation code by scanning the code. 1. Information of visitors stored in app and report generated for internal used.	**Start date** 2022 **End date** 2030	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JIMS	MTAC, SSMU

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	14. Digital tourism (cont'd)
Action step	:	14.5 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
14.5.3 Troubleshooting and maintenance of the apps every 6 months	The system security up to date with secure data	Start date 2022 End date 2030	IT executive, Server
14.5.4 Planning	Quick real time intelligent system Visitors data analysed – pattern and trends Visitors exit survey data generated	Start date 2022 End date 2030	
14.5.5 Integration with My Travel Pass App and health declaration application	Information linked and captured in one app; ● Vaccination certificate showed in app ● PCR Test ● Health declaration ● Visitor details information ● Visitors Trip information ● Visitors trip history ● Visitors pattern and trend captured in data storage	Start date 2022 End date 2030	IT executive, Server

Project Owner	Implementing Agency	Other Stakeholders
MTAC	JIMS	MTAC, SSMU

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Position Sarawak as a preferred tourism destination
Initiative	:	15. Devolution of power of tourism matters

Initiative	Desired Outcome (s)
15. Devolution of power of tourism matters	**Economic Prosperity** ● More effective development and regulation of Sarawak's tourism industry ● Direct control and supervision of tourism related matters by the state. ● More efficient licensing and permit application processing. ● More effective enforcement under state's own ordinance. ● No. of complaint reduced as more enforcement officers can be deployed. ● Increase revenue collection from permits and licence for the state

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Legal Officer

Project Owner	Implementing Agency	Other Stakeholders
MTAC in collaboration with SAG and MOTAC	MTAC	SAG, EPU Sarawak, MOTAC, Tourism Malaysia, SCB, STB, industry players

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	15. Devolution of power of tourism matters
Action step	:	15.1 - 15.3

Action step (s)	Output (s)	Timeline	Resources required
15.1 Follow up with the DOP committee members on the outcome of the tourism matters	Tourism matters put under Concurrent List instead of Federal List.	Start date: 2021 End date: 2022	Legal Officer

Project Owner	Implementing Agency	Other Stakeholders
SAGC	MTAC	-

Action step (s)	Output (s)	Timeline	Resources required
15.2 Proposed Sarawak Tourism Ordinance and Regulations	Regulated Licensing, specifically on Tour Companies, Vehicles, homestays and other tourism related matters. Hotels in Sarawak regulated. Enforcement throughout the whole Sarawak under the Ordinances enforced.	Start date: 2022 End date: 2030	MTAC Officer

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	SAGC, MOTAC, Tourism Malaysia, SCB, STB, industry players

Action step (s)	Output (s)	Timeline	Resources required
15.3 Restructuring of MTAC to implement the new ordinance.	Establishing licensing and enforcement units and regional offices	Start date: 2022 End date: 2025	MTAC Officer

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	MOTAC

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Position Sarawak as a preferred tourism destination
Initiative	:	16. Diversify from Leisure Tourism

Initiative	Desired Outcome (s)
16.1 To promote and support sports tourism as one of the pillars of Sarawak tourism	**Economic Prosperity** • Increase visitors arrivals and tourism receipts through promoting Sarawak as an international Sports Tourism destination • Ten (10) sports tourism event • Expected number of visitors = 30,000 / year (3,000 visitors/event) with annual increase of 10% • Expected revenue generated = RM84 mil / year with annual increase of 10%

Timeline		Resources Required
Start Date	End Date	
2021	2030	• RM50 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	MYSS, SSC, MSN, NGOs

Initiative	Desired Outcome (s)
16.2 Positioning Sarawak as preferred wellness tourism destination in Malaysia	**Economic Prosperity** • Increase visitors arrivals and tourism receipts through promoting Sarawak as an international wellness Tourism destination • 9% annual growth rate of health visitors to 120,000 with RM162 mil in health revenue by 2030 targeting Balikpapan and Palangkaraya (calculation based on 54,000 health visitors which bring RM73 mil health revenue in 2019) • 5 new hospitals by 2030 (11 hospitals in 2020)

Timeline		Resources Required
Start Date	End Dat	
2021	2030	• Promotion and marketing: RM10 mil • Upgrading of facilities, medical experts, medical labs: RM50 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, STB	MHTC, TM, Sarawak medical centres (public and private)

Note: Downside risks and key challenges to projected growth in terms of economic contribution and visitor arrivals include new variant of COVID-19, efficacy of current vaccines against new variant, global socioeconomic uncertainty, travel restrictions, quarantine, low traveller confidence and longer than expected recovery period.

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Position Sarawak as a preferred tourism destination
Initiative	:	16. Diversify from Leisure Tourism (cont'd)

Initiative	Desired Outcome (s)
16.3 Develop Sarawak as Education tourism Hub of the region	**Economic Prosperity** ● Increased visitors arrivals through International students and families ● 5% growth rate increase to 2120 students by 2030 ○ No of active international student in Sarawak Campus for 2020 is 1,367 student ■ UCTS: 5 ■ UCSI: 27 ■ UNIMAS: 307 ■ Swinburne: 600 ■ Curtin: 42 ● Number of educative tour and local institutions offering educational visits and exchanges ● Number of experiential visits by students from overseas ● Knowledge/DEEP Tourism (Sabbatical leave/Research)

Timeline		Resources Required
Start Date	End Date	
2021	2030	● RM4 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC in collaboration with MESTR and MOHE	STB	STATOS, STB

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	16. Diversify from Leisure Tourism
Action step	:	16.1

Action step (s)	Output (s)	Timeline	Resources required
16.1 To promote and support sports tourism as one of the pillars of Sarawak tourism		Start date	Internal MTAC
16.1.1 Engagement with MYSS to attract international sporting events	Increase number of active international students	2021 End date 2025	
16.1.2 Development of sporting events	Increase number of sports events	Start date 2025 End date 2030	Internal MTAC

Project Owner	Implementing Agency	Other Stakeholders
MYSS, MTAC	MYSS, STB	SSC, NGOs, R&DO, local communities

Action step (s)	Output (s)	Timeline	Resources required
16.1.3 Provide support through sponsorship to any high potential events	State Government to give financial assistance to organise the events.	Start date 2021	-
16.1.4 To assist with the promotions / marketing	Promotions strategies with relevant agencies / departments.	End date 2030	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	SSC, NGOs, R&DO, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	16. Diversify from Leisure Tourism (cont'd)
Action step	:	16.2

Action step (s)	Output (s)	Timeline	Resources required
16.2 Positioning Sarawak as preferred wellness tourism destination in Malaysia		Start date	RM1 mil per annum
16.2.1 Marketing and promotion activities to position Sarawak as preferred wellness tourism destination based on key focus market • Online and offline promotion and marketing - • Aggressive marketing targeting Balikpapan and Palangkaraya	2 marketing activities organised for wellness tourism 7.5% visitor arrivals increase Marketing and promotional material on wellness tourism - promotional video, brochure (different translation of languages based on key focus market)	2021 End date 2030	
16.2.2 Collaboration and engagement with private hospitals, MHTC, Malaysia Embassies, Wellness, Spa, reflexology, and association • Online and offline promotion and marketing • Collaborate with hospitals & agents in Sarawak to promote the medical tourism	6 collaboration with Malaysian Embassies (Appendix 3.11A& 23.11B– Malaysian Embassies in Indonesia & China) 6 private hospitals collaborate with Sarawak Tourism and MHTC (currently 3 private hospitals – BMC Kuching & Miri/Normah MC) Collaboration with MHTC to further promote Sarawak as a tourism health hub in Borneo International wellness tourism events 9% annual growth rate of health visitors to 120,000 with RM162 Million in health revenue by 2030	Start date 2022 End date 2030	Funding

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	MHTC, Tourism Malaysia, Sarawak medical centres (public and private)

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	16. Diversify from Leisure Tourism (cont'd)
Action step	:	16.2 (cont't)

Action step (s)	Output (s)	Timeline	Resources required
16.2.3 Improvement of health facilities	Service counter for wellness visitors especially for health visa holders Faster immigration facilities at airports and borders for health visa holders. Special lane at Immigration Counter for health visa holders	Start date 2021 End date 2030	Service counter, funding, manpower, approval from higher authority
16.2.4 Service counter for wellness visitors especially for health visa holders	Faster immigration facilities at airports and borders for health visa holders. Special lane at Immigration Counter for health visa holders Health facilitation desk at airports and borders	Start date 2022 End date 2030	Special lane at immigration counter, approval from higher authority

Project Owner	Implementing Agency	Other Stakeholders
MTAC	Immigration Department	STB, MHTC, Tourism Malaysia, Sarawak medical centers (public and private)

Action step (s)	Output (s)	Timeline	Resources required
16.2.5 Improvement of facilities	Access to ambulance and stretchers at airports and borders.	Start date 2021 End date 2030	Funding, manpower

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, STB	MAHB, MHTC, Tourism Malaysia, JIMS, Sarawak medical centres (public and private)

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	16. Diversify from Leisure Tourism (cont'd)
Action step	:	16.2 (cont't)

Action step (s)	Output (s)	Timeline	Resources required
16.2.6 Special wellness package to attract health patient to get treatment in Sarawak	RM68.9 mil as average medical tourism receipts per annum	Start date 2021 End date 2030	Good package by private hospitals

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	MHTC, Tourism Malaysia, Sarawak medical centres (public and private)

Action step (s)	Output (s)	Timeline	Resources required
16.2.7 Engage international doctors working in Sarawak to obtain feedback on the policy for medical expert	Number of experienced international doctor Experienced a new way of learning from international doctors	Start date 2022 End date 2030	Expert international doctors

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, STB, private hospitals	MHTC, Tourism Malaysia, Sarawak medical centres (public and private)

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	16. Diversify from Leisure Tourism (cont'd)
Action step	:	16.3

Action step (s)	Output (s)	Timeline	Resources required
16.3 Develop Sarawak as Education tourism Hub of the region		**Start date**	Internal MTAC
16.3.1 Engagement with MOHE to attract international students	Increase number of active international students	2021	
		End date	
		2025	
16.3.2 Development of educational tour visits	Numbers of educational visits packages	**Start date**	Internal MTAC
		2025	
		End date	
		2030	

Project Owner	Implementing Agency	Other Stakeholders
MOHE, MTAC	MOHE, STB	STATOS, STB

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Position Sarawak as a preferred tourism destination
Initiative	:	17. Promote volunteerism and responsible tourism

Initiative	Desired Outcome (s)
17. Promote volunteerism and responsible tourism	**Social Inclusivity** ● 10 Youth Leadership Responsible Tourism ● 2,000 Grab drivers trained and engaged in tourism in 2020 & 2021 ● Programme organised by 2030 ○ 10 Youth Talent Program organised by 2030 **Environmental Sustainability** ● 20 issues of JRTM published by 2030 ● Branding of Sarawak as a responsible tourism destination in line with the United Nations' Sustainable Development Goals ● 10 International Responsible Tourism Conference (ICRTH) organised by 2030 ● Sustainable tourism for Sarawak by improving access to education as well as facilitating fair and equal access (SDG 5) for improved work opportunities for women (3% increase) and youths (5%) (SDG8), preserving authenticity in the face of over tourism by promoting local culture and products (SDG12) with 10% increase in sales, giving income generated by tourism for the use of conservation, education and research

Timeline		Resources Required
Start Date	End Date	
2021	2030	● RM2 mil (publications, conferences and RT related events / trainings)

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB, SCB	Universities, tourism stakeholders, research organisations, schools

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	17. Promote volunteerism and responsible tourism
Action step	:	17.1 - 17.2

Action step (s)	Output (s)	Timeline	Resources required
17.1 Sarawak Tourism Ambassadors • Provide training to e-hailing drivers • Specific on type of training, mainly tourism ambassadors • Create awareness on Sarawak tourism products	Phase 2: 7,200 tourism ambassadors (TA) to be trained (800 TA per year) 2020-2021: 2,000 e-hailing drivers trained	Start date 2022 End date 2030	RM0.3 mil per annum for training, trainer, module

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	Grab, MAXIM, CENTEX

Action step (s)	Output (s)	Timeline	Resources required
17.2 Planning (STB): • Engage with homestay (practising responsible tourism, • Recycling, • Volunteerism Tourism–guide • Provide training to grab drivers (one of the step) – train them to be a tourism ambassador • Sustainability index by SCB	Satisfaction level of tourist increased. Visitors stay longer in Sarawak • Length of stay increase from 5.5 days to 7.5 days	Start date 2021 End date 2030	Job creation, funding, training, skills, trainer, module

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, STB, SCB	Universities, tourism stakeholders, research organisations, schools

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	17. Promote volunteerism and responsible tourism (cont'd)
Action step	:	17.3

Action step (s)	Output (s)	Timeline	Resources required
17.3 Engagement and collaboration with universities, research organisations on promoting Sarawak as a Sustainable responsible tourism destination	• To publish 20 issues of JRTM by 2030 featuring 150 articles from countries in all continents; • To conduct 10 JRTM forums to attract international delegates each time, physical and virtual; • To have 80 Editorial Board members from 30 countries by 2025 (academic and industry); • To become one of the indexed and internationally reputable journals in tourism field by 2025. • To organise 10 International Conference on Responsible Tourism & Hospitality (ICRTH) by 2030. ICRTH will build upon the last achievements, such as: • 3,500 delegates from 96 countries / all continents; • Supported by 15 international institutions in Asia, including Taiwan, Thailand, Vietnam, Indonesia, Japan, etc. • 100 speakers from 28 countries including those from UNESCO, UNWTO, PATA, WTACH, UNU.	**Start date** 2021 **End date** 2030	Funding, indexing, promotion and submission by the locals, recognition in tourism activities (including JRTM logo)

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	17. Promote volunteerism and responsible tourism (cont'd)
Action step	:	17.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	• To organise 10 Responsible Youth Leader (RYL) Programs on tourism in Southeast Asia (SEA) by 2030. • To have 500 youth in SEA taking part in RYL Awards; • To have 10,000 youth in SEA joining RYL webinars and summits, physical and virtual; • To be affiliated with 20 international institutions, including UNWTO, UNESCO; • To have 50 youth ambassadors in SEA advocating for responsible leadership in tourism. • To develop framework for SACREST: Sarawak Commitment to Responsible Tourism in phases to benchmark tourism products and activities in Sarawak and beyond. • To design Museum, Cultural and Heritage Trails in Sarawak; • To design Experiential Tourism (pilot study to be done in Bau); • To come out with printed and online contents with effective branding and stories; • To empower local communities; • To hold domestic / international events, e.g. launching, seminars and International Museum Day	**Start date** 2021 **End date** 2030	Funding, support from relevant agencies, travel and hospitality support (e.g. health clearance, hotels, tour guides, transport), promotion or boosting, keynote speakers' honorarium, recognition

Project Owner	Implementing Agency	Other Stakeholders
MTAC in collaboration with SRS	MTAC, SRS, STB, UCSI University, Museum Department Sarawak	United Nations University, RCE Kuching, Emerald Publishing, Southeast Asia Research Academy (SEARA), UNWTO, UNESCO, PATA, WTACH, tour operators, hotels, transportation, youth, local community, etc.

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	17. Promote volunteerism and responsible tourism (cont'd)
Action step	:	17.4

Action step (s)	Output (s)	Timeline	Resources required
17.4 Increase involvement of women in tourism sector ● Skill development ● Market and promote local product at international events	3% job opportunities for women participation in tourism sector Improvement of skill on the jobs marketed and promoted local products at international events / online platform	**Start date** 2021 **End date** 2030	Funding, Job Creation, Skills, Training, knowledge, products, trainer and module

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, STB	STB, MYSS, SAC, SCC, KKWPK, DOSM

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Improve capacity and capability of human capital
Initiative	:	18. Capacity building of licensed Region Specific Tourist Guides and Park Guides

Initiative	Desired Outcome (s)
18. Capacity building of licensed Region Specific Tourist Guides (RSTG) and Park Guides (PG)	**Social Inclusivity** ● Number of Tourist Guides increase to 400 by 2030 (Existing 219) ● Number of Park Guides increase to 300 by 2030 (Existing 173) ● 100 of eco/community hosts by 2030 ● Continuous Tourism Related Education (CTRE) program for RSTG/PG on capacity building and product updates ● Periodical review of training syllabus

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	MOTAC, DTTG, learning institutions, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	18. Capacity building of licensed Region Specific Tourist Guides and Park Guides
Action step	:	18.1 - 18.3

Action step (s)	Output (s)	Timeline	Resources required
18.1 Collaboration to organise Regional Specific Tourist Guide Course with: • Yayasan Sarawak (Scholarship) • CENTEX (Learning Institution)	400 New Tourist Guides by 2030 (Current: 219)	Start date 2021 End date 2030	Total for initiative: RM5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	MOTAC, DTTG, learning institutions, NGOs, local communities, other relevant tourism stakeholders

Action step (s)	Output (s)	Timeline	Resources required
18.2 Collaboration with SFC to organise Park Guide Trainings	300 New Park Guides by 2030 (Current: 180) 100 eco/community host by 2030	Start date 2021 End date 2030	Included in total: RM5 mil

Project Owner	Implementing Agency	Other Stakeholders
SFC, MTAC	SFC, MTAC	MOTAC, DTTG, learning institutions, NGOs, local communities, other relevant tourism stakeholders

Action step (s)	Output (s)	Timeline	Resources required
18.3 Engagement sessions with relevant agencies to periodically review training syllabus	Training syllabus updated and validated for 3 - 5 years duration.	Start date 2021 End date 2030	Included in total: RM5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	MOTAC, DTTG, learning institutions, NGOs, local communities, other relevant tourism stakeholders

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	18. Capacity building of licensed Region Specific Tourist Guides and Park Guides (cont'd)
Action step	:	18.4

Action step (s)	Output (s)	Timeline	Resources required
18.4 Collaboration with SKTGA to organise courses for mandatory renewal of RSTG licence.	Continuous Tourism Related Education (CTRE) Program: ● Education ● Management ● Tourism product development ● Skills	**Start date** 2021 **End date** 2030	Included in total: RM5 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC, MOTAC	MTAC, MOTAC	MOTAC, DTTG, learning institutions, NGOs, local communities, other relevant tourism stakeholders

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Improve capacity and capability of human capital
Initiative	:	19. Capacity building of local communities in handicraft production, entrepreneurship and digital technology to promote local crafts

Initiative	Desired Outcome (s)
19. Capacity building of local communities in handicraft production, entrepreneurship and digital technology to promote local crafts	**Economic Prosperity** ● Ensuring continuous education, marketing and promotion of the various authentic Sarawak handicrafts products and to achieve by 2030 (based on 2019) ● Increased in total sales for entrepreneurs from RM32 million in 2019 to RM183.6 million by 2030 (based on CAGR of 21%) ● Increased 14.6% average entrepreneur monthly income of RM2221.50 per month (2016-2020) to RM7,575 per month by 2030 (based on ave annual household income increase 14.6% CAGR) ● Increased number of entrepreneur from 1,096 in 2020 to 1,800 by 2030

Timeline		Resources Required
Start Date	End Date	
Jan 2022	Dec 2030	● RM10.5 mil ○ Community outreach: RM1.5 mil ○ Entrepreneurs development: RM4.5 mil ○ Production skill: RM0.9 mil ○ Digital technology: RM1.2 mil ○ Basic production skill: RM1.2 mil ○ Basic business: RM1.2 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCC	R&DO, DTTG, NGOs, local communities MINTRED, CENTEX, Kolej Komuniti, Kraftangan Malaysia, SEDC, local universities and learning institutions

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	19. Capacity building of local communities in handicraft production, entrepreneurship and digital technology to promote local crafts
Action step	:	19.1 - 19.3

Action step (s)	Output (s)	Timeline	Resources required
19.1 Identify skill gaps • Training Need Analysis and market survey by appointed consultants • Market and product survey and analysis	1. Industry skills requirement (production skill, business skills, design skills and any other skills) 1. List of • High demand products • High Value products • List of potential products • List of raw materials and sources • List of Existing markets • List of potential markets	Start date Oct 2021 End date May 2021	Consultant

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCC	R&DO, DTTG, NGOs, local communities, MOTAC, Homestay operators, MINTRED, CENTEX, Kolej Komuniti, Kraftangan Malaysia, SEDC, local universities and learning institutions

Action step (s)	Output (s)	Timeline	Resources required
19.2 Identify training providers for skills required as per TNA	List of training providers	Start date Jun 2022 End date Jul 2022	Consultant
19.3 Identify skills needed & training providers	1. Training modules, duration, cost, training providers and schedule	Start date Jul 2022 End date Sep 2022	Consultant
	2. MOU with Training Providers	Start date Oct 2022 End date Oct 2022	Consultant

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCC	-

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	19. Capacity building of local communities in handicraft production, entrepreneurship and digital technology to promote local crafts (cont'd)
Action step	:	19.4 - 19.6

Action step (s)	Output (s)	Timeline	Resources required
19.4 Recruit / select participants and implementation of training programmes / activities	Increase of handicraft entrepreneurs from 1096 in 2020 to 1800 in 2030 with in-depth skills in ● Business skills and entrepreneurship ● Digital technology ● Production skills ● Design and production of new products	Start date Nov 2022 End date Dec 2030	RM9 million

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SCC	-

Action step (s)	Output (s)	Timeline	Resources required
19.5 Monitoring and mentoring of trainees	All participants successfully complete and benefited from their training courses. All participants have access to market information, business development and opportunities.	Start date Jan 2023 End date Dec 2030	-

Project Owner	Implementing Agency	Other Stakeholders
SCC	SCC	-

Action step (s)	Output (s)	Timeline	Resources required
19.6 Monitoring and outreach programmes		Start date	RM1.5 mil
19.6a Monitor producers monthly sales and production outputs	1. Monthly sales and output reports of all producers 2. Periodic reports on new products	Jan 2024	
19.6b Periodic engagement and consultation with industry stakeholders (5 sessions per year)	1. Feedbacks from industry stakeholders (for policy, programmes and activities planning) 2. Create awareness and interest in the industry 3. Ensure information (market trends, demand, policies) are disseminate to stakeholders	End date Dec 2024	

Project Owner	Implementing Agency	Other Stakeholders
SCC	SCC	-

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	19. Capacity building of local communities in handicraft production, entrepreneurship and digital technology to promote local crafts (cont'd)
Action step	:	19.7 - 19.8

Action step (s)	Output (s)	Timeline	Resources required
19.7 Evaluate and review all training programmes and modules	Develop more effective training modules	**Start date** Jun 2023 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
SCC	SCC	-

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Improve capacity and capability of human capital
Initiative	:	20. Establishing Akademi Seni Sarawak (AKSES)

Initiative	Desired Outcome (s)
20. Establishing Akademi Seni Sarawak (AKSES)	**Economic Prosperity** ● Ensuring continuous education, marketing and promotion of the various authentic Sarawak handicrafts products and to achieve by 2030 (based on 2019) ● Increased in total sales for entrepreneurs from RM32 million in 2019 to RM183.6 million by 2030 (based on CAGR of 21%) ● Increased 14.6% average entrepreneur monthly income of RM2221.50 per month (2016-2020) to RM7,575 per month by 2030 (based on ave annual household income increase 14.6% CAGR) ● Increased number of entrepreneur from 1,096 in 2020 to 1,800 by 2030

Timeline		Resources Required
Start Date	End Date	
Jan 2023	Dec 2030	● AKSES staffs: RM1.5 mil per year ● International exchange program: RM1 mil per year ● Training for trainers: RM0.2 mil per year ● Total: RM2.7 mil per year

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SAC	R&DO, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	20. Establishing Akademi Seni Sarawak (AKSES)
Action step	:	20.1 - 20.5

Action step (s)	Output (s)	Timeline	Resources required
20.1 Engagement with community, industry players and enthusiasts	Identification of experts Opinions and buy in from stakeholders	**Start date** Jan 2023	AKSES staffs: RM1.5 mil per year International exchange program: RM1 mil per year Training for trainers: RM0.2 mil per year Total: RM2.7 mil per year
20.2 Establish syllabus and identify teaching instructors	An established programme syllabus and accredited instructors for 7 programmes MOU with trainers		
20.3 Collaboration with STB for promotion on enrollment	Aggressive promotion throughout multiple platform	**End date** Dec 2030	
20.4 Conducting training and development programmes and classes	1260 trainees per year		
20.5 Evaluation of students and training quality	Participants successfully completed their training and certified		

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SAC, STB	R&DO, NGOs, industry players, Sekolah Seni Sarawak Malaysia, Jabatan Kebudayaan dan Kesenian Negeri, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Improve capacity and capability of human capital
Initiative	:	21. Capacity building of tour operators in digital tourism

Initiative	Desired Outcome (s)
21. Capacity building of tour operators in digital tourism (related to Initiative 14 - Digital Tourism)	**Economic Prosperity** ● Tourism players getting ready to embrace digital tourism which is the way forward. ● Since Sarawak Tourism Online Ecosystem Fund (STOEF) was launched in mid-2020, a total of 105 (45 in 2020 and 60 in 2021) registered and licensed Sarawak Inbound Tour Operators, homestay clusters, hotels, handicraft entrepreneurs have taken up the Fund with a total of RM225,000 disbursed in 2020, and RM300,000 allocated for 2021. ● A seed fund of RM5,000 for website development, booking engine, online advertising and content production is allocated per successful application. ● 60-100 participants will be targeted per year. ● The Online Ecosystem Fund looks to provide assistance to industry players in the digitizing of their offerings. It seeks to improve and help tourism players move into the digital era. ● Improve tourism players knowledge of products via E-learning platforms, allowing them to keep up to date with Sarawak's tourism offerings.

Timeline		Resources Required
Start Date	End Date	
June 2020	Dec 2030	● RM0.5 mil per year

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	R&DO, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	21. Capacity building of tour operators in digital tourism
Action step	:	21.1 - 21.3

Action step (s)	Output (s)	Timeline	Resources required
21.1 Identification of tourism sectors / players through online application	By 2030, target of 100 players a year to be eligible for the Ecosystem Fund	**Start date**	RM4.5 mil
21.2 Establish syllabus and identify teaching instructors	Review and approval for the provision of assistance for the capacity building of tourism players	2022	
		End date	
21.3 Collaboration with STB for promotion on enrollment	Target of 60% of tourism players adopting digital components in the provision or delivery of their services or products	2030	

Project Owner	Implementing Agency	Other Stakeholders
MTAC	STB	R&DO, NGOs, local communities

AIP Level 1 - Tourism sector

Sector	:	Tourism
Strategy	:	Improve capacity and capability of human capital
Initiative	:	22. Enhance community-based tourism

Initiative	Desired Outcome (s)
22. Enhance community-based tourism	**Economic Prosperity** ● Diversify community-based tourism activities ● Number of homestays: ○ 3% increase to 60 homestays by 2030 (existing 46 homestays) ● 5% growth of homestay operators from 607 In 2019 to 1,028 by 2030 ● 18% increased of homestay operator monthly income from RM645.88 in 2019 to RM2,800 by 2030 **Social Inclusivity** ● More community participation in tourism sector with higher household income from community-based tourism. ● Continuous capacity building and tourism product development training for community. ● Increased number of local Community Host

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	● RM10 mil ○ Cultural development: RM1.25 mil ○ Crafts development: RM1.5 mil ○ Hospitality courses: RM1.25 mil ○ Event management: RM1 mil ○ Adventure activities: RM1.5 mil ○ Community host: RM1.5 mil ○ Tourism awareness: RM2 mil

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	MOTAC, DTTG, learning institutions, NGOs, local communities

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	22. Enhance community-based tourism
Action step	:	22.1 - 22.4

Action step (s)	Output (s)	Timeline	Resources required
22.1 Collaborate and engage with tourism industry players to develop locally distinctive products in term of Culture, Adventure, Nature, Food and Festival categories. • Packaging, testing, evaluation	FAM trip organised. New tourism product marketed and promoted. 900 local community trained in entrepreneurship for the tourism service industries. • 1 zone: 30 pax • 3 zones: 90 pax/per year	Start date Jan 2021 End date Dec 2030	Total for initiative: RM10 mil
22.2 Provide assistance to develop or upgrade basic facilities at tourism attractions through community collaboration / engagement	New or upgrade basic facilities to the tourist destination / attraction (e.g. toilet, parking, fencing and litter bin, trails, etc.)		

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC	MOTAC, DTTG, learning institutions, NGOs, local communities, other relevant tourism stakeholders

Action step (s)	Output (s)	Timeline	Resources required
22.3 Organise Community Host Course for certified homestay & local communities.	900 new community host trained by 2030. • 3 zones in Sarawak: 30 per zone • 90 pax trained per year	Start date Jan 2021 End date Dec 2030	Included in total: RM10 mil
22.4 Collaboration and engagement with relevant stakeholders to acknowledged community host as local guides with appropriate training and certification.	Trained community host are acknowledged and certified as local guides to transact tour guiding activities in their own territory.		

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, MOTAC	MOTAC, DTTG, learning institutions, NGOs, local communities, other relevant tourism stakeholders

AIP Level 2 - Tourism sector

Sector	:	Tourism
Initiative	:	22. Enhance community-based tourism (cont'd)
Action step	:	22.5 - 22.6

Action step (s)	Output (s)	Timeline	Resources required
22.5 Organise Tourism Awareness Programs for potential homestays ● 5 programmes per year	Number of Homestay: increase by 3% to 60 homestay by 2030 (existing 46 homestay) 5% growth of homestay operators from 607 In 2019 to 1,028 by 2030 18% increase in Homestay operators' monthly income from RM645.88 in 2019 to RM2,800 by 2030	**Start date** Jan 2021 **End date** Dec 2030	Included in total: RM10 mil
22.6 Collaboration and engagement with MOTAC, DTTG and Community Association to registered local community operating homestay without valid certification.	Illegal local community homestay to be registered under MOTAC endorsement program.		

Project Owner	Implementing Agency	Other Stakeholders
MTAC	MTAC, MOTAC	MOTAC, DTTG, learning institutions, NGOs, local communities, other relevant tourism stakeholders

1.4 Forestry

Aspiration for Forestry Sector

The forestry sector aims to practice sustainable management and conservation, and to achieve world recognition. The sector will provide inclusive growth from Sarawak's rich resources by creating economic opportunities for rural communities.

To support aspirations in Sarawak 2030, the sector needs to generate revenue streams from forest resources, and export earnings from the timber industry. In addition, the sector needs to increase forestry's purpose for recreation and tourism.

The focus of forest management practices and stewardship is anchored on the development of a Sustainable Sarawak Blueprint, and balancing the rate of deforestation and growth (i.e. increasing product yield and enhancing services obtained from forests).

Figure 1.4.1: Aspiration framework for forestry sector

Aspiration	**By 2030, Sarawak to be globally recognised in sustainable management of tropical forest and biodiversity conservation while enhancing the rapid growth of timber industry**		
Key outcomes	**Sustainable development and conservation**	**World recognition**	**Revenue, export earnings & rural transformation** / **Environmental Sustainability**
Strategies	**Generate government revenue by developing new revenue streams from forest resources**	**Gain higher export earnings through the advancement in downstream processing**	**Gain national and international recognition through conservation and sustainable management**
Catalytic initiatives	**Generate revenue from payment for ecosystem services (PES)**	**Increase value added processing activities to accelerate growth in forest earnings**	**Achieve world class recognition for biodiversity conservation & protected areas management**
Key levers	**Development of forestry specific HC skills**	**Research and Development (R&D)**	**Precision forestry for efficient delivery of services**
	Infrastructure / **Stakeholders**	**Regulatory framework** / **Innovative environment**	**Human capital** / **Raw materials**

Figure 1.4.2: Summary of desired outcomes for forestry sector

Summary of key outcomes

Economic prosperity

RM1,881.9 bil
Economic spin-off by 2030

RM535 mil / year
State revenue from Timber Royalty / Premium / Cess

RM936 mil / year
Revenue from ecosystem services - including tourism and carbon trading

RM831 mil
Potential new investment

RM6 bil
Export earnings from value-added products

RM800 - RM13,000
Household income per month created

Social inclusivity

47,293
Jobs supported

4,106
High income jobs supported

20
New entrepreneurs in wood-based industry

100
World class young designer

Environment sustainability

56%
Forest cover maintained

Contribute to national carbon emission reduction target of **45%**

Zero non-compliance activities of logging operation in licensed area.

5 additional TPAs
Achieve international recognition

1 million ha
Well-managed natural areas as TPAs

65
Forest timber licence (3.7 mil ha forest area) certified and managed in sustainable manner

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	1. Formulate Sarawak Climate Change Policy and Low Carbon Society Blueprints

Initiative	Desired Outcome (s)
1. Formulate Sarawak Climate Change Policy and Low Carbon Society Blueprints in Cities and Towns in Sarawak (Kuching, Miri, Sibu and Bintulu)	**Economic Prosperity** ● 5% of SME derived from green economies by 2030 **Social Inclusivity** ● 5% of the job created are green jobs by 2030 **Environmental Sustainability** ● Reduction of Carbon (GHG) emission as much as 45% by 2030 ● Increased Infrastructure Resiliency up to 80% ● Daily API in Kuching, Miri, Sibu and Bintulu to be reduced/maintained to healthy level (API below 50)

Timeline		Resources Required
Start Date	End Date	
Jan 2022	June 2023	● **RM 3,000,000.00** Fund will be required for payment of consultant to conduct the Study as follows: ● January - June 2022 (Inception Report (10%): RM 300,000) ● June – December 2022 (Interim Report (40%) and Draft Final Report (20%): RM1,800,000) ● January – June 2023 (Final Report (30%): RM900,000)

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR	SFS, SAG, MINTRED, MLGH, MANRED, MOU, MOT, NREB, SEB, MTAC, FDS, SFC, KASA, KeTSA, DOE, MGTC.

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	1. Formulate Sarawak Climate Change Policy and Low Carbon Society Blueprints
Action step	:	1.1 - 1.5

Action step (s)	Output (s)	Timeline	Resources required
1.1 Preparation of TOR and Procurement of Consultancy services in accordance with the Manual Perolehan Perkhidmatan Perunding Kerajaan Negeri	ToR for procurement of consultant service	**Start date**	
1.2 Appointment of Consultant to undertake the work	Letter of appointment/award letter	Jan 2022	
1.3 Undertake the Study with the desire to attain the following outcomes by 2030: 1. 5% of SME derived from green economies by 2030 2. 5% of the job created are green jobs by 2030. 3. Reduction of Carbon (GHG) emission as much as 45% by 2030. 4. Increased Infrastructure Resiliency up to 80%. 5. Daily API in Kuching, Miri, Sibu and Bintulu to be reduced/maintained to healthy level (API below 50).	A draft Sarawak Climate Change Policy and Low Carbon Cities Blueprints in Cities and Towns in Sarawak which incorporating, but not limited to the following: ● A baseline on greenhouse gases emission in Sarawak; ● A reporting framework to track GHGs contributors; ● A Policy Statement and Blueprint documents for Kuching, Miri, Sibu and Bintulu; and ● A report documenting mitigation and adaptation strategies and action plans including establishing an entity for the management of Climate Change and Green Initiative.	**End date** June 2023	12MP Ceiling: RM3 mil Site: The whole State with the focus at Kuching, Miri, Sibu and Bintulu, Sarawak Appointment of consultant Cash Flow:- 2022: RM1.5 mil 2023: RM1.5 mil
1.4 Seek endorsement from the Minister/MMKN on the proposed Sarawak Climate Change Policy and Low Carbon Cities Blueprints in Cities and Towns in Sarawak	1. Proposal /MMKN paper 2. Decision from the Minister/MMKN 3. Sarawak Climate Change Policy and Low Carbon Cities Blueprints in Cities and Towns in Sarawak		
1.5 Monitor the implementation of action plans and desire outcomes	Monitoring Report which include the performance of the KPIs		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR	MLGH, MINTREP, MOT, EPU Sarawak, FDS, DID, DOA, local authorities, private sector, local interest groups, non-governmental organisations, other relevant stakeholders

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	2. Establish Permanent Sample Plot Network In Sarawak

Initiative	Desired Outcome (s)
2. Establish Permanent Sample Plot Network In Sarawak	**Economic Prosperity** ● Economic spin-off: RM20 mil / 5 years ● Reduce cost and time for future resources assessment and increase assessment coverage areas from 1ha/3days to 6ha/day ● Create household income: RM800 - RM2,500/ monthly/person **Social Inclusivity** ● Enhance research and development (R&D) skill for at least 200 staff of Forest Department Sarawak by upgrading of laboratories, research facilities and application of advance technology by 2025 ● Estimated at least 60 local communities involved in implementation of field work (estimated 10 local community in each selected FMU) by 2025. **Environmental Sustainability** ● Contribute to at least 6 FMU to obtain certification through data sharing and findings by 2025 ● Enhance Sustainable Forest Management (SFM), projection of future timber revenue, Above Ground Biomass and Carbon through comprehensive compilation and analysis of timber stocking and growth database by 2025 ● A high accuracy of projection model developed for projection of reliable Annual Allowable Cut (AAC) by incorporating plot data collected and LiDAR technology by 2025

Timeline		Resources Required
Start Date	End Date	
2021	2025	● 12MP Ceiling: RM4,000,000.00 ● Site: FMU areas ● Manpower: 2 Research officers, 2 Assistant Research Officer, 8 Field Assistant, 60 local communities ● Appointment of consultant for LiDAR and development of model ● Cash Flow: ○ 2021: RM720,000.00 ○ 2022: RM920,000.00 ○ 2023: RM1,020,000.00 ○ 2024: RM770,000.00 ○ 2025: RM570,000.00

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	Timber licences, international and local research organisation, STA, private sector, DO, local communities

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	2. Establish Permanent Sample Plot Network In Sarawak
Action step	:	2.1 - 2.7

Action step (s)	Output (s)	Timeline	Resources required
2.1 Establishment and assessment of permanent sample plot network in FMU area	At least 25 new plots established and assessed by 2025	Start date: 2022	12MP Ceiling: RM4 mil Site: FMU areas Manpower: • 2 Research officers • 2 Assistant Research Officer • 8 Field Assistant • 60 local communities Appointment of consultant for LiDAR and development of model Cash Flow:- 2021: RM720,000 2022: RM920,000 2023: RM1.02 mil 2024: RM770,000 2025: RM570,000
2.2 Engage mapping consultant for forest structure mapping using LiDAR technology	Forest structure mapping	End date: 2023	
2.3 Engage expert for development of growth and yield projection model	An expert of forest modelling engaged by 2022	Start date: 2022	
2.4 Hire local community for the implementation of plot establishment and collection of field data	Estimated at least 10 local communities/trip/FMU hired	End date: 2025	
2.5 Conduct forest structure mapping using UAV LiDAR technology	A 3D forest structure model developed by 2025;	Start date: 2024	
2.6 Develop and apply growth and yield projection model for comprehensive and reliable analysis	A growth and yield projection model developed and used for projection of AAC by 2025	End date: 2025	
2.7 Analyse and share research findings with stakeholders	At least 1 seminar/year organised with stakeholders.	Start date: 2022 End date: 2025	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	Timber licensees, international and local research organisation, STA, private sector, D, local communities

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	3. Establishment of Centre of Excellence for Planted Forest R&D

Initiative	Desired Outcome (s)
3. Establishment of Centre of Excellence for Planted Forest R&D (previously known as High Quality Planting Materials For Forest Plantation in Sarawak)	**Economic Prosperity** ● Optimum productivity of LPFs to meet State's target of 5-6 million m^3 per year by year 2027; ● Increase wood productivity from 90 m3/ha to 150 m3/ha by year 2027; ● Contribute to timber royalty and cess annually for the State industries of RM50-60 million by year 2027; ● Contribute to the revenue generation of RM150 mil/ 5 years for carbon trading starting from year 2027 ● Create household income: RM800 - RM2,500/ monthly/person **Social Inclusivity** ● Local community development by involving at least 40 local community for the establishment and assessment of R&D plots ● Estimated at least 224 potential jobs can be created in the relevant fields ● A robust and innovative research environment for industrial forest R&D is developed and available in Sarawak, which able to contribute to the talent cultivation of at least 5 university students annually ● Create high income employment: 5 ● Number of household alleviate from poverty level: 90 **Environmental Sustainability** ● Contribute to the revenue generation of RM 150 mil/ 5 years for carbon trading starting from year 2027 ● Reduce pressure on natural forest by having 1 million hectares of high-yield and sustainable industrial forest plantation ● The existing 62% forest cover in Sarawak will be increased or maintained ● Contribute to the formulation of new industrial forest plantation policy/ law

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	3. Establishment of Centre of Excellence for Planted Forest R&D (cont'd)

Timeline		Resources Required
Start Date	**End Date**	
2022	2030 and beyond	1. Required project funding: RM 10,000,000 2. Approved funding by EPU Sarawak: RM 5,000,000 3. Research team of at least 14 researchers or expertise with experience in tree improvement, genetics and genomics, site-species matching, silviculture, nursery practices, pest and disease and tissue culture. 4. At least 30 supporting staff and research assistants for plot establishment, monitoring and laboratory work. 5. 7 well-equipped laboratories and a nursery for difference research fields 6. At least two tree climbers for R&D activities 7. Establishment of at least 30 R&D plots at the LPF areas with frequent monitoring and assessment of the trees planted for the R&D purpose 8. Improved planting materials for *Acacia crassicarpa*, *Eucalyptus hybrids, Eucalyptus pellita, Paulownia,* etc. - will be bought from Vietnam, Australia, China, etc. for the breeding and trial plots establishment 9. Cash Flow: ○ 2021: RM 1,900,000 ○ 2022: RM 2,340,000 ○ 2023: RM 2,190,000 ○ 2024: RM 1,890,000 ○ 2025: RM 1,680,000 ○ **Total: RM 10,000,000**

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	LPFs, Higher learning Institutions, other relevant agencies, national and international research agencies

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	3. Establishment of Centre of Excellence for Planted Forest R&D
Action step	:	3.1 - 3.11

Action step (s)	Output (s)	Timeline	Resources required
3.1 Establishment of breeding plots for Acacia crassicarpa and Eucalyptus pellita	At least one (1) breeding plot for Acacia carssicarpa and one (1) breeding plot for Eucalyptus pellita	Start date	Required project funding: RM10 mil Approved funding by EPU Sarawak: RM5 mil Manpower: A research team of at least 14 researchers or expertise with experience in tree improvement, genetics and genomics, site-species matching, silviculture, nursery practices, pest and disease and tissue culture. *Currently there are only 6 researcher officers working under this project*
3.2 Establishment of trial plots for eucalyptus hybrid, paulownia, selected elite clones of eucalyptus, and selected indigenous species.	At least two (2) trial plots on Eucalyptus hybrid, two (2) trial plots on selected elite Eucalyptus clones and two (2) plots for paulownia;	2021	
3.3 Conduct plot monitoring, maintenance and assessment	Two (2) trial plots for selected indigenous species;		
3.4 Establishment of seed production area and mother tree selection for indigenous species	Conversion of two (2) taxa-seed source plots to seed production areas		
3.5 Phenology monitoring and seed collection, seed processing, seed testing, seed storage trial and seed germination	Two (2) guidelines on seed handlings and storage	End date	
3.6 Thinning and conversion of research plot to seed production area (exotic species)	Four (4) seed production areas for indigenous species	2025	
3.7 Development of propagation method for selected plantation species	Propagation method for selected plantation species developed		
3.8 Pest and disease surveillance and monitoring	Four (4) pest and disease surveillance plots		
3.9 Research publication	Three (3) guidelines on pest and disease management published		
3.10 Procurement of chemical and consumables as well as laboratory equipment	Chemical and consumables including laboratory equipment purchased		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	LPFs, higher learning institutions, other relevant agencies, national and international research agencies

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	4. Proposed implementation of forest landscape restoration throughout Sarawak

Initiative	Desired Outcome (s)
4. Proposed implementation of forest landscape restoration throughout Sarawak	**Economic Prosperity** 1. RM150 mil/ year (USD3/tonne) estimated government revenue generated from carbon trading project from 500,000ha forest area. 2. RM100,000/year government revenue generated from seedling sales. 3. RM250 million/year revenue to be generated from 500,000ha harvested area upon maturity after 15 years (33,333 ha/year over 15 years). 4. Potential revenue and economic spin-off from recreation & ecotourism activities as well as environmental education with expected of 1,000 visitors per year. 5. Increase domestic and foreign investment through partnerships and collaboration at national and international level. 6. Provide RM1,500 - RM2,500 income/alternative income per month per household from 2,500 job created and eco-tourism activities within 10 years. **Social Inclusivity** a) 2,500 job created within 10 years. b) Minimum 125 employment of project-basis contract officer (graduates with diploma/degree) c) Number of household alleviate from poverty level: 400 d) Increase trust and good image from public and globally recognised in its good forest management through social survey within communities and increasing participation/collaboration in restoration from the national and international agencies/NGO **Environmental Sustainability** a) The existing 62% forest cover in Sarawak will be maintained or increased. b) RM975 billion intangible conservation values of forest goods & services from 500,000 ha FLR forest area (based on Total Economic Value of RM1.95 mil/ha study at Ayer Hitam Forest Reserve by UPM)

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	4. Proposed implementation of forest landscape restoration throughout Sarawak (cont'd)

Timeline		Resources Required
Start Date	**End Date**	

2021	2030 and beyond	• Funding (2021-2025): RM 62mil
		  ○ 2021 = RM10 mil
		  ○ 2022 = RM10 mil
		  ○ 2023 = RM14 mil
		  ○ 2024 = RM14 mil
		  ○ 2025 = RM14 mil
		• Funding (2025-2030): RM 30 mil
		  ○ 2021 = RM6 mil
		  ○ 2022 = RM6 mil
		  ○ 2023 = RM6 mil
		  ○ 2024 = RM6 mil
		  ○ 2025 = RM6 mil
		• Legal framework to enable new source of forest revenue (carbon trading policy).
		• Trained and equipped workforces with technical capabilities (tree identification, forestry management, operation and legalisation).
		• Land acquisition in urban area

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	SAG, SFS, government agencies, research institutions, public and private sector, NGOs, international organisation, local communities

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	4. Proposed implementation of forest landscape restoration throughout Sarawak
Action step	:	4.1 - 4.3

Action step (s)	Output (s)	Timeline	Resources required
4.1 Nursery/seedling production 1. Establishment of new nursery and maintenance of existing nursery; 2. Establishment of Seed Production Area, Phenology Survey, Yield Plot for high value forest tree species; & 3. Seeds/Wildings collection and planting material production and maintenance.	Establishment of two (2) new regional nurseries annually and four (4) existing nurseries (Semenggoh, Sabal, Niah and STIC) maintained and improved; At least three (3) Seed Production Area (SPA) for high value indigenous species established.; More than 500,000 seedlings produced annually"	Start date 2021	Funding (2021-2025): RM62 mil 2021 = RM10 mil 2022 = RM10 mil 2023 = RM14 mil 2024 = RM14 mil 2025 = RM14 mil Funding (2025-2030): RM30 mil 2021 = RM6 mil 2022 = RM6 mil 2023 = RM6 mil 2024 = RM6 mil 2025 = RM6 mil
4.2 Planting 1. Site identification and survey 2. Planting, monitoring and maintenance 3. Strengthen collaboration for planting program with community, agencies, NGO, etc.	At least one PFE for each RFO conducted site survey, planting and maintenance; At least seven (7) million trees planted annually; & At least five (5) planting program/collaboration with other agencies annually.`	End date	
4.3 Centre Of Excellence (COE) for FLR 1. Road construction and enhance Sabal Model Forest within Sabal Forest Reserve (FR) 2. Feasibility study and FLR strategy for Bakam GR 3. Upgrading work of existing Bintawa Office into FLR Resource Centre, Bintawa 4. Other regional COE (infrastructure)	Road constructed and Sabal Model Forest within Sabal FR enhanced. At least one (1) feasibility study conducted and FLR strategy for Bakam GR established Infrastructures to support establishment of Centre of Excellence for FLR (Sabal, Bakam, etc.) developed/ improved/ maintained.	2030	

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	4. Proposed implementation of forest landscape restoration throughout Sarawak (cont'd)
Action step	:	4.4 - 4.7

Action step (s)	Output (s)	Timeline	Resources required
4.4 Research and Development	At least two (2) R&D related to FLR conducted.	Start date	
4.5 Promotion and Publicity	Two (2) promotional video, 10 roadshow/exhibition produced annually.	2021	
4.6 FLR Management	Forest Fire Management Plan for one Centre of Excellence for FLR is developed	End date	
4.7 Comprehensive FLR Development Database System	One (1) FLR website developed in 2021 and 100% data updated annually.	2030	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	SAG, SFS, Government agencies, research institutions, public and private sector, NGOs, international organisations, local communities

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	5. Development of Urban Forest Park in Kayangeran Forest Reserve, Lawas.

Initiative	Desired Outcome (s)
5. Development of Urban Forest Park in Kayangeran Forest Reserve, Lawas.	**Economic Prosperity** ● More vigorous eco-tourism activities in the district and state. ● Increased state revenue through provision of concessions, privatisation of services and development of new revenue streams. ● Provide potential income from the PES (carbon trading), entrance fee and rental of facilities. RM60,000/year ● Estimated Economic Spin Off: RM250 million / 5 years ● Create household Income: RM4,218.00/person **Social Inclusivity** ● Potential Job Creation: 100 ● Increase high income employment: 10 ● Increase people participation and involvement: Involvement of local communities and tourist as the end user **Environmental Sustainability** ● The area to be gazetted as Amenity Forest. ● Multi-use of the area for flora and fauna conservation, R&D, environmental education, climate mitigation and eco-tourism, etc. ● Conservation-Achieved global standard for wildlife conservation in accordance with Multilateral Environmental Agreements (MEAs) Green List IUCN. ● To align with SDG (Goal No.1, 3, 4, 6, 8, 11, 13, 15). ● Enhanced awareness and education on the importance of forest and environment conservation among the citizens (through appreciation, education and R&D).

Timeline		Resources Required
Start Date	End Date	
2022	2030 and beyond	● RM8 mill RMK12 fund approved. ● Project consultants. Project Contractors. Project Management Team. ● Cashflow: ○ 2022: RM2 million ○ 2023: RM6 million ○ 2024: RM8 million ○ 2025: RM6 million ○ 2026: RM3 million ○ Total: RM25 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	SAG, L&S, JKR, R&DO, NREB, NGOs, local communities, private sector, MOT, Divisional Tourism Task Force, Travel and Tour Agencies

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	5. Development of Urban Forest Park in Kayangeran Forest Reserve, Lawas.
Action step	:	5.1 - 5.6

Action step (s)	Output (s)	Timeline	Resources required
5.1 Land Acquisition & Siting Application process for Kayangeran URF	Land Acquisition & Siting Application approved by SPA	Start date	RM8 mill RMK12 fund approved. Project consultants Project Contractors Project Management Team Cashflow 2022: RM2 mil 2023: RM6 mil 2024: RM8 mil 2025: RM6 mil 2026: RM3 mil Total: RM25 mil
5.2 Appointment of consultant / JKR 1. Letter of consultant appointment / JKR 2. Survey work / Soil Investigation 3. Detail design/ Tender Drawing 4. Tender Documents	JKR / Consultant appointment to take charge in the project; Survey work / soil investigation conducted; Master Plan, Tender Drawing, EIA & Soil Investigation Report produced; Tender process completed	2022 End date	
5.3 Contractor appointment 1. Letter of offer 2. Letter of acceptance 3. Contract Document	One (1) contractor offered for the project; Letter of acceptance received from contractor; Contract document bonded between government and contractor	2022	
5.4 Construction work at site	Installation of electricity along the plank walk, trails, camping dack, shelters, green house, herbal garden, etc. Installation of treated water pipe to camping deck, shelters, green house, herbal garden, etc.	Start date 2023 End date 2026	
5.5 Progress report	Progress on construction work monitored	Start date	
5.6 Project completion - (CPC, DLP, OP)	Facilities at Urban Park: • Plank walk • Forest trails • Shelters along the plank walk & trails • Observation tower (1 unit) • Boat jetty (1 unit) • Sign for plank walk & trails • Timber deck for camping ground • Mist Garden • Wall Climbing	2022 End date 2026	

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	5. Development of Urban Forest Park in Kayangeran Forest Reserve, Lawas. (cont'd)
Action step	:	-

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	SAG, L&S, JKR, R&DO, NREB, NGOs, local communities, private sector, MOT, Divisional Tourism Task Force, travel and tour agencies

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	6. Conservation and protection of Wetlands and Watershed within Heart of Borneo Sarawak

Initiative	Desired Outcome (s)
6. Conservation and protection of wetlands and watershed within Heart of Borneo Sarawak	**Economic Prosperity** ● Generate potential revenue from ecosystem services including tourism and carbon trading by **RM936 million / year X 5 years** ● **Total Value of Ecosystem Services:** Baleh Watershed + Wetlands = RM372 mil + RM20 mil = RM392 mil / year ○ Ecosystem services (food, tourism, freshwater, flood regulation, climate regulation, conservation) of Baleh Watershed = MYR372 mil / year ○ Ecosystem services of mangrove forest at project area = RM20 mil/year ● **Economic carbon value of total project area:** Baleh Watershed + Wetlands: RM344 mil + RM200 mil = RM544 mil / year **Social Inclusivity** ● Increase local community involvement or participation in wetland and watershed protection, improve quality of life downstream ● Create high income employment: 10 people ● People Participation: 150 ● Potential Job Creation: 50 new jobs in mangrove area **Environmental Sustainability** ● World recognition: through nomination of wetland of international importance (Ramsar site) ● Alignment to SDG 6: Clean water and sanitation ● Alignment to SDG 13: Climate Action ● Marine biodiversity conservation, reduction of soil erosion, reduction of destructive coastal wave, sustainable supply of clean freshwater ● Compliance to RIL guidelines in watershed area

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	6. Conservation and protection of Wetlands and Watershed within Heart of Borneo Sarawak (cont'd)

Timeline		Resources Required
Start Date	End Date	
2022	2026	● 12MP Ceiling: RM1,000,000 ● Site: Kuala Rejang and FMU's in Ulu Balleh ● Manpower: 1 research officer, 2 assistant research officers, 5 Field Assistants ● Consultancy: ○ To conduct Further Studies on Ecosystem Services and Impact Assessment at Balleh Watershed Area ○ To conduct Multi-Disciplinary Assessment at Kuala Rejang for Ramsar Site Nomination ● Cash Flow: ○ 2022: RM450,000 ○ 2023: RM550,000 ○ 2024: RM570,000 ○ 2025: RM450,000 ○ 2026: RM480,000

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	SAG, SFS, SFC, R&DO, NREB, international organisations, local communities

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	6. Conservation and protection of Wetlands and Watershed within Heart of Borneo Sarawak
Action step	:	6.1 - 6.2

Action step (s)	Output (s)	Timeline	Resources required
6.1 Watershed: 1. Monitoring of watershed / water catchment areas within targeted licence area & PFE inundated by Baleh HEP 2. Forest restoration and community engagement programs 3. Socio-economic / community needs survey 4. Dialogues and awareness programs for local communities	1. At least one (1) activity of monitoring of watershed / water catchment areas within targeted licence area & PFE inundated by Baleh HEP conducted; 2. At least one (1) forest restoration and community engagement programs conducted; 3. At least one (1) socio-economic / community needs survey conducted; 4. At least one (1) dialogue and awareness programs for local communities;	**Start date** 2022	12MP ceiling: RM1 mil Site: Kuala Rejang and FMU's in Ulu Balleh Manpower: 1 research officer 2 assistant research officers 5 Field assistants Consultancy: To conduct further studies on Ecosystem Services and impact assessment at Balleh Watershed Area To conduct Multi-disciplinary assessment at Kuala Rejang for Ramsar Site Nomination
6.2 Wetlands: 1. Socio-economic / community needs survey at Rajang Delta 2. Education and capacity building for local community 3. Monitoring of FR / potential Ramsar site in Rajang Delta 4. Sarawak Wetlands Policy Workshop 5. Multi-disciplinary assessment and feasibility study of Rajang Delta 6. Preparation of MMKN paper and proposal for Rajang Delta Ramsar Site	1. At least one (1) socio-economic / community needs survey conducted; 2. At least one (1) education program and capacity building conducted for local communities; 3. At least one (1) activity for monitoring of FR / potential Ramsar site in Rajang Delta conducted; 4. At least one (1) workshop on Sarawak Wetlands Policy conducted; 5. At least one (1) multi-disciplinary assessment and feasibility study of Rajang Delta conducted; 6. One (1) New Ramsar Site proposed.	**End date** 2026	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	SAG, SFS, FDS, SFC, NREB, R&DO, international organisations, local communities

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	7. Community support programme in Heart of Borneo

Initiative	Desired Outcome (s)
7. Community support programme in Heart of Borneo	**Economic Prosperity** ● Economic Spin-Off: RM150 million (RM30 mil/year) ● Create total household income: RM4,218,000 ● Create household income; RM800 - RM2,500 / monthly / person; ● Create high income employment: 5 ● Number of household alleviate from poverty level: 100 **Social Inclusivity** ● Instilled conservation values among stakeholders and improved livelihood of local communities ● New income opportunities for forest dependent communities and a sense of ownership through participation in social forestry ● Improved local community knowledge and information from involvement in various activities ● Potential job creation: 100 individual (handicrafts, homestay, transportation and other tourism related services) ● Increased people participation and involvement: 1200 people (100% participation from economically actives group (age between 16-60 years old) **Environmental Sustainability** ● Reduce communities dependence on forest and its resources at 5 zones in Lundu by engaging communities in ecotourism activities. ● Restore forest resources and its ecosystem within the 864 ha area of communal forest within new extension areas Heart of Borneo.

Timeline		Resources Required
Start Date	End Date	
Jan 2022	Dec 2026	● RMK12 – 3 mil ● Cashflow: ○ 2022: RM600,000 ○ 2023: RM600,000 ○ 2024: RM600,000 ○ 2025: RM600,000 ○ 2026: RM600,000 Site: Heart of Borneo new extension area Manpower: ● 1 project officer preferably with social background/skills ● 2 project assistants ○ -5 field contract officers

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	7. Community support programme in Heart of Borneo (cont'd)

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	JKR, R&DO, STB, MTAC, MOT, NGOs, local communities, private sector, Divisional Tourism Task Force, travel & tour agencies

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	7. Community support programme in Heart of Borneo
Action step	:	7.1 - 7.4

Action step (s)	Output (s)	Timeline	Resources required
7.1 Implement alternative livelihood enhancement programs/activities that will alleviate poverty level.	Quality of homestay at 5 zones in Lundu that will help to alleviate poverty level of local community improved	**Start date** 2023	RMK12: RM 3 mil Cash Flow: 2022: RM600,000 2023: RM600,000 2024: RM600,000 2025: RM600,000 2026: RM600,000 Site: HoB new extension area Manpower: 1 project officer preferably with social background/skills 2 project assistants 5 field contract officers
7.2 Capacity buildings and training.	50 certified tourist guide at Kelingkang Range, Sri Aman 5 Community development program on eco-tourism		
7.3 Infrastructure and facilities development	Eco-tourism facilities at 4 locations improved	**End date** 2027	
7.4 Forest Landscape restoration	5,000 non-timber forest product (various species) planted per year 5 publications / promotion materials;		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	JKR, R&DO, STB, MTAC, MOT, NGOs, local communities, private sector, Divisional Tourism Task Force, travel and tour agencies

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	8. Strengthening compliance mechanism for sustainability for post-logging block inspection

Initiative	Desired Outcome (s)
8. Strengthening compliance mechanism for sustainability for post-logging block inspection	**Economic Prosperity** ● Reduce the operational cost for Government: ~RM110,000 annually. ● Reduce operational cost for licensee: ~RM118,000 annually. ● Annual revenue: Expected LD collected: RM2.0 million/annually ● Economic Spin-Off: RM5 million ● Create Household Income: RM595,900 **Social Inclusivity** ● Deterrence on undersize logging, ensuring the sustainability of the forest. ● Potential job creation: 100 ● Increase people participation and involvement: 300 **Environmental Sustainability** ● Increased carbon storage left behind after logging with an estimated of 193 tonne/ha from 186 tonne (194-9 tonne/ha) in the forest.

Timeline		Resources Required
Start Date	End Date	
Jan 2022	Dec 2025	● Professional consultation (ground verification of undersized trees and data analyst) ● Cash Flow: ○ 2022: RM400,000 ○ 2023: RM200,000 ○ 2024: RM200,000 ○ 2025: RM200,000 ○ Total: RM1,000,000

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	SAG, SFS, FDS, private sector (timber licence holder), university

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	8. Strengthening compliance mechanism for sustainability for post-logging block inspection
Action step	:	8.1 - 8.4

Action step (s)	Output (s)	Timeline	Resources required
8.1 Analyse operational cost on current practice (PLBI) for both licensee and government	Report on the study of undersized logs in the Revlog and verification on the ground. New mechanism to save operational cost produced	Start date 2022	Professional consultation (ground verification of undersized trees and data analyst) Cash Flow: 2022: RM400,000 2023: RM200,000 2024: RM200,000 2025: RM200,000 Total: RM1,000,000
8.2 Identify potential job creation for community that contribute to poverty alleviation factor.	Poverty alleviation for local community through potential job creation and enhancement of local community living standard and improvement of basic accessibility or facility such as clean water storage, proper drainage, electricity and, etc.		
8.3 Conduct study on verification of undersized logs that reported in Revlog versus undersized log stump counting on the ground at selected FMU area.	Report on the study of undersized logs in the Revlog and verification on the ground	End date 2025	
8.4 Develop new mechanism in strengthening compliance for sustainability PLBI.	New mechanism in strengthening compliance for sustainability PLBI produced		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	SAG, SFS, FDS, private sector (timber licence holder), university

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Generate government revenue by developing new revenue streams from forest resources
Initiative	:	9. Enhancement of community livelihood in Sarawak through social forestry programmes

Initiative	Desired Outcome (s)
9. Enhancement of community livelihood in Sarawak through social forestry programmes	**Economic Prosperity** ● Economic Spin-Off: RM150 million (RM30 mil / year) ● Create total household income: RM4,218,000 ● Create household income; RM800 - RM2,500 / monthly / person ● Number of household alleviate from poverty level: 400 **Social Inclusivity** ● Increase people participation and involvement: 400 people especially community within/adjacent to PFE ● Create high income employment:10 ● Estimated jobs created: 500 (in the non-timber forest product related field - 916 community registered with Kraftangan Malaysia, 2018). ● 50% or more local communities residing adjacent or within PFE participate in social forestry programs and activities to reduce pressure on natural forest ● Outreach of CEPA programmes on the importance of forest benefit to the environment to 80% of local communities **Environmental Sustainability** ● Restore up to 10% of forest resources (non-timber forest product species) ecosystem through social forestry programs/activities. ● Reduce oil palm conversion and maintain 6,000 ha of Communal Forest with agroforestry approach to alleviate local community income and livelihood

Timeline		Resources Required
Start Date	End Date	
2022	2030	● Required project funding: RM9,000,000 (2022-2030); ● Cashflow: ○ 2022: RM1.0 mil ○ 2023: RM1.0 mil ○ 2024: RM1.0 mil ○ 2025: RM1.0 mil ○ 2026: RM1.0 mil ○ 2027: RM1.0 mil ○ 2028: RM1.0 mil ○ 2029: RM1.0 mil ○ 2030: RM1.0 mil

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	Sarawak Craft Council (SCC), Perbadanan Kemajuan Kraftangan Malaysia, Resident and District Office, local council, licensee, other relevant agencies

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	9. Enhancement of community livelihood in Sarawak through social forestry programmes
Action step	:	9.1 - 9.5

Action step (s)	Output (s)	Timeline	Resources required
9.1 Development of local community non-timber forest product (NTFP) processing facilities.	• 2 palm sugar processing facilities in Betong District • 1 fermented fish processing facility in Batang Ai, HEP • 1 smoked fish processing facility in Batang Ai, HEP • 1 wood-based craft processing facility in Lundu	Start date 2022	Required project funding (2022-2030): RM 9,000,000 Cashflow:- 2022: RM1 mil 2023: RM1 mil 2024: RM1 mil 2025: RM1 mil 2026: RM1 mil 2027: RM1 mil 2028: RM1 mil 2029: RM1 mil 2030: RM1 mil
9.2 Establishment of facilities that will uplift livelihood and indirectly contribute to alleviate poverty local community.	Uplift livelihood and poverty alleviation for local community though upgrading facilities and awareness programs.	End date	
9.3 Conduct Communication, Education & Public Awareness (CEPA) programs with local community and schools adjacent to PFE.	5 CEPA programs implemented and 5 bulletins pertaining to awareness programs published;	2030	
9.4 Implement Forest Landscape Restoration of NTFP planting programs involving local communities adjacent to PFE.	10,000 NTFP (various species) planted per year.		
9.5 Implement Agroforestry programs in Communal Forest.	2 agroforestry program implemented in Communal Forest		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	Sarawak Craft Council (SCC), Perbadanan Kemajuan Kraftangan Malaysia, Resident and District Office, Local Council, Licensee, other relevant agencies

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	10. Establish furniture park in Tanjung Manis

Initiative	Desired Outcome (s)
10. Establish furniture park in Tanjung Manis (upscale processing)	**Economic Prosperity** ● Generate export value amounting to RM1 billion per year by 2030 from furniture production ● Create employment for skilled and unskilled work force to generate household income of RM118 million per year ○ Skilled jobs: RM4,000 per month ○ Unskilled jobs: RM2,000 per month ● Spillover effect to other economic sector (e.g. Logistics player and ports, housings) **Social Inclusivity** ● Create 1,050 skilled jobs and 2,850 unskilled jobs by 2030 ● Number of household alleviate from poverty level: 1,050 **Environmental Sustainability** ● Achieve zero waste & implementing Circular Economy ● Integrated system to ensure 100% traceability in legality compliance (STLVS) ● 100% compliance to national and international environmental standards such as treatment, finishing, etc.

Timeline		Resources Required
Start Date	End Date	
2022	2024	● Funding: RM11.55 million ○ 2022: RM3 million ○ 2023: RM7 million ○ 2024: RM1.55 million ● Manpower: 6 ● Land: 60 acre

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	Land and Survey, local council, MINTRED, MATRADE, MIDA, SPA, STA, furniture associations, SARADEC, Say D'signers Sarawak, R&D centres, foreign investors

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	10. Establish furniture park in Tanjung Manis
Action step	:	10.1 - 10.4

Action step (s)	Output (s)	Timeline	Resources required
10.1 To produce blue print of Furniture Park	Blueprint of the Furniture Park	**Start date**	Total: RM11,550,000 Manpower: 9 professionals (Engineers, Architect, Quantity Surveyor) 9 semi-professionals (COW/IOW - architecture, M&E, C&S) (10.2) Cost details: 1. RM680,000 2. RM3,850,000 1. RM3,300,000 2. RM990,000 3. RM1,000,000 4. RM550,000 5. RM830,000 6. RM50,000 7. RM100,000 8. RM200,000
10.2 To construct and establish Furniture Park in Tanjung Manis which involve two stages: 1. Planning stage: ● Identify site ● Appoint consultant ● Submission to SPA and Land & Survey ● To do Survey & Soil investigation ● To do design ● Tender 2. Construction stage	Furniture park in Tanjung Manis to house 3 anchor companies and 18 vendors 65 acres of Furniture Park equipped with infrastructure and facilities as follows: 1. Preliminary & General (7%) 2. Road Bases, Road Pavement & Road Furniture 3. RC Drain & Culverts 4. Water Reticulation 5. Electrical 6. Telecommunication Infrastructure 7. Professional Fees & Supervision 8. Soil Investigation 9. Survey & Planning 10. Capital Contribution	2022 **End date**	
10.3 To identify and confirm investors to take up the Furniture Park	List of potential investors identified: ● China group (anchor company) ● Sarawak Furniture Industry Association (SFIA) ● Furniture Manufacturers from West Malaysia ● Local vendors	2024	
10.4 To set-up Furniture Park Management Team to manage & monitor the Furniture Park	Furniture Park Management Team set-up		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	Land & Survey Department, Local Council, MINTRED, MATRADE, MIDA, SPA, STA, furniture associations, SARADEC, Say D'signers Sarawak, R&D Centres, foreign investors

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	11. Establish bamboo plantation and develop bamboo-based industry

Initiative	Desired Outcome (s)
11. Establish bamboo plantation and develop bamboo-based industry	**Economic Prosperity** • 10,000 ha bamboo plantation to generate RM200 million export earnings by 2030 • 500,000 seedlings supply for 4 nurseries & 1 tissue culture lab generating sales of RM2.5 million by 2025 from (RM5 x 500,000) **Social Inclusivity** • Job creation 1,500 contributing household income of RM36 million per year [(RM2,000 x 1,200 x 12 months) + (RM2,200 x 300 x 12 months)] to support the export earnings of RM200 million by 2030 • Generate income of RM75,000 to community from buy back of seedlings (RM5 x 15,000 seedlings) • Number of household alleviate from poverty level: 300 **Environmental Sustainability** • Conducive policies & laws to utilise bamboo as sustainable & renewable material • Bambusetum become carbon trading storage area (1,000 ha x 17 tonnes CO_2 x USD15/tonne x 4.0 Exchange Rate = RM1.02 million per year by 2030) • Develop bamboo as renewable resource for the industry to achieve RM200 million export earnings by 2030

Timeline		Resources Required
Start Date	End Date	

2022	2030	• Funding: RM26 million
		  ○ 2022: RM15 million
		  ○ 2023: RM3.4 million
		  ○ 2024: RM2.8 million
		  ○ 2025: RM2.5 million
		  ○ 2026: RM2.3 million
		• Manpower: 11
		• Land: 11,000 ha

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	SABIDTeC, timber Industry, STA, LPF holders, local communities

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	11. Establish bamboo plantation and develop bamboo-based industry
Action step	:	11.1 - 11.6

Action step (s)	Output (s)	Timeline	Resources required
11.1 To develop nursery	3 bamboo nurseries with the capacity of 120,000 seedling per year: 1. Southern region: Sabal (2018-2019) 2. Central region: Tanjung Manis (2022-2023) 3. Northern region: Niah (2023-2024)	Start date 2018 End date 2024	1. RM1.0 mil 2. RM1.0 mil 3. RM1.0 mil
11.2 To establish and maintain model bamboo plantation	25 ha model bamboo plantation at Sabal Forest Reserve	Start date 2022 End date 2030	RM0.7 million per year
11.3 To conduct stock inventory study of wild bamboo	Report on stock inventory of wild bamboo for Sarawak	Start date 2022 End date 2023	RM2 million
11.4 To formulate policies and laws on bamboo industry	Policy and law on bamboo industry in Sarawak	Start date 2022 End date 2030	RM0.05 million
11.5 To conduct study and establish Bamboo Plantation Certification Program	One (1) Bamboo Plantation Certification scheme	Start date 2022 End date 2023	RM 2 million
11.6 To develop tissue culture lab	One (1) tissue culture lab with the capacity to produce 500,000 seedling per year	Start date 2022 End date 2024	RM2.5 million

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	11. Establish bamboo plantation and develop bamboo-based industry (cont'd)
Action step	:	11.7 - 11.9

Action step (s)	Output (s)	Timeline	Resources required
11.7 To identify site/planters and facilitate the establishment of Commercial Bamboo Plantation	10,000 hectares of commercial bamboo plantation. List of potential planter companies: ● WTK Group ● Subur Tiasa Holdings ● Samling Group ● Shin Yang Group ● LPF Holders ● Harwood Timber Sdn Bhd ● Sarawak Planted Forest Sdn Bhd	**Start date** 2022 **End date** 2030	RM0.36 million per year Land: 10,000 ha
11.8 To identify and establish Community Bamboo Farming	Communities identified (300 communities): ● Southern region ● Central region ● Northern region Supply seedlings for Community Bamboo Farming throughout Sarawak (1,000 ha)	**Start date** 2022 **End date** 2030	RM0.21 million
11.9 To identify project management team to implement and monitor the bamboo project	Project Management Team identified: ● Bamboo Section of Resource Planning Division	**Start date** 2022 **End date** 2023	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	SABIDTeC, timber industry, STA, LPF Holders, local communities and cooperative

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	12. Utilise local plywood as one of the key components to manufacture value added products

Initiative	Desired Outcome (s)
12. Utilise local plywood as one of the key components to manufacture value added products	**Economic Prosperity** ● Create 6 anchors to generate export value RM300 million contributing to total RM6 billion export of timber value-added products by 2030 ● Contribute to household income of RM40.8 million per year ○ Skilled jobs: RM4,000 per month ○ Unskilled jobs: RM2,000 per month **Social Inclusivity** ● Create 1,500 new job opportunities: 200 skilled, 1,300 unskilled by 2030 ● Number of household alleviate from poverty level: 200 **Environmental Sustainability** ● 100% utilisation of materials from certified natural forest ● Utilisation of renewable material from planted forests ● Revised law to ensure 100% legality compliance (STLVS) for products supplied from Sarawak ● Integrated system to ensure 100% traceability in legality compliance (STLVS) ● 100% compliance to national and international environmental standards such as formaldehyde emission, clean air regulation, etc.

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Funding: RM30 million ○ 2022: RM4.8 million ○ 2023: RM6.7 million ○ 2024: RM2.9 million ○ 2025: RM3.5 million ○ 2026: RM4.4 million ○ 2027: RM1.4 million ○ 2028: RM1.5 million ○ 2029: RM3.4 million ○ 2030: RM1.4 million ● Manpower: 5

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	MINTRED, FDS, MIDA, MITI, MATRADE, STA, timber industry, DOs, SEB, Ports, DOE, DOA, KASTAM

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	12. Utilise local plywood as one of the key components to manufacture value added products
Action step	:	12.1 - 12.3

Action step (s)	Output (s)	Timeline	Resources required
12.1 To review laws and policies Components: 1. Control of formaldehyde emission in wood products 2. Requirement of gases emission 3. Export of raw plywood 4. Export of logs from planted forest 5. Export of wood waste 6. Automation in manufacturing sector 7. Importation of raw material	Laws and policies reviewed	**Start date** 2022 **End date** 2022	RM300,000 (For Industry Briefings / Trainings / Publications)
12.2 To build and provide basic infrastructure required by Investors 1. Planning Stage: ● Identify Site ● Appoint Consultant ● Submission to SPA and Land & Survey ● To do Survey & Soil Investigation ● To do Design ● Tender 2. Construction Stage	Basic infrastructure below ready for the allocated area in Kemena Industrial Area, Bintulu 1. Preliminary & General (P&G) 2. Site earth work 3. Road & reinforced concrete drain 4. Water pipelines 5. Telecommunication infrastructure 6. Electrical power supply (substation, cables, etc.) 7. Soil investigation 8. Survey 9. Land acquisition 10. Fees & Supervision	**Start date** 2022 **End date** 2026	RM29.3 million Details Cost: 1. RM1.3 mil 2. RM3.0 mil 3. RM5.0 mil 4. RM2.5 mil 5. RM2.3 mil 6. RM11.0 mil 1. RM0.2 mil 2. RM0.3 mil 3. RM1.5 mil 4. RM2.2 mil
12.3 To identify and confirm investors	List of potential investors: ● Shin Yang Group ● Samling Group ● Woodsfield	**Start date** 2022 **End date** 2022	RM300 million (private sector investment)

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	12. Utilise local plywood as one of the key components to manufacture value added products (cont'd)
Action step	:	12.4 - 12.5

Action step (s)	Output (s)	Timeline	Resources required
12.4 To conduct investment promotions abroad each year	2 investment promotions abroad per year	Start date 2022	RM400,000
12.5 To set-up project management team to manage and monitor this initiative	Project management team set-up.	End date 2022	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	MINTRED, FDS, MIDA, MITI, MATRADE, STA, timber industry, DOs, SEB, Ports, DOE, DOA, KASTAM

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	13. Implementation of Sarawak Young Designers (SayD'signers Sarawak) programme

Initiative	Desired Outcome (s)
13. Implementation of Sarawak Young Designers (SayD'signers Sarawak) programme	**Economic Prosperity** ● Produce 100 world class young designers to support furniture industry to achieve RM4 billion export value of furniture by 2030 ● Generate household income of RM4.8 million per year (RM4,000 x 100 designers x12 months) to support export earnings of RM4 billion by 2030 ● Earn 1% royalty from sales of commercialised designs **Social Inclusivity** ● Number of household alleviate from poverty level: 100 **Environmental Sustainability** ● 100% utilisation of renewable material from planted forests

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Funding: RM27.69 million ○ 2021: RM3.43 million ○ 2022: RM4.46 million ○ 2023: RM5.58 million ○ 2024: RM6.59 million ○ 2025: RM7.63 million ● Manpower: 18

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	STA, SFIA, Furniture Industry, Creative Consultant, UNIMAS ID graduates, UNIMAS, ITB, Indonesia, Swinburne, Milan, Musashino, UiTM

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	13. Implementation of Sarawak Young Designers (SayD'signers Sarawak) programme
Action step	:	13.1 - 13.8

Action step (s)	Output (s)	Timeline	Resources required
13.1 To engage professional to train and produce young designers (fresh graduates)	100 professional & talented furniture designers by 2030	Start date	RM1,616,234
13.2 To produce furniture designs	2,000 furniture designs concept per year	2021	
13.3 To develop prototypes of the furniture designs	20 furniture prototypes per year		
13.4 To facilitate designers to participate in expo / exhibition to showcase their prototypes (Funded by STIDC)	3 international & 2 national expo / exhibition		RM12.5 mil
13.5 To obtain copyright registration of furniture designs	160 copyright registration of furniture designs by 2030	End date	RM2.0 mil
13.6 To train young designers with reputable international design centres through collaboration with ITB (Institute Technology Bandung), Swinburne, Mushashino & POLI.design Milan	5 local & international higher institution collaborations	2030	RM8,535,853
13.7 To implement Incubator Program for the trained young designers	Designers Incubator Program and Centre		RM2.04 million Total: RM27.69 million Manpower: 18
13.8 To identify project management team to implement and monitor this initiative	Project Management Team identified: • Trade Development Division		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	STA, SFIA, furniture industry, creative consultant, UNIMAS ID graduates, UNIMAS, ITB, Indonesia, Swinburne, Milan, Musashino, UiTM

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	14. Establish furniture park in Kuching

Initiative	Desired Outcome (s)
14. Establish furniture park in Kuching (upscale processing)	**Economic Prosperity** ● Generate export value amounting to RM1 billion per year by 2030 from furniture production ● Create employment for skilled and unskilled work force to generate household income of RM118 million per year ○ Skilled jobs: RM4,000 per month ○ Unskilled jobs: RM2,000 per month ● Spillover effect to other economic sector (e.g. Logistics player and ports, housings) **Social Inclusivity** ● Create 1,050 skilled jobs and 2,850 unskilled jobs by 2030 ● Number of household alleviate from poverty level: 1,050 **Environmental Sustainability** ● Achieve zero waste & implementing Circular Economy ● Integrated system to ensure 100% traceability in legality compliance (STLVS) ● 100% compliance to national and international environmental standards such as treatment, finishing, etc.

Timeline		Resources Required
Start Date	End Date	
2022	2024	● Funding: RM64 million ○ 2022: RM9 million ○ 2023: RM38 million ○ 2024: RM17 million ● Manpower: 6 ● Land: 100 acres

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	Land and Survey, local council, MINTRED, MATRADE, MIDA, SPA, STA, furniture associations, SARADEC, Say D'signers Sarawak, R&D centres, foreign investors

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	14. Establish furniture park in Kuching
Action step	:	14.1 - 14.4

Action step (s)	Output (s)	Timeline	Resources required
14.1 To produce blue print of Furniture Park	Blueprint of the Furniture Park	**Start date**	Total: RM64 mil Manpower: 9 professionals (Engineers, Architect, Quantity Surveyor) 9 semi-professionals (COW/IOW - architecture, M&E, C&S) (14.2) Cost details: 1. RM 3,900,000 2. RM 300,000 3. RM 27,100,000 4. RM 13,000,000 5. RM 12,000,000 6. RM 2,400,000 7. RM 4,700,000 8. RM 200,000 9. RM 200,000 10. RM 200,000
14.2 To establish Furniture Park in Kuching: 1. Planning stage: ● Identify site ● Appoint consultant ● Submission to SPA and Land & Survey ● To do Survey & Soil investigation ● To do design ● Tender 2. Construction stage	Furniture park in Kuching to house 3 anchor companies and 18 vendors 100 acres of furniture park equipped with infrastructure and facilities as follows: 1. Preliminary & General (7%) 2. Site Clearing 3. Sand Filling & Earth Bund 4. RC Drain & Culverts 5. Road Bases, Road Pavement & Road Furniture 6. Water Reticulation 7. Professional Fees & Supervision 8. Soil Investigation 9. Survey & Planning 10. Capital Contribution	2022 **End date**	
14.3 To identify and confirm investors to take up the Furniture Park	List of potential investors identified: ● Singapore Furniture Industry Council (SFIC) ● Sarawak Furniture Industry Association (SFIA) ● Muar Furniture Manufacturers Association ● China group	2024	
14.4 To set-up Furniture Park management team to manage & monitor the Furniture Park	Furniture Park management team set-up.		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	Land & Survey Department, Local Council, MINTRED, MATRADE, MIDA, SPA, STA, furniture associations, SARADEC, Say D'signers Sarawak, R&D Centres, foreign investors

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	15. Research and Development for KURSI PUSAKA in UNIMAS

Initiative	Desired Outcome (s)
15. Research and Development for KURSI PUSAKA in UNIMAS	**Economic Prosperity** ● Support furniture industry to achieve RM4 billion export value of furniture by 2030 ● Household income of RM144,000 / year ○ Graduate: RM4,000 salary ○ Ungraduate: RM2,000 stipend **Social Inclusivity** ● Number of household alleviate from poverty level: 2 **Environmental Sustainability** ● 100% utilisation of eco-friendly design products from sustainable planted forest material

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Funding: RM1.25 million ○ 2021: RM0.25 million ○ 2022: RM0.25 million ○ 2023: RM0.25 million ○ 2024: RM0.25 million ○ 2025: RM0.25 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	UNIMAS, timber Industry

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	15. Research and Development for KURSI PUSAKA in UNIMAS
Action step	:	15.1 - 15.5

Action step (s)	Output (s)	Timeline	Resources required
15.1 To enhance Terms of Reference of the UNIMAS Furniture Design Competition	Terms of Reference of UNIMAS Furniture Design Competition enhanced	Start date	
15.2 To conduct furniture design competition to select participants for SayD'Signers Sarawak Program (UNIMAS Design students)	1 furniture design competition per year (Top 15 winners to be interviewed for intake of SayD'Signers Sarawak Programme)	2022	RM50,000 per year
15.3 To produce prototypes of Top 5 winners from the design competition	5 prototypes of furniture per year	End date	RM30,000 per year RM170,000 per year
15.4 To fund potential relevant research by UNIMAS	At least 1 research per year including publication & organise seminar to disseminate knowledge with timber industry	2030	Total: RM250,000/year x 5 years = RM1.25 million
15.5 To identify project management team to implement and monitor this initiative	Project management team identified: • Research & Development Division		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	UNIMAS, timber industry

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	16. Pusat Latihan Perkayuan PUSAKA Tanjung Manis

Initiative	Desired Outcome (s)
16. Pusat Latihan Perkayuan PUSAKA Tanjung Manis – Operation and maintenance grant (TMTTC)	**Economic Prosperity** ● Generate income of RM4.8 million per year from new entrepreneurs by 2030 ● Produce certified workers with household income of RM9.6 million per year by 2030 ● Create entrepreneur in the wood based industry with household income of RM4.8 million per year by 2030 **Social Inclusivity** ● Produce 400 certified workers ● Create 20 entrepreneurs in the wood based industry ● Reduce reliance on foreign workers by 30% **Environmental Sustainability** ● Competent workforce to implement sustainable development initiatives towards achieving zero waste ● 100% Safety & Health compliance at workplace

Timeline		Resources Required
Start Date	End Date	
2022	2030	● Funding: RM6 million ○ 2022: RM1.2 million ○ 2023: RM1.2 million ○ 2024: RM1.2 million ○ 2025: RM1.2 million ○ 2026: RM1.2 million ● Manpower: 7

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	Timber Industry, STA, SFIA, Jabatan Pembangunan Kemahiran Malaysia, school leavers, local communities

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	16. Pusat Latihan Perkayuan PUSAKA Tanjung Manis
Action step	:	16.1 - 16.4

Action step (s)	Output (s)	Timeline	Resources required
16.1 To upgrade and maintain training facilities	All training facilities upgraded at Pusat Latihan Perkayuan PUSAKA Tanjung Manis	**Start date**	RM1.25 million
16.2 To organise Sijil Kemahiran Malaysia (SKM) training programs & short courses	2 SKM training programs per year 5 short courses per year	2021	RM4.75 million
16.3 To collaborate with other institutes or training providers	2 Local and International Collaborations per year	**End date** 2030	Total: RM1.2 million / year x 5 years = RM6 million 4 SKM Certified Trainers 15 Vocational Training Officers (VTO) Certified Trainers
16.4 To identify project management team to implement & monitor this initiative	Project management team identified: • Industrial Training Section		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	Timber industry, STA, SFIA, Jabatan Pembangunan Kemahiran Malaysia, school leavers, local communities

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	17. Establish Sarawak Design Centre

Initiative	Desired Outcome (s)
17. Establish Sarawak Design Centre (SARADEC)	**Economic Prosperity** • Generate individual revenue of the young designers a total of RM20 million (100 designers) by 2030 • Generate export earnings of RM6 billion by 2030 • Create 4 anchor companies - each build 10 vendors to produce 50,000 container load of 1 million M3 of furniture worth RM6 billion by 2030 • Produce 1,000 commercialisation designs that will generate revenue of RM6 million by 2030 • Generate revenue of RM48 million for 100 designers based on payment of royalty rate of 2% of company profit from RM6 billion export value by 2030. • Obtain UNESCO recognition for SARADEC by 2030 • Generate household income of RM7.68 million per year ○ [(120 x RM4,000 x 12 months) + (80 x RM2,000 x 12 months)] **Social Inclusivity** • Produce and train 100 fresh graduates as Sarawak Young Furniture Designers by 2030 • Attain Good Design Mark for 50 top design produced by SayD'Signers Sarawak by 2030 • Increase community participation in the State development and standard of living of local communities • Ability to generate higher income and additional income • Create job opportunities: 200 jobs • Number of household alleviate from poverty level: 120 **Environmental Sustainability** • 100% increase in visibility rate Sarawak as Design Hub by creating design ecosystem throughout the entire supply chain • 100% utilisation of renewable resources (Acacia, Rubber, Oil Palm Trunk)

Timeline		Resources Required
Start Date	End Date	

2022	2030	• Funding: RM42.4 million
		  ○ 2022: RM5.3 million
		  ○ 2023: RM7.1 million
		  ○ 2024: RM7.6 million
		  ○ 2025: RM10.3 million
		  ○ 2026: RM12.1 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	MINTRED, Kraftangan Sarawak, Ministry of Tourism, Sarawak Tourism Board, timber industry, cottage industry, designers and researchers

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	17. Establish Sarawak Design Centre
Action step	:	17.1 - 17.5

Action step (s)	Output (s)	Timeline	Resources required
17.1 To rent a premise do renovation works	A premise as the office-based for the designers	Start date	RM1,820,000
17.2 To fully develop and manage facilities of State-of-the-Art Institution with the following facilities: ● Design studio ● Model making ● Prototyping ● Design clinic ● Galleries ● Resource centre ● Material lab ● Co-working space / office ● Incubator facilities	A State-of-the Art Institution with the following scope: 1. Administration & Management, 2. Prototyping & Model Making 3. Market Promotion & Publicity 4. Industrial Patent (Copyrights, Trade Marks, Patent Rights) 5. Resource Centre (Purchase of Reference Design Books / Publication) 6. Collaborative Special Project (POLI.design) 7. Training Program (exclude SayD'Signers Program) 8. Incubator Program, 9. Commercialisation/Projects/Consultancy Fees 10. Facilitating Program 11. Contingencies	2022	RM37,994,013 (17.2) Cost details: 1. RM13,576,863 2. RM520,000 3. RM17,010,000 4. RM423,150 5. RM2,250,000 6. RM1,900,000 7. RM450,000 8. RM1,414,000 9. RM1,850,000 10. RM760,000 11. RM450,000
17.3 Commercialisation of designs	Minimum 100 talented young designers trained Minimum 10 creative furniture designs accredited world globally	End date	RM1,850,000
17.4 To collaborate with local industry, agencies & institutions	Contribute 20% to 30% of RM6 billion export earnings	2030	RM760,000 Total: RM42.4 million
17.5 To identify project management team to implement and monitor this initiative	Project management team identified: ● Trade Development Division		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	MINTRED, Kraftangan Sarawak, Ministry of Tourism, Sarawak Tourism Board, timber industry, cottage Industry, designers, researchers

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	18. One-stop Inspection Centre at IQS Merapok, Lawas

Initiative	Desired Outcome (s)
18. One-stop Inspection Centre at IQS Merapok, Lawas	**Economic Prosperity** ● Facilitate trade value of RM35 million cross border trade **Social Inclusivity** ● Facilitate employment with household income of RM4.8 million per year ○ (RM2,000 x 200 pax x 12 months) (e.g. mill workers, drivers, inspectors, etc.) **Environmental Sustainability** ● 100% legality compliance (STLVS) ● 100% Safety & Health compliance at workplace

Timeline		Resources Required
Start Date	End Date	
2023	2025	● Funding: RM13.12 million ○ 2023: RM1.97 million ○ 2024: RM5 million ○ 2025: RM6.15 million ● Manpower: 5 ● Land: 2 acres

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	FDS, SFC, Harwood, Agriculture Department, Immigration Department, Sabah Forestry Department

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	18. One-stop Inspection Centre at IQS Merapok, Lawas
Action step	:	18.1 - 18.6

Action step (s)	Output (s)	Timeline	Resources required
18.1 To acquire land from Land & Survey for establishment of One Stop Inspection Centre at IQS Merapok, Lawas	5.4 acres of land acquired	**Start date** 2022	RM0.52 million
18.2 To appoint Consultant for design and other preliminary works 1. Architect 2. Civil & Structural (C&S) 3. Mechanical & Electrical (M&E) 4. Quantity Surveyor (QS) 5. Survey & Soil Investigation	Design One Stop Inspection Centre at IQS Merapok, Lawas	**End date** 2022	RM1.732 million
18.3 To tender for construction	Award of contract	**Start date** 2022 **End date** 2023	
18.4 To construct and complete the centre	One Stop Inspection Centre with the following facilities: • 1 unit Single Storey Office • Guard house • 4 units of staff quarters • 8 units of heavy vehicle parking bays	**Start date** 2023 **End date** 2024	RM10.868 million
18.5 To manage the operation facilities	Permits for forest and timber products issued at this centre	**Start date** 2024	8 staff
18.6 To identify project management team to implement & monitor this initiative	Project management team identified: • IQS Merapok Section	**End date** 2030	Total: RM13.12 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	FDS, SFC, Harwood, Agriculture Department, Immigration Department, Sabah Forestry Department

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	19. Proposed furniture testing laboratory

Initiative	Desired Outcome (s)
19. Proposed furniture testing laboratory	**Economic Prosperity** ● Export quality assurance based on international standard contributing to RM4 billion furniture export by 2030 **Social Inclusivity** ● To create 10 new jobs generating RM360,000 per year ○ [(RM2,000 x 5 x 12 months) + (RM4,000 x 5 x 12 months)] ● Number of household alleviate from poverty level: 5 **Environmental Sustainability** ● 100% compliance to safety and health requirement of market ● 100% comply to product and market specification

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Funding: RM4 million ○ 2021: RM0.8 million ○ 2022: RM0.8 million ○ 2023: RM0.8 million ○ 2024: RM0.8 million ○ 2025: RM0.8 million ● Manpower: 6

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	FRIM, timber industry, designers and researchers

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	19. Proposed furniture testing laboratory
Action step	:	19.1 - 19.5

Action step (s)	Output (s)	Timeline	Resources required
19.1 To operate and maintain furniture lab	Furniture testing lab operation	Start date	RM548,000 per year
19.2 To collaborate with third party for lab certification	Certified furniture testing lab		RM150,000 per year
19.3 To train staff to operate and maintain the testing lab	5 Certified Skilled Lab Operators	2022	RM72,000 per year
19.4 To promote and provide services to furniture industry	15 testing per month	End date	RM30,000 per year Total: RM800,000/year x 5 years = RM 4 million
19.5 To identify project management team to implement and monitor this initiative	Project management team identified: • Furniture Testing Section	2022	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	FRIM, timber industry, designers, researchers

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	20. Applied R&D to develop commercially viable high value products from planted timber species

Initiative	Desired Outcome (s)
20. Applied R&D to develop commercially viable high value products from planted timber species	**Economic Prosperity** ● Support new industry with export value of RM690 million per year to achieve RM6 billion export value of high value added by 2030 **Social Inclusivity** ● Knowledge Transfer ● Develop expertise in the product development ● To create 700 new jobs generating household income of RM17.64 million per year ○ [(RM2,000 x 665 x 12 months) + (RM4,000 x 35 x 12 months)] ● Number of household alleviate from poverty level: 35 **Environmental Sustainability** ● 100% utilisation of sustainable planted forest material

Timeline		Resources Required
Start Date	End Date	
2022	2030	● Funding: RM10 million ○ 2022: RM2 million ○ 2023: RM2 million ○ 2024: RM2 million ○ 2025: RM2 million ○ 2026: RM2 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	Timber industry, investors, research institutions, higher learning institutions

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	20. Applied R&D to develop commercially viable high value products from planted timber species
Action step	:	20.1 - 20.5

Action step (s)	Output (s)	Timeline	Resources required
20.1 To conduct research on forest plantation yield enhancement (e.g. Growth rate of forest plantation, potential of planted species, carbon trading of forest plantation, etc.)	At least 3 projects At least 1 seminar / workshop At least 1 publication	Start date 2022	RM0.5 million per year
20.2 To conduct research on utilisation of planted timber species (e.g. Chemical properties of wood and biomass pellet from planted timber, mechanical properties of planted timber, engineered timber, etc.)	At least 5 projects At least 1 seminar / workshop per year At least 1 publication per year		RM1 million per year
20.3 To conduct research on utilisation of bamboo (e.g. Mechanical properties, biomass pellet, engineered bamboo, biochar, activated carbon, textile, etc.)	At least 5 projects At least 1 seminar / workshop per year At least 1 publication per year		RM0.5 million per year
20.4 To conduct applied research to support new investments	New investments	End date 2030	RM660 million (private investor investment in new projects) Total: RM2 million/year x 5 years = RM10 million
20.5 To identify project management team to implement and monitor this initiative	Project management team identified: • Research & Development Division		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	Timber industry, investors, research institutions, higher learning institutions

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	21. Feasibility study for the proposed Megasite in Bintulu

Initiative	Desired Outcome (s)
21. Feasibility study for the proposed Megasite in Bintulu	**Economic Prosperity** ● Utilise 1.6 million m^3 of planted timber to produce RM500 million products for export ● Attract RM1.5 billion new investment by 2030 and generate export value of RM500 million ● Improve competitiveness by reducing the cost of transportation logs to mill: ~RM81 million per year **Social Inclusivity** ● Create 500 new direct job opportunities (200 skilled) contributing household income of RM10 million per year in hinterland of Bintulu, Sarawak ● Create new township (liveable development area) for job and business opportunities ● Number of household alleviate from poverty level: 200 **Environmental Sustainability** ● Utilise 100% (about 1.6 million m^3 per year) material from sustainably developed planted forests ● Implement circular economy concept towards zero wastes ● 100% legality and environment compliance

Timeline		Resources Required
Start Date	End Date	
2022	2030	● Funding: RM3 million ○ 2022: RM1.8 million ○ 2023: RM1.2 million ● Land: 1,000 ha

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	Timber industry

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	21. Feasibility study for the proposed Megasite in Bintulu
Action step	:	21.1 - 21.4

Action step (s)	Output (s)	Timeline	Resources required
21.1 Tendering & Selection of Consultant	Letter of Appointment of consultant	**Start date**	RM0.15 million
21.2 To conduct Megasite Feasibility Study 1. On establishing integrated timber processing site within planted forest area 2. To determine supporting enablers infrastructure for Megasite	Feasibility study report completed and workshop	2022 **End date** 2022	RM2.5 million
21.3 To submit report for consideration to implement Megasite	Engineering Design for Megasite	**Start date** 2023	RM0.35 million Total: RM3 million
21.4 To identify project management team to implement and monitor this initiative	Project management team identified: • Industrial Planning & Licensing Division	**End date** 2023	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	Timber industry

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain higher export earnings through the advancement in downstream processing
Initiative	:	22. Retooling Fund of timber industry for downstream processing

Initiative	Desired Outcome (s)
22. Retooling Fund of timber industry for downstream processing	**Economic Prosperity** ● Retool existing mill to utilise 1 million m3 planted timber to produce RM335 million products for export **Social Inclusivity** ● Retain 1,050 workers contributing household income of RM31.9 million per year ○ (RM2,532 x 1,050 x 12 months) ● Number of household alleviate from poverty level: 1,050 **Environmental Sustainability** ● Utilise 100% (1 million m3) from sustainably developed planted forest ● Integrated processing concept towards zero wastes from primary processing to finish product including utilisation of mill waste

Timeline		Resources Required
Start Date	End Date	
2022	2030	● Funding: RM13 million ○ 2021: RM2.6 million ○ 2022: RM2.6 million ○ 2023: RM2.6 million ○ 2024: RM2.6 million ○ 2025: RM2.6 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	STA

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	22. Retooling Fund of timber industry for downstream processing
Action step	:	22.1 - 22.5

Action step (s)	Output (s)	Timeline	Resources required
22.1 To develop mechanism/criteria eligibility for providing Retooling Fund for timber industry	Retooling Fund mechanism	Start date 2022	RM25,000
22.2 Roadshow of Retooling Fund	3 roadshows implemented	End date 2022	RM25,000
22.3 Implementation of retooling funding program by disbursement of fund	Incentive for transformation of processing timber from natural forest to planted forest	Start date 2022 End date 2030	RM12.95 million
22.4 Collection of repayment	Replenishment of revolving fund	Start date 2024	Total: RM13 million
22.5 To set-up project management team to implement and monitor this initiative	Project management team set-up.	End date 2030	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	STIDC	STA

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	23. Establishment and Management of Forest One Stop Compliance Centre and Permanent Forest Estate

Initiative	Desired Outcome (s)
23. Establishment and Management of Forest One Stop Compliance Centre (FoSCC) and Permanent Forest Estate (PFE)	**Economic Prosperity** ● Economic Spin-Off: RM260 million ● Annual Revenue generation through FoSCC: RM492 million ● Increase the revenue productivity by 5 m^3/ha after FOSCCs. establishment. (RM121.00/m^3 x 5m^3/ha= RM605.00/ha) ● Generate household income: RM316,350 **Social Inclusivity** ● Potential job creation: 10 ● Increase high income employment: 10 ● Increase people participation and involvement: 100 **Environmental Sustainability** ● 100% compliance of logging operation in licence area ● Systematic, transparent administration and management of the forest with regular monitoring at operational area - at least one patrolling/week in 130,000 to 150,000 ha annually ● 90 PFEs demarcated on the ground to strengthen the management of PFE, control encroachment, illegal entry and illegal activities ● PFE Master plan produced as a clear guideline for management of the PFE

Timeline		Resources Required
Start Date	End Date	
2022	2023	● RM 4.5 million /annually (opex) ● Cashflow: ○ 2022: RM2.0 million ○ 2023: RM2.0 million ○ 2024: RM3.2 million ○ 2025: RM3.3 million ○ 2026: RM3.1 million ○ 2027: RM3.1 million ○ 2028: RM3.1 million ○ 2029: RM3.1 million ○ 2030: RM3.1 million ○ Total = RM26 million ● 350 officers

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	Resident and District Office, local council, JKR, Licensee, local communities and other relevant agencies

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	23. Establishment and Management of Forest One Stop Compliance Centre and Permanent Forest Estate
Action step	:	23.1 - 23.9

Action step (s)	Output (s)	Timeline	Resources required
23.1 Identify and prioritise the FOSCC that in dire need of improvement which located within the area that generate high revenue and cater high production of timber	FOSCC physically assessed and evaluated based on the of priority list of the most needed fixing	Start date	Cashflow: 2022: RM2.0 million 2023: RM2.0 million 2024: RM3.2 million 2025: RM3.3 million 2026: RM3.1 million 2027: RM3.1 million 2028: RM3.1 million 2029: RM3.1 million 2030: RM3.1 million Total = RM26 million RM4.5 million /annually (opex) At least 350 officers need to execute work
23.2 Engagement with relevant agencies to assess and arrange for procurement process	Procurement process for upgrading work conducted	2022	
23.3 Award the upgrading works to appointed contractors	Upgrading works of FOSCC completed		
23.4 Monitoring and Reporting the improvement project of the FOSCC	Quarterly monitoring report prepared on the awarded projects		
23.5 Appointment of consultant for Masterplan Study of PFE of Sarawak	One (1) consultant for Masterplan study of PFE appointed	End date	
23.6 Identify PFE that need boundary demarcation and signboard installation throughout Sarawak	90 PFE being demarcated on the ground (19,322 km perimeter) and 20 signboards installed within selected PFE		
23.7 Development of Terms and Reference for PFE Masterplan	One (1) TOR prepared for the requirement of the Masterplan Study		
23.8 Progress reports the Master Plan.	Three (3) progress reports for review and one (1) Master Plan as the final report	2030	
23.9 Identify potential job creation for community that contribute to poverty alleviation factor.	Poverty alleviation for local community through job creation		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	Resident and District Office, Local Council, JKR, licensee, local communities, other relevant agencies

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	24. Strengthening forest enforcement through advanced technology and equipment

Initiative	Desired Outcome (s)
24. Strengthening forest enforcement through advanced technology and equipment	**Economic Prosperity** ● Create 200 job potential by purchase and rental of vehicles, boat, vessel and others and increase household income: ○ Rental of 4WD/lorry: RM6,000,000 ○ Rental of machineries - tractor/excavator / trailer: RM644,000 ○ Rental of motorcycle: RM525,000 ○ Rental of Longboat: RM1,228,800 ○ Rental of Fibber boat: RM2,880,000 ○ Rental of Ship/Vessel: RM672,000 ○ Rental of Helicopter: RM1,200,000 ○ Purchased drone: RM390,000 ● Economic spin-off: RM74,750,000 **Social Inclusivity** ● 50% increase in 12 awareness programmes conducted to the rakyat on the importance of combating illegal logging ● Increased capabilities of intra-agency enforcement and communities by coordinating 12 technical trainings and capacity building programs for 200 personnel/training/year **Environmental Sustainability** ● Achieve zero non-compliance activities of logging operation within forest timber licence ● Curb illegal logging and encroachment of 7.9 mill ha forest area

Timeline		Resources Required
Start Date	End Date	
2022	2025	● Funding: RM14,950,000 ● Type of Skill: Security, Transportation, Human Capital ● Method required: Safety and security ● Cashflow: ○ 2022: RM5,650,000 ○ 2023: RM3,250,000 ○ 2024: RM4,500,000 ○ 2025: RM1,550,000

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	SAG, SFS, R&DO, private sector, NGOs, international organisations, other enforcements agencies and local communities

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	24. Strengthening forest enforcement through advanced technology and equipment
Action step	:	24.1 - 24.5

Action step (s)	Output (s)	Timeline	Resources required
24.1 Carry out awareness programmes for local communities and stakeholders on the importance of combating illegal logging	12 awareness programmes conducted on the importance of combating illegal logging to the rakyat increased by 50%	Start date	Funding: RM14,950,000 Manpower: 200 jobs created Type of Skill: Security, Transportation, Human Capital Method required: Safety and security Cash Flow:- 2022 = RM5,650,000 2023 = RM3,250,000 2024 = RM45,000,000 2025 = RM1,550,000
24.2 Identify potential job creation for local company that contribute to poverty alleviation factor	Poverty alleviation for local community through job creation	2022	
24.3 Appointment of contractors/ suppliers and commencement of forest enforcement activities, awareness programmes and technical trainings	200 service providers appointed Enforcement works, awareness programmes and technical trainings carried out	End date	
24.4 Procurement of the new technology equipment for enforcement work	Existing and obsolete equipment of enforcement division upgraded	2026	
24.5 Implementation, monitoring and inspection of enforcement activities	Achieve zero non-compliance activities of logging operation within forest timber licence 7.9 mil ha of forested area protected from illegal logging and encroachment.		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	SAG, SFS, R&DO, private sector, NGOs, international organisations, other enforcements agencies, local communities

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	25. Establishment of Central Depot for seized items in Sarawak

Initiative	Desired Outcome (s)
25. Establishment of Central Depot for seized items in Sarawak	**Economic Prosperity** ● Create household Income: RM893,850 (RM5,959/head) ● Increase revenue to the state by RM500,000 from forfeited of seized items ● Reduce 30% of expanse on operational expenditure (OPEX) to monitor the seized items ● Reduce 80% of manpower and time consumed for effectiveness of monitoring seized items ● Ensure 100% of seized items monitor centralised and not missing/lost ● Economic spin-off: RM255,000,000 **Social Inclusivity** ● Create high income employment: 10 ● Potential jobs supported: 150 (security, transportation and construction) ● People participation and involvement: 250 ● Gains 100% trust and good image from public on integrity and responsibility in good managing of the exhibit (seized items) **Environmental Sustainability** ● 100% forfeited or confiscated seized items with environmentally sustainable practice ● 100% of seized items are secure and well managed ● Achieve international standard by United Nations Office on Drugs and Crime (UNODC) on International Cooperation for the purposes of confiscation of proceed of crime.

Timeline		Resources Required
Start Date	End Date	
2022	2030	● Funding: RM25,500,000 ● Type of Skill: Security, Transportation, Construction ● Method required: High safety and security ● Land required: State Land or Permanent Forest Estate ● Cashflow: ○ 2022: RM1.0 mil ○ 2023: RM1.5 mil ○ 2024: RM9.0 mil ○ 2025: RM10.0 mil ○ 2026: RM4.0 mil

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	L&S, JKR, Resident and DO Office, private sector, local communities

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	25. Establishment of Central Depot for seized items in Sarawak
Action step	:	25.1 - 25.5

Action step (s)	Output (s)	Timeline	Resources required
25.1 Identification the site for establishment of Central Depot, site survey, land acquisition and siting application	Five (5) site areas in 5 regions as potential strategic location identified	Start date 2022	Funding: RM25,500,000 Type of Skill: Security, Transportation, Construction Method required: High safety and security Land required: State Land or Permanent Forest Estate Cash Flow:- 2022: RM 1,000,000 2023: RM1,500,000 2024: RM9,000,000 2025: RM10,000,000 2026: RM4,000,000
25.2 Monitor and inspect the progress of depot development	Five (5) Central Depot established		
25.3 Conduct meeting, engagement and consultation with relevant agencies for procurement process	Five (5) consultants appointed, and tender document prepared	End date 2026	
25.4 Appointment of contractor removing the seized items to the Depot	Five (5) contractors appointed for removing seized items to the Depot		
25.5 Prepare inventory and reporting the seized item	Inventory and report of seized item produced		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	L&S, JKR, Resident and DO Office, private sector, local communities

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	26. Artificial Intelligence and Forensic Timber Identification for forest protection and revenue generation

Initiative	Desired Outcome (s)
26. Artificial Intelligence (AI) and Forensic Timber Identification for forest protection and revenue generation	**Economic Prosperity** ● Annual revenue: RM2.5 million / year from wood ID per pieces (RM1) from estimated 2.5 million logs / year through Subscription fees of the Sarawak's wood ID apps ○ 1 Legal framework to enforce all FTL to subscribe to the wood timber ID apps in compliance for legality requirements along the Chain of Custody (CoC). ○ 1 Legal framework to collect fees from the usage of the apps for each wood id. ● Economic Spin-Off: RM50 mil ● Generate household income: RM800 – RM1,800 / monthly / person from 40 job created every year **Social Inclusivity** ● Enhance R&D capacity of the State through Forest Department Sarawak, developing expertise in AI technology and Forensic Timber DNA technology. ● Local community development by involving at least 40 local communities for the establishment and assessment of R&D plots. **Environmental Sustainability** ● Field-deployable mobile wood identification app technology for 50 Sarawak timber groups built through Artificial Intelligence platform, which allows semi-trained personnel to perform wood identification. ● Establish accredited Lab of Forest Genetic to achieve positive world recognition in Combating Wildlife and Forest Crime (GPWLFC) thus this will support the national and international communities in fighting illegal logging and timber trade through supply chain verification (Stump to end timber products) ● Achieve 100% compliance to Forest Timber Licence (FTL) Conditions, compliance to Forest ordinance 2015 and Forest Rules, 100% compliance to Wildlife protection ordinance, 1998 through Wood ID system and forensic DNA as part of clear and convincing evidence in court.

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	26. Artificial Intelligence and Forensic Timber Identification for forest protection and revenue generation (cont'd)

Timeline		Resources Required
Start Date	**End Date**	
2022	2030	● Scheme value: RM20,000,000 ● Required project funding: RM 10,000,000 (2022-2026) ● Approved funding by EPU Sarawak: RM 1,500,000 (2022-2023) ● Appointment of AI system platform provider. ● Manpower: ○ 1 Chemist, 1 wood anatomist, 2 researchers in Forest Genetic, 2 laboratory assistance and 2 research assistance, 40 local community for field sampling. ● Sites: FMUs and National Parks ● Cashflow: ○ 2022: RM1.35 mil ○ 2023: RM0.15 mil ○ 2024: RM3.33 mil ○ 2025: RM3.13 mil ○ 2026: RM2.04 mil ○ 2027: RM3.50 mil ○ 2028: RM4.40 mil ○ 2029: RM0.95 mil ○ 2030: RM1.15 mil

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	SAG, SFS, FDS, SFC, STIDC, private sector, FMUs, research university, international organisations

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	26. Artificial Intelligence and Forensic Timber Identification for forest protection and revenue generation
Action step	:	26.1 - 26.5

Action step (s)	Output (s)	Timeline	Resources required
26.1 Development and deployment of field-deployable Sarawak Wood ID App through smartphones using AI platform for 50 Sarawak's timber group	Sarawak's own "Rapid and Field-Deployable Sarawak Wood ID APP using smartphones been developed through AI platform" for field personal/enforcement officer	Start date 2022	Scheme Value RM20 mil Required project funding: RM10 mil (2022-2026) Approved funding by EPU Sarawak: RM1.5 mil (2022-2023) Appointment of AI system platform provider. Manpower: 1 Chemist 1 wood anatomist 2 researchers in Forest Genetic 2 laboratory assistance 2 research assistance 40 local communities for field sampling Sites: FMUs and National Parks
26.2 Impart on legal framework that will enforce all FTL to subscribe to the wood timber ID apps in compliance for legality requirements along the Chain of Custody (CoC) and impart legal framework to collect fees from the subscription of the apps for each wood ID.	New addition of revenue approximately RM2.5 million / year derived from wood ID per pieces (RM1) from estimated 2.5million logs/year to the state revenue which will be generated from the end user's subscription fees of this AI wood ID platform.	End date 2030	
26.3 Appointment of AI timber model building service platform developer to develop, maintain and upgrade AI models for Sarawak timber groups	Knowledge transfer – at least two (2) Artificial intelligence engineer been trained	Start date 2023	
26.4 Establishment of strategic collaboration through MOU/MOA with national/internationally renowned institutions and/or universities in the field of forensic timber DNA	At least one (1) strategic collaboration established	End date 2030	
26.5 Implement capacity building programmes: E.g. training, study visit, seminar and conference/ publication	At least three (3) researchers from Sarawak will be trained in high level genetic labs in at least at one (1) renowned/established DNA forensic institution (example: FRIM, Indonesia, China and, etc.)		

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	26. Artificial Intelligence and Forensic Timber Identification for forest protection and revenue generation (cont'd)
Action step	:	26.6 - 26.8

Action step (s)	Output (s)	Timeline	Resources required
26.6 Stakeholders engagement through Training and familiarisation in the application of the wood ID app for enforcement officers throughout Sarawak (FDS, STIDC and Custom	182 FDS's enforcement officers as well other stakeholders (STIDC, CUSTOM) will be well equipped to accurately perfume timber species id on the ground for verification of logs for royalty marking and to detect the decline of protected species and CITES listed tree	Start date 2024	
26.7 Forensic Timber DNA: Developing DNA barcode reference library of commonly traded timber as well protected species of Sarawak and CITES	One (1) DNA barcode reference library of commonly traded timber species (at least 4 species) developed	End date	
26.8 Digitalisation of Sarawak's wood library (Xylarium) as well upgrading of the Xylarium , anatomy and chemistry laboratory	A modern and state of the art Xylarium with high quality virtual slides through digitisation of the microscope wood slide collection as a whole, to make it more accessible online to external researchers	2030	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	SAG, SFS, FDS, SFC, STIDC, private sector, FMUs, research university, international renowned organisations

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	27. Development of Sustainable Forest Management Centre in Central Region, Sarawak

Initiative	Desired Outcome (s)
27. Development of Sustainable Forest Management (SFM) Centre in Central Region, Sarawak	**Economic Prosperity** ● 65 FTL (12 certified) comprises of 3.7 mil ha forests area located throughout Sarawak managed in sustainable manner for a continuous supply of timber production and long term economic stability from timber industries revenues ● Annual Revenue generation: RM535 mil (State average annual revenue of timber royalty, premium and cess) ● Economic Spin-Off: RM248.15 million ● Increase Household Income: RM9,842 / per head **Social Inclusivity** ● Potential Job Creation:150 ● Increase high income employment: 10 ● Increase people participation and involvement (inclusiveness): 250 ● Number of household alleviate from poverty level: 50 **Environmental Sustainability** ● Monitoring and management of 3.7 mil ha forests area strengthened through various forest management approach initiated such as Forest Management Certification, monitoring and strengthened enforcement activities ● Enhanced promotion of implementation of SFM practices to have a sustainably managed forests in line with Goal 15 SDG UN. Also ensuring the conservation of mountain ecosystems including their biodiversity to enhance its capacity in providing essential services to humans and the environment. ● Water quality improved through proper forests operation and reducing excessive run-off. Forests as water-related ecosystem protected and restored (Goal 6 SDG) ● Protected labour rights also a safe a secure working environments through FMC in all FMU in Sarawak (Goal 8 SDG) ● Sustainable management and efficient use of natural resources achieved. Including, environmentally sound management of chemicals and wastes. Aware and well-informed public on a sustainable development and lifestyles in harmony with nature (Goal 12 SDG)

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	27. Development of Sustainable Forest Management Centre in Central Region, Sarawak (cont'd)

Timeline		Resources Required
Start Date	**End Date**	
2022	2026	● Funding: RM 24, 815, 000 ● Manpower: ○ FDS: 10 ○ Consultant ○ Contractor (Construction) ● Land required: ~2 ha ● Material: Concrete Building ● Cashflow: ○ 2022: RM1.3 mil ○ 2023: RM2.7 mil ○ 2024: RM7.8 mil ○ 2025: RM8.0 mil ○ 2026: RM5.0 mil

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	MUDeRN, FDS, R&DO, L&S

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	27. Development of Sustainable Forest Management Centre in Central Region, Sarawak
Action step	:	27.1 - 27.7

Action step (s)	Output (s)	Timeline	Resources required
27.1 Land acquisition and siting application process for SFM Centre	Site identified, siting approved, and land acquired	**Start date**	Funding: RM24,815,000 Manpower: • FDS: 10 • Consultant • Contractor (Construction) Land required: Approx. 2 ha Material: Concrete Building Cashflow:- 2022: RM1,300,000 2023: RM2,700,000 2024: RM7,805,000 2025: RM8,010,000 2026: RM5,000,000
27.2 Appointment of consultant / JKR 1. Letter of Appointment for consultant / JKR 2. Survey work / soil investigation 3. Detail design/ tender drawing 4. Tender documents	JKR / consultant appointed to take charge in the project Survey work / soil investigation conducted Master Plan, tender drawing, EIA & soil investigation report produced Tender process completed	2022	
27.3 Contractor appointment 1. Letter of Appointment 2. Letter of Acceptance 3. Contract document	One (1) contractor offered for the project Letter of acceptance received from contractor Contract document bonded between government and contractor	**End date**	
27.4 Construction work at site	Establishment of one (1) SFM Centre	2026	
27.5 Progress report	Progressive Monitoring Report prepared		
27.6 Project Completion - (CPC, DLP, OP)	Fully constructed SFM Centre		
27.7 Identify potential job creation for community that contribute to poverty alleviation factor.	Training of forest officers on SFM Provide capacity building for the timber industry Uplift livelihood and poverty alleviation for local community through job creation.		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	MUDeNR, FDS, R&DO, L&S

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	28. Integrated forest ecological study for resource utilisation and management

Initiative	Desired Outcome (s)

28. Integrated forest ecological study for resource utilisation and management	**Economic Prosperity**
	● Adequate supply of bamboo planting materials by well-established production laboratories in Sarawak for the establishment of bamboo plantation with optimum yield - 25-30 tonnes of culms per ha or 5–6 culms per clump of medium diameter bamboo (i.e. 2,500–3,000 culms per ha). The optimum yearly income from one acre is RM8,000++/-per acre. Such income persists up to 50 to 60 years.
	● Increased demand for non-timber forest products with estimated RM2.5 million / year (craft, food, seedlings)
	● Generate household income of RM1,200 – RM2,000 / month / person from:
	  ○ development of small entrepreneurship for local community from forest products,
	  ○ the participation of local community as laborer.
	
	Social Inclusivity
	● Local community development creating at least 40 job opportunities (jobs in field inventory, sample collection, acclimatisation of planting materials and sample/data collection)
	● Increased field expertise via project implementation by officers (10) and university students (industrial training) / contract officers (5)
	
	Environmental Sustainability
	● Long term research assessment and monitoring of the 4 selected PFEs areas (estimated 10,000 ha) to ensure the sustainability of the diverse biodiversity in the areas.
	● Better understanding of the richness of flora and fauna in these selected areas for conservation purposes.
	● The achievement of efficient data input and processing through development of digital biodiversity database system - Increased number of stakeholders (researchers/students/ education institution/other relevant agencies/public) acquiring data and make references.
	● Reduced stress on the natural forest by promoting bamboo species as an alternative sustainable resource to timber for various forest products (including furniture manufacture, construction, pharmaceutical, food production, etc.)
	● Environmental rehabilitation by recovery of at least 1 identified endangered species through workable micropropagation protocol.

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	28. Integrated forest ecological study for resource utilisation and management (cont'd)

Timeline		Resources Required
Start Date	End Date	
2026	2030	● Required project funding: RM6,000,000.00 ● Manpower: ○ FDS (Research Officers, Assistant Research Officers, Field Assistants) ○ Local communities ○ Consultant ● Cashflow: ○ 2026: RM1.0 mil ○ 2027: RM1.0 mil ○ 2028: RM1.5 mil ○ 2029: RM1.5 mil ○ 2030: RM1.0 mil

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	Government agencies, private sector, universities, research institutions, local communities and other relevant agencies

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	28. Integrated forest ecological study for resource utilisation and management
Action step	:	28.1 - 28.9

Action step (s)	Output (s)	Timeline	Resources required
28.1 Undertake tissue culture research for selected non-timber species	At least one (1) micropropagation protocol for selected non-timber species produced	Start date	Required project funding: RM6 mil Manpower: FDS (Research Officers, Assistant Research Officers, Field Assistants) Local communities Consultant Cash Flow:- 2026: RM1 mil 2027: RM1 mil 2028: RM1.5 mil 2029: RM1.5 mil 2030: RM1 mil
28.2 Data collection and nursery raising for potential plant species to propagate	Five (5) potential plant species for propagation (orchid) identified		
28.3 Extensive inventory surveys on forest biological resources and environment	At least two (2) extensive inventory survey on forest biological resources and environment conducted	2026	
28.4 Identify potential job creation by engaging qualify contract workers	Uplift livelihood and poverty alleviation for community through job creation and providing job-related training		
28.5 Conduct training for the staffs and contract workers on field inventory works including sampling and data analysis, database entry, and micropropagation method.	Reliable data and results from the trained staff and contract workers obtained especially on field works, laboratory works and database management	End date	
28.6 Conduct inventory surveying within the identified Permanent Forest Estates (PFEs)	Integrated biodiversity data and specimen collection within 4 surveyed PFEs area		
28.7 Intensive data entry into the developed database system, scanning specimen into digital image	Three (3) main digital database system that comprised specimen collection of flora, fauna and fungi developed	2030	
28.8 Undertake tissue culture research for selected non-timber species	At least 1 micropropagation protocol for selected non-timber species produced		
28.9 Undertake tissue culture research for selected endangered species	At least 1 micropropagation protocol for selected endangered species produced		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	FDS, Government agencies, private sectors, universities, research institutions, local communities, other relevant agencies

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	29. Anthropogenic effects to forest conservation and ecosystem sustainability

Initiative	Desired Outcome (s)
29. Anthropogenic effects to forest conservation and ecosystem sustainability	**Economic Prosperity** ● Maintained forest ecosystem for eco-tourism investment which can generate economic spin-off about RM2 mil / year ● Contribute to socio-economic growth through its positive effects on conservation through creating household income by RM178,770/50 = RM3,575.40/head (one-off) **Social Inclusivity** ● Contributor to socio-economic growth through its positive effects on conservation through: ○ Creating 50 potential job ○ Creating high income employment by 5 ○ Increase people participation and involvement (inclusiveness) by 40 ● Betterment of community livelihood through good surroundings such as sustainable food supply and clean water resources **Environmental Sustainability** ● Inventory of biodiversity flora, fauna and environment are documented through at least 4 research assessments and monitoring per year ● Support the survival of protected species by conducting in-situ and ex-situ conservation efforts in 2 selected PFE areas

Timeline		Resources Required
Start Date	End Date	
2026	2030	● Required project funding: RM2,000,000 ● Site: Selected PFE area in Sarawak ● 3. Manpower: Research officers, assistant research officers, field assistants, local communities ● Cashflow: ○ 2026 – RM200,000 ○ 2027 – RM300,000 ○ 2028 – RM500,000 ○ 2029 – RM500,000 ○ 2030 – RM500,000

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	International and local research institutions, higher learning institutions, local communities, other relevant agencies

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	29. Anthropogenic effects to forest conservation and ecosystem sustainability
Action step	:	29.1 - 29.6

Action step (s)	Output (s)	Timeline	Resources required
29.1 Identify potential ecotourism conservation area	Potential ecotourism conservation area identified	Start date	Required project funding: RM2,000,000 Site: Selected PFE area in Sarawak Manpower: Research officers, assistant research officers, field assistants, local communities Cashflow: 2026: RM200,000 2027: RM300,000 2028: RM500,000 2029: RM500,000 2030: RM500,000
29.2 Create job from research and eco-tourism activities such as homestay, transportation, local guide and porters	Uplift livelihood and poverty alleviation for community through job creation & providing related job training; Contribute to socio-economic growth through its positive effects on conservation through creating 25 potential job and increase people participation/involvement	2026	
29.3 Raise awareness on anthropogenic activities and encourage strengthening the role of forests.	Betterment of community livelihood through good surroundings such as sustainable food supply and clean water resources	End date	
29.4 Conduct intensive research and monitoring	At least four (4) publications produced and these reports will provide a basis for evaluating the ecosystem, their response to disturbances (anthropogenic activities) and the success of actions taken to conserve and recover biodiversity	2030	
29.5 Conduct in-situ and ex-situ conservation efforts	Support survival of at least one (1) protected species in two (2) selected PFE areas		
29.6 Compile baseline data based on research assessment/findings.	Provide at least one (1) complete compilation of baseline information as a reference for policy makers in producing policies on sustainable forest management based on anthropogenic impact assessments.		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	International and local research institutions, higher learning institutions, local communities, other relevant agencies

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	30. Assessment on habitat of fauna in PFE in support of Forest Management Certification

Initiative	Desired Outcome (s)
30. Assessment on habitat of fauna in PFE in support of Forest Management Certification (FMC)	**Economic Prosperity** ● Economic Spin-Off: RM18.5 mil ● Conservation value: Ecosystem services – RM1.16 bil ● Conservation within production area which lead to demand of sustainable timber product ● Local community involvement: Create income at least RM100 per day (One-Off Job) **Social Inclusivity** ● Increase participation of the local communities and food security ● Potential Job Creation: 110 ● Create high income employment: 5, ● Increase people participation and involvement (inclusiveness): 110 **Environmental Sustainability** ● Conservation flora and fauna in terms of carbon trading ○ CO_2 RM20-40 per ton ○ 1 ha = 145 tonnes CO_2 ○ 5 FMU/PFE areas selected (average 200,000 ha) ○ The value of carbon sequestration through effective management of habitat = RM1.16 bil ● Wildlife / biodiversity protection is sustained especially for Pest control, pollination, nutrient cycling of forest ecosystem.

Timeline		Resources Required
Start Date	End Date	
2026	2030	● Required project funding: RM3,700,000 (2026-2030) ● Approved funding by EPU Sarawak: RM 2,000,000 (2026-2027) ● Manpower: researchers, field assistance, local community and involvement of other relevant agencies ● Sites: PFE's and FMU's ● Cashflow: ○ 2026: RM1 million ○ 2027: RM1 million ○ 2028: RM1 million ○ 2029: RM500,000 ○ 2030: RM200,000 ○ Total = RM3.7 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	UNIMAS,UPM, WWF, FMUs and other relevant agencies

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	30. Assessment on habitat of fauna in PFE in support of Forest Management Certification
Action step	:	30.1 - 30.6

Action step (s)	Output (s)	Timeline	Resources required
30.1 Implement conservation program within production area	Demand of certified timber market in production area increased	**Start date**	Required project funding: RM3.7 mil (2026-2030) Approved funding by EPU Sarawak: RM 2.0 mil (2026-2027) Manpower: researchers, field assistance, local community and involvement of other relevant agencies Sites: PFE's and FMU's
30.2 Conduct research on the difference between Impacts of conventional logging and RIL	Report on the research of the difference between Impacts of conventional logging and RIL and recommendations for conservation management in FMUs produced;	2026	
30.3 Conduct awareness program on wildlife to stakeholders and local communities	At least two (2) awareness program on Wildlife regulation conducted		
30.4 Capacity building program with stakeholders and local communities	At least two (2) capacity building program with stakeholders and local community conducted	**End date**	
30.5 Identify potential job creation for local community	Uplift livelihood and poverty alleviation for local community and local communities will be more knowledgeable about the role of wildlife conservation	2030	
30.6 Conduct research of Impacts of logging activities towards wildlife population in FMU area.	Report on the research of Impacts of logging activities towards wildlife population in FMU area produced		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	FDS	UNIMAS, UPM, WWF, FMUs, other relevant agencies

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	31. Achieve world class recognition for biodiversity conservation and protected areas management

Initiative	Desired Outcome (s)

31. Achieve world class recognition for biodiversity conservation and protected areas management
 	
Niah NP as UNESCO World Heritage Site, Bako NP and Lambir Hills NP as ASEAN Heritage Parks, and Kuala Lawas/Kuala Trusan and Limbang Mangrove National Park as East Asia-Australasian Flyway Network Sites)
	Leveraging status and gaining recognition of protected areas through inscription of:
	1. Niah NP as UNESCO World Heritage Site (WHS) by 2024
	2. Lambir Hills NP and Bako NP as ASEAN Heritage Park (AHP) by 2025
	3. Kuala Lawas / Kuala Trusan and Limbang Mangrove NP as East Asia-Australian Flyway Network site by 2025.
	
	Economic Prosperity
	● Increased income generation from tourism products and services. Generating economic spin-off: RM90 mil from tourism service supply chain
	  ○ Collection of entrance fees: RM4.7 mil
	  ○ Concession fees:
	  ■ Niah NP: RM8.4 mil (2024-2030)
	  ■ Lambir Hill NP: RM2 mil (2023-2030)
	  ■ Bako NP: RM2.5 mil (2022-2030)
	● Increase Household Income by 2030:
	  ○ Niah-RM8,000.00
	  ○ Bako-RM13,000.00
	  ○ Lambir-RM10,000.00
	  ○ Lawas-RM7,000.00
	
	Social Inclusivity
	● Potential jobs created (Niah: 800; Bako: 1,750; Lambir: 450): 2945 (3,000)
	● Create high income employment: 300 (e,g, tour operator, hospitality provider, tourism consultants, tour guides, F&B services, etc.)
	● Attract at least 4 renowned international research institutions for collaborative work.
	
	Environmental Sustainability
	● Niah NP: RM1 million per year on replacement cost or not conserving and protecting cave systems for black birdnest (unprocessed) industry.
	● Lambir Hills: Production of water as part of payment of ecosystem services at 134 million litres per day.
	● Bako NP: RM84 million per year on replacement cost for not conserving and protecting forest ecosystems for marine fisheries
	● Kuala Lawas/Kuala Terusan and Limbang NP: RM125 million/year from payment of ecosystem services for protection of mudflats, seagrass, marine and mangrove ecosystem.

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	31. Achieve world class recognition for biodiversity conservation and protected areas management (cont'd)

Timeline		Resources Required
Start Date	End Date	
2021	2030	**Required project funding:** ● Niah NP: RM54.24 mil ○ Cashflow for WHS nomination processes (RM2.24 mil): ○ Tourism Management Plan: RM250,000 (2021-2022) ○ Nomination dossier: RM250,000 (2021-2024) ○ Publicity programme: RM1.74 mil (2021-2023) ○ Infrastructure: RM52 mil (completion by 2024) ● Lambir Hills NP & Bako NP (RM1 million): ○ Tourism Mgt Plan: RM250,000 (2021-2025) ○ Nomination document: RM250,000 (2021-2025) ○ Publicity program: RM500,000 (2021-2025) ● Kuala Lawas/Kuala Trusan & Limbang NP - RM500,000 ○ Yearly monitoring activities ○ Site information sheet (SIS) ○ Publicity engagement **Legislation & policy: MMKN, Federal Government commitment.** At least 30 field staff & researchers

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	FDS, R&DO, museum, L&S, universities, local communities, JBALB, KeTSA, Jabatan Warisan Negara, UNESCO, ASEAN Centre for Biodiversity (ACB), MMKN, Federal Government

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	31. Achieve world class recognition for biodiversity conservation and protected areas management
Action step	:	31.1

Action step (s)	Output (s)	Timeline	Resources required
31.1 Inscription of Niah NP as UNESCO-World Heritage Site (WHS) 1. Appointment of consultant 2. Preparation of Tentative List 3. Preparation of nomination dossier 4. Writing and submission of dossier 5. Evaluation and nomination of Niah NP as WHS 6. Development of Infrastructure and facilities • Identify site, • Appointment of consultant • Site survey and investigation, • Site Plan and schematic design • Application of siting and building plan approval by SPA and SBDC (where applicable) • Detail plan and tender documentation • Tendering and evaluation • Tender award and construction	Niah NP inscribed as UNESCO World Heritage Site	**Start date** Jan 2021 **End date** Dec 2024	
	Tourism Management Plan	**Start date** Jan 2021 **End date** Dec 2022	RM250,000 Cash flow: 2021: RM250,000 2022: Nil
	Nomination dossier	**Start date** Jan 2022 **End date** Dec 2024	RM250,000 Cash Flow: 2022: RM100,000 2023: RM75,000 2024: RM75,000
	Publicity program (international conference, documentary video, etc.)	**Start date** Jan 2021 **End date** Dec 2023	RM1,505,000 Cash Flow: 2021: RM170,000 2022: RM835,000 2023: RM500,000

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	R&DO, Museum, L&S, universities, local communities, KeTSA, Jabatan Warisan Negara, UNESCO, consultants, State Library

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	31. Achieve world class recognition for biodiversity conservation and protected areas management (cont'd)
Action step	:	31.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	Infrastructure & Facilities upgraded: ● Visitors facilities upgraded ● Bridge crossing Sg. Niah ● Buggy road and Buggy Station ● Nature trail facilities ● Directional signage ● Parkshop and Cafeteria	**Start date** Jan 2020 **End date** Dec 2024	RM52,000,000 Cash flow: 2020: RM200,000 2021: RM19,600,000 2022: RM16,400,000 2023: RM15,400,000 2024: RM400,000

Project Owner	Implementing Agency	Other Stakeholders
MTAC	SFC	R&DO, Museum, L&S, universities, local communities, KeTSA, Jabatan Warisan Negara, UNESCO, consultants, State Library

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	31. Achieve world class recognition for biodiversity conservation and protected areas management (cont'd)
Action step	:	31.2

Action step (s)	Output (s)	Timeline	Resources required
31.2 Lambir Hills NP and Bako NP as ASEAN Heritage Park (AHP) 1. Intention to nominate 2. Proposal on AHP action plan 3. Appointment of consultants 4. Preparation of management plans and nomination documents 5. Endorsement of nomination documents (ACB National Contact Point ie KeTSA) 6. Review and endorsement of nomination documents – conduct of desk review and field evaluation 7. Review and endorsement of nomination documents 8. Endorsement of nomination documents 9. Approval of nominations *Note: Item 3-6 are under the purview of ASEAN Center for Biodiversity (ACB)*	Lambir Hill NP and Bako NP inscribed as Asean Heritage Park	**Start date** Jan 2021	
	Management plan and nomination document for Bako NP		RM750,000 Cash Flow: 2022: RM600,000 2022: RM100,000 2023: RM50,000
	Management plan and nomination document for Lambir Hill NP	**End date** Dec 2025	RM750,000 Cash Flow: 2022: RM100,000 2022: RM500,000 2023: RM50,000 2024: RM100,000
	Three (3) publicity programs conducted		RM500,000 Cash Flow: 2023: RM100,000 2024: RM100,000 2025: RM300,000

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	FDS, R&DO, L&S, universities, local communities, JBALB, KeTSA, ASEAN Centre for Biodiversity (ACB)

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	31. Achieve world class recognition for biodiversity conservation and protected areas management (cont'd)
Action step	:	31.3

Action step (s)	Output (s)	Timeline	Resources required
31.3 Inscription of Kuala Lawas/Kuala Trusan & Limbang Mangrove NP as East Asia-Australian Flyway Network site 1. Preparation of Site Information Sheet (SIS) 2. Endorsement of SIS 3. Preparation of Management Plans	Kuala Lawas/Kuala Trusan/Limbang Mangrove NP inscribed as EAAFN Site by 2030	Start date Jan 2021 End date Dec 2030	RM500,000 Cash flow: 2021: RM100,000 2022: RM100,000 2023: RM100,000 2024: RM100,000 2025: RM100,000
	Yearly monitoring activities	Start date Jan 2021	
	Site information sheet (SIS)	End date Dec 2025	
	Publicity engagement		
	Management Plans for Limbang Mangrove and Kuala Lawas NP	Start date Jan 2025 End date Dec 2026	RM 1,000,000 Cash flow: 2025: RM500,000 2026: RM500,000

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	FDS, R&DO, L&S, universities, local communities, JBALB, KeTSA, ASEAN Centre for Biodiversity (ACB)

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	31. Achieve world class recognition for biodiversity conservation and protected areas management (cont'd)
Action step	:	31.4 - 31.5

Action step (s)	Output (s)	Timeline	Resources required
31.4 Inscription of Danau Mujan NP and Loagan Bunut NP as RAMSAR Sites 1. Intention to nominate 2. Consultation with stakeholders on proposed nomination 3. Develop supporting nomination document 4. Jurisdiction endorsement and submission of formal nomination 5. Formal review of Ramsar nomination 6. Ramsar Site designation	Danau Mujan NP inscribed as RAMSAR Site by 2027 b. Loagan Bunut NP Inscribed as RAMSAR Site by 2030	Start date Jan 2025 End date Dec 2030	RM3,000,000 Cash flow: 2025: RM500,000 2026: RM500,000 2027: RM1,000,000 2028: RM500,000 2030: RM500,000

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	CITES, CBD, RAMSAR, UNDP, GEF, KeTSA, FDS, NGOs, IUCN

Action step (s)	Output (s)	Timeline	Resources required
31.5 To certify 20 sites under IUCN Green List of Protected and Conserved Areas 1. Preparation and submission of evidence for five indicators for completion of Application Phase 2. Preparation and submission of evidence supporting forty-five indicators for completion of Candidate Phase 3. Site visit and evaluation by assessor 4. Green List designation	20 sites Green Listed by 2030 • Santubong NP • Bako NP • Gunung Buda NP • Gunung Pueh NP • Usun Apau NP • Bungo Range NP • Pulong Tau NP • Gunung Lesong NP • Lambir Hills NP • Similajau NP • Loagan Bunut NP • Semenggoh NR • Batang Ai NP • Kuching Wetlands • Lanjak-Entimau Ws • Maludam NP • Piasau NR • Sama Jaya NR • Tanjung Datu NP • Kubah NP	Start date Jan 2021 End date Dec 2030	RM 500,000 Cash flow: 2021: RM50,000 2022: RM50,000 2023: RM50,000 2024: RM50,000 2025: RM50,000 2026: RM50,000 2027: RM50,000 2028: RM50,000 2029: RM50,000 2030: RM50,000

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	CITES, CBD, RAMSAR, UNDP, GEF, KeTSA, FDS, NGOs, IUCN

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	31. Achieve world class recognition for biodiversity conservation and protected areas management (cont'd)
Action step	:	31.6 - 31.9

Action step (s)	Output (s)	Timeline	Resources required
31.6 Conduct periodical assessment to maintained recognition status.	Periodical report	Start date	
31.7 Identify potential TPA to be managed by managing agent	At least one additional TPA managed by managing agent	Jan 2021	
31.8 Review gazetted fee for TPA	Revised gazetted fee rate for TPA	End date	
31.9 Identify community development /participation program	List of community development programme	Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	CITES, CBD, RAMSAR, UNDP, GEF, KeTSA, FDS, NGOs, IUCN

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	32. Management and strengthening protection for selected Totally Protected Areas

Initiative	Desired Outcome (s)
32. Management and strengthening protection for selected Totally Protected Areas (TPAs)	• Comprehensive protection of intangible conservation values of forest goods and services through cadastral perimeter survey of boundaries for 3 TPAs by 2023: ○ Lambir Hills NP - Production of water as part of payment of ecosystem services at 134 million litres per day. ○ Limbang Mangroves NP - RM125 million/year from payment of ecosystem services for protection of mudflats, seagrass, marine and mangrove ecosystem. ○ Kuala Lawas NP - RM125 million/year from payment of ecosystem services for protection of mudflats, seagrass, marine and mangrove ecosystem. • Systemic planning of TPA organisation and natural resource protection through completion of management plans for 4 TPAs: ○ Bako NP by 2023 - RM84 million per year on replacement cost for not conserving and protecting forest ecosystems for marine fisheries ○ Lambir Hills NP by 2024 - Production of water as part of payment of ecosystem services at 134 million litres per day. ○ Limbang Mangroves NP by 2026 - RM125 million/year from payment of ecosystem services for protection of mudflats, seagrass, marine and mangrove ecosystem. ○ Kuala Lawas NP by 2026 - RM125 million/year from payment of ecosystem services for protection of mudflats, seagrass, marine and mangrove ecosystem. • Comprehensive protection of intangible conservation values of forest goods and services through cadastral perimeter survey of boundaries for the following TPAs by 2030: ○ Samunsam WS, G. Mulu NP, G. Buda NP (2024) ○ Sabal NP, G. Apeng NP, Kubah NP, Santubong NP, Bukit Tiban (2025) ○ Sedilu NP, Ulu Sebuyau NP, G. Lesong NP (2026) ○ Gunong Pueh NP, Batang Ai NP, Loagan Bunut NP (2027) ○ Lanjak Entimau WS, Dered Krian NP, Bungo Range NP, (2028) ○ Rajang Mangrove NP, Fairy Cave NR, Bukit Hitam NR (2029) ○ Maludam NP, Kuching Wetland NP, Bukit Sarang NP, Pulong Tau NP (2030)

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	32. Management and strengthening protection for selected Totally Protected Areas (cont'd)

Initiative	Desired Outcome (s)
32. Management and strengthening protection for selected Totally Protected Areas (TPAs)	**Economic Prosperity** ● Economic spin-off: RM75 mil ● Increase household income: RM6,000 by 2030 **Social Inclusivity** ● Potential local job creation: 1,000 (e.g. labourers, porters, logistic provider, contract workers). ● Increase high income employment: 102 people ● Attract at least 4 local research institutions for collaborative work. **Environmental Sustainability** ● Achieving state target of 1 million ha of well-managed natural areas as TPAs. ● International recognition of 5 additional TPAs.

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Funding required: RM45 mil ● Cashflow: ○ 2022: RM2.5 mil ○ 2023: RM3.5 mil ○ 2024: RM7.0 mil ○ 2025: RM5.0 mil ○ 2026: RM5.0 mil ○ 2027: RM4.0 mil ○ 2028: RM6.0 mil ○ 2029: RM5.0 mil ○ 2030: RM7.0 mil ○ Total: RM45 mil ● Manpower requirement: ○ 8 pax of L & S registered surveyors ○ 24 survey crew ○ 10 field staff involved ○ 20 Researchers ○ 40 Field assistants

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	SAG, MTAC, L&S, SPA, SFS, Local Authorities, local communities, JKR, EPU Sarawak

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	32. Management and strengthening protection for selected Totally Protected Areas
Action step	:	32.1

Action step (s)	Output (s)	Timeline	Resources required
32.1 Securing TPA integrity through cadastral perimeter survey of boundaries 1. Appointment of chartered surveyors from Board of Survey 2. Stakeholders engagement 3. Field boundary survey (Chartered surveyors) 4. Cadastral map	Cadastral boundary survey completed for: Lambir Hill NP, Limnbang Mangrove NP and Kuala Lawas NP	**Start date** Jan 2021 **End date** Dec 2023	2022: RM2 mil 2023: RM4 mil Total: RM6 mil
	Cadastral boundary survey completed for: Samunsam WS Gunong Mulu NP Gunong Buda NP	**Start date** Jan 2024 **End date** Dec 2024	RM7 mil
	Cadastral boundary survey completed for: Sabal NP Gunung Apeng NP Kubah NP Santubong NP Bukit Tiban NP	**Start date** Jan 2025 **End date** Dec 2025	RM5 mil
	Cadastral boundary survey completed for: Sedilu NP Ulu Sebuyau NP Gunung Lesong NP	**Start date** Jan 2026 **End date** Dec 2026	RM5 mil

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	SAG, MTAC, L&S, SPA, SFS, Local Authorities, local communities, JKR, EPU Sarawak

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	32. Management and strengthening protection for selected Totally Protected Areas (cont'd)
Action step	:	32.2

Action step (s)	Output (s)	Timeline	Resources required
32.2 Securing TPA integrity through cadastral perimeter survey of boundaries 1. Appointment of chartered surveyors from Board of Survey 2. Stakeholders engagement 3. Field boundary survey (Chartered surveyors) 4. Cadastral map	Cadastral boundary survey completed for: Gunong Pueh NP Batang Ai NP Loagan Bunut NP	Start date Jan 2027 End date Dec 2027	RM4 mil
	Cadastral boundary survey completed for: Lanjak Entimau WS Dered Krian NP Bungo Range NP	Start date Jan 2028 End date Dec 2028	RM6 mil
	Cadastral boundary survey completed for: Rajang Mangrove NR Fairy Cave NR Bukit Hitam NR	Start date Jan 2029 End date Dec 2029	RM5 mil
	Cadastral boundary survey completed for: Maludam NP Kuching Wetland NP Bukit Sarang NP Pulong Tau NP	Start date Jan 2030 End date Dec 2030	RM7 mil

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	SAG, MTAC, L&S, SPA, SFS, Local Authorities, local communities, JKR, EPU Sarawak

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	32. Management and strengthening protection for selected Totally Protected Areas (cont'd)
Action step	:	32.3 - 32.4

Action step (s)	Output (s)	Timeline	Resources required
32.3 Prepare Management plans for 4 TPAs: 1. Bako NP by 2023 2. Lambir Hills NP by 2024 3. Limbang Mangroves NP by 2026 4. Kuala Lawas NP by 2026 ● Appointment of consultants ● Stakeholders engagement ● Field inventory and social survey ● Management Plans	Management Plan for Bako NP	Start date Jan 2022 End date Dec 2023	RM500,000
	Management Plan for Lambir Hill NP	Start date Jan 2022 End date Dec 2024	RM500,000
	Management Plan for Limbang Mangrove NP	Start date Jan 2023 End date Dec 2026	RM500,000
	Management Plan for Kuala Lawas NP	Start date Jan 2024 End date Jan 2026	RM500,000
32.4 Identify services / work / program for community participation in managing and protecting TPA	List of work / services / programmes	Start date Jan 2022 End date Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	SAG, MTAC, L&S, SPA, SFS, Local Authorities, local communities, JKR, EPU Sarawak

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	33. Development and upgrading of integrated facilities at 20 Totally Protected Areas

Initiative	Desired Outcome (s)
33. Development and upgrading of integrated facilities at 20 Totally Protected Areas (TPAs)	**Economic Prosperity** ● Potential job creation: 2,000 employment ● Create high income employment; 200 job personnel ● Revenue generation to the State: RM70 mil ● Economic spin-off: RM42.5 mil ● Generate household income by 2030: ○ RM10,000 (urban) ○ RM6,000 (Rural) **Social Inclusivity** ● Equal gender and wealth distribution of the workforce (women: 50%, Men: 50%) ● Local participation: 50% (blue collar jobs and skilled workers), short term service provider, maintenance crew. **Environmental Sustainability** ● 30% increase in effectiveness of TPA protection and operational efficiency in sustainable environment and biodiversity management, which is saving RM500K/ha in term of intangible conservation values

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Funding required: RM75 mil ● Cashflow: ○ 2021: RM0.9 mil ○ 2022: RM8.3 mil ○ 2023: RM6.5 mil ○ 2024: RM1.3 mil ○ 2024-2030: RM58 mil required funding for next phases ● Manpower requirement: ○ 24 professionals in consultancy services ○ 400-500 construction workers ○ 200 field staff

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	SAG, MTAC, L&S, SPA, SFS, Local Authorities, local communities, JKR, EPU Sarawak

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	33. Development and upgrading of integrated facilities at 20 Totally Protected Areas
Action step	:	33.1

Action step (s)	Output (s)	Timeline	Resources required
33.1 To develop and upgrade facilities at selected manned and unmanned TPAs: 1. Matang Wildlife Centre 2. Kubah National Park 3. Pulau Talang Besar & Tanjung Datu National Park 4. Maludam National Park 5. Loagan Bunut National Park 6. Gunung Lesong National Park 7. Kuching Wetland National Park 8. Gunung Apeng National Park 9. Gunung Buda National Park 10. Batang Ai National Park 11. Bukit Lima Nature Reserves 12. Samunsam Wildlife Sanctuary 13. Rajang Mangrove National Park 14. Limbang Mangrove National Park 15. Usun Apau National Park 16. Sabal National Park 17. Danau Mujan National Park 18. Baleh National Park 19. Ulu Sebuyau National Park 20. Sedilu National Park • Secure funding • Identify site • Appointment of consultant / assign technical team for In-house project • Site survey and investigation • Site Plan and schematic design • Application of siting and building plan approval by SPA and SBDC • Detail plan and tender documentation • Tendering and evaluation • Tender award and construction	1. Facilities as follows at Matang Wildlife Centre, completed and upgraded: • Animal enclosures • Staff quarters • 3 doors staff barrack • Fire hydrants and treated water storage tanks • Exhibit/strong room for exhibit items • Security equipment. • Orangutan night dens • 8 doors visitors hostel • Visitors chalet • Furniture, fittings & other necessities • Visitors pathways and platforms for animal viewing and new image of the entrance.	**Start date** Apr 2022 **End date** Dec 2030	RMK12: RM1 mil Cash flow: 2022: RM0.5 mil 2023: RM0.5 mil RMK13 RM7 mil Cash flow: 2026: RM1.0 mil 2027: RM2.0 mil 2028: RM2.0 mil 2029: RM1.0 mil 2030: RM1.0 mil
	2. Facilities at Kubah National Park, completed and upgraded: • Visitors accommodation and other necessities • Viewing shelter and safety railing at mount Serapi • New one unit 4 doors elevated staff barrack (40m x 10m) • Staff quarters • Boardwalk, Signage, Recreational facilities, etc. • Improved of treated water supply	**Start date** Apr 2022 **End date** Dec 2030	RMK12: RM2 mil Cash flow: 2022: RM1.0 mil 2023: RM1.0 mil RMK13 RM5 mil Cash flow: 2026: RM1.0 mil 2027: RM1.0 mil 2028: RM1.0 mil 2029: RM1.0 mil 2030: RM1.0 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	33. Development and upgrading of integrated facilities at 20 Totally Protected Areas (cont'd)
Action step	:	33.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	3. Facilities at Pulau Talang Besar and Tanjung Datu National Parks, completed and upgraded • Water supply at P. Talang Besar • New 1 unit staff accommodation cum Ranger Post at P. Talang Besar • New one unit 4 doors elevated staff barrack (40m x 10m) at Tg. Datu NP • New 2 units 4 doors of terrace type quarters (48m x 96m) at Tanjong Datu NP • Jungle track from Kampung Telok Melano to Tg. Datu Park Headquarters (3700m)	Start date Apr 2021 End date Dec 2028	RMK12: RM1.2 mil Cash flow: 2022: RM0.5 mil 2023: RM0.7 mil RMK13 RM2.8 mil Cash flow: 2026: RM1.0 mil 2027: RM2.0 mil 2028: RM0.8 mil
	4. Facilities and utilities at Maludam National Park, completed and upgraded: • New boardwalk linked to main road • Treated water supply and electricity connected • New 4 doors of terrace type quarters and other necessities (48m x 12m) • New Road Access and bridge	Start date Apr 2021 End date Dec 2028	RMK12: RM2,315,000 Cash flow: 2022: RM315,000 2023: RM1.0 mil 2024: RM1.0 mil RMK13 RM2,685,000 Cash flow: 2026: RM1.0 mil 2027: RM1.0 mil 2028: RM685,000

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	33. Development and upgrading of integrated facilities at 20 Totally Protected Areas (cont'd)
Action step	:	33.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	5. Facilities and utilities at Loagan Bunut National Park, completed and upgraded: ● Treated water supply and electricity connected ● New staff quarters ● Staff quarters upgraded ● Visitors accommodation and other necessities upgraded ● New jetty cum terminal and boardwalk	**Start date** Apr 2021 **End date** Dec 2030	RMK12: RM2.5 mil Cash flow: 2022: RM1.0 mil 2023: RM1.0 mil 2024: RM0.5 mil RMK13 RM5.5 mil Cash flow: 2026: RM1.0 mil 2027: RM1.5 mil 2028: RM1.0 mil 2029: RM1.0 mil 2030: RM1.0 mil
	6. Facilities at Gunung Lesong National Park, completed: ● 1 unit Ranger Post cum Accommodation and ● Office ● 1 unit Mini Ranger Post at boundary ● Treated water supply and electricity connected ● Community Heritage Trails ● Handicraft Centre for local community cum cafeteria Hall ● Camping Site c/w electricity and water supply and washroom	**Start date** Jan 2022 **End date** Dec 2030	RMK12: RM1.5 mil Cash flow: 2022: RM1.0 mil 2023: RM0.5 mil RMK13 RM6.5 mil Cash flow: 2026: RM1.0 mil 2027: RM1.0 mil 2028: RM1.5 mil 2029: RM2.0 mil 2030: RM1.0 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	33. Development and upgrading of integrated facilities at 20 Totally Protected Areas (cont'd)
Action step	:	33.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	7. Ranger Station at RAMSAR site Kuching Wetland National Park, completed: ● 1 unit Ranger Post cum Accommodation and Office ● 1 unit Public Toilet and washroom ● Access road connected to main road ● Treated water supply and electricity connected ● Mangrove Trails ● Park shop Kiosk ● 1 unit Staff accommodation ● 1 unit Guard house ● 1 unit Activity Centre	Start date Jan 2022 End date Dec 2030	RMK12: RM2.0 mil Cash flow: 2022: RM0.5 mil 2023: RM1.0 mil 2024: RM0.5 mil RMK13 RM10.0 mil Cash flow: 2026: RM2.0 mil 2027: RM2.0 mil 2028: RM2.0 mil 2029: RM2.0 mil 2030: RM2.0 mil
	8. Ranger Station in selected unmanned TPAs established: Gunung Apeng NP Ulu Sebuyau NP ● 1 unit Ranger Post cum Accommodation and ● Office for each park completed ● Water and electricity connected for G. Apeng NP ● Rain harvested water and genset/ solar connected for Ulu Sebuyau NP	Start date Jan 2022 End date Dec 2025	RMK12: RM0.8 mil Cash flow: 2022: RM0.4 mil 2023: RM0.4 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	33. Development and upgrading of integrated facilities at 20 Totally Protected Areas (cont'd)
Action step	:	33.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	9. Facilities for Gunung Buda National Park at Mentawai Ranger Station completed: ● Existing facilities and accommodation at Mentawai upgraded ● Ranger Station upgraded ● Lodging house cum office upgraded ● Water and electricity supply upgraded ● Old logging road 12km upgraded	Start date Jan 2022 End date Dec 2030	RMK12: RM0.84 mil Cash flow: 2023: RM0.4 mil 2024: RM0.44 mil RMK13 RM4.66 mil Cash flow: 2026: RM0.66 mil 2027: RM1.0 mil 2028: RM1.0 mil 2029: RM1.0 mil 2030: RM1.0 mil
	10. Facilities at Batang Ai National Park completed: ● Solar hybrid power system c/w other necessities ● 4 doors of terrace type quarters and other necessities at Nanga Delok (48m x 12m) ● Existing staff quarters and other necessities at Nanga Delok upgraded ● 2 units four doors hostel for visitors accommodation at Nanga Lubang Baya (24m x 10m each unit) and other necessities	Start date Jan 2022 End date Dec 2025	RMK12: RM0.5 mil Cash flow: 2022: RM0.5 mil RMK13 RM4.5 mil Cash flow: 2026: RM0.5 mil 2027: RM1.0 mil 2028: RM1.0 mil 2029: RM1.0 mil 2030: RM1.0 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	33. Development and upgrading of integrated facilities at 20 Totally Protected Areas (cont'd)
Action step	:	33.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	11. Facilities at Bukit Lima Nature Reserve developed: • Earth fill of new Park HQ site completed • One Stop Customer Service Centre completed • Water and electricity connected • Visitors Parking area completed	Start date Jan 2022 End date Dec 2028	RMK12: RM1.0 mil Cash flow: 2023: RM0.5 mil 2024: RM0.5 mil RMK13 RM2.5 mil Cash flow: 2026: RM1.0 mil 2027: RM1.0 mil 2028: RM0.5 mil
	12. Facilities at Proposed National Park In Samunsam Wildlife Sanctuary developed: • 1 unit Ranger Post Cum Accommodation completed • Rain water harvesting and generator set power supply connected • Master Plan for New Park HQ Site completed • 1 unit Staff accommodation completed • One Stop Centre cum Registration /Information counter/ Interpretation Centre / Office/ meeting room/ Surau/Store, completed • 1 unit Public Toilets completed • Access road and parking area completed • Water, electricity and telecommunication connected • Visitors recreational facilities, trails, jetty, wildlife observatory completed	Start date Jan 2022 End date Dec 2030	RMK12: RM1.0 mil Cash flow: 2023: RM0.5 mil 2024: RM0.5 mil RMK13 RM10.0 mil Cash flow: 2026: RM2.0 mil 2027: RM2.0 mil 2028: RM2.0 mil 2029: RM2.0 mil 2030: RM2.0 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	33. Development and upgrading of integrated facilities at 20 Totally Protected Areas (cont'd)
Action step	:	33.1 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	13. Facilities at Rejang Mangrove National Park developed: • Road directional signage completed • One Stop Centre Cum Interpretation Centre and AV room completed • 1 unit Ranger Post completed • 1 unit Public Toilet and washroom completed • Mangrove Trails completed • Cafeteria and Park shop completed • 1 unit Staff accommodation completed • Jetty, Boat house and Ramp completed • Treated water supply and electricity connected	Start date Jan 2026 End date Dec 2030	RMK13 RM7.0 mil Cash flow: 2026: RM1.0 mil 2027: RM1.0 mil 2028: RM2.0 mil 2029: RM2.0 mil 2030: RM1.0 mil
	14. Facilities at Limbang Mangrove National Park developed: • Road directional signage completed • One Stop Centre Cum Interpretation Centre and AV room completed • 1 unit Ranger Post completed • 1 unit Public Toilet and washroom completed • Mangrove Trails completed • Cafeteria and Park shop completed • 1 unit Staff accommodation completed • Jetty, Boat house and Ramp completed • Treated water supply and electricity connected	Start date Jan 2026 End date Dec 2030	RMK13 RM4.0 mil Cash flow: 2026: RM0.5 mil 2027: RM1.0 mil 2028: RM1.0 mil 2029: RM1.0 mil 2030: RM0.5 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	33. Development and upgrading of integrated facilities at 20 Totally Protected Areas (cont'd)
Action step	:	33.1 (cont'd) - 33.2

Action step (s)	Output (s)	Timeline	Resources required
	15. Facilities at Usun Apau National Park developed: • Road directional signage completed • One Stop Centre Cum Interpretation Centre and AV room completed • 1 unit Ranger Post completed • 1 unit Public Toilet and washroom completed • Nature Trails completed • Cafeteria and Park shop completed • 1 unit Staff accommodation completed • Water supply and electricity	Start date Jan 2026 End date Dec 2030	RMK13 RM5.5 mil Cash flow: 2026: RM1.0 mil 2027: RM1.0 mil 2028: RM2.0 mil 2029: RM1.0 mil 2030: RM0.5 mil
	16. Ranger Station in Various Selected manned and unmanned TPAs established: • Completed 1 unit Ranger Post at Sabal NP • Completed 1 unit Ranger Post at Danau Mujan NP Completed 1 unit Ranger Post at Baleh NP • Completed additional 1 unit Ranger Post at Ulu Sebuyau NP • Completed 2 unit Ranger Post at Sedilu NP	Start date Jan 2026 End date Dec 2030	RMK13 RM12.0 mil Cash flow: 2026: RM2.0 mil 2027: RM3.0 mil 2028: RM3.0 mil 2029: RM2.0 mil 2030: RM2.0 mil
33.2 Identify work that can be outsource to the local community	List of work to be outsourced	Start date Jan 2022 End date Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	SFS, Local Authorities, local communities, JKR, EPU Sarawak, L&S

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	34. Integrated wildlife conservation and management in Sarawak

Initiative	Desired Outcome (s)

34. Integrated wildlife conservation and management in Sarawak	Gain world recognition for conservation of biodiversity, such as International Union for Conservation of Nature (IUCN) Green List, UNESCO, United Nations' Sustainable Development Goals in managing biodiversity and environment. Propel Sarawak as a prime destination for research and ecotourism
	
	Economic Prosperity
	● RM40 mil direct from consultancies, research, opportunities (prerequisite for compliance to international standards)
	● Saving the food production (e.g. pig and poultry) industry - minimum of RM320 million industry / year from zoonotic diseases
	● Habitat protection for continuous provision of water to hydro-electricity dams failing which the investment of the infrastructure worth RM2-6 billion will have a shorter life span.
	● Potential jobs created: 1,000 by 2030 (rural and urban)
	● Create household income:
	  ○ RM10,000 (urban)
	  ○ RM6,000 (rural)
	● Create high income employment: 100 (predominantly urban)
	
	Social Inclusivity
	● Increased people participation and involvement: 2,000 (rural and urban)
	● 50% of Sarawak's population understanding important biodiversity targets and habitat protection
	● Equal gender participation in conservation and management
	● Local community employment
	
	Environmental Sustainability
	● Field wildlife research and conservation completed (10 reports by 2030). Wildlife data, distribution and hot-spotting information for resource certification and TPA management;
	  ○ Failure to protect the 2.1 million ha of marine national park would cost the state RM290 million/year for the replacement cost of CO_2 removal from the atmosphere

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	34. Integrated wildlife conservation and management in Sarawak (cont'd)

Timeline		Resources Required
Start Date	End Date	
2021	2030	• Funding Requirement: ○ RM51 mil (RMK12-RM8 million), ○ A percentage of the future funding may be contributed by the stakeholders ○ RMK12 (2021- 2025) ■ 2021: RM520,000 ■ 2022: RM1.5 mil ■ 2023: RM1.5 mil ■ 2024: RM2.3 mil ■ 2025: RM2.2 mil ○ RMK13 (2026-2030) ■ 2026: RM8.6 mil ■ 2027: RM8.6 mil ■ 2028: RM8.6 mil ■ 2029: RM8.6 mil ■ 2030: RM8.6 mil • Manpower Requirement (SFC field staff): ○ 2021 – 50 ○ 2022 – 60 ○ 2023 – 70 ○ (2025 – 2030) – 100 (RMK13)

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	CITES, CBD, RAMSAR, UNDP, GEF, local communities, SBC, KeTSA, FDS, NGOs, institutes of higher learning, local authorities, energy production companies, water management authorities, agriculture production industries, certification agencies

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	34. Integrated wildlife conservation and management in Sarawak
Action step	:	34.1

Action step (s)	Output (s)	Timeline	Resources required
34.1 To establish a comprehensive database on flora and fauna inside TPAs in Sarawak for effective management. Action steps: 1. Establish TORs for site selection. 2. Identify the areas (TPAs) based on TORs (target – 17 TPAs) 3. Prepare project proposals (e.g. literatures review) 4. Identify budget source and others requirement (e.g. equipment, manpower, logistics, etc.) 5. Apply research permit from state government through SORAS system (if necessary) 6. Project proposal approved 7. Project implementation and monitoring (field assessment, stakeholders consultation, etc.) 8. Reporting (field report, publications or book) 9. Organise workshop / seminar	1. Database of flora and fauna diversity of 17 manned TPAs established. 2. Database for updating the Wildlife Protection Ordinance 1998. 3. Data obtained will be used for updating and reviewing wildlife master plan. 4. Data for compilation towards SFC's big-data e-biodiversity bank. 5. Update the status of fauna & flora (including marine species) for future planning and conservation of the species 6. Data for Species Conservation Action Plans (SCAP) for selected species (7 selected species:- Orang-utan, Proboscis Monkey, Hornbill, Sarawak Langur, Rafflesia, Slipper Orchids and Pangolin)	**Start date** Jan 2021 **End date** Dec 2030	RMK12: RM2.5 mil 2021: RM0.5 mil 2022: RM0.5 mil 2023: RM0.5 mil 2024: RM0.5 mil 2025: RM0.5 mil RMK13: RM7.0 mil 2026: RM1.4 mil 2027: RM1.4 mil 2028: RM1.4 mil 2029: RM1.4 mil 2030: RM1.4 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	34. Integrated wildlife conservation and management in Sarawak (cont'd)
Action step	:	35.2

Action step (s)	Output (s)	Timeline	Resources required
34.2 To establish a comprehensive database on flora and fauna outside TPAs in Sarawak for future planning. Action steps: 1. Establish TORs for site selection. 2. Identify the areas / habitats outside or adjacent to existing TPAS based on TORs. 3. Stakeholders engagement (organise dialogue with DO, local communities and others relevant agencies) 4. Prepare project proposals (e.g. literatures review) 5. Identify budget source and others requirement (e.g. equipment, manpower, logistics, etc.) 6. For research activities, research permit from state government is required through SORAS system. 7. Project proposal approved 8. Project implementation and monitoring (field assessment, stakeholders consultation, etc.) 9. Reporting (field report, publications or book) 10. Organize workshop or seminar	1. Distribution maps of wildlife areas/habitat in Sarawak established for areas outside or adjacent to TPAs. 2. Database can be used for establishment of new TPA or extension of existing TPA and for conservation of the species. 3. Data can be used for Species Conservation Action Plan (SCAP). 4. Establish networking for at least 3 community-based conservation sites of iconic/Protected Plants in communal forests (e.g. CBET at Temurang Padawan and Sebat Dayak, Pueh)	**Start date** Jan 2023 **End date** Dec 2030	RM6.5 mil 2023: RM0.5 mil 2024: RM0.5 mil 2025: RM0.5 mil 2026: RM1.0 mil 2027: RM1.0 mil 2028: RM1.0 mil 2029: RM1.0 mil 2030: RM1.0 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	34. Integrated wildlife conservation and management in Sarawak (cont'd)
Action step	:	35.3

Action step (s)	Output (s)	Timeline	Resources required
34.3 To produce Sarawak Red list (for terrestrial and Marine) mammals Action steps: 1. Prepare red list proposal or framework. 2. Identify key stakeholders or collaborators (e.g. Government agencies, local or foreign University, NGO, etc.) for long-term monitoring for threatened and rare flora and fauna species 3. Identify budget source and others requirement (e.g. equipment, manpower, logistics, etc.) 4. Apply research permit from state government through SORAS system (if any research activities involve) 5. Field assessment and collection of data. 6. Organise workshop / seminar	Sarawak red list for mammals (terrestrial and marine) produced and published.	**Start date** Jan 2023 **End date** Dec 2030	RM6.5 mil 2023: RM0.5 mil 2024: RM0.5 mil 2025: RM0.5 mil 2026: RM1.0 mil 2027: RM1.0 mil 2028: RM1.0 mil 2029: RM1.0 mil 2030: RM1.0 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	354 Integrated wildlife conservation and management in Sarawak (cont'd)
Action step	:	34.4 - 34.5

Action step (s)	Output (s)	Timeline	Resources required
34.4 To restore degraded areas in TPAs in line with state government policy. Action steps: 1. Identify the areas / habitats (e.g. rapid assessment) 2. Stakeholders engagement (organise dialogue with DO, local communities and others relevant agencies) 3. Establish restoration framework 4. Identify budget source and others requirement (e.g. Planting materials, equipment, manpower, logistics, etc.) 5. Project implementation and monitoring (field assessment, etc.) 6. Reporting (field report, publications or book) 7. Organise workshop or seminar	a) At least 5 degraded areas will be restored b) Community participation program established in the restoration framework.	Start date Jan 2021 End date Dec 2030	RM8.0 mil 2021: RM0.5 mil 2022: RM0.5 mil 2023: RM0.6 mil 2024: RM0.7 mil 2025: RM0.7 mil 2026: RM1.0 mil 2027: RM1.0 mil 2028: RM1.0 mil 2029: RM1.0 mil 2030: RM1.0 mil
34.5 To renovate and/or reconstruct where necessary research field station facilities, Landeh (ex-situ conservation facilities), & field station at Ng Segerak, Ng Bloh & Ng Ju. Action steps: 1. Field station 2. Site inspection 3. Estimate construction cost 4. Engage with local community to do the reconstruction work 5. Repair, maintenance or enhancing implemented according. 6. Work verification and endorsement by implementing agency	Facilities at ex-situ collection of dipterocarp species in Landeh, Semengoh Nature Reserves and ex-situ conservation areas at Tun Ahmad Zaidi (TAZ) NR refurbished Field stations at Lanjak Entiamu Wildlife Sanctuary (Ng Segerak, Ng Bloh and Ng Ju field station) upgraded. Community engagement program in the reconstruction work and maintenance	Start date Jan 2026 End date Dec 2030	RM13.2 mil 2026: RM2.64 mil 2027: RM2.64 mil 2028: RM2.64 mil 2029: RM2.64 mil 2030: RM2.64 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	34. Integrated wildlife conservation and management in Sarawak (cont'd)
Action step	:	34.6 - 34.8

Action step (s)	Output (s)	Timeline	Resources required
34.6 Conducting capacity building for staff participating in the project Action steps: 1. Training needs analysis 2. Identify training needs 3. Selection of relevant staff 4. Identify training providers & consultants and trainers 5. Training evaluation 6. Reporting	Knowledge transfer and capacity building for 100 staff involved in the project	**Start date** Jan 2021	RM4.7 mil 2022: RM0.3 mil 2023: RM0.3 mil 2024: RM0.3 mil 2025: RM0.3 mil 2026: RM0.7 mil 2027: RM0.7 mil 2028: RM0.7 mil 2029: RM0.7 mil 2030: RM0.7 mil
34.7 Produce brochures, pamphlets, publications, or books	At least 60 brochures, pamphlet, publication or book will be produced	**End date** Dec 2030	RM1.6 mil 2022: RM0.1 mil 2023: RM0.1 mil 2024: RM0.1 mil 2025: RM0.1 mil 2026: RM0.24 mil 2027: RM0.24 mil 2028: RM0.24 mil 2029: RM0.24 mil 2030: RM0.24 mil
34.8 Identify programme for community development and participation in managing wildlife	List of programmes for community development and participation		

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	CITES, CBD, RAMSAR, UNDP, GEF, local communities, SBC, KeTSA, FDS, NGOs, institutes of higher learning, Local Authorities, energy production companies, water management authorities, agriculture production industries, certification agencies

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	35. Rural transformation through community participation in biodiversity conservation and protected areas management services

Initiative	Desired Outcome (s)
35. Rural transformation through community participation in biodiversity conservation and protected areas management services	Participation in community based ecotourism such as park and wildlife guiding, rural transportation and logistic, F&B, park maintenance, traditional knowledge, para-scientist, rewilding, WIMOR (wildlife monitoring and rescue), Tagang, etc. **Economic Prosperity** ● Potential Job Creation: 1,000 by 2030 ● Create household Income: RM6,000 by 2030 ● Create high income employment: 100 by 2030 ● Economic spin off: RM36 million by 2030 **Social Inclusivity** ● Increase people participation and involvement: 50% women in workforce **Environmental Sustainability** ● Enhanced the intangible conservation values of RM1.95 million/ha of forest goods and services with the participatory supports of local people

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Funding required: ○ RM5 mil (2022-2025) ○ RM5 mil (2026-2030) ● Alternative sources of funding ○ 2022-2025 RM2 mil from GLC, NGOs, Foundations, Federal Ministries. ● Manpower requirement: ○ 20 Trainers ○ 20 field staff ○ 5 professional staff/advisor ○ 50 competent wildlife rescue personnel

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	R&DO, MTAC, MANDRED, KWKPK, MINTRED, Department of Agriculture - Inland Fisheries, rural communities, IADA, KeTSA, MARA

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	35. Rural transformation through community participation in biodiversity conservation and protected areas management services
Action step	:	35.1

Action step (s)	Output (s)	Timeline	Resources required
35.1 Implementation of community based economic programs 1. Identify areas 2. Gathering background information 3. Project Planning 4. Project Implementation 5. Evaluation and monitoring	Facilitate the implementation of Tagang System (8 programs) 2 Kuching Region 2 Sibu Region 2 Bintulu Region 2 Miri Region	**Start date** Jan 2022 **End date** Dec 2030	RM0.8 mil 2022: RM0.1 mil 2023: RM0.1 mil 2024: RM0.1 mil 2025: RM0.1 mil 2026: RM0.1 mil 2027: RM0.1 mil 2028: RM0.1 mil 2029: RM0.05 mil 2030: RM0.05 mil *Alternative sources of funding:* *Collaboration with IADA / Department of Agriculture*

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	MANRED, DoA, IADA, R&DO

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	35. Rural transformation through community participation in biodiversity conservation and protected areas management services (cont'd)
Action step	:	35.2 - 35.3

Action step (s)	Output (s)	Timeline	Resources required
35.2 Implementation of Community engagement programs by engaging community participation in Biodiversity Conservation Projects 1. Gathering background information 2. Project Planning 3. Project implementation & maintenance, monitoring	Engagement of local community to participate in Landscape Rehabilitation Programs at Sabal NP, Gunong Apeng NP, Sedilu NP and Piasau NR	**Start date** Jan 2022 **End date** Dec 2030	RM1.0 mil 2022: RM0.1 mil 2023: RM0.15 mil 2024: RM0.1 mil 2025: RM0.15 mil 2026: RM0.1 mil 2027: RM0.1 mil 2028: RM0.1 mil 2029: RM0.1 mil 2030: RM0.1 mil *Alternative sources of funding:* *Collaboration with NGO*

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	NGO, R&DO, higher learning institutions, rural community

Action step (s)	Output (s)	Timeline	Resources required
35.3 Implementation of Community engagement programs by engaging community participation in Biodiversity Conservation Projects 1. Gathering background information 2. Project Planning 3. Project implementation 4. Evaluate and monitor	1. Turtle Conservation Project (Kampung Pugu/Lundu, Sematan & Sibuti)	**Start date** Feb 2022 **End date** Dec 2030	RM1.0 mil 2022: RM0.1 mil 2023: RM0.15 mil 2024: RM0.15 mil 2025: RM0.1 mil 2026: RM0.1 mil 2027: RM0.1 mil 2028: RM0.1 mil 2029: RM0.1 mil 2030: RM0.1 mil

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	R&DO, rural community, Fisheries Department, higher learning institutions

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	35. Rural transformation through community participation in biodiversity conservation and protected areas management services (cont'd)
Action step	:	35.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	2. Feed the Wildlife - supply food ration for animals in MWC, SWC and Wildlife Rescue Centre by local communities	Start date Jan 2023 End date Dec 2030	RM4.0 mil 2023: RM0.5 mil 2024: RM0.5 mil 2025: RM0.5 mil 2026: RM0.5 mil 2027: RM0.5 mil 2028: RM0.5 mil 2029: RM0.5 mil 2030: RM0.5 mil

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	Rural community, OU Volunteer Project

Action step (s)	Output (s)	Timeline	Resources required
	3. Non-Timber Forest Product (NTFP) (Similajau NP) Bintulu Region, Miri Region	Start date Jan 2022 End date Dec 2030	RM800,000 2022: RM90,000 2023: RM90,000 2024: RM90,000 2025: RM90,000 2026: RM90,000 2027: RM90,000 2028: RM90,000 2029: RM85,000 2030: RM85,000

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	R&DO, DoA, Malaysian Handicraft Development Corporation

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	35. Rural transformation through community participation in biodiversity conservation and protected areas management services (cont'd)
Action step	:	35.3 (cont'd)

Action step (s)	Output (s)	Timeline	Resources required
	4. Logistic services (Tanjung Datu NP & Sibuti Coral Reefs NP)	**Start date** Jan 2022 **End date** Dec 2030	RM400,000 2022: RM50,000 2023: RM50,000 2024: RM50,000 2025: RM50,000 2026: RM50,000 2027: RM50,000 2028: RM50,000 2029: RM25,000 2030: RM25,000
	5. Engagement of local community for park maintenance services in Niah NP, Similajau NP, Lambir Hill NP, Bako NP, Gunung Gading NP, Tun Ahmad Zaidi NR and Bukit Lima NR.	**Start date** Jan 2022 **End date** Dec 2030	RM2 mil 2022: RM0.24 mil 2023: RM0.24 mil 2024: RM0.24 mil 2025: RM0.24 mil 2026: RM0.24 mil 2027: RM0.24 mil 2028: RM0.24 mil 2029: RM0.16 mil 2030: RM0.16 mil

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	Rural communities, R&DO, SFCSB

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	36. Establishment of wildlife rescue centre & forensics laboratory

Initiative	Desired Outcome (s)
36. Establishment of wildlife rescue centre & forensics laboratory	Gain world recognition for conservation of biodiversity, such as International Union for Conservation of Nature (IUCN) Green List, UNESCO, United Nations' Sustainable Development Goals in managing biodiversity and environment to propels Sarawak as a prime destination for research and ecotourism **Economic Prosperity** ● Wildlife rescue centre ○ Potential jobs created: 100 (rural and urban) by 2030 ○ Increased household income: [(rural = RM6,000) (urban = 10,000)] per month by 2030 ○ Increased high income employment: 10 (urban) ● Forensics laboratory ○ Export of certified edible bird's nest and DNA data-banking = RM10 million ○ Consultancy services, illegal wildlife trade forensics, RM1 million ○ Potential jobs created: 10 (rural and urban) by 2030 ○ Increased household income: [(rural = RM6,000) (urban = 10,000)] per month by 2030 ○ Increased high income employment: 5 (urban) **Social Inclusivity** ● Increase people participation and involvement (inclusiveness): 300 (rural and urban) ● Equal gender participation in wildlife rescue and DNA analyses **Environmental Sustainability** ● Wildlife rescue centre ○ A portion/ or section of the wildlife rescue centre will be used for conservation awareness and tourism ○ Preserving genetic diversity/resources of ERT species (e.g. proboscis monkeys, hornbills and orangutans) ○ Wildlife Rescue Centres contribute total contribution in 2020 - RM 2.88 billion (3/30th of the tourism revenue to TPAs in Sarawak) ● Forensics laboratory ○ The successful prosecution of cases via DNA will reduce the proliferation of uncontrolled wildlife trade in Sarawak. ○ SFC will attain a certified forensics lab status by 2025. ● DNA bank of Totally Protected and Protected Plants and all wild animals catalogued.

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	36. Establishment of wildlife rescue centre & forensics laboratory (cont'd)

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Funding Requirement: RM28 million ● 4 wildlife rescue centres: ○ Sibuti: RM6 mil ○ Lawas: RM4 mil ○ Kapit: RM4 mil ○ Oya: RM3 mil ○ Total: RM17 mil ● 1 forensics lab (RM 11 million) ● Manpower requirement: ○ 2021: 4 (current) ○ 2026-2030: 50 staff (wildlife rescue centres) ○ 2025-2030: 12 staff (forensic lab)

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	Local communities, SBC, DWNP, NGOs, MTAC, private labs, tourism agencies consultants, institutes of higher learning, local authorities

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	36. Establishment of wildlife rescue centre & forensics laboratory
Action step	:	36.1 - 36.2

Action step (s)	Output (s)	Timeline	Resources required
36.1 Establishment Of Wildlife Conservation And Rescue Centre 1. Field station 2. Site inspection 3. Appointment of consultant to do estimation cost and to produce schematic drawing / plan. 4. Estimation cost and schematic plan approved by Jawatan Kuasa technical. 5. Prepare tender documents 6. Tender advertisement 7. Tender evaluation and selection of contractor. 8. Commencement of work 9. Work verification and endorsement by implementing agency	• Sibuti Wildlife Sanctuary (continuation project from RMK11) • Lawas Wildlife Rescue Centre site identified • Kapit Wildlife Rescue Centre site identified • Sibu Wildlife Rescue Centre (Tun Ahmad Zaidi – TAZ at Oya) *Note:* *Wildlife rescue center consists of facilities includes electricity & water, wildlife clinic, enclosures, cages, ponds & breeding sites, administration or office, staff accommodation, wildlife conservation and interpretation centre.*	**Start date** Jan 2026 **End date** Dec 2030	RM14.5 mil 2026: RM2.9 mil 2027: RM2.9 mil 2028: RM2.9 mil 2029: RM2.9 mil 2030: RM2.9 mil
36.2 Capacity Building especially in animal handling and husbandry 1. Training needs analysis 2. Identify training needs 3. Selection of relevant staff 4. Identify training providers & consultants and trainers 5. Training evaluation 6. Reporting	Under RMK13 at least 50 staff attended capacity building on wildlife handling and husbandry	**Start date** Jan 2026 **End date** Dec 2030	RM2.0 mil 2026: RM0.4 mil 2027: RM0.4 mil 2028: RM0.4 mil 2029: RM0.4 mil 2030: RM0.4 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	36. Establishment of wildlife rescue centre & forensics laboratory (cont'd)
Action step	:	36.3 - 36.5

Action step (s)	Output (s)	Timeline	Resources required
36.3 Develop TOR or SOPs for wildlife enclosures setup to facilitate seized life exhibits handlings 1. Prepare TOR or SOPs 2. TOR or SOPs approved 3. Implementation of SOPs	TOR and SOP developed for all the wildlife rescue center	**Start date** Jan 2026 **End date** Dec 2030	RM0.5 mil 2026: RM0.1 mil 2027: RM0.1 mil 2028: RM0.1 mil 2029: RM0.1 mil 2030: RM0.1 mil
36.4 Establishment of wildlife forensic laboratory 1. Site inspection 2. Appointment of consultant to do estimation cost and to produce schematic drawing / plan. 3. Estimation cost and schematic plan approved by Jawatan Kuasa technical. 4. Prepared tender documents 5. Tender advertisement 6. Tender evaluation and selection of contractor. 7. Commencement of work 8. Work verification and endorsement by implementing agency	One unit of wildlife forensic laboratory established in Sarawak. *Note:* *Wildlife forensic laboratory inclusive of purchasing of the following equipment:* *2 units of Portable Enforcement Laboratory for Testing Seizures (PELTS) projects* *15 units of reagent kits per year* *36 units of the consumables item per year*	**Start date** Jan 2023 **End date** Dec 2030	RM7.5 mil 2026: RM1.5 mil 2027: RM1.5 mil 2028: RM1.5 mil 2029: RM1.5 mil 2030: RM1.5 mil
36.5 Establishment digital gene-bank for Sarawak's Biodiversity and equipment 1. Collection of samples 2. Analyses of samples 3. Compilation of data 4. Populate data	120 samples per year of biomaterial samples (MtDNA sequences) collected and compiled	**Start date** Jan 2023 **End date** Dec 2030	RM2.6 mil 2026: RM0.52 mil 2027: RM0.52 mil 2028: RM0.52 mil 2029: RM0.52 mil 2030: RM0.52 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	36. Establishment of wildlife rescue centre & forensics laboratory (cont'd)
Action step	:	36.6 - 36.7

Action step (s)	Output (s)	Timeline	Resources required
36.6 Capacity Building 1. Training needs analysis 2. CSI 3. Lab analysis 4. PELTS training 5. Selection of relevant staff 6. Identify training providers & consultants and trainers 7. Training evaluation 8. Reporting	Two rounds of training for CSI, Lab Analyses & Portable Enforcement Laboratory for Testing Seizures (PELTS) projects (2023 – 2025) Two rounds of training for CSI & Lab Analyses (2023 – 2025) Refresher training for the above in the year 2026 to 2030	**Start date** Jan 2023 **End date** Dec 2030	RM0.9 mil 2026: RM0.18 mil 2027: RM0.18 mil 2028: RM0.18 mil 2029: RM0.18 mil 2030: RM0.18 mil
36.7 Identify work that can be monetised	List of work / services that can be monetised	**Start date** Jan 2022 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	Local communities, SBC, DWNP, NGOs, MTAC, private labs, tourism agencies, consultants, institutes of higher learning, Local Authorities

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	37. Establishment of Rainforest / Nature Discovery Centre

Initiative	Desired Outcome (s)
37. Establishment of Rainforest / Nature Discovery Centre (Semenggoh Rainforest Discovery Centre (SRDC) and Nature Discovery Centre, Piasau Nature Reserve)	Enhancement of infrastructure including biological components will further increase visitation, thus creating local community involvement in the business of conservation and tourism, will offering potential opportunities as describes: **Economic Prosperity** ● SRDC ○ Potential job creation: 2,000 employment ○ Create high income employment; 200 ○ Generate household income: RM13,000 ○ Revenue generation to the State: RM28 mil by 2030 ○ Economic spin-off: RM80 mil ● Nature Discovery Centre, Piasau Nature Reserve ○ Potential job creation: 1,000 employment ○ Create high income employment: 100 ○ Create household income: RM10,000 ○ Revenue generation to the State: RM8 mil by 2030 ○ Economic spin-off: RM75 mil **Social Inclusivity** ● Equal gender and wealth distribution of the workforce (women:50%, Men:50%) ● Local participation: 50% (blue collar jobs and skilled workers), short term service provider, maintenance crew. **Environmental Sustainability** ● Review of TPA management Plan: Every 5 years ● Social Environmental Impact Assessment: Every 5 years ● QHSE Audit: Annual

Timeline		Resources Required
Start Date	End Date	
2021	2030	● Funding Requirement: RM60 million (RMK12: RM10 mil) ● Cashflow: ○ Semenggoh ■ 2021: RM500,000 ■ 2022: RM5.0 mil ■ 2023: RM4.5 mil ■ 2023-2025: RM20 mil ○ Piasau ■ 2021: RM300,000 ■ 2023-2025: RM29.7 mil ● Manpower requirement: ○ 12 professionals in consultancy services ○ 120 construction workers ○ 20 field staff

AIP Level 1 - Forestry sector

Sector	:	Forestry
Strategy	:	Gain national and international recognition through conservation and sustainable management
Initiative	:	37. Establishment of Rainforest / Nature Discovery Centre (cont'd)

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	SAG, MTAC, L&S, SPA, SFS, Local Authorities, local communities, JKR, EPU Sarawak

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	37. Establishment of Rainforest / Nature Discovery Centre
Action step	:	37.1 - 37.2

Action step (s)	Output (s)	Timeline	Resources required
37.1 To establish Rainforest Discovery Centre at Semenggoh 1. Identify site 2. Appointment of consultant 3. Site survey and investigation 4. Development of overall Master Plan, site layout and schematic design for Phase 1, 2 and 3 5. Application of siting and building plan approval by SPA and SBDC (where applicable)	Master Plan for SRDC approved by SBDC	**Start date** Oct 2021 **End date** June 2022	RM10 mil
37.2 Development of Phase 1: Wildlife Centre Zone of SRDC 1. Detail plan and tender documentation 2. Tendering and evaluation for Phase 1 3. Tender award and construction	Completion of Phase 1 Wildlife Centre Zone of SRDC with the following components: ● New customer service center with content design and exhibit ● New Parking area ● New orangutan's feeding observation platform, wayfinding and feeding station ● Completed Tram drop off & pickup point / 2 units of 14 seater tram ●	**Start date** June 2022 **End date** June 2024	2022: RM2.5 mil 2023: RM3.0 mil 2024: RM3.0 mil 2025: RM1.5 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	37. Establishment of Rainforest / Nature Discovery Centre (cont'd)
Action step	:	37.3 - 37.4

Action step (s)	Output (s)	Timeline	Resources required
37.3 Development of Phase 2: Entrance Zone SRDC 1. Secure funding 2. Detail plan and tender documentation 3. Tendering and evaluation for Phase 2 4. Tender award and construction	Completion of Phase 2 Entrance Zone SRDC with the following components: • Wayfinding & directory design and content at new entrance Pavilion • New ticketing control point • New entrance pavilion with ticketing control • Control of Pedestrian And Vehicular Traffic • New Information Centre, Public Toilets, Food & Drink Kiosks, Souvenir Kiosk Under Covered and Open Pavilion • New 2 units of 14 seater tram	**Start date** Jan 2022 **End date** Dec 2030	RMK13: RM15 mil 2026: RM2.5 mil 2027: RM5.0 mil 2028: RM5.0 mil 2029: RM2.5 mil 2030: RM0.5 mil
37.4 Development of Phase 3: Botanical Zone of SRDC 1. Secure funding 2. Detail plan and tender documentation 3. Tendering and evaluation for Phase 3 4. Tender award and construction	Completion of Phase 3 Botanical Zone of SRDC with the following components: • New Extension, Refurbishment & -Upgrading of Orchid Shed and interpretation • New Botanical Park shop & Exhibition -Area (Research Segment) • New Café Cum Bistro With Open Deck Dining & Secured Service Yard - e.g. Anna Rais, Jong Crocodile, Wind/Fairy Cave, etc. • New Tram Route 1.5 Km From Palm Garden To Wildlife Centre & Tram Drop Off & Pickup Kiosks	**Start date** Jan 2022 **End date** Dec 2030	RMK13: RM5.0 mil 2026: RM1.0 mil 2027: RM2.0 mil 2028: RM1.0 mil 2029: RM0.5 mil 2030: RM0.5 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	37. Establishment of Rainforest / Nature Discovery Centre (cont'd)
Action step	:	37.5 - 37.6

Action step (s)	Output (s)	Timeline	Resources required
37.5 To establish Nature Discovery Centre Piasau: Phase 1: 1. Appointment of consultant for Feasibility study 2. Survey and investigation on Social economic, aquatic tourism potential, facilities required, site and environmental assessment, etc.	Feasibility study completed for development guideline	**Start date** Jan 2022 **End date** Dec 2023	RMK12: RM0.3 mil 2022: RM0.3 mil
37.6 To establish Nature Discovery Centre Piasau: Phase 2: 1. Secure funding 2. Identify site, 3. Appointment of consultant, 4. Site survey and investigation, 5. Development of overall Master Plan, site layout and schematic design 6. Application of siting and building plan approval by SPA and SBDC (where applicable) 7. Detail plan and tender documentation 8. Tendering and evaluation 9. Tender award and construction	Completion of Phase 2 with the following components: • Office, Souvenir Shop • Interpretation Centre, Store Room • Public Toilet Cum Changing Room • Mechanical & Electrical • Water Supply • Access Road Boat Landing Pontoon, • Passengers Waiting Shed • Perimeter Fencing • Passengers Terminal, Boat Ramp, Boat Store House, Interpretation Content and Exhibit, Briefing Lobby, Cafeteria, Scuba Kiosk, Visitors' Locker facilities, Visitors Parking Area, landscaping, Board Walk, additional Mechanical & Electrical and other necessities •	**Start date** Jan 2026 **End date** Dec 2030	RMK13: RM29.7 mil 2026: RM2.0 mil 2027: RM5.0 mil 2028: RM10.0 mil 2029: RM7.0 mil 2030: RM5.7 mil

AIP Level 2 - Forestry sector

Sector	:	Forestry
Initiative	:	37. Establishment of Rainforest / Nature Discovery Centre (cont'd)
Action step	:	37.7

Action step (s)	Output (s)	Timeline	Resources required
37.7 Identify community development /participation program	List of community development programme	**Start date** Jan 2022 **End date** Dec 2030	

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	SFC	SFS, Local Authorities, local communities, JKR, EPU Sarawak, L&S

1.5 Mining

Aspiration for Mining Sector

Traditionally, mining in Sarawak consists mainly of oil and gas activities. Although these will continue to be important, mineral exploration and processing will mark a new avenue of growth for the sector. Mineral demand is on the rise with unabated demand for green energy that requires heavy minerals, e.g. energy storage, as the world moves towards low-carbon aspirations.

Mining activities in Sarawak will be expanded to minerals and value-added activities will be highly encouraged. Sarawak has potential to leverage its mineral resources in a value-added way. Effective implementation of initiatives and policy recommendations will attract strong investors and create key industrialisation areas in the State.

Figure 1.5.1: Aspiration framework for mining sector

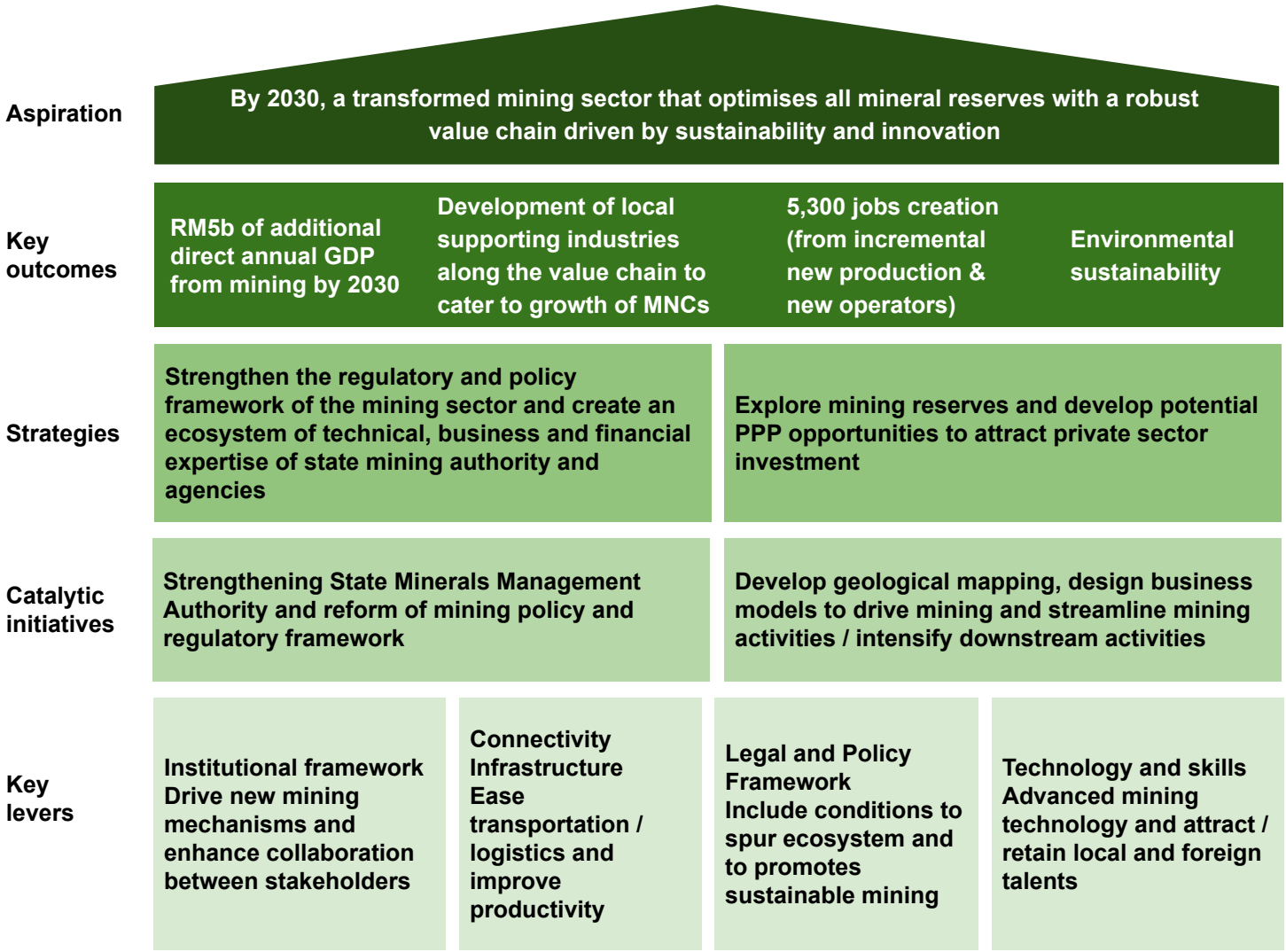

Figure 1.5.2: Summary of desired outcomes for mining sector

Summary of key outcomes

Economic prosperity

RM6.7 billion
Private sector investment

RM3.5 billion per annum
Economic spin-off

RM0.1 billion per annum
Revenue

Monthly income
- Management: ≥ RM 6,000
- Professional: RM 3,000 – RM 8,000
- Skilled/Semi skilled: RM 2,000 – RM 7,000
- Unskilled: RM 1,200 – RM 2,000

Social inclusivity

5,300
Job opportunities
- Management: 106 jobs (2%)
- Professional: 424 jobs (8%)
- Skilled/Semi skilled: 2,120 jobs (40%)
- Unskilled: 2,650 jobs (50%)

Environment sustainability

Full enforcement on compliance of licence/tenement conditions

Enhancing of rehabilitation plan

Compliance to National and International Standard of Environmental Sustainability for upstream, midstream and downstream activities.

Safety & Health awareness compliance workforce

Full rehabilitation of mining site upon cease of operation – Average rate for rehabilitation work:
- Mining : RM 40,000 – RM 60,000/ha.
- Quarry : RM 6,000 – RM 8,000/ha.

AIP Level 1 - Mining sector

Sector	:	Mining
Strategy	:	Strengthen the regulatory and policy framework of the mining sector and create an ecosystem of technical, business and financial expertise of state mining authority and agencies
Initiative	:	1. Strengthening of State Minerals Management Authority reform of mining policy and regulatory framework

Initiative	Desired Outcome (s)
1. Strengthening of State Minerals Management Authority reform of mining policy and regulatory framework	**Economic Prosperity** 1. Increased royalty collection from average RM30 million/annum to RM80 million/annum 2. Generating other revenue (from rents, fees, tax, dividends): RM20 million/annum 3. Fulfilled 100% of the local demand especially for: ● Construction materials (sand, rock) ● Coal supply for power generation 4. Generated RM6.75 billion investment from upstream, midstream, downstream and supporting industry 5. Generated RM50 million investment from exploration of minerals 6. Economic spin-off > RM3.5 billion/annum **Social Inclusivity** 1. Creation of 5,300 jobs opportunities by category: ● Management: 106 jobs (2%) ● Professional: 424 jobs (8%) ● Skilled/Semi skilled: 2,120 jobs (40%) ● Unskilled: 2,650 jobs (50%) 2. Monthly income range: ● Management: ≥ RM6,000/month ● Professional: RM3,000 – RM8,000 ● Skilled/Semi skilled: RM2,000 – RM7,000 ● Unskilled: RM1,200 – RM2,000 3. Enhancing CSR fund and program from upstream industry: RM20 million/annum ● Benefiting approximately 200 villages or 20,000 persons (average 20 houses per village with 5 persons per house) within a 5 km radius of the mining/quarry site

Timeline		Resources Required
Start Date	End Date	
Jan 2022	Dec 2029	● RM30.5 million Cash Flow: ○ Yearly: RM3.2 million (start from 2023 - 2030) ○ 2022: RM1.5 million ○ 2023: RM1.9 million ○ 2024: RM1.4 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR	SAG, SFS, EPU Sarawak, MINTRED, L&S, FD, JMG, NRED, research institution, industry player

AIP Level 1 - Mining sector

Sector	:	Mining
Strategy	:	Strengthen the regulatory and policy framework of the mining sector and create an ecosystem of technical, business and financial expertise of state mining authority and agencies
Initiative	:	1. Strengthening of State Minerals Management Authority reform of mining policy and regulatory framework

Initiative	Desired Outcome (s)
1. Strengthening of State Minerals Management Authority reform of mining policy and regulatory framework	**Environmental sustainability** 1. Full enforcement on compliance of licence/tenement conditions 2. Enhancing of rehabilitation plan 3. Full rehabilitation of mining site upon cease operation – Average rate for rehabilitation work: ● Mining: RM40,000 – RM60,000/ha ● Quarry: RM6,000 – RM8,000/ha

Timeline		Resources Required
Start Date	End Date	
Jan 2022	Dec 2029	● RM30.5 million Cash Flow: ○ Yearly: RM3.2 million (start from 2023 - 2030) ○ 2022: RM1.5 million ○ 2023: RM1.9 million ○ 2024: RM1.4 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR	SAG, SFS, EPU Sarawak, MINTRED, L&S, FD, JMG, NRED, research institution, industry player

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	1. Strengthening of State Minerals Management Authority, reform of mining policy and regulatory framework
Action step	:	1.1

Action step (s)	Output (s)	Timeline	Resources required
1.1 Empower SMMA with the establishment of special units (workforce & logistic) in managing activities related to mining a) Engagement/ lab/ benchmarking/study of requirements b) Preparation of justification paper c) Endorsement by Authority (e.g. MMKN, SMMA, Minister, SHRU) d) Recruitment/ procurement procedures	Minerals Division at MUDeNR established:- ● Creating & recruitment of 40 new posts for various position in Minerals Division (MUDeNR) & Enforcement Branch (L&S) ● Logistics	**Start date** Sep 2021 **End date** Dec 2023	RM3 million/annum start from 2023 (Emolument & OPEX), 40 new post in various position, RM1.5 million (logistic)

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR	MMKN, SMMA, SUK, SAG, SFS, JPA, SPANS, EPU Sarawak, UP, L&S, JMG

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	1. Strengthening of State Minerals Management Authority, reform of mining policy and regulatory framework
Action step	:	1.2

Action step (s)	Output (s)	Timeline	Resources required
1.2 Design & develop "Sarawak Mining and Quarrying Development Masterplan" a) Engagement/ lab/ benchmarking/study of requirements b) Evaluation of TOR & proposal by consultants c) Procurement procedures d) Monitoring of progress e) Endorsement by Authorities (SMMA, MMKN) f) Implementation	"Sarawak Mining and Quarrying Development Masterplan" covering:- ● Strategic direction & development strategies ● Design of key enablers ● Resources database ● Laws & Regulations ● Institutional framework & governance ● Infrastructure & logistics ● Workforce/ human capacity ● Investor outreach & synergies	**Start date** Sep 2021 **End date** Sep 2022	RM1 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	EPU Sarawak	MMKN, SMMA, SFS, L&S, JMG, NREB, SEDC, consultant, industry players

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	1. Strengthening of State Minerals Management Authority, reform of mining policy and regulatory framework
Action step	:	1.3

Action step (s)	Output (s)	Timeline	Resources required
1.3 Provide clear policies and guidelines to support the implementation of the "Sarawak Mining and Quarrying Development Masterplan" a) Engagement/ lab/ benchmarking/study of requirements b) Proposal submission by consultants c) Evaluation & procurement procedures d) Monitoring of progress e) Endorsement by Authorities (SMMA, MMKN) f) Implementation	"Sarawak Mining Policy" and guidelines	**Start date** Sep 2022 **End date** Dec 2023	RM1 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR, EPU Sarawak	MMKN, SMMA, SAG, SFS, KeTSA, L&S, JMG, internal audit, NREB, consultant, industry players

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	1. Strengthening of State Minerals Management Authority, reform of mining policy and regulatory framework
Action step	:	1.4

Action step (s)	Output (s)	Timeline	Resources required
1.4 Strengthening law and regulations to govern mining industry a) Engagement/ lab/ benchmarking/study of requirements b) Drafting of new/ amendment of laws, regulations or SOPs c) Endorsement by Authority (DUN, MMKN, SMMA) d) Implementation	a) Amendment of related laws and regulations b) New regulations/ SOP to govern mining activities	**Start date** Jan 2023 **End date** Dec 2025	RM0.3 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR & L&S	DUN, MMKN, SMMA, SAG, MOU, L&S, JMG, FD, PDRM, NREB, UKPN, APMM, industry player

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	1. Strengthening of State Minerals Management Authority, reform of mining policy and regulatory framework
Action step	:	1.5

Action step (s)	Output (s)	Timeline	Resources required
1.5 Digitisation of mining management a) Engagement/ lab/ benchmarking/study of requirements b) Proposal submission by developers c) Evaluation & procurement procedures d) Development of SMIS e) Use of system	"Sarawak Minerals Information System (SMIS)"	**Start date** Jan 2023 **End date** Dec 2025	RM1.4 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR & L&S	SMMA, SFS, SMA, EPU Sarawak, UPPN, JMG, SAINS, industry player

AIP Level 1 - Mining sector

Sector	:	Mining
Strategy	:	Explore mining reserves and develop potential PPP opportunities to attract private sector investment
Initiative	:	2. Develop geological mapping

Initiative	Desired Outcome (s)
2. Develop geological mapping a) Targeted area:- ● REE (Rare Earth Elements): 323,000 ha ● Industrial mineral: 3,000,000 ha a) Targeted REE: ● Dysprosium (Dy) ● Neodymium (Nd) ● Ytterbium (Yb) ● Praseodymium (Pr) a) Average price for targeted REE: RM66 per kg/ RM66,000 per mt b) Average REE detailed exploration cost: RM150 – RM200 per ha	**Economic Prosperity** 1. Generated RM50 million investment from private sector to conduct detailed exploration of minerals 2. 30% mineable area reserved for mining activity **Social Inclusivity** 1. ± 300 jobs created (estimated 10 teams): Manpower requirement per team 8 - 10 person: ● 1 x Geologist ● 2 x Assistant Geologist ● 5 – 7 x labour 2. Monthly income range: ● Geologist: RM5,000 – RM8,000 ● Assistant Geologist: RM3,000 – RM5,000 ● Labour: RM1,200 – RM2,000 **Environmental sustainability** 1. No mining activity over TPA areas

Timeline		Resources Required
Start Date	End Date	
Jan 2022	Dec 2029	● RM100 million ○ RM50 million Government funding for preliminary exploration on REE & industrial minerals including promotions ○ RM50 million investment from private sector to conduct detailed exploration Cash Flow (from Government): ○ RMK12: RM25 million ○ RMK13: RM25 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	L&S	JMG, mining consultant, industry player

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	2. Develop geological mapping
Action step	:	2.1

Action step (s)	Output (s)	Timeline	Resources required
2.1 Design & develop geological data & mapping a) Engagement/ lab/ benchmarking/study of requirements b) Endorsement by SMMA c) Evaluation & procurement procedures d) Monitoring of work progress: ● Minerals survey ● Minerals analysis ● Minerals mapping e) Compilation of data	State Minerals Data & Mapping (for the purposes of planning & development of industry, priority of land use, industry promotion, etc.) Identify & secure 30% mineable area to be reserved as Minerals Reserved Land (under s.15 MO 2004).	**Start date** Jan 2022 **End date** Dec 2029	RM100 million ● RM50 million Government funding for preliminary exploration on REE & industrial minerals ● RM50 million investment from private sector to conduct detailed exploration

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	L&S	SMMA, SFS, JMG, internal audit, mining consultant, industry player

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	2. Develop geological mapping
Action step	:	2.2

Action step (s)	Output (s)	Timeline	Resources required
2.2 Provide policies and clear guidelines to encourage private sector to undertake detailed mineral exploration and prospecting works a) Engagement/ lab/ benchmarking/study of requirements b) Drafting on policies/ guidelines c) Endorsement by SMMA d) Implementation of policies/ guidelines	a) New policies/guidelines b) Detailed minerals data c) Technology and knowledge transfer	**Start date** Jan 2023 **End date** Jan 2024	RM0.05 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR	SMMA, SAG, KeTSA, L&S, JMG, EPU Sarawak, mining consultant, industry player

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	2. Develop geological mapping
Action step	:	2.3

Action step (s)	Output (s)	Timeline	Resources required
2.3 Promotion & engagement with interested private sector to invest in detailed exploration & prospecting works a) Identify the platform and benefits b) Connect to the interested parties c) Market the message d) Follow up with the interested parties	a) Market of products b) Sharing knowledge & build good relationships with the private sectors	**Start date** Jan 2024 **End date** Dec 2029	Through normal yearly budgeting

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR	SFS, MINTRED, EPU Sarawak, L&S, JMG UKAS, industry player

AIP Level 1 - Mining sector

Sector	:	Mining
Strategy	:	Explore mining reserves and develop potential PPP opportunities to attract private sector investment
Initiative	:	3. Streamline mining activities, intensify downstream activities and design business models to drive mining activities

Initiative	Desired Outcome (s)
3. Streamline mining activities, intensify downstream activities and design business models to drive mining activities	**Economic Prosperity** 1. High value investment = RM6.7 billion: ● RM1.1 billion from upstream industry: ○ To establish 5 new mine sites (>RM100 million investment per mine) ○ To establish 20 new quarry site (>RM30 million investment per quarry) ● RM0.8 billion from midstream industry: ○ To develop 1 processing plant. ● RM4.3 billion from downstream industry: ○ RM2 billion for fibreglass industry ○ RM2.3 billion for photovoltaic glass industry ● RM0.5 billion from supporting industry/business: ○ Services ○ Transportation, etc. 2. Economic spin-off per annum = RM3.5 billion ● Upstream = RM0.5 billion ● Midstream = RM0.3 billion ● Downstream = RM2.4 billion ○ RM2.045 billion from fiberglass industry ○ RM0.34 billion from photovoltaic glass ● Supporting = RM0.3 billion 2. Government revenue: RM0.1 billion ● Royalty = RM80 million ○ Mining = RM35 million ○ Quarry = RM45 million ● Other revenue (i.e. SST, dividends, rents, fees, etc.) = RM20 million

Timeline		Resources Required
Start Date	End Date	
Jan 2023	Dec 2029	● RM6.701 billion ○ Government: RM0.01 billion ○ Private: RM6.7 billion Cash Flow (from Government funding): ○ 2023: RM1 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR	SFS, EPU Sarawak, L&S, JMG, MINTRED, MITI, industry player

AIP Level 1 - Mining sector

Sector	:	Mining
Strategy	:	Explore mining reserves and develop potential PPP opportunities to attract private sector investment
Initiative	:	3. Streamline mining activities, intensify downstream activities and design business models to drive mining activities

Initiative	Desired Outcome (s)
3. Streamline mining activities, intensify downstream activities and design business models to drive mining activities	**Social Inclusivity** 1. Providing job opportunity = 5,000 jobs: ● Upstream: ± 1,700 jobs ○ 1,000 from mining ○ 700 from quarry ● Midstream: ± 200 jobs ● Downstream: ± 2,600 jobs ● Supporting: ± 500 jobs 3. Monthly income range: ● Management: ≥ RM6,000/month ● Professional: RM3,000 – RM8,000 ● Skilled/Semi skilled: RM2,000 – RM7,000 ● Unskilled: RM1,200 – RM2,000 **Environmental sustainability** 1. Compliance to national and international standard of environmental sustainability for upstream, midstream and downstream activities 2. Safety & Health awareness compliance workforce

Timeline		Resources Required
Start Date	End Date	
Jan 2023	Dec 2029	● RM6.701 billion ○ Government: RM0.01 billion ○ Private: RM6.7 billion Cash Flow (from Government funding): ○ 2023: RM1 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR	SFS, EPU Sarawak, L&S, JMG, MINTRED, MITI, industry player

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	3. Streamline mining activities, intensify downstream activities and design business models to drive mining activities
Action step	:	3.1

Action step (s)	Output (s)	Timeline	Resources required
3.1 Design & develop business model to drive upstream, midstream and downstream mining industry a) Engagement/ lab/ benchmarking/study of requirements b) Proposal submission by consultants c) Evaluation & procurement procedures d) Monitoring of progress e) Endorsement by Authorities. (SMMA, MMKN) f) Implementation of business model	a) Well suite business model, acceptable to private investors b) Creating attractive investment packages (including mining incentives) c) Establishment of mining industries (upstream, midstream & downstream)	**Start date** Jan 2023 **End date** June 2024	RM1.1 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	EPU Sarawak	MMKN, SMMA, SFS, MINTRED, MITI, L&S, JMG, internal audit, consultant, industry player

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	3. Streamline mining activities, intensify downstream activities and design business models to drive mining activities
Action step	:	3.2

Action step (s)	Output (s)	Timeline	Resources required
3.2 Promotion & engagement with interested private sector to invest in various mining industry a) Identify the platform and benefits b) Connect to the interested parties c) Market the message d) Follow up with the interested parties	Establishment of mining industries:- a) Upstream: 5 new mines & 20 new quarry sites b) Midstream: 1 mineral processing plant c) Downstream: 2 minerals based industry (fiberglass & photovoltaic glass industry)	**Start date** Jan 2024 **End date** Dec 2029	Through normal yearly budgeting

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MUDeNR	SFS, MINTRED, MITI, EPU Sarawak, L&S, JMG, UKAS, industry player

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	3. Streamline mining activities, intensify downstream activities and design business models to drive mining activities
Action step	:	3.3

Action step (s)	Output (s)	Timeline	Resources required
3.3 Developing skilled workforce/ human capacity a) Engagement/ lab/ benchmarking/study of requirements b) Establish educational partnerships c) Develop training and guidance programs d) Promote advancement and growth opportunities	Provide workforce that can meet the needs of the Industry	**Start date** Jan 2024 **End date** Dec 2025	RM0.2 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MESTR	IPT, JMG, skilled training,centre, school, industry player

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	3. Streamline mining activities, intensify downstream activities and design business models to drive mining activities
Action step	:	3.4

Action step (s)	Output (s)	Timeline	Resources required
3.4 Collaboration with other agencies in providing basic infrastructures/ facilities to the industry (e.g. road network, port capacity, etc.) a) Identify mining potential area b) Engagement/ lab/ benchmarking/study of requirements c) Collaboration with related agencies and industry	Infrastructures/ facilities for development of mining industries	**Start date** Jan 2024 **End date** Dec 2029	RM0.1 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	MIPD, MINTRED	SPA, SFS, L&S, EPU Sarawak, JKR, JMG port authorities, SEB, water authorities, industry player

AIP Level 2 - Mining sector

Sector	:	Mining
Initiative	:	3. Streamline mining activities, intensify downstream activities and design business models to drive mining activities
Action step	:	3.5

Action step (s)	Output (s)	Timeline	Resources required
3.5 Continuous enhancement of enforcement and monitoring a) Engagement/ lab/ benchmarking/study of requirements b) Drafting of new/amendment of regulations/ SOPs c) Endorsement by Authorities (MMKN, SMMA) d) Implementation and enforcement	New/ enhanced regulations or SOPs to govern enforcement operations of mining activities	**Start date** Jan 2022 **End date** Dec 2029	RM0.1 million

Project Owner	Implementing Agency	Other Stakeholders
MUDeNR	L&S	MMKN, SMMA, SAG, JMG, PDRM, SPRM, JIM, DOSH, NREB/ DOE, APMM, industry player

1.6 Social Services

Aspiration for Social Services Sector

The State aims to provide high living standards, a healthy and inclusive society with affordable and innovative service delivery for Sarawakians. This aligns to aspirations for the social inclusivity pillar. The State government's agenda prioritises wellbeing of the people and this is exceptionally crucial during the pandemic and recovery stages.

Sarawak is rich with natural resources. However, there is still ample room for growth in terms of wealth distribution amongst Sarawakians. Efforts are underway to address household income of the lower and middle class and reduce the number of poor households in Sarawak.

Sarawak has one of the highest poverty rates in Malaysia, with 15.5% of households earning below RM2,000 per month versus the national equivalent of 8.8%. In addition to the assistance meted out by Federal government, the poor will be upskilled and empowered to reduce dependency on cash handouts from the State.

Figure 1.6.1: Aspiration framework for social services sector

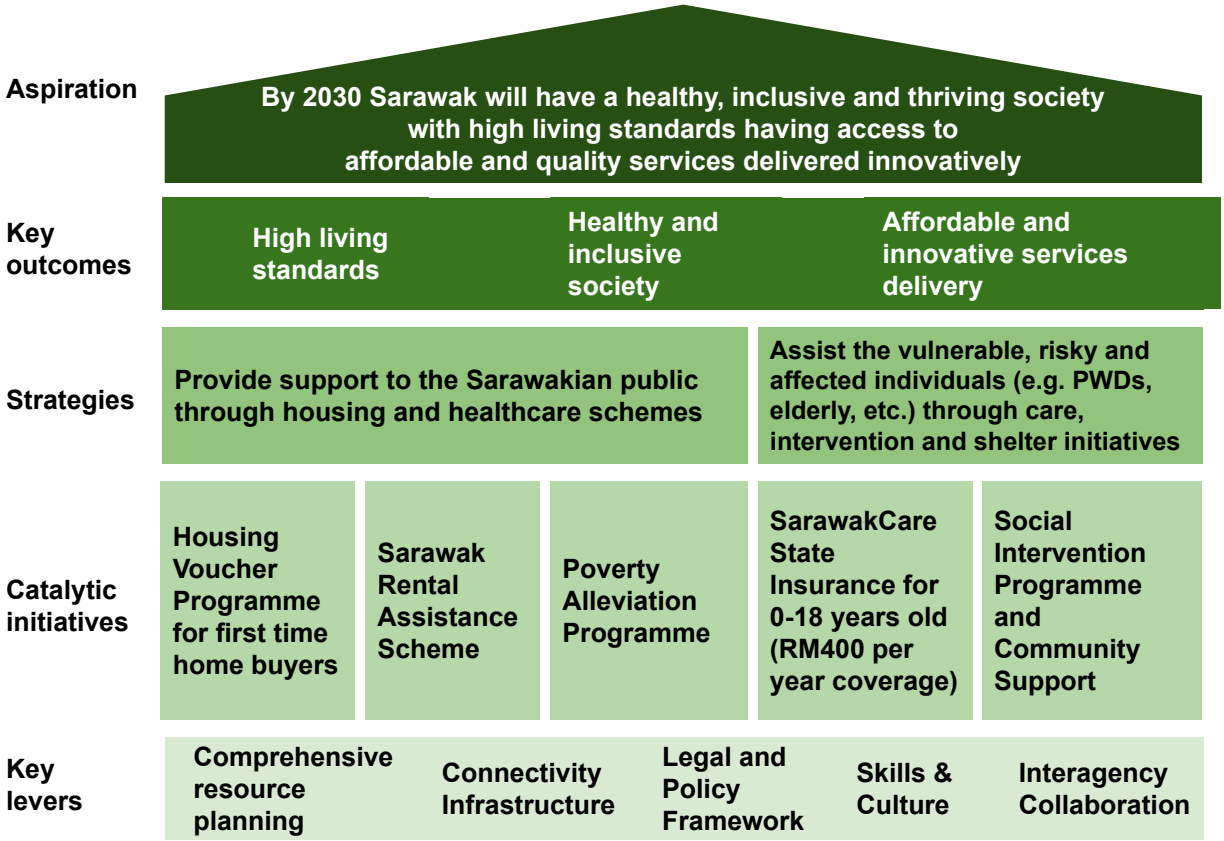

Figure 1.6.2: Summary of desired outcomes for social services sector

Summary of key outcomes

Economic prosperity

RM200
To support monthly rental payment for maximum of 36 months to the eligible household earners below PLI level (Sarawak Rental Assistance Scheme)

7%
increase of homeownership among B40 and M40

1,000
eligible applicants get their first home for the pilot project

20,000
of low income group people supported for rental assistance for 36 month

18,000
children from eligible B40 families given assistance yearly

RM2.7 million
Yearly of estimated savings on primary care expenses by B40 families

Social inclusivity

3%
General practitioner (additional of approximate 100 GPs) to be increased at non-urban area

80%
of disadvantaged, vulnerable, risky and marginalised communities affected by social issues, problems and crisis are given assistance and intervention

1,198
PwDs (including children) given early intervention, education, training and job opportunities yearly (people with severe disability)

Achieved high social wellbeing index (score of 8.00 and above) of Sarawak Social Wellbeing Index (SSWI) by 2030

AIP Level 1 - Social services sector

Sector	:	Social service
Strategy	:	Provide support to the Sarawakian public through housing and healthcare schemes
Initiative	:	1. Housing Voucher Programme: First Time House Buyer (FTHB)

Initiative	Desired Outcome (s)
1. Housing Voucher Programme: First Time House Buyer	**Economic Prosperity** 1. 1,000 eligible applicants get their first home for the pilot project 2. Increase of homeownership among B40 and M40 by total of 7% 3. Support the growth of property development in Sarawak

Timeline		Resources Required
Start Date	End Date	
Jan 2022	Dec 2025	• RM 30 million

Project Owner	Implementing Agency	Other Stakeholders
MLGH	Mutiara Mortgage & Credit Sdn Bhd	KWKPK, SAG, EPU Sarawak, SFS, HDC, SSMU, SAINS, NAPIC, SHEDA, financial institution

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	1. Housing Voucher Programme: First Time House Buyer
Action step	:	1.1

Action step (s)	Output (s)	Timeline	Resources required
1.1 Feasibility study for Housing Voucher Programme: First Time House Buyer a) Register the project scope and required budget into IPMS for approval b) Engagement with the stakeholders for the preparation of TOR c) Prepare TOR and acquire endorsement and approval for the TOR d) Establish of the Steering Committee and Technical Committee e) Appointment of the consultant f) Reporting by the consultant g) Prepare and formulate implementation guideline/ SOP to implement the Housing Voucher Programme at Ministry level h) Endorse the final report and study as a public document	Completion of scope of works	**Start date** Jan 2022 **End date** Dec 2022	RM1 million

Project Owner	Implementing Agency	Other Stakeholders
MLGH	MLGH, EPU Sarawak, consultant	KWKPK, SFS, SAG, SSMU, HDC, SAINS, NAPIC, SHEDA, financial institutions

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	1. Housing Voucher Programme: First Time House Buyer
Action step	:	1.2

Action step (s)	Output (s)	Timeline	Resources required
1.2 Implementing of Housing Voucher Programme: First Time House Buyer a) Engagement with the stakeholders b) Identify the implementing agency c) Establish the Selection Committee for Housing Voucher Program d) Obtain approval from YB Minister before for the implementation e) Kick-off meeting f) Promotion of the Housing Voucher Programme: First Time House Buyer g) Implement the Housing Voucher Program: First Time House Buyer h) Intensify and review the HVP: FTHB delivery process	Completion of scope of works 1,000 eligible first time house buyer assisted and benefited over 3 years Price range up to RM500,000	**Start date** Jan 2023 **End date** Dec 2025	RM30 million

Project Owner	Implementing Agency	Other Stakeholders
MLGH	MLGH, implementing agency	EPU Sarawak, SFS, SAG, HDC, SSMU, SAINS, SHEDA, Mutiara MCSB, financial institutions

AIP Level 1 - Social services sector

Sector	:	Social service
Strategy	:	Provide support to the Sarawakian public through housing and healthcare schemes
Initiative	:	2. Sarawak Rental Assistance Scheme (SRAS)

Initiative	Desired Outcome (s)
2. Sarawak Rental Assistance Scheme (SRAS) To support rental payment of RM200 per month for maximum of 36 months to the eligible household earners below PLI level (Sarawak Rental Assistance Scheme)	**Economic Prosperity** 1. Support 20,000 of low income group people for rental assistance for 36 month (3 years). 1st – 6,000 KIR 2nd – 7,000 KIR 3rd – 7,000 KIR 1. To aid extra money (*pendapatan isi rumah boleh guna*) of RM200 per month to the low-income earners to spend monthly.

Timeline		Resources Required
Start Date	End Date	
Jan 2021	Dec 2030	• RM144 million

Project Owner	Implementing Agency	Other Stakeholders
MLGH	HDC	EPU Sarawak, SFS, SAG, KWKPK, LHDN, HDC, JKMS, SSMU, SAINS, SDO, NAPIC, SHEDA

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	2. Sarawak Rental Assistance Scheme (SRAS)
Action step	:	2.1

Action step (s)	Output (s)	Timeline	Resources required
2.1 Sarawak Rental Assistance Scheme (SRAS) a) Formulate Sarawak Rental Assistance Scheme (SRAS)'s TOR at Ministry level b) Formulate guideline/ SOP for SRAS implementation c) Engagement with the stakeholders d) Identify the implementing agency e) Preparation of final SRAS guideline/ SOP and obtaining YB Minister approval for implementation f) Establish the SRAS Selection Committee g) Obtain YB Minister for Local Government and Housing approval for implementation h) Conduct Kick-off meeting for implementation i) Promotion of SRAS j) Implement SRAS from 2021 until 2030 and to benefit 60,000 eligible tenants k) Review and intensify guideline/ SOP and the delivery processes of the SRAS	a) Completion of scope of works b) SRAS first implemented to 4 major cities and it is Kuching, Sibu, Bintulu and Miri. SRAS expended/ implemented to other districts in Sarawak c) 20,000 of eligible tenants for the first 3 year (2021 - 2023) assisted d) 20,000 eligible tenants for second 3 years (2024 - 2026) assisted e) 20,000 eligible tenants for final 3 year (2027 - 2030) assisted	**Start date** Jun 2020 **End date** Dec 2030	RM144 million

Project Owner	Implementing Agency	Other Stakeholders
MLGH	MLGH, HDC	SFS, SAG, UAD JKM, JKMNS, SDO, RANDO, DBKU, MBKS, SMC, BDA, MCC

AIP Level 1 - Social services sector

Sector	:	Social service
Strategy	:	Provide support to the Sarawakian public through housing and healthcare schemes
Initiative	:	3. Medical equipment assistance for non-urban primary healthcare

Initiative	Desired Outcome (s)
3. Medical equipment assistance for non-urban primary healthcare	**Social Inclusivity** 1. To increase 3% GP (additional of approximate 100 GPs) at non-urban area

Timeline		Resources Required
Start Date	End Date	
Jan 2022	Dec 2025	• RM10 million

Project Owner	Implementing Agency	Other Stakeholders
MLGH	JKNS	SFS, JKNS, private GPS, private hospital (i.e. BMC,RMC,KPJ, Columbia Asia Hospital, Timberland Medical Centre), SAINS, UKAS

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	3. Medical equipment assistance for non-urban primary healthcare
Action step	:	3.1

Action step (s)	Output (s)	Timeline	Resources required
3.1 Medical equipment assistance for non-urban primary healthcare a) Preparation of TOR and to establish the guideline/SOP for the programme with approval by YB Minister b) Engagement with stakeholders / private hospitals c) Advertisement of the programme d) Identify and select potential General Practitioners (GPs) as advised by JKNS for the programme based on application (through UKAS advertisement) e) Procurement and distribution of medical equipment to the eligible GPs	Completion of scope of works	**Start date** Jan 2022 **End date** Dec 2025	RM10 million

Project Owner	Implementing Agency	Other Stakeholders
MLGH	JKNS	SFS, JKNS, private GPS, private hospital (i.e. BMC,RMC,KPJ, Columbia Asia Hospital, Timberland Medical Centre), SAINS, UKAS

AIP Level 1 - Social services sector

Sector	:	Social service
Strategy	:	Assist the vulnerable, risky and affected individuals (e.g. PWDs, elderly, etc.) through care, intervention and shelter initiatives
Initiative	:	4. SarawakCare State Insurance for 0-18 years old (RM400 per year coverage)

Initiative	Desired Outcome (s)
4. SarawakCare State Insurance for 0-18 years old (RM400 per year coverage)	**Economic Prosperity** 1. All B40 children across the state are given assistance yearly 2. Estimated saving of RM2,700,000 yearly on primary care expenses by B40 families

Timeline		Resources Required
Start Date	End Date	
Sep 2021	Dec 2030	• RM500 million (RM50 million yearly)

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	JKMS	RANDO, KMKK, Jabatan Kesihatan, private general practitioners

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	4. SarawakCare State Insurance for 0-18 years old (RM400 per year coverage)
Action step	:	4.1

Action step (s)	Output (s)	Timeline	Resources required
4.1 SarawakCare State Insurance a) Preparation of TOR and to establish the guidelines/SOP for the scheme b) Engagement and collaboration with relevant agencies: • Jabatan Kebajikan Masyarakat - implementing agency • Jabatan Kesihatan Negeri Sarawak - overall coordinator of this medical insurance scheme along with provision of medical services • KMKK - verify the names of B40 families • Resident and District offices - front liners to the rakyat when they have any queries • Private general practitioners - provide medical services to the rakyat	a) Formulation of implementation guidelines/ SOP for the scheme b) Inclusive and equal healthcare access for children of the B40 households under the age of 18 years which are not covered under mySalam c) Mitigate financial stress arising from significant out-of-pocket healthcare expenses	**Start date** Jan 2022 **End date** Dec 2030	RM500 million, manpower

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	JKMS	RANDO, KMKK, Jabatan Kesihatan, private general practitioners

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	4. SarawakCare State Insurance for 0-18 years old (RM400 per year coverage)
Action step	:	4.1

Action step (s)	Output (s)	Timeline	Resources required
4.1 SarawakCare State Insurance c) Obtain approval from YB Minister of Welfare, Community WellBeing, Women, Family and Childhood Development for the implementation and publicise the programme d) Advertisement of the programme e) Identify potential recipients as advised by Jabatan Kebajikan Masyarakat Sarawak for the programme and inform them accordingly of the scheme f) Disbursement of claims made by recipients, ie claimants g) Monitoring and enhancement of the scheme h) Digitalisation: ● Adopt technology advancements via online application forms and processing of claims. The claims submitted and processed will be based on integrated database and system that interlink with iSarawakCare and Jabatan Kebajikan Masyarakat Sarawak platforms	a) Formulation of implementation guidelines/ SOP for the scheme b) Inclusive and equal healthcare access for children of the B40 households under the age of 18 years which are not covered under mySalam c) Mitigate financial stress arising from significant out-of-pocket healthcare expenses	**Start date** Jan 2022 **End date** Dec 2030	RM500 million, manpower

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	JKMS	RANDO, KMKK, Jabatan Kesihatan, private general practitioners

AIP Level 1 - Social services sector

Sector	:	Social service
Strategy	:	Provide support to the Sarawakian public through housing and healthcare schemes
Initiative	:	5. Social Intervention Programme and Community Support

Initiative	Desired Outcome (s)
5. Social Intervention Programme and Community Support 1. Community Social Intervention Centre (CSIC) 2. Integrated Sarawak Social Intervention Programmes 3. Special Needs Community Centre 4. Aged Day-Care Centre Miri 5. Rumah Seri Kenangan Sibu Phase 2	**Social Inclusivity** 1. 80% of disadvantaged, vulnerable, risky and marginalised communities affected by social issues, problems and crisis are given assistance and intervention 2. 1,198 PwDs (including children) given early intervention, education, training and job opportunities yearly (people with severe disability) 3. 1,000 elderly registered in Day-Care Centers 4. 250 elderly registered in Aged-Care Centers 5. Achieved high social wellbeing index (score of 8.00 and above) of Sarawak Social Wellbeing Index (SSWI) by 2030

Timeline		Resources Required
Start Date	End Date	
Feb 2022	Dec 2030	• RM135 million a. Community Social Intervention Centre - RM40 million b. Integrated Sarawak Intervention Programme - RM10 million c. Special Needs Community Centre - RM55 million d. Rumah Seri Kenangan Sibu Phase 2 - RM20 million e. Aged Day Care Centre - RM3 million f. Program for elderly - RM7 million i. Program for Carers - RM3 million ii. Program Social Support for the Aged - RM4 million

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	KWKPK	Resident Office, NGOs, CBOs, AADK, JPNS, JKNS, Hospital Sentosa, JKMS, JWKS, MPS, PDRM (i.e. D11, JSJN, JSJK, JPJKK), JPN Sarawak, LPPKN, Jabatan Penjara

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.1

Action step (s)	Output (s)	Timeline	Resources required
5.1 Community Social Intervention Centre (CSIC) a) Project site/ locality identification b) Acquisition of premises (siting, tenancy agreement) • Kuching - Feb 2021 - Dec 2021 • Sibu - Mar 2021 - May 2022 • Lawas - Jun 2021 - May 2022 • Mukah - Jun 2021 - May 2022 • Sri Aman - May 2021 - April 2022 • Kapit - Jul 2021 - Jun 2022 • Miri - Jul 2021 - Jun 2022 • Bintulu - Jul 2021 - Jun 2022 c) Tender for renovation/ construction of premises (design; tender; rental/ purchase) d) Renovation/ construction of premises e) Recruitment of competent manpower	a) Site/premises identified of specific project locality for 8 divisions: • Kuching - Wisma Hoho Lim, Abell Road Kuching • Sibu - Rumah Rehat Sri Rajang Sibu • Lawas - To purchase premise • Mukah - Rumah Rehat Daerah Mukah • Sri Aman - To purchase premise • Kapit - To purchase premise • Miri - To purchase premise • Bintulu - Rumah Tumpangan Sebiew b) Job creation and hiring of competent and relevant personnel for the centres.	**Start date** a) Dec 2020 b) Feb 2021 c) Jan 2022 d) Aug 2021 e) Mar 2022 **End date** a) Dec 2021 b) Jun 2022 c) Dec 2023 d) Dec 2024 e) Mar 2024	RM40 million a. Physical & infrastructure development - RM20.938 million b. Centre operation - RM19.062 million

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	KWKPK/ local authorities, SHRU, SFS	Relevant resident & district office, relevant divisional Land and Survey Department, relevant local authority, Unit Pentadbiran, CMD, JKR, SFS, State Treasury, Ministries, NGOs, resident office, CBOs, AADK, JPNS, JKNS, Hospital Sentosa, JKMS, JWKS, MPS, PDRM (i.e. D11, JSJN, JSJK, JPJKK), JPN Sarawak, LPPKN, Jabatan Penjara

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.1

Action step (s)	Output (s)	Timeline	Resources required
5.1 Community Social Intervention Centre (CSIC) f) Centre operations I. Functional and integrated community social support activities and services II. Centre activities include: ● Awareness, advocacy, treatment, rehabilitation and referral of vulnerable, risky and affected (VRA) individuals, families and communities ● Tracking, guiding and counseling affected individuals with social problems/ crisis ● Capacity building for victims/ VRA of social issues, women and elderly g) Development and commissioning of social development and information systems	c) Collaboration with strategic partners: relevant Local Authorities; relevant Federal and State Government agencies; relevant NGOs and volunteers d) To provide 100% assistance, intervention, or/and awareness and advocacy for targeted VRA communities e) Completion of the Social Development and Information System (SDIMS) and Social Intervention Directory Application (SIDA) by SMA	**Start date** f) Mar 2022 g) Mar 2022 **End date** f) Dec 2030 g) Dec 2030	RM40 million a. Physical & infrastructure development - RM20.938 million b. Centre operation - RM19.062 million

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	KWKPK/ local authorities, SHRU, SFS	Relevant resident & district office, relevant divisional Land and Survey Department, relevant local authority, Unit Pentadbiran, CMD, JKR, SFS, State Treasury, Ministries, NGOs, resident office, CBOs, AADK, JPNS, JKNS, Hospital Sentosa, JKMS, JWKS, MPS, PDRM (i.e. D11, JSJN, JSJK, JPJKK), JPN Sarawak, LPPKN, Jabatan Penjara

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.2

Action step (s)	Output (s)	Timeline	Resources required
5.2 Integrated Sarawak Social Intervention Programme/Program Intervensi Sosial Bersepadu Sarawak a) Development of new, comprehensive, evidence based and integrated social intervention programs b) Training of trainers (TOT) to conduct/facilitate social programs and interventions	a) Complete development of 10 new social programs and intervention (curriculum, modules): I. Integrated Drug Abuse Prevention and Treatment Intervention II. Psychology and Counseling Intervention Program III. Intervention for the safety and protection of affected, risky and vulnerable children and adolescents in Sarawak IV. Teenage Pregnancy Intervention: Kesedaran dan Advokasi Pendidikan Seksual (KAPS) V. Crime Prevention Intervention VI. Empowerment of NGOs and social workers VII. Community Mental Health Literacy(COMHEL) VIII. Bullying of Child Intervention Program IX. Intervention program for domestic violence in Sarawak X. Integrated intervention program to address marriage and divorce issues in Sarawak	**Start date** a) Dec 2020 b) Jan 2022 **End date** a) Dec 2022 b) Jan 2023	RM10 million (a. Collaboration with strategic partners - RM1 million b. Training - RM0.5 million c. Program implementation - RM8 million d. Impact assessment - RM0.5 million), collaboration with relevant partners: Local Authorities, Federal and State Government agencies, NGOs and volunteers

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	KWKPK (MPS)	Resident Office, District Office, NGOs, CBOs, AADK, JPNS, JKNS, Hospital Sentosa, JKMS, JWKS, MPS, PDRM (i.e. JSJ, JSJN, JSJK, JPJKK), JPN Sarawak, LPPKN, Jabatan Penjara, Bank Negara Malaysia, MAIS, JAIS, UNIFOR, SKMM

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.2

Action step (s)	Output (s)	Timeline	Resources required
5.2 Integrated Sarawak Social Intervention Programme/Program Intervensi Sosial Bersepadu Sarawak c) Implementation of integrated social program and intervention in the community: I. Integrated Drug Abuse Prevention and Treatment Intervention - teenagers, youths and families at risk and vulnerable II. Psychology and Counseling Intervention Program - communities affected by social issues and problems III. Intervention for the safety and protection of affected, risky and vulnerable children and adolescents in Sarawak - school dropouts below 18 years old and children & adolescent;	b) 100% of targeted VRA communities given assistance, intervention, or/and awareness and advocacy	**Start date** c) Jan 2023 **End date** c) Jan 2030	RM10 million (a. Collaboration with strategic partners - RM1 million b. Training - RM0.5 million c. Program implementation - RM8 million d. Impact assessment - RM0.5 million), collaboration with relevant partners: Local Authorities, Federal and State Government agencies, NGOs and volunteers

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	KWKPK (MPS)	Resident Office, District Office, NGOs, CBOs, AADK, JPNS, JKNS, Hospital Sentosa, JKMS, JWKS, MPS, PDRM (i.e. JSJ, JSJN, JSJK, JPJKK), JPN Sarawak, LPPKN, Jabatan Penjara, Bank Negara Malaysia, MAIS, JAIS, UNIFOR, SKMM

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.2

Action step (s)	Output (s)	Timeline	Resources required
5.2 Integrated Sarawak Social Intervention Programme/Program Intervensi Sosial Bersepadu Sarawak c) Implementation of integrated social program and intervention in the community: IV. Teenage Pregnancy Intervention: Kesedaran dan Advokasi Pendidikan Seksual (KAPS) - primary and secondary school students V. Crime Prevention Intervention - risky and vulnerable communities VI. Empowerment of NGOs and social workers - NGOs and social workers VII. Community Mental Health Literacy(COMHEL) - risky and vulnerable communities VIII. Bullying of Child Intervention Program - affected, risky and vulnerable children in targeted primary and secondary schools	b) 100% of targeted VRA communities given assistance, intervention, or/and awareness and advocacy	**Start date** c) Jan 2023 **End date** c) Jan 2030	RM10 million (a. Collaboration with strategic partners - RM1 million b. Training - RM0.5 million c. Program implementation - RM8 million d. Impact assessment - RM0.5 million), collaboration with relevant partners: Local Authorities, Federal and State Government agencies, NGOs and volunteers

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	KWKPK (MPS)	Resident Office, District Office, NGOs, CBOs, AADK, JPNS, JKNS, Hospital Sentosa, JKMS, JWKS, MPS, PRDM (i.e. JSJ, JSJN, JSJK, JPJKK), JPN Sarawak, LPPKN, Jabatan Penjara, Bank Negara Malaysia, MAIS, JAIS, UNIFOR, SKMM

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.2

Action step (s)	Output (s)	Timeline	Resources required
5.2 Integrated Sarawak Social Intervention Programme/Program Intervensi Sosial Bersepadu Sarawak c) Implementation of integrated social program and intervention in the community: IX. Intervention program for domestic violence in Sarawak - affected families with DV, social workers X. Integrated intervention program to address marriage and divorce issues in Sarawak - rural parents, teenage parents and single parents d) Impact assessment of social program and intervention	c) Social wellbeing index report every 2 years	**Start date** c) Jan 2023 d) Jan 2025 **End date** c) Jan 2030 d) Dec 2025	RM10 million (a. Collaboration with strategic partners - RM1 million b. Training - RM0.5 million c. Program implementation - RM8 million d. Impact assessment - RM0.5 million), collaboration with relevant partners: Local Authorities, Federal and State Government agencies, NGOs and volunteers

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	KWKPK (MPS)	Resident Office, District Office, NGOs, CBOs, AADK, JPNS, JKNS, Hospital Sentosa, JKMS, JWKS, MPS, PDRM (i.e. JSJ, JSJN, JSJK, JPJKK), JPN Sarawak, LPPKN, Jabatan Penjara, Bank Negara Malaysia, MAIS, JAIS, UNIFOR, SKMM

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.3

Action step (s)	Output (s)	Timeline	Resources required
5.3 Rumah Seri Kenangan (RSK) Sibu Phase 2 a) Construction of the centre: Administrative block/ building, dormitory block/ building, facilities such as medical block, dining hall, multipurpose hall, surau, water storage tower/rationing, covered walkway, MSB & hose reel tank room, guard hut, and principal's house a) Appointment of board of directors/ management team b) Procurement of equipment and furniture c) Renovation/ construction of premises d) Collaboration with agencies	Completion of scope of works	**Start date** 2022 **End date** 2025	RM20 million a. Physical & infrastructure- RM18 million b. Furniture & fittings - RM2 million

Project Owner	Implementing Agency	Other Stakeholders
JKMS	JKR Sarawak, JKMS, SHRU	Ministry, Agencies and NGOs

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.3

Action step (s)	Output (s)	Timeline	Resources required
5.3 Rumah Seri Kenangan (RSK) Sibu Phase 2 f) Engagement and Collaboration • KWKPK – Monitoring of the financial progress of the physical project • JKMS – Monitoring of the physical and the financial progress of the physical project while reporting back to the ministry to ensure the physical project are committed within the time given • JKR – The implementing agencies of the physical aspect of the building • Other agencies such as DID and Land and Survey • SHRU – Ensuring manpower for the operational aspect of the institution	Completion of scope of works	**Start date** 2022 **End date** 2025	RM20 million a. Physical & infrastructure- RM18 million b. Furniture & fittings - RM2 million

Project Owner	Implementing Agency	Other Stakeholders
JKMS	JKR Sarawak, JKMS, SHRU	Ministry, Agencies and NGOs

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.3

Action step (s)	Output (s)	Timeline	Resources required
5.3 Rumah Seri Kenangan (RSK) Sibu Phase 2 g) Centre Operation • Enhance the quality of care and protection of the elderly as laid down in the strategy of the 9th MP which states "the target group who require care and protection will be provided with quality services and adequate facilities" • To provide facilities in line with the Dasar Warga Emas Negara and to facilitate increasing number of elderly citizens • The Institution will accommodate 150 elderly g) Recruitment of competent manpower	Completion of scope of works	**Start date** 2022 **End date** 2025	RM20 million a. Physical & infrastructure- RM18 million b. Furniture & fittings - RM2 million

Project Owner	Implementing Agency	Other Stakeholders
JKMS	JKR Sarawak, JKMS, SHRU	Ministry, Agencies and NGOs

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.4

Action step (s)	Output (s)	Timeline	Resources required
5.4 Aged Day Care Centre Miri a) Acquisition of premise b) Procurement process (design, tender) c) Renovation of premises d) Centre operations (hiring of manpower & programs and activities): • Need extra manpower 10-15 new staff to handle this new centre • From managing the applications, conducting programs and activities, maintenance and overall administration of the centre	Completion of scope of works	**Start date** a) Oct 2021 b) Oct 2022 c) Jul 2023 d) Oct 2024 **End date** a) Oct 2022 b) Apr 2023 c) Jul 2024 d) Dec 2030	RM3 million (a. Physical & infrastructure- RM2 million b. Centre operations - RM1 million), additional RM600,000 required from SMA for ICT development

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	JKMS	JKMS, PAWE, PPWE, NGO, Jabatan Kesihatan, Miri City Council (MCC), PUSTAKA, R&DO Miri, MCMC, SMA, KBS, JAIS, UNIFOR

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.4

Action step (s)	Output (s)	Timeline	Resources required
5.4 Aged Day Care Centre Miri e) Collaboration with agencies: • Jabatan Kebajikan Masyarakat - main implementing agency • Jabatan Kesihatan Negeri Sarawak - to help as coordinator suitable programs and activities along with provision of medical services if needed • KMKK - to help disseminate information • Miri City Council, Resident and District offices - to be the front liners to the rakyat when they have any queries • PAWE and PPWE and relevant NGOs to help with activities and programs • PUSTAKA to bring in books, programs and activities • SMA and MCMC to help with digitalisation and ICT rooms • KBS for grants and activities and programs • UNIFOR and JAIS on activities and programs	Completion of scope of works	**Start date** e) Jan 2022 **End date** e) Dec 2030	RM3 million (a. Physical & infrastructure- RM2 million b. Centre operations - RM1 million), additional RM600,000 required from SMA for ICT development

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	JKMS	JKMS, PAWE, PPWE, NGO, Jabatan Kesihatan, Miri City Council (MCC), PUSTAKA, R&DO Miri, MCMC, SMA, KBS, JAIS, UNIFOR

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.4

Action step (s)	Output (s)	Timeline	Resources required
5.4 Aged Day Care Centre Miri f) Digitalisation: ● Adopt technology advancements via ICT rooms for the centre, using latest systems for administration, amenities and machines for elderly usage, etc. ● Profiling can also be done based on Integrated database and system that interlink with iSarawakCare and Jabatan Kebajikan Masyarakat Sarawak platforms g) Promotion of this program is done via advertisements on mass media and through partner agencies like the Sarawak Health Department, Jabatan Kebajikan Masyarakat Sarawak, MCC, Resident and district offices, KMKK and NGOs. Job trainees will also be based on new integrated system and JKMS database as well as lists/information from various partners and NGOs	Completion of scope of works	**Start date** f) Jan 2022 g) Jan 2023 **End date** f) Dec 2030 g) Dec 2030	RM3 million (a. Physical & infrastructure- RM2 million b. Centre operations - RM1 million), additional RM600,000 required from SMA for ICT development

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	JKMS	JKMS, PAWE, PPWE, NGO, Jabatan Kesihatan, Miri City Council (MCC), PUSTAKA, R&DO Miri, MCMC, SMA, KBS, JAIS, UNIFOR

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	3. Social Intervention Programme and Community Support
Action step	:	5.5

Action step (s)	Output (s)	Timeline	Resources required
5.5 Empowerment for the aged a) Programmes for carers b) Social support programme for the aged	Successful implementation of programmes	**Start date** Jan 2022 **End date** Dec 2030	RM7 million a. RM3 mil b. RM4 mil

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	JKMS	JKMS, PAWE, PPWE, NGO, Jabatan Kesihatan, Miri City Council (MCC), PUSTAKA, R&DO Miri, MCMC, SMA, KBS, JAIS, UNIFOR

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	3. Social Intervention Programme and Community Support
Action step	:	5.6

Action step (s)	Output (s)	Timeline	Resources required
5.6 Special Needs Community Centre (SNCC) a) Project site/ locality identification b) Process of land acquisition c) Drawing and submission of plans d) Tendering for renovation/ construction of premises (design, tender, rental/ purchase) e) Construction of premises f) Appointment of board of directors/ management team g) Procurement of equipment and furniture h) Collaboration with agencies i) Recruitment of competent manpower	a. Completion of scope of works b. Collaboration with JKR Sarawak (for construction and maintenance), Land and Survey Sarawak (land surveying, sub-division, title and land acquisition), Local Councils (submission and approval of building plans, licences), Bomba (approval of operation), Federal and State Ministries, Federal and State Departments (sharing of expertise and knowledge, networking and NGOs (data sharing and providing feedback)	**Start date** a) Apr 2021 b) Apr 2021 c) Jan 2022 d) Jul 2022 e) Sept 2022 f) Oct 2022 g) Jan 2024 h) Jan 2025 i) Jan 2026 **End date** a) Mar 2022 b) Mar 2022 c) Jun 2022 d) Aug 2022 e) Dec 2025 f) Dec 2030 g) Dec 2025 h) Dec 2030 i) Dec 2030	RM55 million for operation and recruitment a.Physical & infrastructure- RM40.7 million b. Centre operations - RM10.9 million c.ICT development - RM0.6 million d. Engagement & collaboration - RM2.35 million e.R&D - RM0.45 million

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	KWKPK, SSMU, SMA, SHRU, SFS, SAG, JKR Sarawak, Land & Survey, local councils and authority	Relevant resident & district office; relevant divisional Land and Survey Department; relevant local authority; Unit Pentadbiran, CMD, JKR, Ministry, agencies and NGOs, JKNS, Hospital Sentosa, JPNS, JKMS, JWKS, MPS, JPN Sarawak

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.6

Action step (s)	Output (s)	Timeline	Resources required
5.6 Special Needs Community Centre (SNCC) j) Centre operations ● Functional and integrated special needs community centre activities and services ● Centre activities include: I. Awareness, advocacy, treatment, rehabilitation and referral of special needs individuals, families and communities II. Tracking, guiding and counseling affected individuals with special needs and their families III. Capacity building for special needs community k) Digitalisation and ICT (software and hardware) l) Engagement and collaboration	c) Students and job trainees are recruited via advertisements on mass media and through partner agencies like the Sarawak Health Department, Sarawak Education Department, Jabatan Kebajikan Masyarakat Sarawak, special needs schools and PPDKs. KWKPK will collaborate with local NGOs such as Kuching Autistic Association, PERKATA, PIBAKAT and many more on expertise, knowledge sharing, skills training and empowerment of OKUs. Early intervention programmes are adapted through signing of TOR with established institutions such as Genius Kurnia under Kementerian Pelajaran Malaysia. SNCC will work with established centres like PPKS, CENTEXS on training programmes to come up with vocational training programmes. KWKPK will set up group homes through C56 visits and networking with other established centres such as St Andrew's Home in Singapore to learn the set up and operation.	**Start date** j) Jan 2026 k) Jan 2026 l) Jan 2026 **End date** j) Dec 2030 k) Dec 2030 l) Dec 2030	RM55 million for operation and recruitment

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	KWKPK, SSMU, SMA, SHRU, SFS, SAG, JKR Sarawak, Land & Survey, local councils and authority	Relevant resident & district office; relevant divisional Land and Survey Department; relevant local authority; Unit Pentadbiran, CMD, JKR, Ministry, agencies and NGOs, JKNS, Hospital Sentosa, JPNS, JKMS, JWKS, MPS, JPN Sarawak

AIP Level 2 - Social services sector

Sector	:	Social service
Initiative	:	5. Social Intervention Programme and Community Support
Action step	:	5.6

Action step (s)	Output (s)	Timeline	Resources required
5.6 Special Needs Community Centre (SNCC) m) Training and Research & Development (R&D) n) Utilities and maintenance	d) SNCC will be established as a centre of excellence with a pool of specialists and experts in special needs with the availability of training, research and development of resources and manpower. e) The building and facilities at SNCC as a hub for special needs development will consistently be upgraded and maintained to provide a conducive environment for teaching and learning.	**Start date** m) Jan 2026 n) Jan 2026 **End date** m) Dec 2030 n) Dec 2030	RM55 million for operation and recruitment

Project Owner	Implementing Agency	Other Stakeholders
KWKPK	KWKPK, SSMU, SMA, SHRU, SFS, SAG, JKR Sarawak, Land & Survey, local councils and authority	Relevant resident & district office; relevant divisional Land and Survey Department; relevant local authority; Unit Pentadbiran, CMD, JKR, Ministry, agencies and NGOs, JKNS, Hospital Sentosa, JPNS, JKMS, JWKS, MPS, JPN Sarawak

2. Additional Information

2.1 Abbreviations

Abbreviations

Term	Definition
4IR / IR4.0	Fourth Industrial Revolution
11MP / RMK-11	11th Malaysia Plan
12MP / RMK-12	12th Malaysia Plan
AADK	Agensi Anti Dadah Kebangsaan
ABM	Akademi Binaan Malaysia
ADO	Assistant District Office
AET	Aktiviti Ekonomi Tambahan
AIP	Action and Implementation Plan
API	Application Programming Interface
APM	Angkatan Pertahanan Awam Malaysia
APMM	Agensi Penguatkuasaan Maritim Malaysia
ART	Automated Rapid Transit
ASEAN	Association of Southeast Asian Nations
AtoN	Aids to Navigation
AZAM	Angkatan Zaman Mansang
B40	Bottom 40
BAKAS	Bekalan Air Luar Bandar dan Kebersihan Alam Sekeliling
BDA	Bintulu Development Authority
BERNAS	Padiberas Nasional Berhad
BIM	Building Information Modelling
BIPPN	Bantuan Input Peralatan Perikanan Nelayan
BIS	Bus Integrated System
BMC	Borneo Medical Centre
BNM	Bank Negara Malaysia
BNR	Business Name Registration
BOD	Board of Director
bil	billion
BKSS	Bantuan Khas Sarawakku Sayang
CAAM	Civil Aviation Authority of Malaysia
CAGR	- Compounded Annual Growth Rate
CAPEX	Capital expenditure
CBO	Community-based Organisations
CD	Chart Datum
CDO	Central Design Office
CENTEX	Centre of Technical Excellence
CEO	Chief executive officer
CEPA	Conservation, Education, Promotion and Awareness
CIDB	Construction Industry Development Board

Term	Definition
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
CMGD	Certificate of Making Good Practise
CMD	Chief Minister's Department
CMP	Conservation Management Plan
CO_2	Carbon dioxide
COMHEL	Community Mental Health Literacy
COVID-19	Coronavirus disease 2019
CPC	Certificate of Practical Completion
CPD	Continuous Professional Development
CPO	Crude palm oil
CPPC	Collecting, Processing and Packaging Centre
CSIC	Community Social Intervention Centers
CSO	Civil Society Organisations
CVLB	Commercial Vehicle Licensing Board
D11	Bahagian Siasatan Seksual, Penderaan dan Kanak-Kanak
DBKU	Dewan Bandaraya Kuching Utara
DCA	Department Of Civil Aviation
DCC	Digital Community Centre
DDI	Domestic Direct Investment
DGC	Digital Government Committee
DID	Department of Irrigation and Drainage
Digitalise / Digitalisation	The processes involved in utilising digital technologies and digitised data to impact how work gets done
DLIP	Developing Demak Laut Industrial Park
DoE	Department of Environment
DOSH	Department of Occupational Safety And Health
DOSM	Department of Statistics Malaysia
DTTG	Dayak Think Tank Group
DUN	Dewan Undangan Neger
DVS	Department Of Veterinary Services
DWNP	Department of Wildlife and National Parks
EDMS	Electronic Document Management System
E&E	Electrical & Electronics
e.g.	*exempli gratia*
E-Government	Electronic government
eHDF	e-Health Declaration Form
e-KISS	e-KPI System for Water Supply Services
e-KISWA	e-Khidmat Islam Sarawak
eICC	Electronic Industrial Coordination Committee

Term	Definition
eMINDSS	EIU Main Information, Network & Database System
eQP	e-Qualified Person
EIA	Environmental Impact Assessment
EPU	Economic Planning Unit
ESG	Environmental, social and governance
ESS	Employee Self-Service
etc.	Et cetera
EUR	Euro
EV	Electric vehicle
FAMA	Federal Agricultural Marketing Authority
FDS	Forest Department Sarawak
FEED	Front-End- Engineering & Design
F&B	Food and beverage
FDI	Foreign Direct Investment
FDS	Forest Department Sarawak
FI	Farmers Institution
FLR	Forest Landscape Restoration
FMUs	Forest Management Units
FPMU	Forest Plantation Management Unit
FRD	Functional Requirement Documents
FRIM	Forest Research Institute Malaysia
FTE	full-time equivalent
FTL	Forest Timber Licence
G2G	Government to Government
GAP	Good Agriculture Practices
GBI	Green Building Index
Gbps	Gigabits per second
GCAP	Green City Action Plan
GDP	Gross domestic product
GEF	Global Environment Facility
GERD	R&D expenditure as % of GDP
GFCF	Gross Fixed Capital Formation
GHG	Greenhouse gas
GHP	Good Hygiene Practice
GIS	Geographic Information System
GITA	Green Investment Tax Allowance
GITE	Green Investment Tax Exemption
GLC	Government Linked Companies
GMP	Good Manufacturing Practice
GP	General practitioner
GPN	Gred Purata Negeri

Term	Definition
GRP	Good Regulatory Practice
H2	Hydrogen
ha	Hectare
HACCP	Hazard Analysis Critical Control Point
HASIL	Lembaga Hasil Dalam Negeri
HDC	Housing Development Corporation
HEP	Hydroelectric Power Plant
HIP	High Impact Program
HRDF	Human Resource Development Fund
HVDC	High Voltage Direct Current
i.e.	id est
IAB	Institut Aminuddin Baki
IADA	Integrated Agricultural Development Area
IAMS	Integrated Assets Management System
ICC	Industrial Coordination Committee
ICE	Internal Combustion Engine
ICT	Information and Communications Technology
ICTRMS	ICT Requisition Management System
IHL	Institutions of Higher Learning
IMF	International Monetary Fund
IP	Intellectual Property
IPGM	Institut Pendidikan Guru Kampus
IPMS	Intelligent Property Management System
IPP	Independent Power Producer
IPT	Institusi Pengajian Tinggi
IRDA	Iskandar Regional Development Authority
IRSDA	Integrated Regional Samarahan Development Agency
ISM	Integrated Service Management
ISP	Internet Service Provider
ITB	Institut Teknologi Bandung
IUCN	International Union for Conservation of Nature
JAIS	Jabatan Agama Islam Sarawak
JBALB	Jabatan Bekalan Air Luar Bandar
Jendela	Jalinan Digital Negara
JIM	Jabatan Imigresen Malaysia
JKIP	PROSPEK Main Committee
JKKK	Jawatankuasa Kemajuan dan Keselamatan Kampung
JKM	Jabatan Kebajikan Masyarakat
JKMS	Jabatan Kebajikan Masyarakat Sarawak
JKNS	Jabatan Kesihatan Negeri Sarawak

Term	Definition
JKR	Jabatan Kerja Raya
JLWS	Jabatan Laut Wilayah Sarawak
JMG	Jabatan Mineral dan Geosains
JMS	Jabatan Muzium Sarawak
JPA	Jabatan Perkhidmatan Awam
JPJKK	Jabatan Pencegahan Jenayah dan Keselamatan Komuniti
JPLS	Jabatan Perikanan Laut Sarawak
JPN	Jabatan Pendaftaran Negara
JPNS	Jabatan Pendidikan Negeri Sarawak
JPTPANS	Jawatankuasa Pemandu Transformasi Perkhidmatan Awam Negeri Sarawak
JPTT	Jawatankuasa Penilaian Teknikal Tender
JRTM	Journal of Responsible Tourism Management
JSJK	Jabatan Siasatan Jenayah Komersil
JSJN	Jabatan Siasatan Jenayah Narkotik
JTK	Jabatan Tenaga Kerja
JUPEM	Jabatan Ukur dan Pemetaan Malaysia
JVC	Joint Venture Capital
JWKS	Jabatan Wanita dan Keluarga Sarawak
JWN	Jabatan Warisan Negara
KAPS	Kesedaran dan Advokasi Pendidikan Seksual
KASA	Kementerian Alam Sekitar dan Air
KBS	Kementerian Belia dan Sukan
KeTSA	Kementerian Tenaga dan Sumber Asli
kg	kilogram
KM	Kilometre
KKM	Kementerian Kesihatan Malaysia
KKR	Kementerian Kerja Raya
KMKK	Ketua Masyarakat dan Ketua Kaum
KPA	Kuching Port Authority
KPI	Key Performance Indicator
KPLB	Kementerian Pembangunan Luar Bandar
KRI	Khazanah Research Institute
KWB	Kuching Water Board
KWKPK	Ministry of Welfare, Community Wellbeing, Women, Family and Childhood Development
LASIS	Land and Survey Information System
LBAS	Lembaga Boya Dan Api Sarawak
lcpd	litres per capita per day
LCDA	Land Custody and Development Authority

Term	Definition
LFS	Labour Force Survey
LHDN	Lembaga Hasil Dalam Negeri
LKIM	Lembaga Kemajuan Ikan Malaysia
LNG	Liquefied natural gas
L&S	Land & Survey
LOB	Line of Business
LoRaWAN	Long range, wide area network
LOS	Level Of Service
IoT	Internet of Things
LPF	Licence For Planted Forests
LPNM	Lembaga Perindustrian Nanas Malaysia
LPPKN	Lembaga Penduduk Dan Pembangunan Keluarga Negara
LPS	Local Port Service
LSS	Large Scale Solar
LULUCF	land use, land use change and forestry
M40	Middle 40
MAB	Malaysia Airlines Berhad
MAFI	Ministry of Agriculture and Food Industries
MAGIC	Malaysian Global Innovation & Creativity Centre
MAH	Malaysian Association of Hotel
MAHB	Malaysia Airports Holdings Berhad
MAFI	Ministry of Agriculture and Food Industries
MAIFI	Momentary Average Interruption Frequency Index
MAIS	Majlis Adat Istiadat Sarawak
MAMPU	Malaysian Administrative Modernisation and Management Planning Unit
MANRED	Ministry of Modernization of Agriculture, Native Land and Regional Development
MARDI	Malaysian Agricultural Research and Development Institute
MATRADE	Malaysia External Trade Development Corporation
MATTA	Malaysian Association of Tour and Travel Agents
MAVCAP	Malaysia Venture Capital Management Bhd
MAVCOM	Malaysian Aviation Commission
Mbps	Megabits per second
MCC	Miri City Council
MCMC	Malaysian Communication & Multimedia Commission
MD	Majlis Daerah
MDEC	Malaysia Digital Economy Corporation
MDLA	Majlis Daerah Lubok Antu
MDSA	Majlis Daerah Sri Aman

Term	Definition
MESTR	Ministry of Education, Science and Technological Research
MGTC	Malaysian Green Technology and Climate Centre
MHTC	Malaysia Healthcare Travel Council
MIDA	Malaysian Investment Development Authority
mil	million
MINDEF	Kementerian Pertahanan
MINTRED	Ministry of International Trade & Industry, Industrial Terminal & Entrepreneur Development Sarawak
MIPD	Ministry of Infrastructure and Port Development
MIS	Majlis Islam Sarawak
MITI	Ministry of International Trade and Industry
MKN	Majlis Keselamatan Negara
MLD	million liters a day
MLGH	Ministry of Local Government and Housing
MM	Median Multiple
mm	millimetre
MMKN	Majlis Mesyuarat Kerajaan Negeri
MNCs	Multinational corporations
MoU	Memorandum of Understanding
MOFA	Ministry of Foreign Affairs
MOHE	Ministry of Higher Education
MOT	Ministry of Transport
MOTAC	Ministry of Tourism, Arts and Culture
MPA	Miri Port Authority
MPC	Malaysia Productivity Corporation
MPKS	Majlis Perbandaran Kota Samarahan
MPOB	Malaysian Palm Oil Board
MPP	Majlis Perbandaran Padawan
MPS	Malaysian Pharmacists Society
MRP-PPRMS	Minor Rural Project- Project Baikpulih Rumah Rakyat Miskin Sarawak
MRPE	Ministry of Resource Planning and Environment
MS1525	A rating under Green Building Index
MSN	Majlis Sukan Negeri
MSPO	Malaysian Sustainable Palm Oil
MSS	Majlis Sukan Sekolah
MT	Metric Ton

Term	Definition
MTAC	Ministry of Tourism, Arts and Culture Sarawak
MTDC	Malaysian Technology Development Corporation
MUDeNR	Ministry of Urban Development and Natural Resources
MW	Megawatt
MWC	Matang Wildlife Centre
MyBHA	Malaysia Budget Hotel Association
MyDigital	Malaysia Digital Economy Blueprint
MyGAP	Skim Amalan Pertanian Baik Malaysia
MYSS	Ministry of Youth and Sports Sarawak
NAMES	Native Marriage Management Electronic System
NAPIC	National Property Information Centre
NBIOT	Narrow Band IoT
NEM	Net Energy Metering
NFP	Nutritious Food Programme
NRDA	Northern Region Development Agency
NRW	Non-revenue water
NREB	Natural Resources and Environment Board
NREO	Natural Resources and Environment Ordinance
NSC	National Security Council
OBA	Outcome Based Assessment
OECD	Organisation for Economic Co-operation and Development
OFI	Opportunity for Improvement
OLAM	Online License Application
OPEC	Organization of Petroleum Exporting Countries
OPEX	Operating expenses
p.a.	Per annum
PACES	Professional & Continuing Education Centre Sarawak
PATA	Pacific Asia Travel Association
PAWE	Pusat Aktiviti Warga Emas
PBT	Pihak Berkuasa Tempatan
PCDS 2030	Post COVID-19 Development Strategy 2030
PDA	Preliminary Detailed Abstract
PDRM	Polis Diraja Malaysia
PERKESO	Pertubuhan Keselamatan Sosial
PETROS	Petroleum Sarawak Berhad
PFA	Pig Farming Area
PFE	Permanent Forest Estate
PIBG	Persatuan Ibu Bapa Guru
PKB	Pejabat Kesihatan Bahagian
PKI	Public Key Infrastructure

Term	Definition
PLBI	Post Logging Block Inspection
PLF	Passenger Load Factor
PLI	Poverty Line Income
POC	Proof of concept
PPD	Pejabat Pendidikan Daerah
PPDK	Pertubuhan Pemulihan Dalam Komuniti
PPKS	Pusat Pembangunan Kemahiran Sarawak
PPNS	Pertubuhan Peladang Negeri Sarawak
PPP	purchasing power parity
PPWE	Policy Partnership on Women and the Economy
PTA	Parent-Teacher Association
PVR	Pasukan Sukarelawan Polis
PWD	People with Disability
QR Code	Quick Response code
RANDO	Resident Office
RCE Kuching	Regional Centre of Expertise Kuching
RECODA	Regional Corridor Development Authority
R&D	Research and Development
R&D&C&I	Research, Development, Commercialisation and Innovation
RE	Renewable Energy
RIS	Regulatory Impact Statement
RM	Ringgit Malaysia
RMC	Rejang Medical Centre
RNDO	Resident and District Office
ROI	Return of Investment
RPA	Rajang Port Authority
RPSS	Rural Power Supply Scheme
RSPO	Roundtable on Sustainable Palm Oil
RTPMS	Rural Transformation Projects Monitoring System
SABIDTeC	Sarawak Bamboo Industry Development Technical Committee
SAC	State Administrative Council
SACREST	Sarawak Commitment to Responsible Tourism
SADA	Sri Aman Development Agency
SAG	State Attorney-General
SAGC	Sarawak State Attorney-General's Chambers
SAIDI	System Average Interruption Duration Index
SAIFI	System Average Interruption Frequency Index
SALCRA	Sarawak Land Consolidation and Rehabilitation Authority
SARADEC	Sarawak Digital Entrepreneur Community Cooperative
SARES	Sarawak Alternative Rural Electrification Scheme

Term	Definition
SAWAS	Sarawak Alternative Rural Water Supply
SBDC	State Building Design Committee
SBP	Sarawak Bio-Industrial Park
SBTB	Sarawak Building Technology Board
SBTC	State Building Design Committee
SBTCA	Sarawak Bus Transport Association
SCATS	Sydney Coordinated Adaptive Traffic System
SCB	Sarawak Convention Bureau
SCC	Standard and Cost Committee
SCOPE	Sarawak Centre of Performance Excellence
SCS	State Civil Service
SCTB	State Central Tenders Board
SDEC	Sarawak Digital Economy Corporation
SDG	Sustainable Development Goals
SDI	Sarawak Development Institute
SDIE	Sarawak Digital and Innovation Ecosystem
SDMC	State Disaster Management Committee
Sdn Bhd	*Sendirian Berhad* / Private Limited Company
SDO	Sarawak State Federal Development Office
SEAC	Sarawak Economic Action Council
SEB	Sarawak Energy Berhad
SEDC	Sarawak Economic Development Corporation
SEED	Sarawak Entrepreneur Development
SESCO	Syarikat SESCO Berhad
SFC	Sarawak Forestry Corporation
SFD	Sarawak Forest Department
SFIA	Sarawak Furniture Industry Association
SFM	Sustainable Forest Management
SFO	Sarawak Forest Ordinance
SFS	State Financial Secretary
SHEDA	Sarawak Housing And Real Estate Developers' Association
SHRU	State Human Resource Unit
SI	Soil Investigation
SIMU	State Implementation Monitoring Unit
SIFBAS	State Integrated Financial, Budgeting Accounting System
SIOC	Sarawak Integrated Operations Centre
SKMM	Suruhanjaya Komunikasi dan Multimedia Malaysia
SLDB	Sarawak Land Development Board
SLTA	Sarawak Land Transport Authority
SMA	Sarawak Multimedia Authority

Term	Definition
SMC	Sibu Municipal Council
SMEs	Small-medium enterprises
SMG	Sarawak Media Group
SMMA	State Minerals Management Authority
SMSB	Sarawak Metro Sdn Bhd
SNCC	Special Needs Community Centre
SODC	State Organization Development
SOP	Standard Operating Procedure
SPA	State Planning Authority
SPANS	Suruhanjaya Perkhidmatan Awam Negeri Sarawak
SPH	Sistem Pelindung Hujan
SPM	Sijil Pelajaran Malaysia
SPPMS	Special Project Programs Monitoring System
SPV	Special Purpose Vehicle
SRB	Sarawak River Board
SRO	Sarawak River Ordinance
SRS	Sarawak Research Society
SSMU	State Service Modernisation Unit
SSL	Self-sufficiency level
SST	Sales & Service Tax
STATOS	Sarawak Trade and Tourism Office Singapore
STB	Sarawak Tourism Board
STBC	State Tender Board Committee
STEM	Science, technology, engineering and mathematics
STF	Sarawak Tourism Federation
STGA	Sarawak Tourist Guides Association
STIDC	Sarawak Timber Industry Development Corporation
STLVS	Sarawak Timber Legality Verification System
SWC	Semenggoh Wildlife Centre
SWIS	Sarawak Workforce Information System
T20	Top 20
TDA	Technology Depository Agency
TEGAS	Tabung Ekonomi Gagasan Anak Sarawak
TEU	Twenty Equipment Unit
TM	Telekom Malaysia
TMPA	Tanjung Manis Port Authority
TOR	Terms of Reference
ToT	Taking Over Test
TPA	Totally protected area
TSA	Transportation Security Administration

Term	Definition
TVET	Technical and Vocational Education and Training
UAD	Unit Audit Dalam
UI	User Interface
UKAS	Unit Komunikasi Awam Sarawak
UKPN	Unit Keselamatan Dan Penguatkuasaan Negeri
UNDP	United Nations Development Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNFCCC	United Nations Framework Convention on Climate Change
UNIFOR	Unit for Other Religions
UNIMAS	University of Malaysia, Sarawak
UNU	United Nations University
UNWTO	United Nations World Tourism Organisation
UP	Unit Pentadbiran
UPKJ	Unit Pendaftaran Kontraktor Dan Juruperunding
UPKN	Unit Keselamatan Dan Penguatkuasaan Negeri
UPM	Universiti Putra Malaysia
UPPN	Unit Pemodenan Perkhidmatan Negeri
URDA	Upper Rajang Development Agency
US	United States
USD	United States Dollar
VCMC	Venture Capital Management Company
VTMS	Vessel Traffic management System
WEO	World Economic Outlook
WRC	Wildlife Rescue Centre
WTP	Water Treatment Plant
WWF	World Wildlife Fund
VRA	Vulnerable, risky and affected
VSAT	Very Small Aperture Terminal
YB	Yang Berhormat
YSIE	YS International Education
YSISS	YAYASAN Sarawak International Secondary School

2.2 List of Figures

List of Figures

Title	Page
Figure 1.1.1: Aspiration framework for manufacturing sector	7
Figure 1.1.2: Summary of desired outcomes for manufacturing sector	8
Figure 1.2.1: Aspiration framework for commercial agriculture and agro-commodities sector	29
Figure 1.2.2: Summary of desired outcomes for commercial agriculture and agro-commodities sector	30
Figure 1.3.1: Aspiration framework for tourism sector	199
Figure 1.3.2: Summary of desired outcomes for tourism sector	200
Figure 1.4.1: Aspiration framework for forestry sector	391
Figure 1.4.2: Summary of desired outcomes for forestry sector	392
Figure 1.5.1: Aspiration framework for mining sector	511
Figure 1.5.2: Summary of desired outcomes for mining sector	512
Figure 1.6.1: Aspiration framework for social services sector	532
Figure 1.6.2: Summary of desired outcomes for social services sector	533