MYANMAR's National Geospatial data policy, Legislation and Standards; Some examples and lessons

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RS/GIS

Some policies and underlying conditions

Right to Know:

Information Disclosure:

Concerns to individual life

None-national security matter

Policy-Making Guidelines
Data Classification by org owners

Public Domain

Private Domain

Security Domain

Generated using public budget

Generated by self funding

Generated for security

Policy-Making Guidelines
Data Classification by accessibility

Public Domain	**Limited by availability**
Private Domain	**Protected by Copyright ©**
Security Domain	**Restricted by laws**

Policy-Making Guidelines
Data Classification by quality/scale

Public Domain	**Small scale but global coverage**
Private Domain	**Large scale but limited coverage**
Security Domain	**1:50K, 1":1Mile, topographic maps** **Contour maps**

Policy-Making Guidelines
Data Classification by locality

Public Domain

Private Domain

Security Domain

Not for border region, restricted zones.

Not for all infrastructures

Not for urban zone, business zones etc.

Policy-Making Guidelines
Data Classification : Reality!

Alternatives	Google earth Bing OpenStreetMap Drones, Laser RangeFinder, TotalStation
Technologies	
Needs	Population, urbanization, intensified farming

Legislative measures for GeoSpatial Data : Thematic Aspect

- **There is no specific legal instrument for GeoSpatial Development**

- **Some of the Government Agencies have right to generate, produce and disseminate the GeoSpatial data and related information**

- **Need to consider for future development along with Data Acquisition Tech**

- **Survey Dept**
- **Forest Dept**
- **Land Record Dept**
- **Road Dept**
- **Waterway Dept**
- **Municipal Authorities**

Legislative measures for GeoSpatial Data: Custodianship

- **Some samples in other countries**

- **Myanmar one-stop service**

- **GISTDA – Thailand**
- **LAPAN – Indonesia**
- **MACRES – Malaysia**
- **CRISP - Singapore**

- **MIMU**

Legislative measures for GeoSpatial Data: Sharing Platform

- **Introduced the prototype data sharing platform along with the regional projects**

- **Myanmar perspective**

- **GMS Platform**
- **ASEAN Platform**

- **No legitimate hub to share the data,**

Standards:
Spatial Data, Associated Attributes,

- So far software dependent

- Donor sponsorship pathway

- Basic level

- Enterprise level

- ESRI style dominant

- Some use OGC,
- Some use Others

- ESRI Shape format

- So far none, may be later

Standards:
Spatial Data, Associated Attributes,

- **DBMS**

- **GeoDataBase**

- **Rooted challenge**

- **Naming convention**

- **MS Excel, Access**

- **None, may be Oracle format? ESRI Geodatabse format?**

- **Myanmar characters (Unicode?)**

- **Not in place yet.**

Standards: Key challenges

• **Metadata**	• **Almost none**
• **Verification flow**	• **Almost none**
• **Data Catalogue**	• **None**
• **Data Clearance House**	• **None**

Standards: Other challenges

- **Consistency**

- **Routine update**

- **Interoperability**

- **Process and handling method**

- **??**

- **??**

- **Software dependent**

- **?**

Other GeoSpatial experience to share with Myanmar

- **UNESCAP - Space Technology Applications Section**
- **ADB - Hq GIS installation**
- **Thailand on CD**
- **SEMIS-I**
- **SEMIS-II**
- **SEF-EWIS**
- **GLOF by ICIMOD**
- **Forest Fire by ASEAN**

- **Satellite database**
- **Webportal**

- **Map View Project**

- **UNEP**
- **UNEP**
- **UNEP**
- **UNEP**
- **UNEP**
- **UNEP**

Thank you

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