



MAMPU
TOGETHER WE TRANSFORM

GE 
SMART
ASIA 2015

GEOSPATIAL DATA MANAGEMENT

A collaborative approach

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COLLABORATIVE APPROACH FOR GEOSPATIAL DATA



MALAYSIAN CONTEXT

Moving forward Eleventh Malaysia Plan, 2016-2020



In the Eleventh Plan, the Government will become more citizen centric and focus on enhancing productivity and efficiency of the public service.

Focus area A Enhancing service delivery with citizens at the centre

Strategy A3

- **Leveraging data to enhance outcomes and lower costs Proliferating open data among agencies**
- **Encouraging cross-agency data sharing**
- **Leveraging big data analytics**

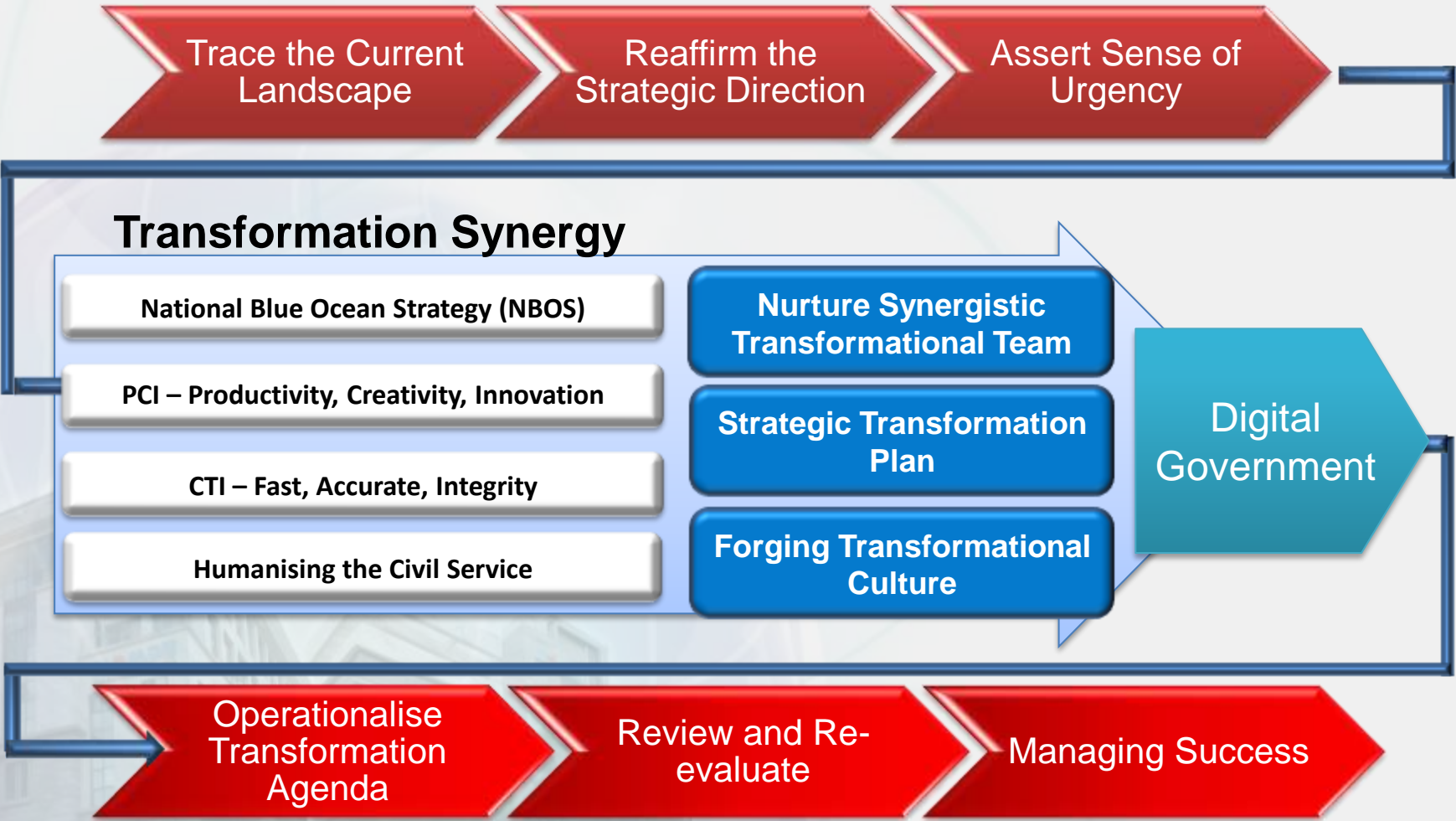
The image is a vertical graphic representing the cover of the Eleventh Malaysia Plan. At the top is the Malaysian coat of arms. Below it, the text 'ELEVENTH MALAYSIA PLAN' is written in large, bold, black capital letters. Underneath that, '2016-2020' is written in a smaller font, followed by the tagline 'ANCHORING GROWTH ON PEOPLE' in an even smaller font. At the bottom of the graphic are six stylized human figures in different colors (orange, yellow, purple, green, red, blue) representing diversity.

**ELEVENTH
MALAYSIA
PLAN**

2016-2020
ANCHORING GROWTH ON PEOPLE

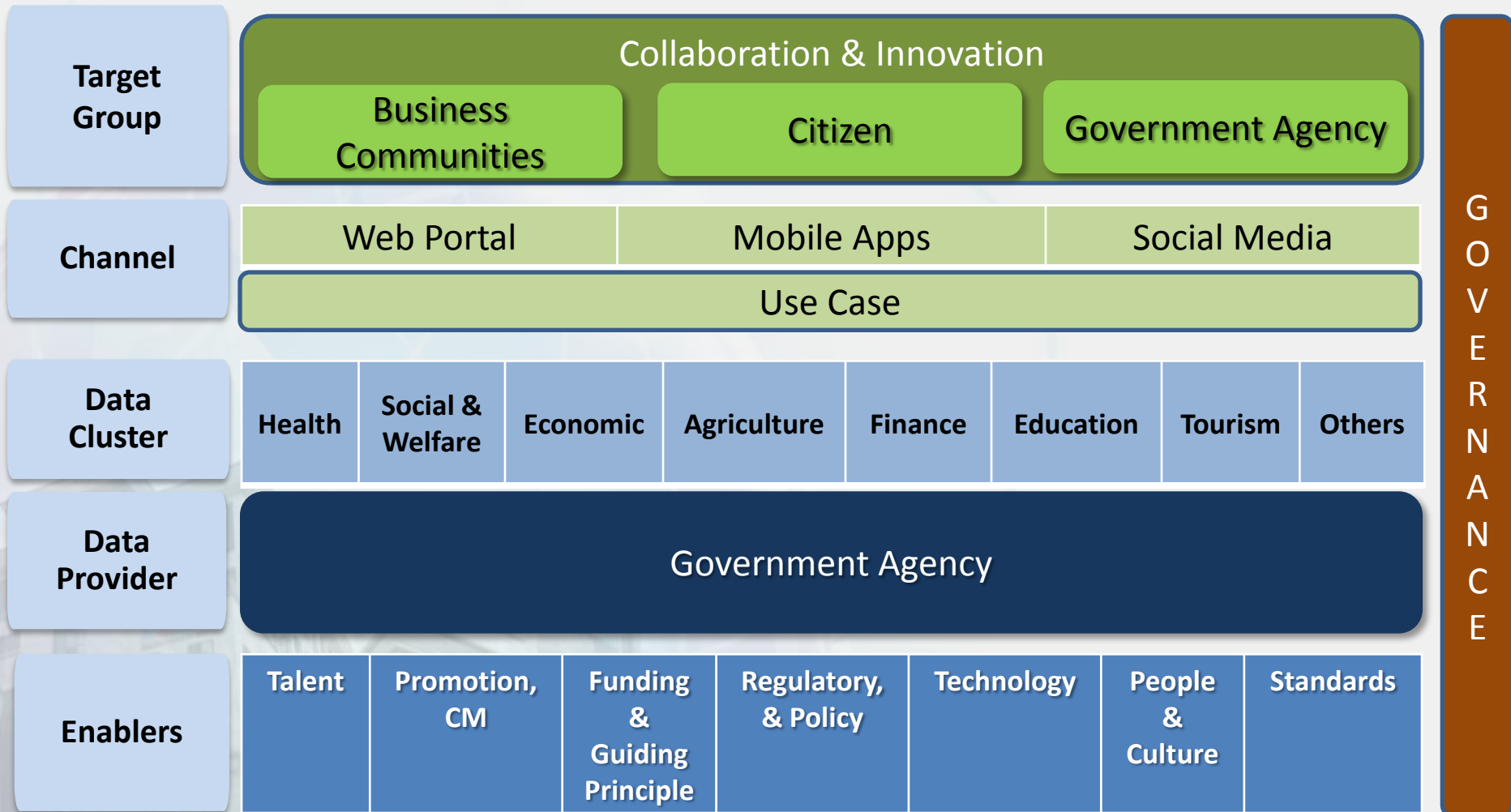


REFORM INITIATIVES



PUBLIC SECTOR OPEN DATA FRAMEWORK

Towards Open Government through Transparency, Participation and Collaboration
by 2020



G O V E R N A N C E

Public Sector Central Data Exchange



Leveraging data from various sources provides a good insights of the locations that are potentially beneficial to businesses

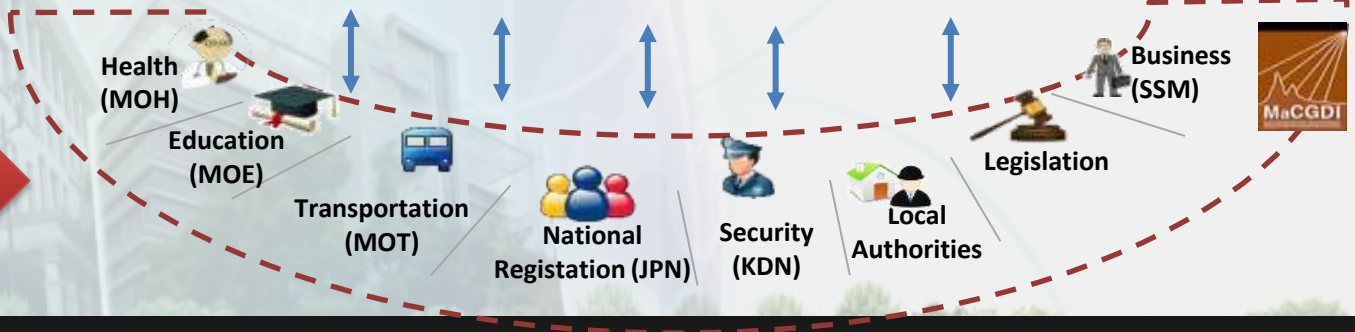
User



Delivery Channel

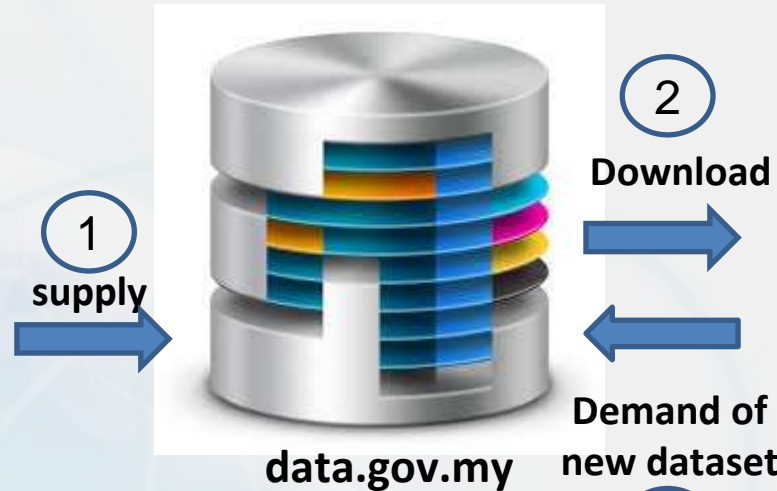


Agency / Data Source

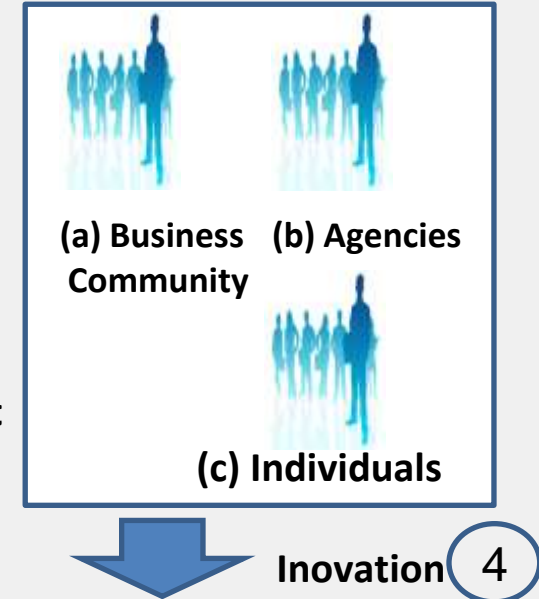


Public Sector Open Data

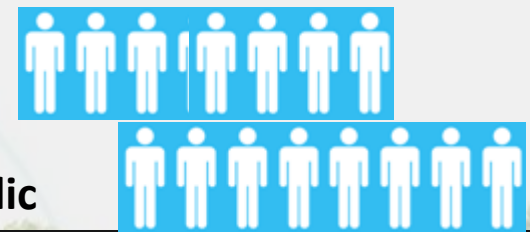
Cluster (Public Sector)



User



“Open data is data that can be freely used, reused and redistributed by anyone”



GEOSPATIAL VALUE PROPOSITIONS



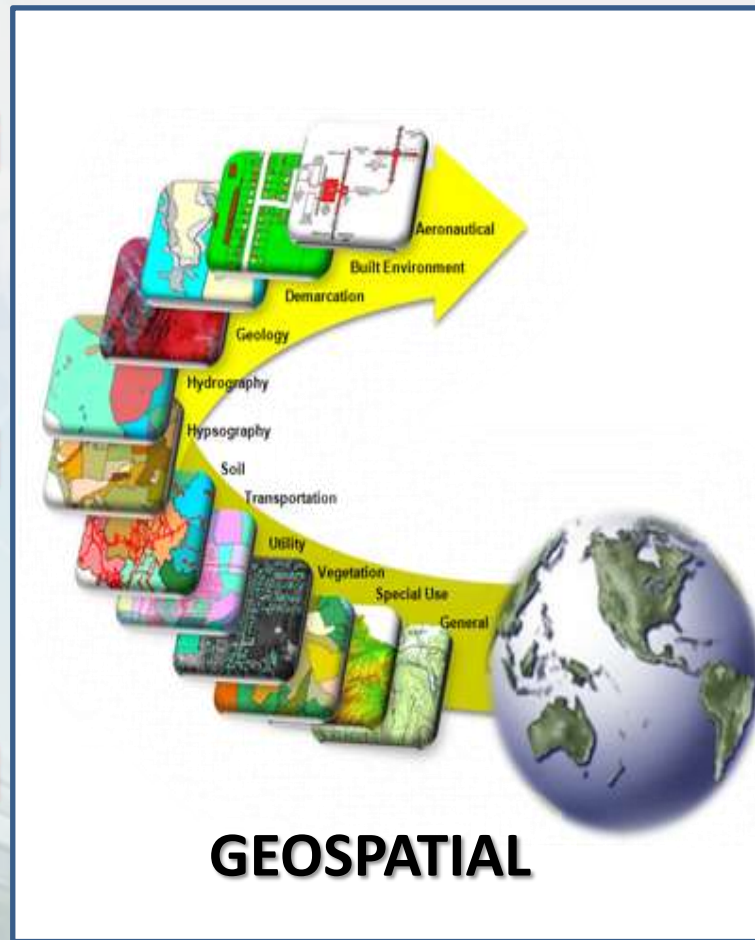
Governance



Business



Infrastructure



Public Safety



Utilities



Agriculture

Internet of Things (IoT) applications using Geospatial Analytics

- with data coming from sensors and mobile devices these days, the potential for geocoding is getting bigger

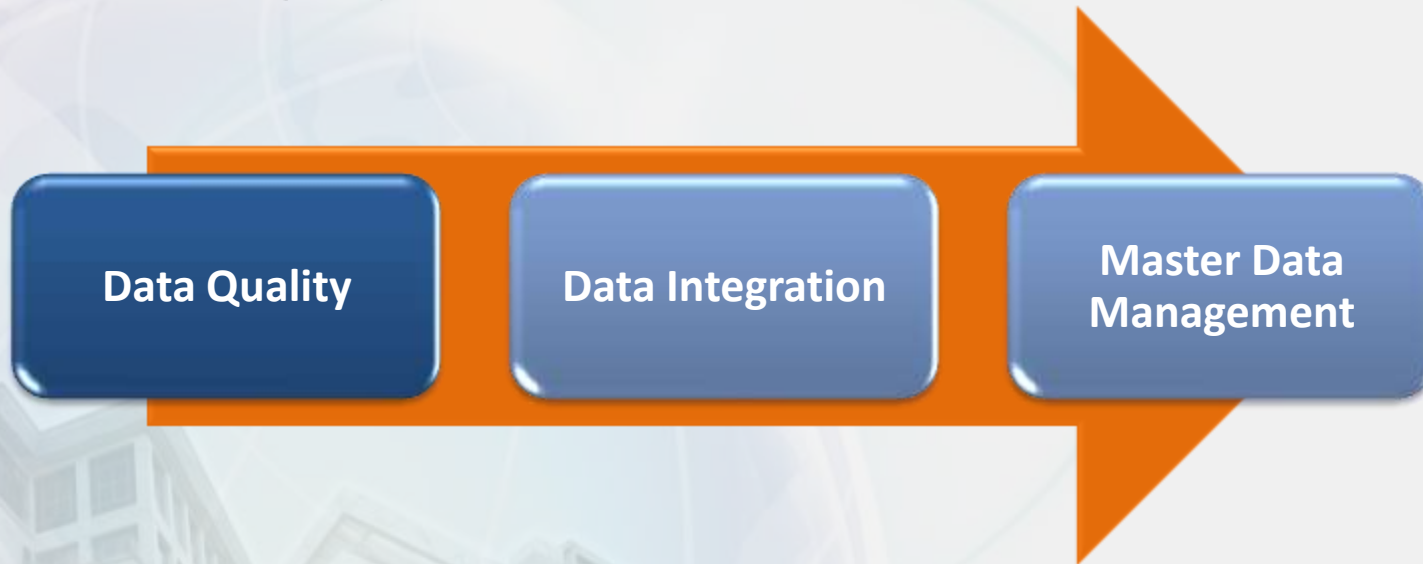
USE CASES

- Smart City/ Effective Local Authority
- Sustainable Environmental Management
- Disaster Management and Emergency Response



Geospatial Data Management

Managing geospatial data as a capital asset is critical to our Nation's ability to be more effective, while minimizing expense.



CONTRIBUTION OF GEOSPATIAL



GLOBAL EXPERIENCE



● The total contribution of geospatial to the Canadian GDP through productivity improvement was estimated at **\$20.7 billion** or 1.1% of the Canadian GDP in 2013

● Estimated impact of open geospatial data to the Canadian economy - **\$ 695 million** in productivity improvement to the GDP



Source : McKinsey Global Institute



➤ Spatial information sector contributed between **\$6.4 billion and \$12.6 billion** to the Australian gross domestic product (GDP)

➤ Restrictions on access to spatial data reduced productivity in some economic sectors by between **5% and 15%**.

➤ With open access to spatial data the Australian GDP could have been about **7% higher** in 2006-2007

A 2008 report prepared for the CRCSI & ANZLIC by ACIL Tasman



➤ Spatial information added at least **\$1.2 billion**, or about **0.6% of GDP**, to the New Zealand economy through productivity gains

➤ A 2009 study sponsored by Land Information New Zealand (LINZ), the Department of Conservation (DOC) and the Ministry for Economic Development (MED)





➤ the geospatial information industry directly contributed **€69.3-million** (Gross Added Value) to the Irish economy in 2012

➤ estimated economic value of annual time savings through the use of geospatial information is **€279 million** or about **0.6 %** of the Irish GDP.

A study commissioned by Ordnance Survey Ireland (OSi)

➤ The geospatial services industry in the United States generates annual revenues of \$75 billion

➤ The economic impact of the geospatial services industry on government, business, and consumers is estimated to be **\$1.6 trillion** in revenues (greater efficacy) and **\$1.4 trillion** (about 8.7% of the U.S. GDP) in cost savings (greater efficiency).



A report by the Boston Consulting Group (BCG) published in June 2012

CONCLUSION



IMPERATIVES



1. National Level Governance Framework

2. Geospatial Data Management Enabling Environment

3. Sustainable Collaborative Mechanism

CONCLUSION

Major growth potential
in integrated geospatial
- integrating location
services into various
industries and public
services

To enable the geospatial
sector to grow, the
geospatial community
needs to act collaboratively
under strategic governance

Thank You

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