Working Group on
Trends in national institutional arrangements in
geospatial information management

United Nations Committee of Experts on Global Geospatial Information Management
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Growing Implementation of National Initiative in GIM

**Stages of GIM Development**
- In Operation: 55%
- In Development: 27%
- Inception: 8%
- Planning: 10%

**Significant Changes in GIM**
1. Implementing new policies
2. Establishing new committees
3. Increasing participation of stakeholder
Participation in National Institutional Arrangement

- Provides skills training
- Provides technology and infrastructure
- Creates and supplies geospatial data
- Assures geospatial data quality
- Creates geospatial services
- Conducts R&D
- Drives use of geospatial information
- Makes strategic decisions on national GIM
- Monitors national GIM development
- Contributes/Develops GIM policies

Participation Level:
- Government
- Academia
- NGO
- Private Sector

Participation in National Institutional Arrangement:

- Government: 70
- Academia: 50
- NGO: 3
- Private Sector: 0

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Enabling a Successful GIM

**GIM Areas of Emphasis**

- **57%** Coordination & collaboration among entities
- **41%** Infrastructure & technological facilitation
- **39%** Policy & decision making
- **25%** Capacity building & adoption
- **12%** Diverse representation in NIA
- **12%** Accountability, monitoring & regulation

**GIM Governance Policies**

- **67%** Data Sharing
- **51%** Open Data
- **49%** Data/Service Standards
- **31%** Data/Service Pricing
- **31%** Intellectual Property Rights
- **8%** Competition Policy
Enabling a Successful GIM – Areas of Emphasis

- Coordination & Collaboration Among Entities
- Infrastructure & Technological Facilitation
- Policy & Decision Making

Europe: 73%
Arab States: 60%
Asia & Pacific: 75%
Americas: 63%
Africa: 27%
Enabling a Successful GIM – Areas of Emphasis

**Coordination & Collaboration Among Entities**
- **Americas**: 44%
- **Europe**: 53%
- **Arab States**: 60%
- **Asia & Pacific**: 50%

**Infrastructure & Technological Facilitation**
- **Africa**: 18%

**Policy & Decision Making**
Enabling a Successful GIM – Areas of Emphasis

- **Coordination & Collaboration Among Entities**
  - Americas: 38%
  - Europe: 53%
  - Arab States: 40%
  - Asia & Pacific: 50%

- **Infrastructure & Technological Facilitation**
  - Africa: 18%

- **Policy & Decision Making**
  - Americas: 38%
  - Europe: 53%
  - Arab States: 40%
  - Asia & Pacific: 50%
Enabling a Successful GIM – Governance Policies

- **Data Sharing**: 63%
- **Open Data**: 80%
- **Data/Service Standards**: 45%

Map showing the percentage of countries with governance policies in different regions:
- **Americas**: 63%
- **Europe**: 80%
- **Arab States**: 80%
- **Asia & Pacific**: 100%

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Enabling a Successful GIM – Governance Policies

- Data Sharing: 56%
- Open Data: 67%
- Data/Service Standards: 9%
- Europe: 67%
- Arab States: 60%
- Africa: 9%
- Asia & Pacific: 100%

Americas
Enabling a Successful GIM – Governance Policies

Data Sharing
- Americas: 50%
- Europe: 67%
- Arab States: 60%
- Asia & Pacific: 100%

Open Data
- Africa: 18%

Data/Service Standards

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VGI Landscape

**Citizens are leading contributors**
- Citizens: 28%
- Experts: 18%
- Non-Government: 15%
- Private Sector: 17%
- NGO: 19%
- Others: 8%
- No Answer: 7.7%

**Citizens are leading users**
- Expert: 18%
- National: 10%
- No Answer: 6%
- Others: 5%
- Medium: 34%
- Low: 24%
- No Answer: 14%

**VGI is in the early-stage**
- High: 6%
- Very High: 6%
- Medium: 34%
- Low: 24%
- No Answer: 14%

**Importance of VGI**
- High: 7.7%
- Very High: 6%
- Medium: 34%
- Low: 24%
- No Answer: 14%
Tradeoff for Usage of VGI

Advantages of VGI
- Speed, 29%
- Update, 30%
- Security, 10%
- Low Cost, 27%
- Others, 2%
- No Answer, 6%

Weakness of VGI Data
- Quality, 28%
- Difficulty, 14%
- Wrong Data, 23%
- Assurance or Reliability, 27%
- Others, 2%
- No Answer, 6%
Areas of Further Study

National Institutional Arrangement

i. Development of self-assessment tool
ii. Identification of best practices on GIM

Volunteered Geographic Information

i. Identify the advantages & weaknesses of VGI from the user perspective
ii. Develop best-practices concerning the use of VGI
Thank you for your participation