

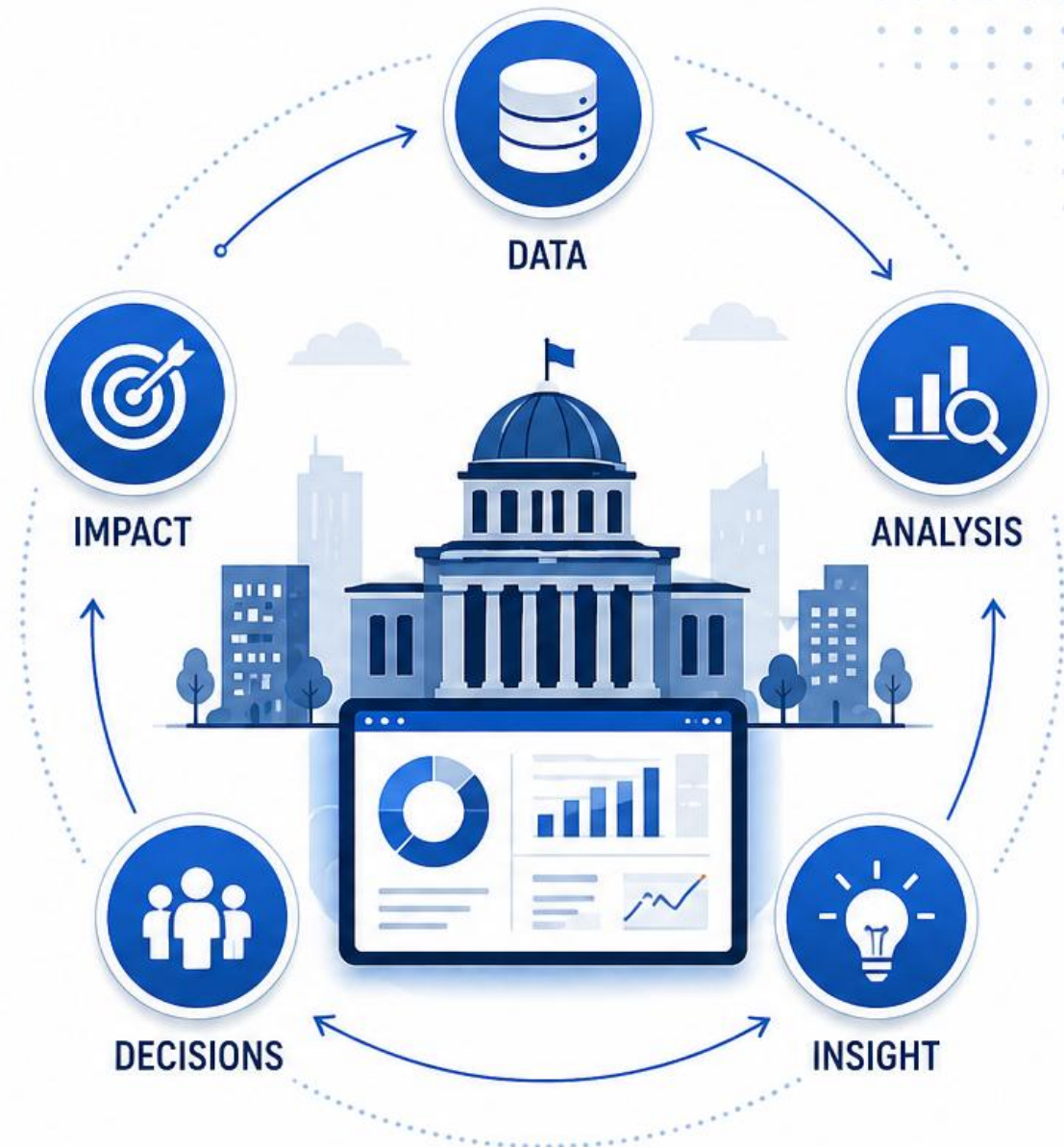


FROM DATA TO DECISIONS

How Government Data
Creates Real Impact

...

By Dexter Janting Robert



• TODAY'S OBJECTIVE •



To provide a clear understanding of Sarawak's **data ecosystem**, including governance, platforms, and collaboration initiatives, and how they support **data-driven decision-making**.

POLICY & VISION



SDE 2030 & PCDS 2030
Driving our direction
towards a digital future.

DATA & GOVERNANCE



Understanding data
and governance to
ensure trusted,
quality data.

SYSTEMS & PLATFORMS



Leveraging SDMS
and Open Data Portal
to manage and share
data effectively.

COLLABORATION & INITIATIVES



Working together through
DTAWG and other initiatives
to enable data sharing
across agencies.

FROM DATA TO DECISION



Turning data into
meaningful insights for
better decision-making
and service delivery.



By the end of this session, you will understand how we work together to **manage, share and use data** for a better Sarawak.



KEY REFERENCE FRAMEWORKS

Our work today is guided and strengthened by these key government policies and strategies.



Governance & Instructions (GI) 2022

Provides the governance direction for data management, sharing and use across the public sector.



Sarawak Digital Economy Blueprint (SDE 2030)

Outlines the state's vision and strategic actions to build a thriving digital economy and society.



Post COVID-19 Development Strategy (PCDS 2030)

Drives socio-economic recovery and long-term growth through data-driven and inclusive strategies.



RMK-13 (National Development Plan 2026-2030)

Supports national priorities and aligns our efforts towards a sustainable and resilient



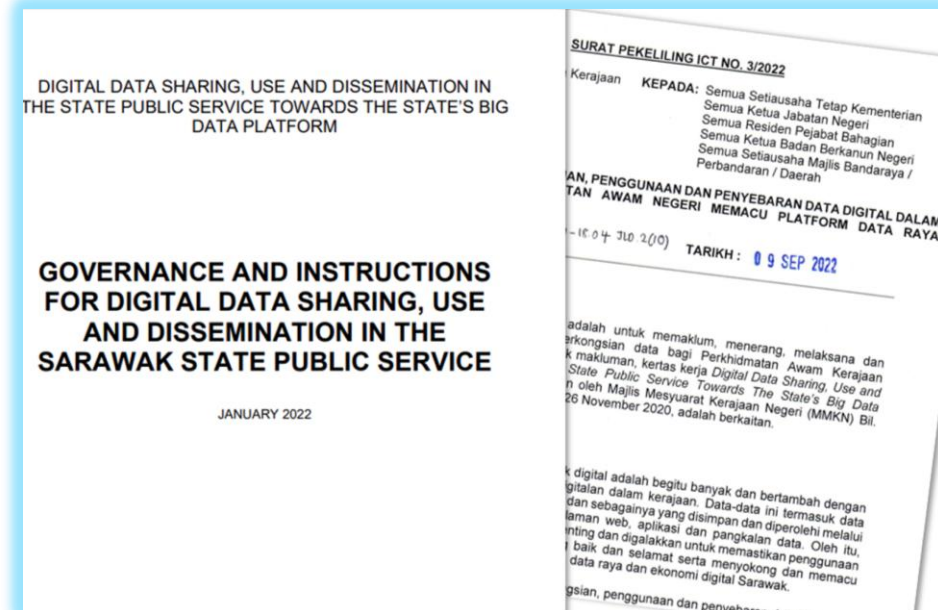
**ONE DIRECTION.
ONE GOAL.**

These frameworks align our data initiatives towards a **data-driven**, **innovative** and **people-centric** government.





Why & Where



How



Vision:

“Sarawak to be a leading Digital Economy and Society by 2030.”

“ Digital Economy an Enabler of PCDS 2030”

SDE page 9

- 31 strategic actions
- 106 initiatives

“Data” = 452

“Data Analytics” = 24

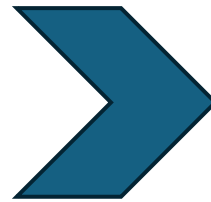
“Data Sharing” = 8

“Catalogue” = 2

“Digital” = 1845



By 2030, Sarawak will be a thriving society driven by data and innovation where everyone enjoys economic prosperity, social inclusivity and sustainable environment by 2030



SARAWAK

13TH MALAYSIA PLAN

2026 - 2030

Post
COVID
DEVE
STRA
2030

"driven by data" means that Sarawak aims to have a system where decisions, policies, and actions across various sectors are informed and guided by reliable data



Box 2.1: Digital Economy and Society Defined [17]

Based on Organisation for Economic Co-operation and Development (OECD), digital economy and society include all activity reliant on, or significantly enhanced by, the use of digital inputs including:

- **Technologies:** The tools and products that help us work and in our everyday lives such as smartphones, robotics, and automation.
- **Infrastructure:** The systems that keep us connected and online such as mobile and broadband services and location-based technologies (like GPS).
- **Services:** The processes, culture and business models that enable a user-centric end-to-end service such as digital platforms, software and cloud storage.
- **Data:** The basic element that can be processed or produced by a computer to convey information, including the facts, statistics, instructions, concepts, or other information capable of being communicated, analysed or processed by an individual or by other means including a computer, electronic and automated means.
- **Regulatory frameworks:** That oversee the efficient, safe and reliable functioning of the digital economy, including the standards that underpin the operation of digital technologies and infrastructure.
- **Capabilities and skills:** The application of skills and knowledge that ensures people are able to use digital technologies and participate in society. All businesses, consumers and government that use and are responsible for these inputs are part of a digital economy and society.

Data:

The basic element that can be processed or produced by a computer to:

- ***convey information, facts, statistics, instructions, concepts, information,***
- ***analysed or processed by an individual or by ...computer, electronic and automated means***



3.3.7 DIGITAL GOVERNMENT

The goal for Sarawak Digital Government is to build seamless government services for citizens and businesses through innovative digital technology.

3.3.7.1 Strategic Actions & Initiatives

Action 26: Initiate Digital Government based on five principles.

Open Government

Open Government is about sharing of government information resources with other agencies and with the community. This encourages value-creation from the information resources.

Data-Centric Government

Data-centric Government employs big data and data analytics at and between all levels for better decision making and service. It enables development of new and innovative services and apps.

Innovative Government

Innovative Government is about agility and resourcefulness in leveraging on opportunities and adapting to changes.

Excellent Service Delivery

The objective is to develop and implement customer-centric services. As the commitment to provide excellent service delivery to the people, the State Government has implemented the One Stop Customer-Centric Frontline Service platform called Service Sarawak that have multiple service channels preferred by the customers namely digital online, counter and kiosk. This is the platform for all agencies to have their service

Data-Centric Government:

data analytics at and between all levels for better decision making and service.

It enables development of new and innovative services and apps

SDE - page 55

Strategic Pillar: Public Sector & Services

Strategic Action (S2): Unlock the power of government data to spur innovation

Initiative: State **Data Management**

OBJECTIVE

The objectives of this initiative are:

- To share and publish Open Data in various machine-readable and informative formats to the public;
- To enable the public to request or discover, understand and download Open Data files;
- To encourage the use of data sets for innovative and new product such as development of new application/system by start-ups/individual; and
- To enable the use of application programming interface to access Open Data.

DESCRIPTION

This initiative involves the Open Data, Open Source and Open Interface Initiative and Open Data Portal Application.

This initiative will include further development of metadata frameworks, policies, governance, standards, best practices and platforms to enable sharing and interoperability of digital data resources between state government agencies, federal government agencies, private sector and the public.

OUTCOMES

30% citizen and business centric applications to be developed/enhanced by external parties using the open data, open source or open Application Programming Interfaces (APIs).

TARGET

- 80% data integrated with existing platform; and
- 1000 datasets, 20 open-source apps, and 100 open APIs on the platform.

TIMELINE

2022 - 2027

LEAD AGENCY (IES)

SMA/SCSDU/STIU/PUSTAKA

DIGITAL DATA SHARING, USE AND DISSEMINATION IN
THE STATE PUBLIC SERVICE TOWARDS THE STATE'S BIG
DATA PLATFORM

**GOVERNANCE AND INSTRUCTIONS
FOR DIGITAL DATA SHARING, USE
AND DISSEMINATION IN THE
SARAWAK STATE PUBLIC SERVICE**

JANUARY 2022

SURAT PEKELILING ICT NO. 3/2022

Kerajaan **KEPADA:** Semua Setiausaha Tetap Kementerian
Semua Ketua Jabatan Negeri
Semua Residen Pejabat Bahagian
Semua Ketua Badan Berkanun Negeri
Semua Setiausaha Majlis Bandaraya /
Perbandaran / Daerah

**AN, PENGGUNAAN DAN PENYEBARAN DATA DIGITAL DALAM
TAN AWAM NEGERI MEMACU PLATFORM DATA RAYA**

- 15.04 Jld. 2(10)

TARIKH: 09 SEP 2022

adalah untuk memaklumkan, menerangkan, melaksana dan
perkongsian data bagi Perkhidmatan Awam Kerajaan
makluman, kertas kerja *Digital Data Sharing, Use and
State Public Service Towards The State's Big Data*
oleh Majlis Mesyuarat Kerajaan Negeri (MMKN) Bil.
26 November 2020, adalah berkaitan.

digital adalah begitu banyak dan bertambah dengan
igitalan dalam kerajaan. Data-data ini termasuk data
dan sebagainya yang disimpan dan diperolehi melalui
laman web, aplikasi dan pangkalan data. Oleh itu,
enting dan digalakkan untuk memastikan penggunaan
baik dan selamat serta menyokong dan memacu
data raya dan ekonomi digital Sarawak.

gsian, penggunaan dan penyebaran data

Before We Use the System, We Must Understand the Data



We have the systems

Platforms like **SDMS** help us manage and share data.



But remember...

Technology alone is not enough.



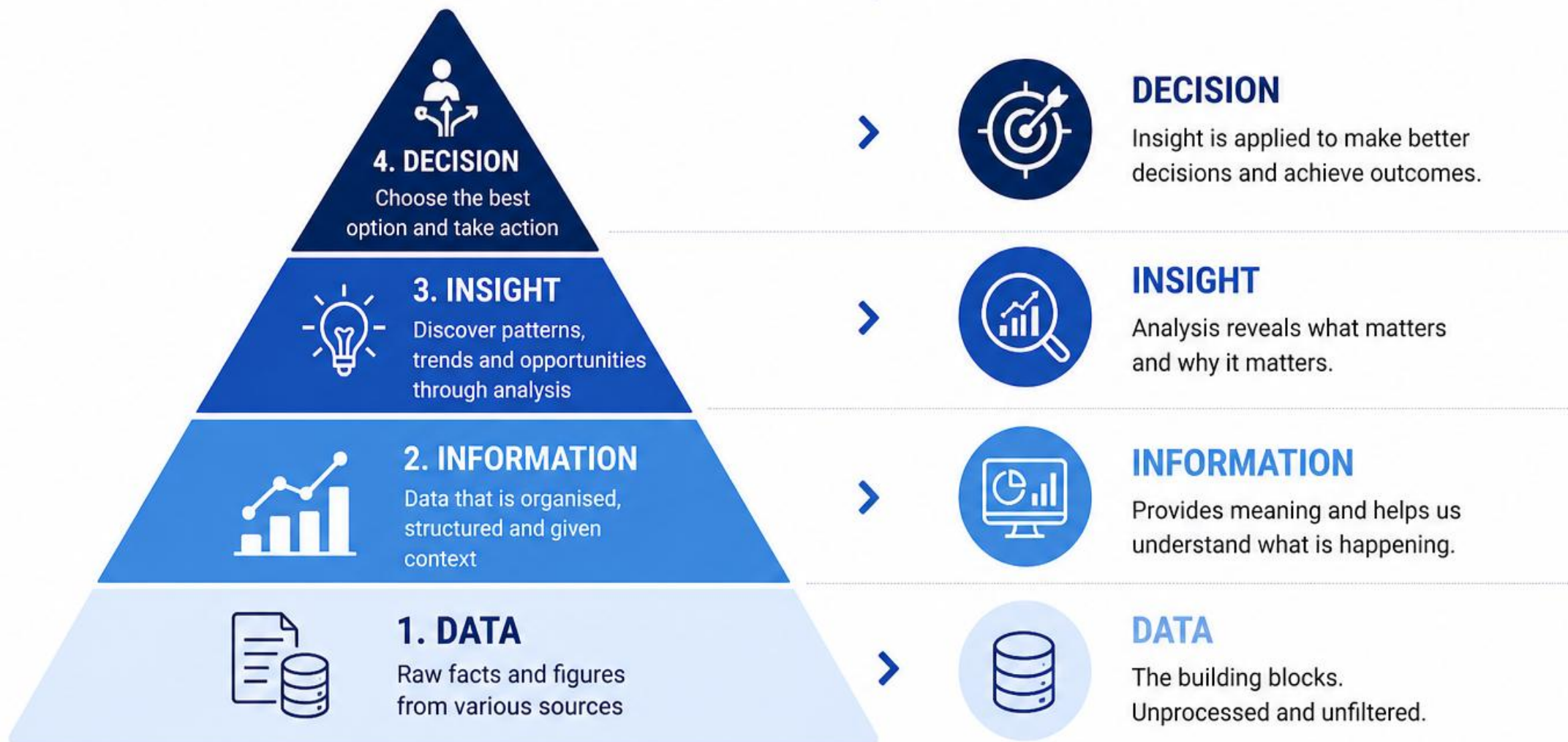
Before we request, analyse or use any data, we must first **understand what data is.**



Let's start with the basics – what is **data**?

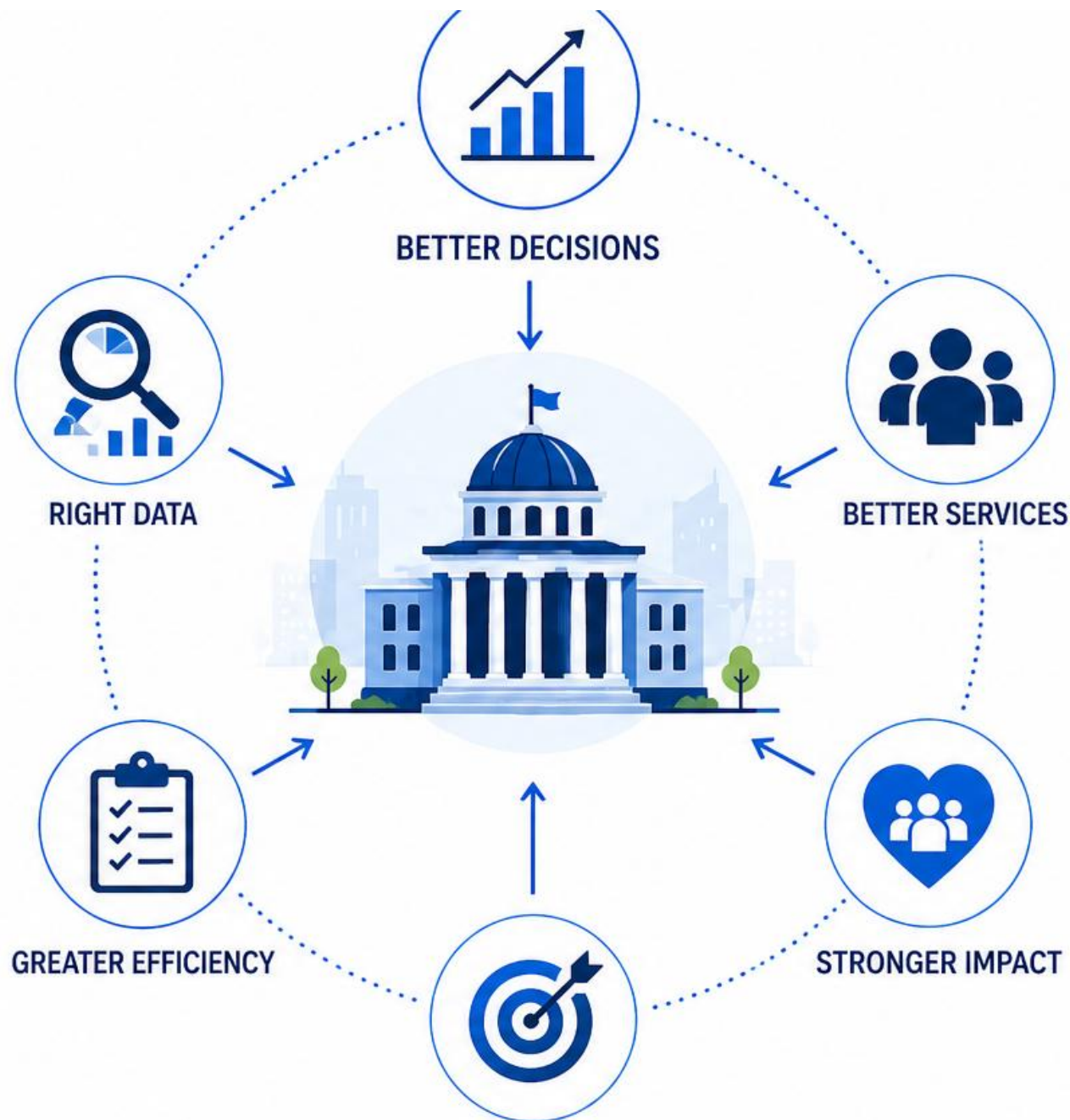
WHAT IS DATA?

Data by itself has little meaning.
Its value comes when it is transformed into **insight** that drives **decisions** and **action**.



What if.. every **decision** we make is backed by the **right data?**

*Better Decisions. Better Outcomes.
Stronger Impact for Our People.*



**WE HAVE MORE DATA
THAN EVER BEFORE**



DATA EVERYWHERE



REALITY CHECK

**We don't
lack data.**

**We lack the
ability to use
it effectively.**

**BUT WE STILL STRUGGLE
TO MAKE GOOD DECISIONS**



UNCLEAR. UNSURE. UNABLE TO ACT.

WHAT YOU EXPERIENCE — • EVERY DAY • —

Too much effort. Too many gaps. Too little clarity.



DATA IS SCATTERED

Different systems.
Different places.
Hard to find.



DIFFERENT FORMATS

Inconsistent formats
make it hard to
combine and use.



MANUAL & TIME CONSUMING

Repeated requests
and manual work
slow us down.



DATA IS HARD TO TRUST

Different numbers.
Different definitions.
Hard to rely on.



LACK OF CLARITY

Limited context.
Hard to interpret.
Hard to act.



MISSED OPPORTUNITIES

Decisions are delayed.
Opportunities are
lost.



THE RESULT:



SLOWER
DECISIONS



LOWER
EFFICIENCY



LESS IMPACT
FOR OUR PEOPLE

THAT'S WHY WE HAVE DTAWG

DATA TRUSTEE AGENCY WORKING GROUP

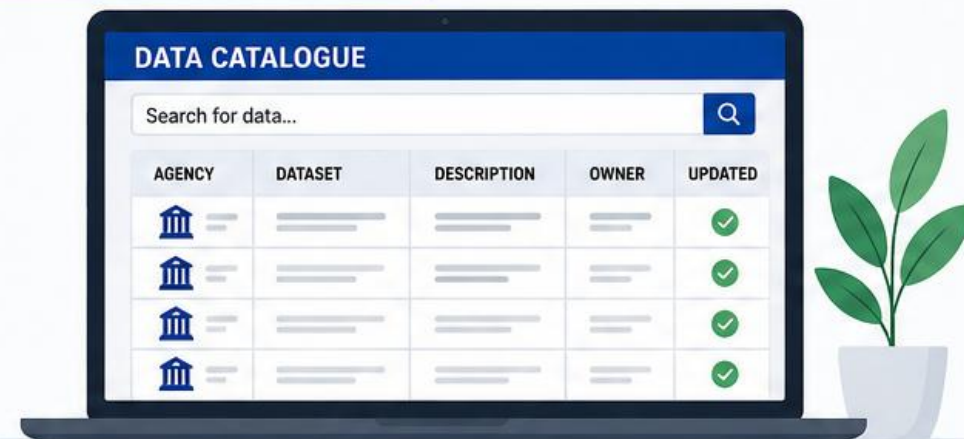


DTAWG was established to assist the **Sarawak Civil Service** in cataloguing and organising **agency data**.



Our goal is simple:

Make it **easy** for agencies to find the data they need.



WHAT WE DO



Identify and Engage

Work with agencies to understand and identify their data assets.



Standardise and Organise

Apply standards and best practices to organise and classify data consistently.



Catalogue and Document

Create and maintain a central catalogue with clear metadata and documentation.



Support and Build Capability

Provide guidance, training and support to agencies in data management.

HOW WE HELP



Agency Data



Catalogued by DTAWG



Easier to Find and Understand



Better Decisions and Outcomes

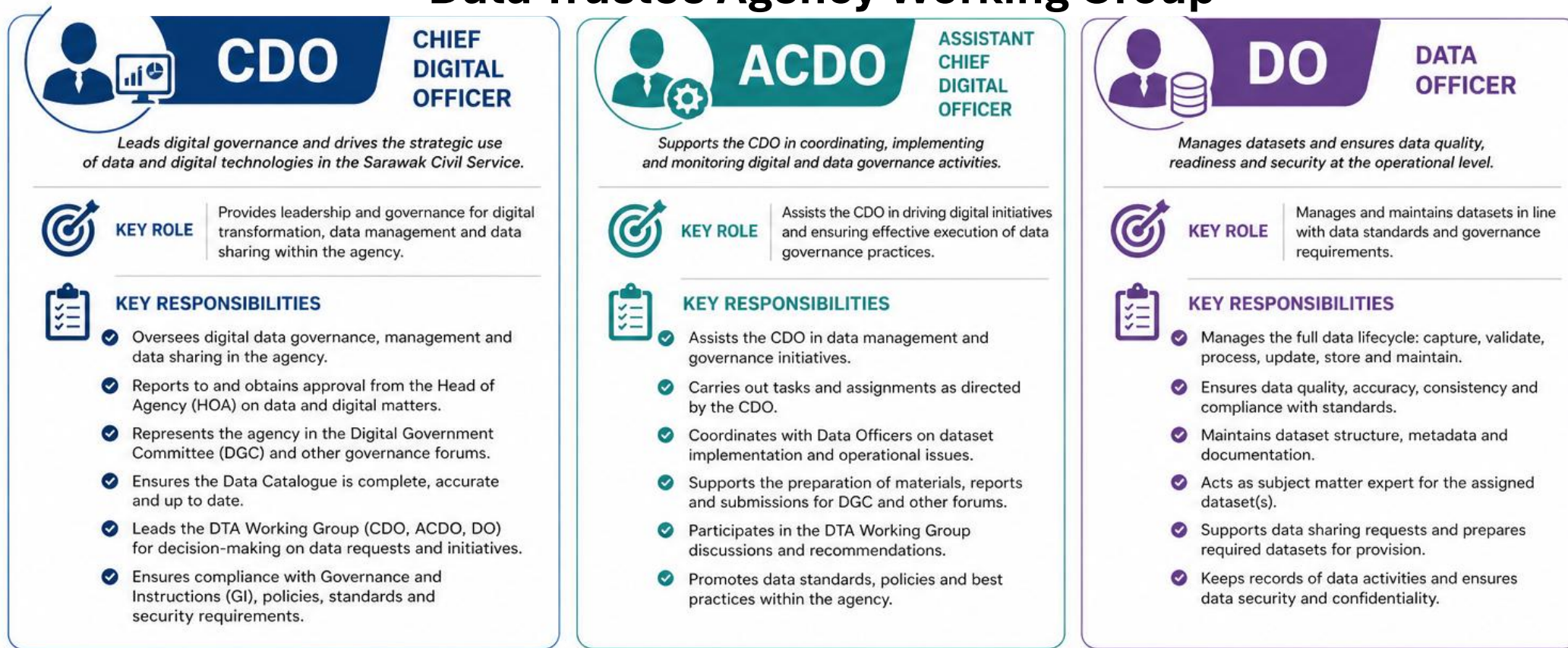


A single, trusted catalogue of agency data for the Sarawak Civil Service.

ROLES & RESPONSIBILITIES

IN THE SARAWAK CIVIL SERVICE

Data Trustee Agency Working Group



REPORTING & WORKING RELATIONSHIP



All roles shall comply with the Governance and Instructions (GI), policies, standards, data security, privacy and all applicable laws of the State of Sarawak.



HOW DO WE GET THE DATA THAT HAS BEEN CATALOGUED?



Sarawak Data Management System

Search dataset name or tag

Advance Search

30%

80%

Statistics

Top Agencies with most Dataset



Department of Veterinary Services
Sarawak



State Public Service Commissions



Sarawak Research And
Development Council



Ministry of Utility and
Telecommunication Sarawak



Department of Agriculture
Sarawak

Sarawak Data Management System (SDMS):



Keyword :

Type to search...

No.	Dataset Name	Data Trustee Agency	Category	Published Date	Total Downloads
1	DVSS TALIKHIDMAT SUMMARY	Department of Veterinary Services Sarawak		14/08/2025	3
2	DVSS DEER POPULATION IN SARAWAK	Department of Veterinary Services Sarawak		14/08/2025	1
3	DVSS RABIES SAMPLING RECORD	Department of Veterinary Services Sarawak		14/08/2025	1
4	DVSS SUMMARY SAMPLING SAMPLED - ND	Department of Veterinary Services Sarawak		14/10/2025	0
5	Duck Population in Sarawak	Department of Veterinary Services Sarawak		15/11/2024	0
6	Chicken Population in Sarawak	Department of Veterinary Services Sarawak		15/11/2024	0
7	Deer Population in Sarawak	Department of Veterinary Services Sarawak		15/11/2024	0
8	Pig Population in Sarawak	Department of Veterinary Services Sarawak		15/11/2024	0
9	Dairy buffalo Population in Sarawak	Department of Veterinary Services Sarawak		15/11/2024	0
10	Beef buffalo Population in Sarawak	Department of Veterinary Services Sarawak		15/11/2024	0

Showing 1 to 10 of 94 entries



1

2

3

4

5

...

10



A new version is now available - click



SCS Workspace / SDMS

SDMS

Dashboard

Business Terms
Glossary

Master Data
Category

Dataset

Data Trustee Details

Data Trustee Agency (DTA) ⓘ * Department of Veterinary Services Sarawak

Originator / Creator ⓘ

Key Contact Person ⓘ

Telephone

Fax

Email

Dataset Details

Category

Dataset Title

Chicken Population in Sarawak

Business Term

A new version is now available - click here



SCS Workspace / SDMS

SDMS

Dashboard

Business Terms
Glossary

Master Data
Category

Dataset

System
Profile

Dataset Details

Category

Dataset Title

Chicken Population in Sarawak

Business Term

Master Data Category

Dataset Abstract/Description

Statistics on livestock population chicken

Supplemental Information ⓘ

Purpose

To monitor the population of farmers' livestock chicken

Data Format Specification ⓘ

Semi Digital

Format Type

pdf

Dataset Credit ⓘ

Native Dataset Environment Description ⓘ

Access Constraint ⓘ

Open Data for online sharing with the public

Use Constraint ⓘ

Maintenance and Update Frequency ⓘ

Annually

Last Updated Date

15/11/2024



SARAWAK GOVERNMENT

Open Data Portal

Here you will find publicly open government datasets

Try keywords like: "Data", "sarawak", "kumbahan", "RM", "Government"



Advanced

Browse Topics



Agriculture



Economy



Education



Environment



Gov & Public Sector

Sarawak Open Data Portal
- <https://data.sarawak.gov.my/>



Filters

Topics



- 12 Agriculture
- 80 Economy
- 12 Education
- 9 Environment
- 31 Gov & Public Sector
- 2 Health
- 7 Infrastructure
- 3 Law & Security
- 22 Local Government
- 15 Society
- 9 Travel & Tourism
- 26 Utilities

Search for dataset

Advanced

Datasets

189 datasets found



Sort by: Relevance ▾

Sarawak Sports Corporation Facilities Details

Sarawak Sports Corporation

Sports Facilities Information

XLSX

CSV

Published Date: 17 Apr 2018 Total Downloads: 116

List of Totally Protected and Protected Animals in Sarawak

Sarawak Forestry Corporation

List of Totally Protected and Protected Animals from the Wild Life Protection Ordinance, 1998 (Chapt...

XLSX

DOCX

Published Date: 19 Apr 2018 Total Downloads: 298 Update Frequency: 3 years

24

What Should We Do Now? (As Users)

Here are the key actions we can take as normal LDAP users to start using data effectively.



1. Ensure you have system access (LDAP)

Make sure you have the necessary LDAP access to use SDMS and other data platforms.



2. Explore available datasets

Browse and discover datasets available in SDMS / Open Data Portal.



3. Request data through proper channels

Submit data requests to data owners and follow the approval process.



4. Use data to support your work and decisions

Apply data responsibly to deliver better services and outcomes.



Each of us plays a role in turning data into better decisions for Sarawak.

25 Access to the System

Ensure you have the right access to securely use SDMS and other data platforms.

Either Join Dtawg on you agencies



1 Have a valid LDAP account

Use your official LDAP account provided by your organisation.



2 Log in to SDMS / Open Data Portal

Access the system using your LDAP credentials.



3 Follow access policies

Access is based on your role and data classification.



4 Request additional access if needed

Submit a request to your Data Officer / Admin for approval.



Protect your account and data.

Do not share your login credentials.

27

Using Multiple Datasets

Combine data from different sources to get a complete picture.



1. Identify related datasets

Find datasets from SDMS / Open Data that are relevant to your work.



2. Combine data across agencies

Integrate data from different sources to create a more comprehensive dataset.



3. Ensure consistency & quality

Check data standards, formats and definitions for accurate and reliable data.



4. Generate better insights

Use combined data to uncover trends, patterns and insights for better decisions.

From Multiple Sources...



Agency A Dataset



Agency B Dataset



Agency C Dataset



Other Sources Dataset



To Better Decisions



More Complete View



Better Decisions



More Efficient Services



Better Outcomes for Sarawak



One dataset can tell you something.
Multiple datasets can tell you **the full story**.



Combine data. Understand more. Deliver better.

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Tools for Data Usage

We have a range of tools to access, analyse and visualise data to support better decisions.



1. SDMS

(Sarawak Data Management System)

- Manage, catalogue and govern data
- Submit and request data securely



The Official Portal of
Sarawak Data

2. Open Data Portal

- Access open datasets published by Government
- Explore, search and download data



3. Analytical Tools

(Excel, Power BI, etc.)

- Prepare, clean and analyse data
- Create reports, dashboards and insights



4. Dashboards & Applications

- Visualise data for monitoring and reporting
- Support data-driven decision-making



From Data to Impact

These tools work together to turn data into valuable insights.



Access

Get the data you need



Analyse

Explore and understand the data



Visualise

Present data in a meaningful way



Decide

Make informed decisions and drive better outcomes



The right tool, used the right way, **turns data into better decisions for Sarawak.**

YOUR ROLE IN DATA-DRIVEN GOVERNMENT

Better data. Better decisions. Better outcomes for Sarawak.



AS A USER

Access, request and use data to support your work.



Access Data

Search and access data through SDMS / Open Data Portal.



Request Data

Request data securely through proper channels and processes.



Use Data

Use data responsibly to support analysis, reporting and decision-making.



AS A CONTRIBUTOR

Contribute to quality data for a stronger Sarawak.



Participate

Take part in data programmes (DDW, DCW, DPW) and activities.



Contribute

Help catalogue, update and improve your agency's data.



Support

Support your agency's data initiatives and uphold data quality and governance.



BE PART OF DTAWG

Join us in building a connected and trusted data ecosystem.



Join and Contribute

Everyone is encouraged to join DTAWG as a data champion.



Collaborate

Work together across agencies to share knowledge and solutions.



Make an Impact

Help build a stronger, more reliable and accessible data ecosystem for Sarawak.



Together, let's leverage data to drive better decisions and create better outcomes for all Sarawakians.

DTAWG

DATA TRUSTEE AGENCY
WORKING GROUP



ACCESS. CONTRIBUTE. COLLABORATE. MAKE A DIFFERENCE.

Stronger Data, Stronger Sarawak.

Thank You

Q & A