



Conference

Organised By



The Business Technology Architect Association

Localise the SDGs Initiatives Using The Enterprise Architecture (EA) Approach

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Supporting Partners:



Presentation Outline

- **The Context of SDG-17 Goals to Malaysia**
- **Importance of Data to the sustainability agenda**
- **Relevance of Enterprise Architecture (EA) in establishing SDG data**
- **Malaysian Government Enterprise Architecture (MyGovEA) initiative**
- **Moving forward – Sustainable Development Data**

The Context of Sustainable Development Goals (SDG-17 Goals) to Malaysia

- 1. We need data on family and income status
- 2. We need data on foods demand & supply
- 3. We need data on healthcare and lifestyle
- 4. We need data on education status result
- 5. We need data on gender employment
- 6. We need data on clean water supply
- 7. We need data on energy usage consumption
- 8. We need data on GDP and Employment level



- 9. We need data on industry & transportation
- 10. We need data on jobs and income level
- 11. We need data on landscape and population
- 12. We need data on wastage and energy usage
- 13. We need data on satellite weather climate
- 14. We need data on marine live and fishery
- 15. We need data on flora and fauna
- 16. We need data on criminal and justice
- 17. We need data on social activities and events

Aligning SDG to 12th Malaysia Plan (RMKe-12)

Each of the 17 goals is further assigned targets that are quantified and decomposed into multiple indicators. In short, the SDGs provide an excellent **foundation for strategic performance management.**

Twelfth Malaysia Plan: Selected Targets



Our Performance

SUSTAINABLE DEVELOPMENT REPORT 2022



SDG Dashboards and Trends

Click on a goal to view more information.



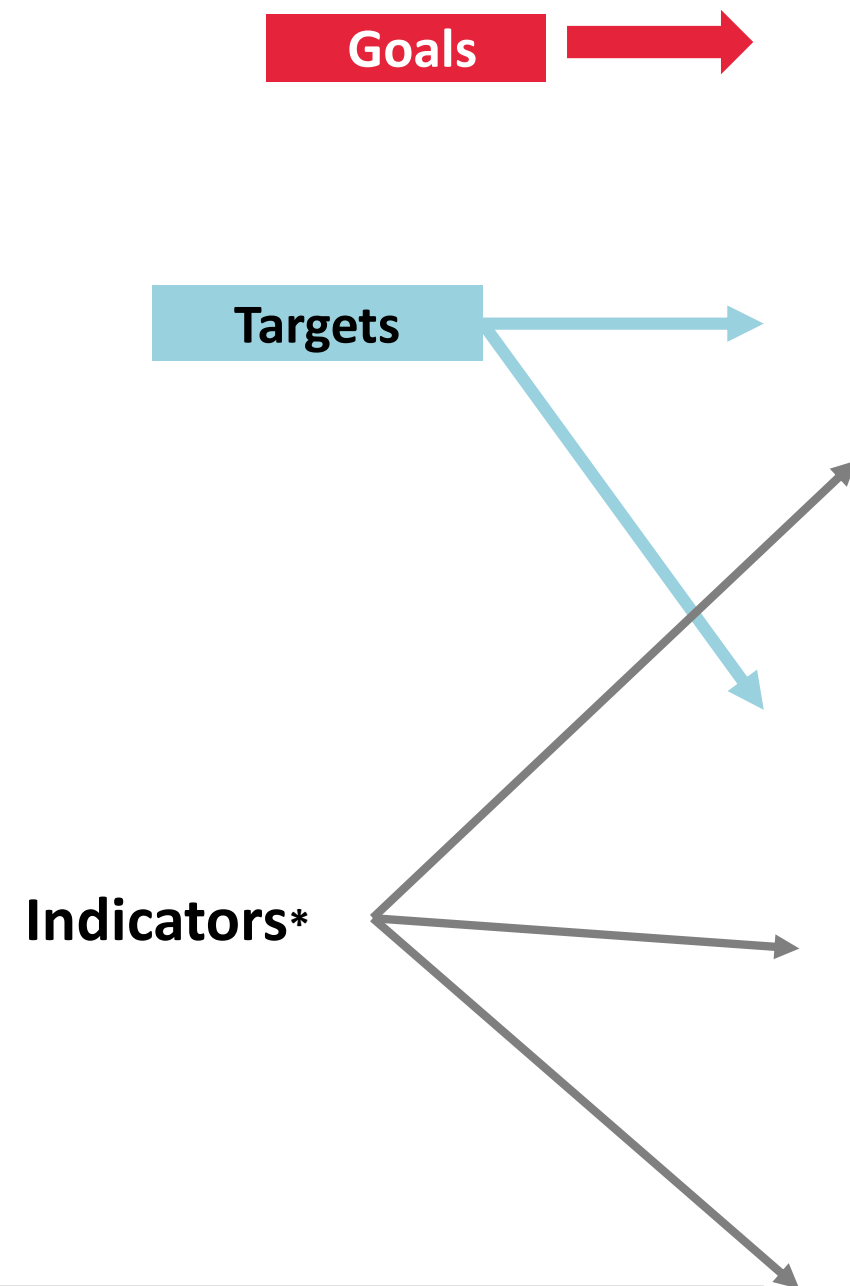
Dashboards: ● SDG achieved ● Challenges remain ● Significant challenges remain ● Major challenges remain ● Information unavailable

Trends: ↑ On track or maintaining SDG achievement ↗ Moderately improving → Stagnating ↓ Decreasing •• Trend information unavailable

The compilation of the indicators is based on **statistics from DOSM, surveys outcome and as well as administrative records from 36 agencies/ministries.**

Data.... Data... Data...

Robust data management is fundamental for achieving the Sustainable Development Goals. Without data it's impossible to identify where we stand, and where we aspire to be. It provides us with the knowledge to tackle global challenges in a targeted and efficient way. Each of the 17 goals is further assigned targets that are quantified and decomposed into multiple indicators.

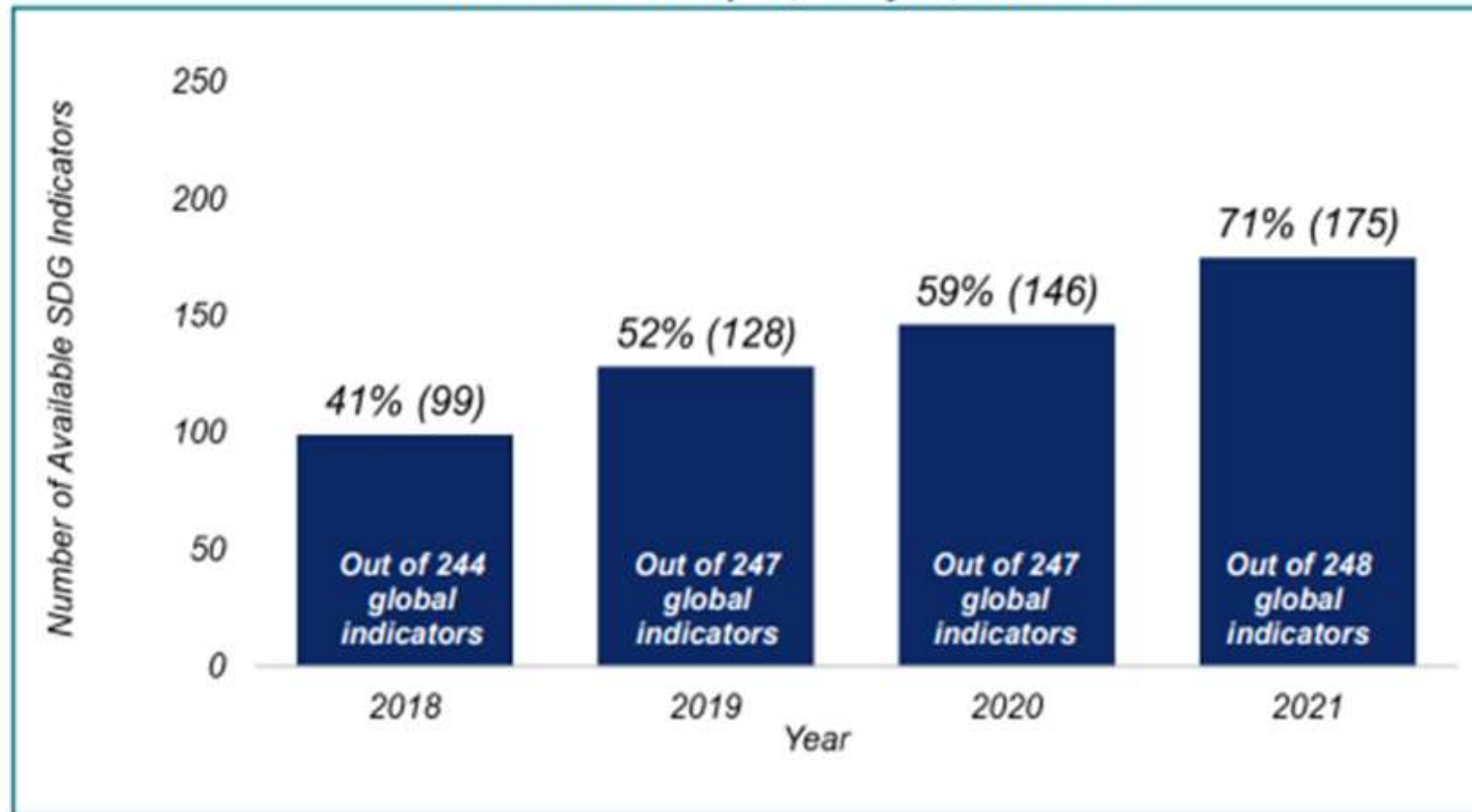


Matlamat/ Sasaran/ Indikator Goal/ Targets/ Indicators	Status indikator Status of Indicators	Sumber Sources
Matlamat 1 - Menamatkan semua jenis kemiskinan di seluruh dunia Goal 1 - End poverty in all its forms everywhere		
Jumlah/ Total: 13 i. Tersedia/ Available: 8 •Tersedia Sepenuhnya/ Fully Available: 2 •Proksi/ Proxy: 3 •Sebahagiannya Tersedia/ Partially Available: 1, •Indikator dengan penjelasan/ Indicators with explanation: 2 ii. Sebahagiannya Tersedia, Perlu Dibangunkan/ Partially Available, Need Further Development: 3 iii. Tidak Tersedia/ Not Available: 2		
Sasaran 1.1: Menjelang 2030, membasmi kemiskinan tegar semua manusia di seluruh dunia, yang kini diukur dengan kos sara hidup kurang daripada \$1.25 sehari		
<i>Target 1.1: By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day</i>		
1.1.1 Peratusan penduduk yang hidup di bawah paras kemiskinan antarabangsa, mengikut jantina, umur, status pekerjaan dan lokasi geografi (bandar/luar bandar)	Tersedia (Proksi)	Survei Pendapatan Isi Rumah dan Kemudahan Asas, DOSM
Proksi: Peratusan isi rumah yang hidup di bawah paras kemiskinan antarabangsa mengikut negeri dan jantina ketua isi rumah <i>Proportion of the population living below the international poverty line by sex, age, employment status and geographic location (urban/rural)</i> Proxy: Proportion of households living below the international poverty line by state and sex of head of households	Available (Proxy)	Household Income and Basic Amenities Survey, DOSM
Sasaran 1.2: Menjelang 2030, mengurangkan sekurang-kurangnya separuh daripada jumlah lelaki, wanita dan kanak-kanak di semua peringkat umur yang hidup dalam semua dimensi kemiskinan menurut takrif nasional		
<i>Target 1.2: By 2030, reduce at least by half the proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions</i>		
1.2.1 Peratusan penduduk yang hidup di bawah paras kemiskinan nasional, mengikut jantina dan umur	Tersedia (Proksi)	Survei Pendapatan Isi Rumah dan Kemudahan Asas, DOSM
Proksi: Peratusan isi rumah yang hidup di bawah paras kemiskinan nasional mengikut negeri dan jantina ketua isi rumah <i>Proportion of population living below the national poverty line, by sex and age</i> Proxy: Proportion of households living below the national poverty line by state and sex of head of households	Available (Proxy)	Household Income and Basic Amenities Survey, DOSM
1.2.2 Peratusan lelaki, wanita dan kanak-kanak di semua peringkat umur yang hidup dalam semua dimensi kemiskinan mengikut takrif nasional	Tersedia	Survei Pendapatan Isi Rumah dan Kemudahan Asas, DOSM
<i>Proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions</i>	Available	Household Income and Basic Amenities Survey, DOSM

*175 available indicators for Malaysia, 2021

SDG Indicators Availability MALAYSIA

Chart 1: Availability Status of National SDG Indicators based on SDG Indicators Report, Malaysia, 2018-2021



The global indicator framework was adopted by the UN General Assembly in resolution 71/313 comprises of 244 global indicators designed to measure the **17 goals** and **169 targets**.

During the 51st Session of United Nation Statistical Commission in March 2020, the indicator framework has been reviewed and comprehensive review of **247 indicators** has been adopted and revised to **248 indicators** (revised during 53rd United Nations Statistical Commission session in March 2022).

SDGs Data Challenges

DATA READINESS. Data readiness assessment is a key principle to ascertain Malaysia's readiness in implementing the SDGs.

DATA QUALITY. While more than 70 agencies were identified as data providers, every agency has its own set of boundaries and areas of authority, as well as limitations in compiling data to fulfil its main functions..

TIMELINESS IN PRODUCING AND SHARING DATA. Most available indicators are not regularly collected by agencies, and there is a general lack in time-series data. Too often, the existing data remain unused because they were released too late or not at all, not well-documented and harmonised, or not available at the level of detail needed for decision making.

DATA DISAGGREGATION. Data is often insufficiently disaggregated at state and district levels, for urban and rural areas, and for small area statistics such as locality areas and insufficient information on the social demographic characteristics

DATA RESOURCES AND CAPACITY. The implementation of the SDGs will need full commitment, cooperation and collaboration from various agencies.

NO INTEGRATED DATABASE SYSTEM AND CONVENTIONAL RECORDS BY AGENCIES. There are issues on compiling data due to system limitations of being built for a specific and internal purpose and not well integrated for data sharing. The Internet of Things (IoT) has been and will continue to be a fundamental driver of the data revolution for the SDGs.



Data For What?

Improved Decision-Making and Policy

Increased Citizen Empowerment

Increased Innovation and Entrepreneurship



**To Achieve and Monitor
Sustainable Development**

Harnessing the Data Revolution

“Data is the Oil of the 21st Century”



- Supporting and complementing **government** and civil society efforts to generate data for statistics for the formal SDG monitoring framework
- Unleashing **innovation** in production, accessibility and use of real-time, dynamic, disaggregated data from multiple sources

Introduction to MyGovEA, A Government Enterprise Architecture Initiative since 2015

- Government Enterprise Architecture defined as a **whole of government approach** to support **government ecosystems** by transcending boundaries for delivering services in a coordinated, efficient and equitable manner.

- MyGovEA has a **framework** and **methodology** for guiding the public sector agencies in Malaysia in building EA practices. The primary aim of MyGovEA is to provide a common approach, steps and templates to ensure consistent method of EA development in the public sector.

- MyGovEA will define a **new way for public sector** agencies to approach business and technology challenges. With the adoption of EA practices, agencies will establish a single view of the current business and technical environment of the



2018 Bangalore Awards Winners

Name	Award Type	Country
23 National Housing Department (JPN) [Photo]	Award of Distinction	Malaysia
24 Ministry of Urban Wellbeing, Housing and Local Government, Malaysia (KPKT) [Photo]	Award of Distinction	Malaysia
25 Moneylenders and Pawnbrokers Division(BPWG) [Photo]	Award of Distinction	Malaysia
26 Ministry of Urban Wellbeing, Housing and Local Government, Malaysia (KPKT) [Photo]	Award of Distinction	Malaysia



2018 Bangalore Awards Winners

MAMPU's 1GovEA is an example of driving Enterprise Architecture for a central government by leveraging the TOGAF® Architecture Development Method.

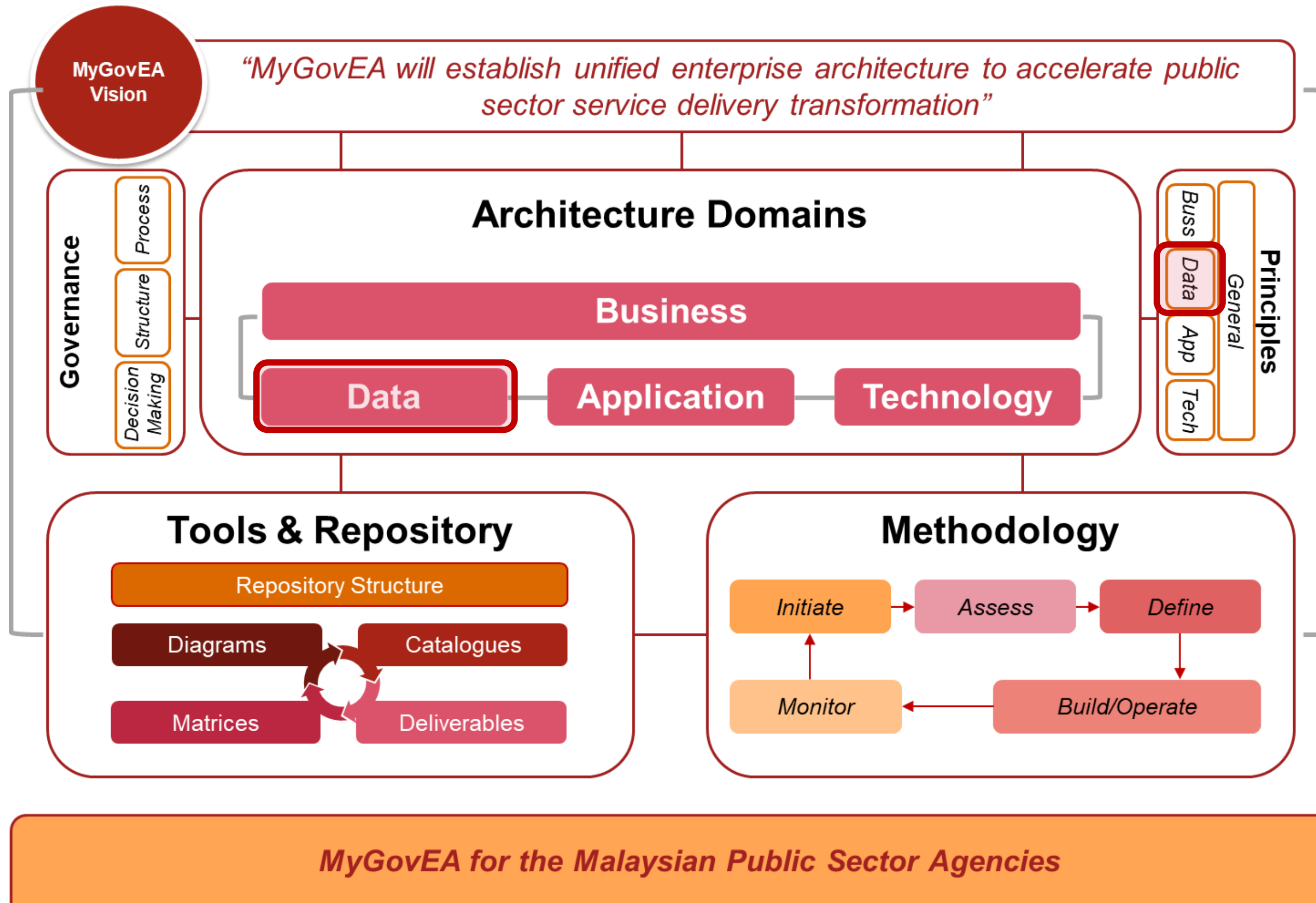
The core team ensured that the business objectives, financial commitment and capability building remained the focus areas during this transformation, which led to successful implementation and realization of benefits.



MYGOV EA

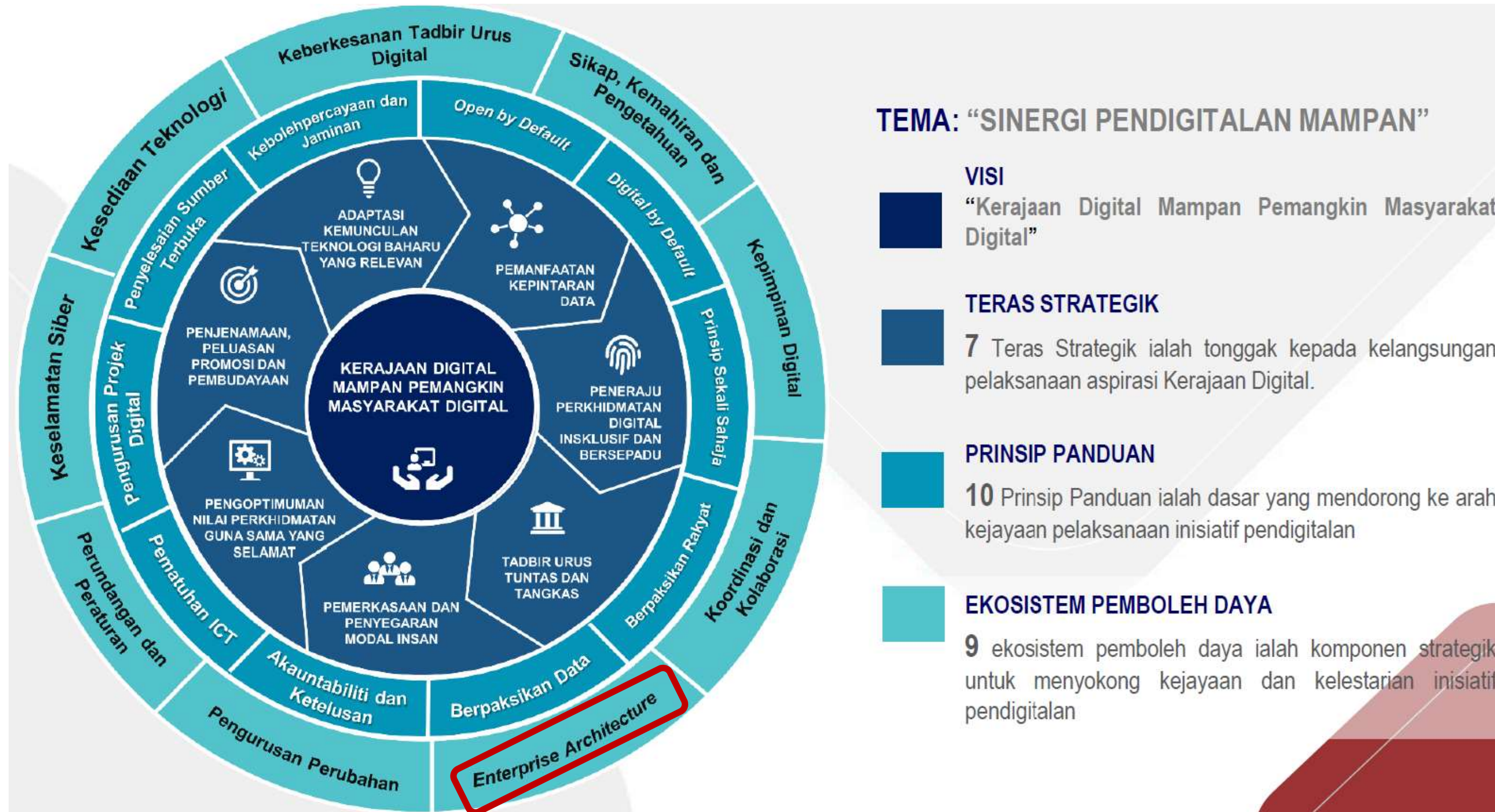
MALAYSIA GOVERNMENT ENTERPRISE ARCHITECTURE 11

MyGovEA Framework

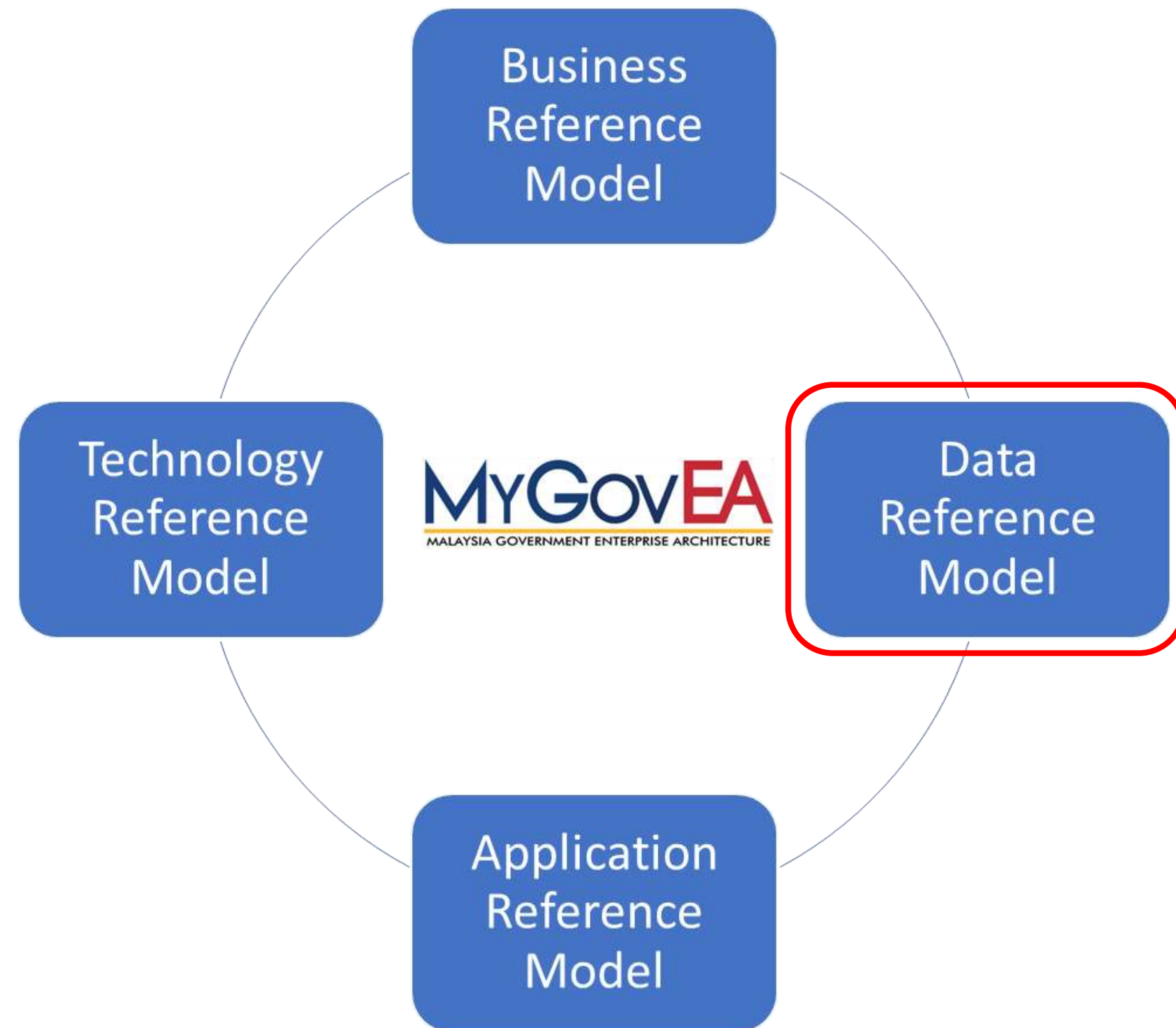


Public Sector Digitalisation Strategic Plan 2021 -2025 (PSPSA)

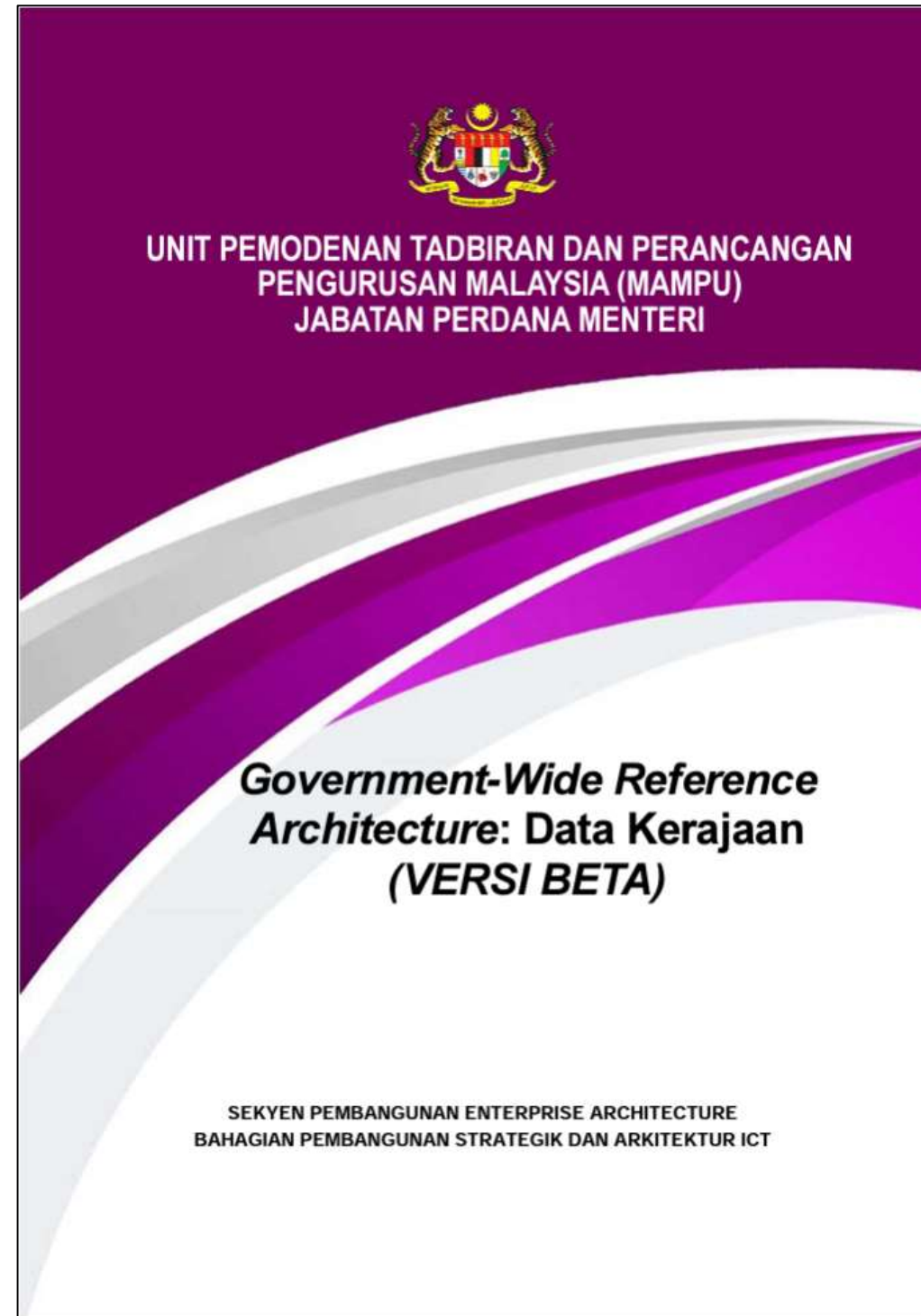
SDGs provide a performance based, business oriented foundation to government digitalisation transformation and enterprise architecture initiatives



MyGovEA : Public Sector Reference Model



Government-Wide Reference Architecture: Data Kerajaan (Beta Version)



Government Data Clusters

SEKTOR EKONOMI

PERTANIAN & INDUSTRI MAKANAN	Bekalan Makanan	Senarai Kuarantin Pertanian	Keselamatan & Kesihatan Makanan	Pembangunan Tanah	Pengawal selia Industri		
PERDAGANGAN & INDUSTRI	Maklumat/ Data industri	Data Perdagangan	Daftar Perniagaan	Kawalan Harga	Perladangan & Komoditi	Pengawal selia Industri	R&D
PENYIARAN & MAKLUMAT	Industri Kreatif		Infrastruktur	Pengawal selia Industri		R&D	
EKONOMI, R&D	Program Pembangunan		Program Penyelidikan		Infrastruktur		
PELANCONGAN & KEBUDAYAAN	Pelancongan	Seni & Budaya	Pemeliharaan Warisan		Infrastruktur	Pengawal selia Industri	

SEKTOR SOSIAL

KESIHATAN	Daftar Ubat	Senarai Kuarantin	Daftar Pesakit	Daftar Penyakit	Keselamatan & Kesihatan Makanan	Infrastruktur	R&D
PENDIDIKAN, LATIHAN & PEKERJAAN	Pembinaan Kapasiti	Daftar Pelajar	Daftar Pengajar	Bantuan Kewangan	Daftar Pekerja	Infrastruktur	
BELIA & SUKAN	Program Belia & Sukan				Infrastruktur		
PEMBANGUNAN KESEJAHTERAAN & PERPADUAN	Repositori Kebajikan		Perkhidmatan Kecemasan		Infrastruktur	Pembangunan Tanah	

SEKTOR INFRASTRUKTUR

PENGANGKUTAN	Kenderaan	Sistem Pengangkutan		Daftar Pemandu	Institusi Memandu
PEMBANGUNAN KOMUNITI & LUAR BANDAR	Industri Luar Bandar			Infrastruktur	Pembangunan Tanah
PERUMAHAN & KERAJAAN TEMPATAN	Maklumat Perumahan	Perumahan Kos Rendah	Maklumat Tanah	Infrastruktur	Pembangunan Tanah
KEMUDAHAN AWAM & ALAM SEKITAR	Sumber Bekalan Air		Alam Sekitar		Pembangunan Tanah

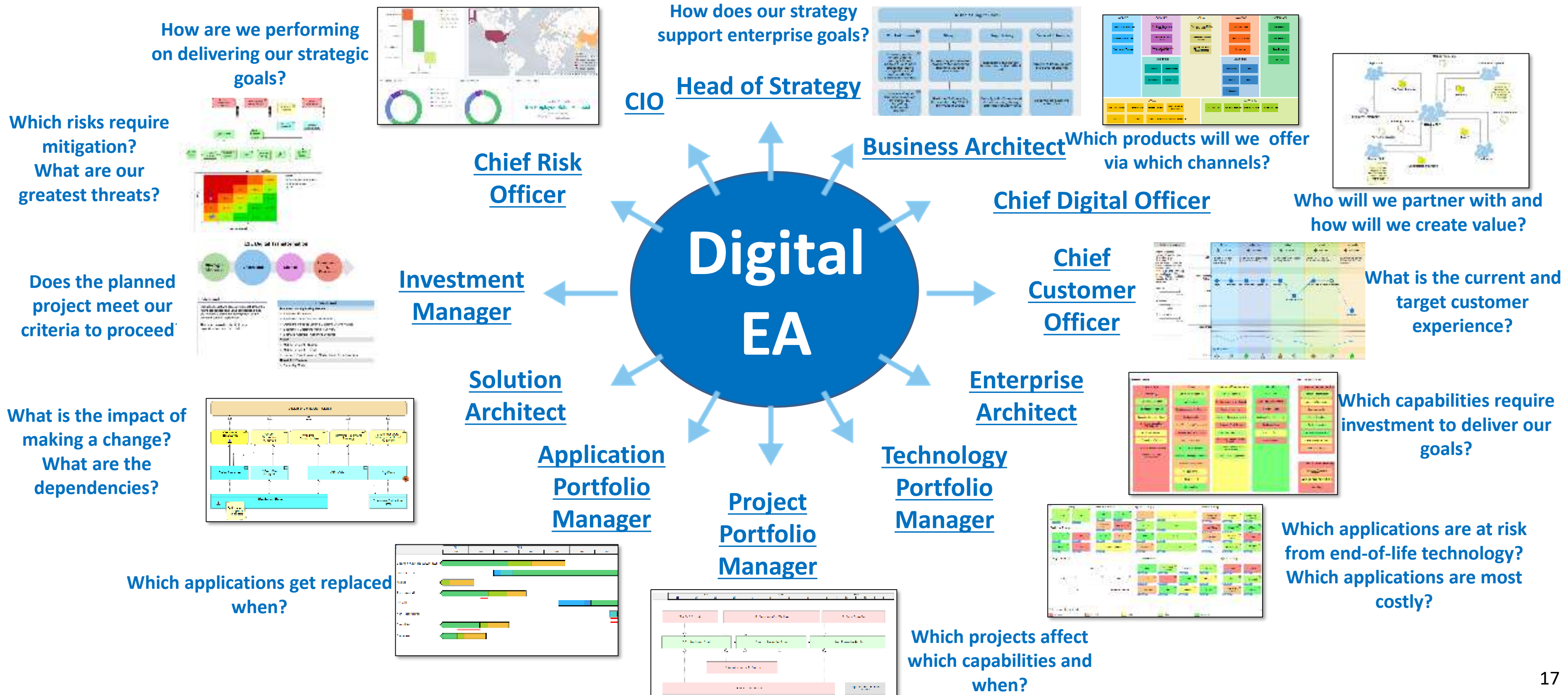
SEKTOR KESELAMATAN

KESELAMATAN DALAM NEGERI (Dalam & Luar Negara)	Daftar Penduduk	Imigresen	Permit Pekerjaan	Pandemik Kesihatan	Penguatkuasaan Keselamatan Negara	Infrastruktur	
PERTAHANAN	Pengurusan Ketenteraan		Industri Pertahanan		Infrastruktur	R&D	
KOMUNIKASI, TENAGA & SUMBER ASLI	Perkhidmatan Komunikasi	Teknologi Hijau	Sumber Asli	Pengawal selia Industri		Infrastruktur	R&D

SEKTOR JPM / PENTADBIRAN AWAM

PENTADBIRAN AWAM	Kewangan & Perolehan	Sumber Manusia	Pentadbiran Am	Dasar Negara	Hubungan Antarabangsa
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Digital EA facilitate a Single Source of Truth on all Aspects of Information Across Divisions and Agencies



Harnessing The Power of Data for Sustainable Development

New approaches to capacity development for better data

The goal now is to mainstream **data innovations** into official statistical production processes and focus more sharply **on users' needs**

Innovations and synergies across data ecosystems

Public-private partnerships are enabling the use of **open data, big data** and other non-traditional data sources in policymaking by mainstreaming their use in official statistics

Leave no one behind

Public-private partnerships are enabling the use of big data and other non-traditional data sources in policymaking by mainstreaming their use in official statistics

Understanding the world through data

Data visualization and storytelling can connect users with data on sustainable development, enabling them to discover, understand, and facilitates data exploration and processing for **evidence-based decision-making** and advocacy.

Data principles and governance

Data architecture, standards and best practices need to evolve in parallel with available technology and users' needs through ongoing engagement and recognizing the policy context for the **SDG data ecosystem**.



Moving Forward – Sustainable Development Data

- **Data Roadmaps** for Sustainable Development to develop and implement **whole of government** and **multi-stakeholder** data roadmaps for harnessing the data revolution for sustainable development, with particular emphasis on the SDGs and local priorities articulated in national plans
- Ensure availability of **Data Architecture** in all Ministries and Agencies to make data more accessible and user friendly for stakeholders as part of enhancing development on sustainability
- Strengthen **data readiness** and filling data gaps to develop a comprehensive dataset for SDG implementation



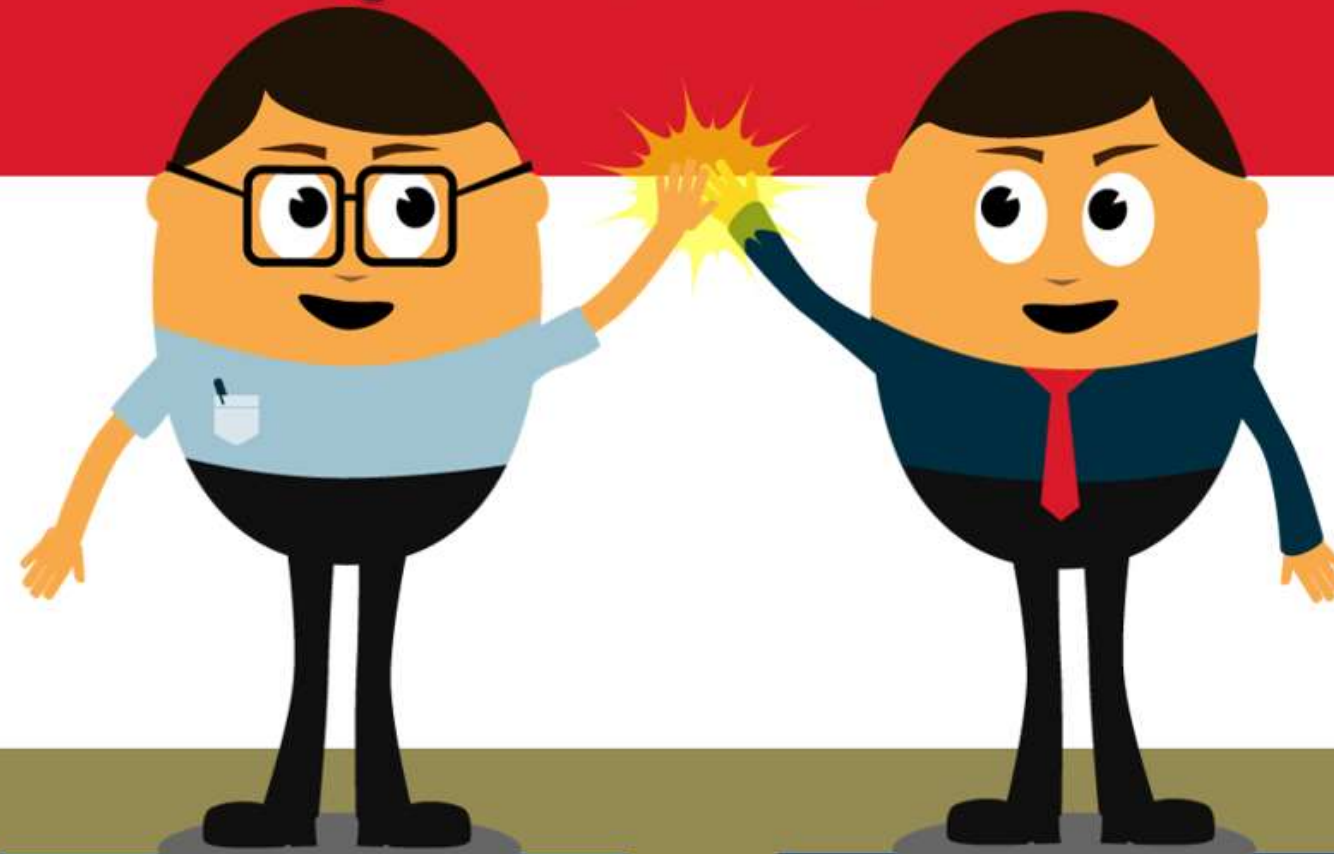
END OF PRESENTATION

“Leave **NO ONE** behind”



“Leave **NO DATA** behind”

**Driving Digital
Transformation through
Enterprise Architecture**



Mr. Tech

Mr. Biz