United Nations GGIM

Working Group on
Trends in National Institutional Arrangements in Geospatial Information Management

Third meeting of the UN-GGIM: Arab States
United Arab Emirates

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Positioning geospatial information to address global challenges
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1. NIA definition
2. Methodology
3. Road Map proposal between UN GGIM NIA and UN GGIM WG1 Arab States
1. Definition of National Institutional Arrangement

Agreed by NIA Group

National Institutional Arrangements (NIA) for Geospatial Information Management (GIM) may be defined as formal and informal cooperation structures that support and link public and private institutions and or organizations to help to fulfill their mandate and which are used to establish the legal, organizational and productive frameworks to allow for sustainable management of geospatial information, inclusive of its creation, updating and dissemination, thereby providing an authoritative, reliable and sustainable geospatial information base for all users.
2. Methodology

Work Plan: phases

Analysis activities of the state of the art in each area

Diagnosis of the current situation

Identification of best practices

Consultation among groups and NIA WG

Preparation of technical papers and reports

NIA Aspects (GI)
- Technical
- Economical
- Political
- Administrative

Topics (TG → 1/2/3):
- Production System
- Funding, Dissemination, Data Policy
- Organization and Governance
- VGI

Sustainable Development (17 Goals)

9 LAND THEMES (GI/GRI):
- Geographical names
- Administrative units
- Cadastral parcels
- Transport networks
- Hydrography
- Elevation
- Land Cover
- Imagery
- Settlements

Strengthening Partnership and Capacity Among NIA Groups and WG (17 Goals)
### Selection of Themes for the questionnaire

<table>
<thead>
<tr>
<th>Sustainable Development Goals</th>
<th>GI Themes</th>
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<tbody>
<tr>
<td>Goal 1</td>
<td>Goal 2</td>
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<td>Geospatial reference information (GRI)</td>
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<td>Geographical names</td>
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<td>Transport networks</td>
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<td>Hydrography</td>
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<td>Imagery</td>
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<td>Settlements</td>
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<td>Geospatial Information (GI)</td>
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<td>Protected sites</td>
<td>X</td>
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<td>Statistical units</td>
<td>X</td>
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<td>Addresses</td>
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<td>Cadastral parcels</td>
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<td>Buildings</td>
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<td>Geology</td>
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<td>Soils</td>
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<td>Human health and safety</td>
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<td>Environmental monitoring facilities</td>
<td>X</td>
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<td>Production and industrial facilities</td>
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<td>Agricultural and aquaculture facilities</td>
<td>X</td>
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<td>Natural risk zones</td>
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<td>Marine and coastal features</td>
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<td>Bio-geographical regions</td>
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<td>Habitats and biotopes</td>
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<td>Species distribution</td>
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<td>Energy resources</td>
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<td>Mineral resources</td>
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**Positioning geospatial information to address global challenges**

United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM)

ggim.un.org
2. Methodology

**Work Plan: phases**

- **Analysis** activities of the state of the art in each area
- **Diagnosis** of the current situation
- **Identification of best practices**
- **Consultation** among groups and NIA WG
- **Preparation of technical papers and reports**

**in progress…**

**External assessment**
- EuroSDR
- Eurogeographics
- IPGH
- Universities (Carleton, KULeuven, Melbourne Univ.)

1. **Indicators**
   - Questionnaire: TG1, TG2, TG3
   - Score based on indicators

2. **Score based on indicators**
   - Questionnaire: TG1, TG2, TG3
   - Score based on indicators

3. **Clustering**
   - Based on: Surface, HDI, IHDI, ICT develop., ...

**Other sources** (ISPRS Status of topographic mapping in the world)
3. UN-GGIM: Arab States / Working Groups Work Plan WG1

Possible ROAD MAP between UN GGIM Arab States WG1 and UN GGIM NIA Global:

a) Transformation of the existing structure?

* 3 Task Groups (TG) in UNGGIM National Institutional Arrangements (NIA) (Global Group) → 3 Topics

<table>
<thead>
<tr>
<th>TG1</th>
<th>1. Geospatial Information (GI) business model analysis</th>
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<tbody>
<tr>
<td></td>
<td>1.1 GI production systems analysis</td>
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<tr>
<td>TG2</td>
<td>1.2 Funding structures in Geospatial Information</td>
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<td>1.3 Dissemination systems in Geospatial Information</td>
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<td>1.4 Data policy models</td>
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<tr>
<td>TG3</td>
<td>2. Structure of Geospatial Information Management Organizations</td>
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<tr>
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<td>3. The role of people as users and producers of GI (Volunteered Geographic Information, VGI)</td>
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* 4 Topics Groups in UNGGIM NIA (WG1 Arab States) Institutional Arrangements, Legal and Policy Issues, Awareness and Capacity Building:

- Institutional Arrangement
- Legal and policy Issues
- Geospatial data awareness
- Capacity Building
UN-GGIM: Arab States / Working Groups Work Plan WG1

Possible ROAD MAP between UN GGIM Arab States WG1 and UN GGIM NIA Global:

a) Transformation of the existing structure?

* 3 Task Groups (TG) in UNGGIM National Institutional Arrangements (NIA) (Global Group) → 3 Topics

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* 2 Topics Groups in UNGGIM NIA (WG1 Arab States) Institutional Arrangements:

- Legal and policy Issues TG2 (1.3+1.4)
- Capacity Building and awareness → TG1 (1.1) + TG2 (1.2) + TG3 (2)
Possible ROAD MAP between UN GGIM Arab States WG1 and UN GGIM NIA Global:

b) Increase the cooperation the WG1 Arab States inside UNGGIM NIA.

c) Recirculate the existing UNGGIM NIA-questionnaire through Arab States Region (by Chair).

d) This proposal could be convenient to be integrated in less than one month from now.
Advantages for integration in UN-GGIM

- **National level:**
  - To receive from United Nations, through each Ministry of External Affairs, clear recommendation of Geospatial Information, this **will increase the official demand and production** from another internal point of view (*Authoritative/Reliable Information*).
  - Continuously up-dating of **requirement and production** system.
  - More efficient **collaboration** between MS.
  - Using **latest technology** by close collaboration inside GGIM.

- **Regional level:**
  - Best way **to produce and collaborate** between different Public Institutions and Organization in Geospatial Information.
  - Best way **to increase the Region development** by decentralized collaboration.

- **Global level:**
  - **Effective contribution** to the Sustainable Development Goals.
  - **Increase the Geospatial Information System** as a **real need** and **first step** for Sustainable Development.
Thank you for your attention