Achievements and Developments in Geospatial Information Management in Addressing National Issues*

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ACHIEVEMENTS AND DEVELOPMENTS IN GEOSPATIAL INFORMATION MANAGEMENT IN ADDRESSING NATIONAL ISSUES

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Scope of Presentation

- Introduction
- Issues and Challenges
- Current and Future Initiatives
- Achievements and Developments in Geospatial Information Management
- Concluding Remarks
Introduction

Land Area: 329,000 sq. km
Marine Area: 574,000 sq km
No. of Island: 827 islands
No. Geographical Entity: 273 entities
Population: 28 Millions

Malaysia

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Issues and Challenges

We are living in an increasingly complex and rapidly changing world....
Our World Is Changing Rapidly

Creating Many Issues and Challenges For Our Country And Your Organizations

... We Need Collective Intelligence and Understanding

- Climate Change
- Population
- Political and Social Conflict
- Loss of Biodiversity
- Energy
- Water Security
- Natural Resources
- Economic Uncertainty
- Urbanization and Land Use
- Human Health
- Security
- Technology Advancements
- Poverty and Inequality
- Globalization

World and Urban Population Growth

- World population development
- Urban population
- Rural population

(World data 2019)
....Climate Change ...

Natural Disasters

Natural Hazards

Global Warming
Issues and Challenges in GIM

Technical
- Non-compliance of Standard MyGDI
- Reference Systems and Scales
- Data Quality
- Data Format

Institutional
- Organization / System
- Geospatial Experts
- Coordination and Cooperation
- Financial / Budget
- Human Capital/Resources
- Data Management

Policy
- Custodianship
- Policy on Data Sharing
- Priority Issues
- Awareness

Legal
- Right, Security and Confidentiality
- Copyright, Royalty and Intellectual Property
- Data Pricing
- Data Access
- License and Permit

Sosial
- Social Issues
- Development of Human Capital
Current and Future Initiatives

Government Initiatives
Malaysia to become a high-income nation that is both inclusive and sustainable by 2020
DIGITAL MALAYSIA

Geospatial Initiatives
### POLICY

- Digital Signature Act 1997 (Act 562)
- Communication and Multimedia Act 1998 (Act 588)
- Consumer Protection Act 1999 (Act 599)
- Electronic Commerce Act 2006 (Act 658)
- Government Electronic Activities Act 2007 (Act 680)
- Personal data Protection Bill 2009

### GEOSPATIAL INFORMATION STANDARDISATION

- Unique Parcel Identifier (UPI)
- FEATURE AND ATTRIBUTE CODES 1759 (MS1759)
- MyGDI METADATA STANDARD DEVELOPMENT (MMS)
- Dataset Quality for Geographic Information (DQ)
- Standardisation of Geographical Names (Geoname)
Achievements and Developments in Geospatial Information Management
Government Transformation Programme

eKADASTER

- Expediting the B1 plan preparation from 2 years to just 2 months (Required for Final Title)
From Single Purpose eKadastre To Multipurpose Kadastre

Government Transformation Programme

Malaysia Geoportal & MyGDI Explorer
Spatially Enabled Government and Society
Examples of Spatially Enabled Government and Society

Geospatial Data: Reducing Crime
Geospatial Data: Urban Planning

Geospatial Data: Navigation
Mapping the nation

District Map
State Map
Election Map
Population Plan

Improving Urban Public Transport: Foundation For Public Transport Infrastructure

Road Map
Improving Living Standard: Foundation For Housing Development

37 unit rumah PPRT bantu keluarga miskin

Improving Student Outcome: easing land survey
student’s transition to the working world
Roles of Geospatial Information Management in Economic Transformation Programme (ETP)

Regional Economic Development
Kuala Lumpur Metropolis

Mass Rapid Transit System
The Use of Geospatial Information in Development Projects in Malaysia
Electrification of Double Track Project (EDTP)
The Penang Second Bridge