

# Expert Consultation and Meeting on Enhancing Geospatial Information Management Arrangements and Accelerating Implementation of the Sustainable Development Goals, and the Sub-regional Workshop on the United Nations Integrated Geospatial Information Framework (UN-IGIF) for Central America and neighbouring Latin American countries

## Implementing geospatial strategies: challenges and opportunities

Panama City, Panama  
1-5 December 2025



Enhancing Geospatial Information Management arrangements Accelerating the Implementation of the SDGs

Sub-regional Workshop on UN-IGIF for the Central America and neighbouring Latin American countries



# Understanding the implementation of UN-IGIF

## Global UN-IGIF Assessment Survey

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Geospatial Information Officer, UN-GGKIC

5 December 2025, Panama City, Panama



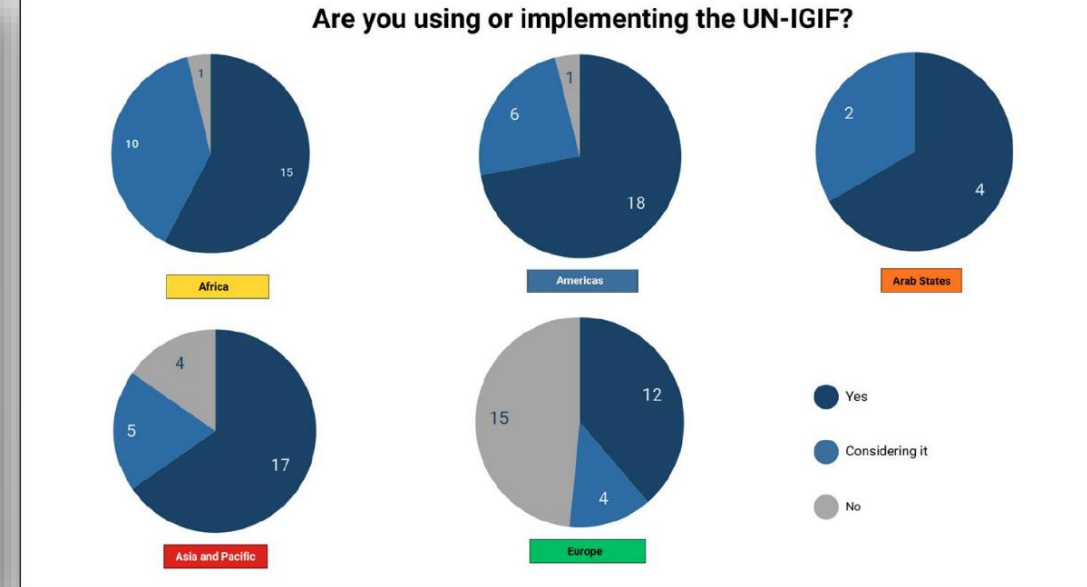
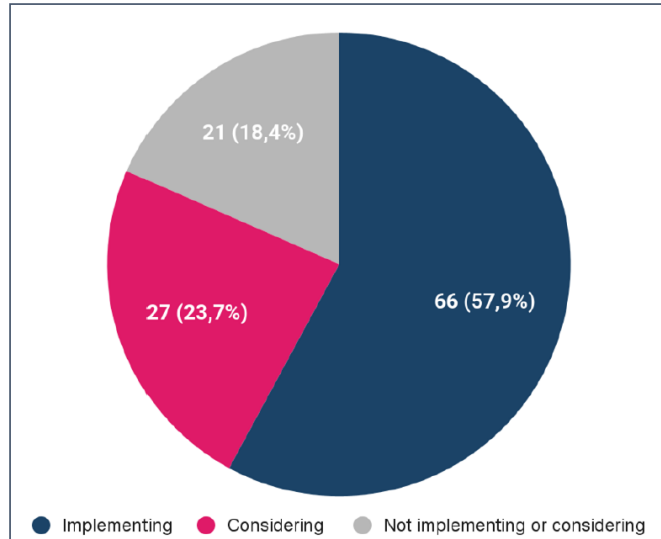
Enhancing Geospatial Information Management arrangements Accelerating the Implementation of the SDGs

Sub-regional Workshop on UN-IGIF for the Central America and neighbouring Latin American countries

# UN-IGIF adoption and implementation

## Current Status

GGIM Survey (2023)  
A total of 114 (143) UN-  
GGIM Member States



### Guidance Materials

- ✓ Comprehensive Implementation Guide
- ✓ Good practice templates
- ✓ Technical standards
- ✓ Capacity building resources

### Institutional Support

- ✓ HLG-IGIF & UNGGKIC
- ✓ Regional Committees & Networks
- ✓ International partnerships
- ✓ Country-level customization

### Key Success Factors

- Executive Support:** High-level government commitment
- Phased Implementation:** Gradual, manageable rollout
- Multi-stakeholder Engagement:** Inclusive planning processes
- International Cooperation:** Learn from global best practices
- Sustainable Financing:** Long-term funding mechanisms

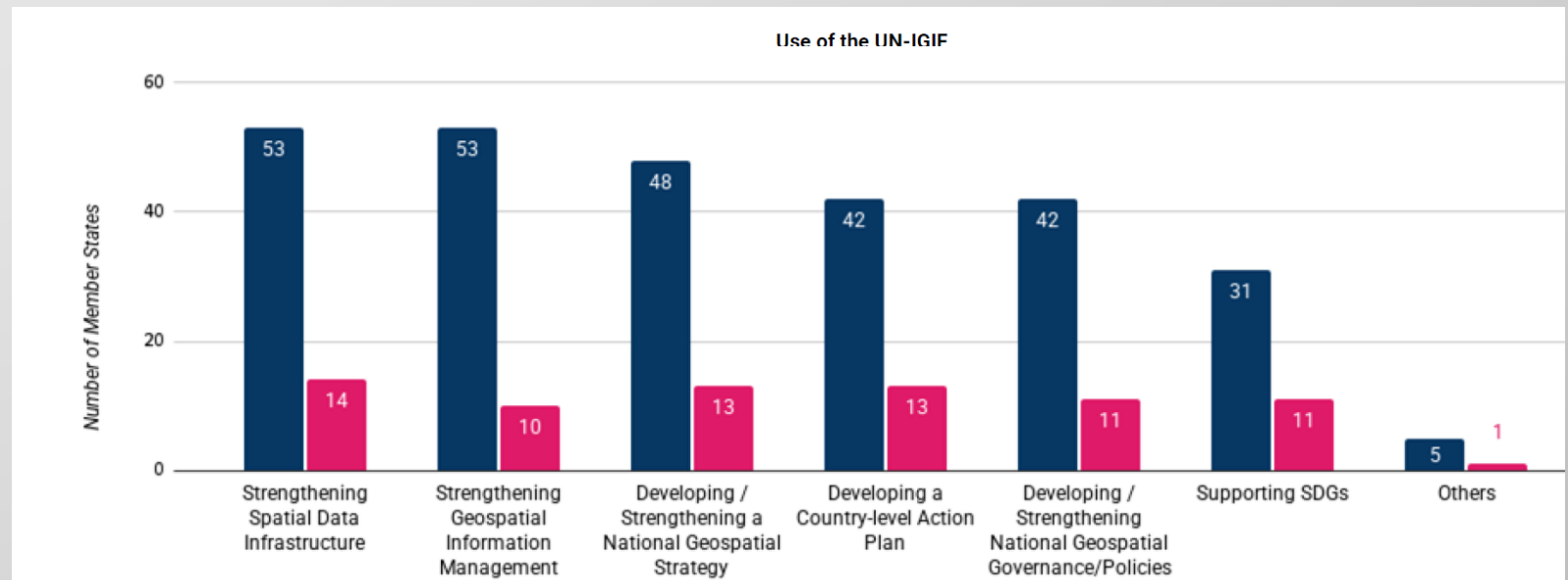
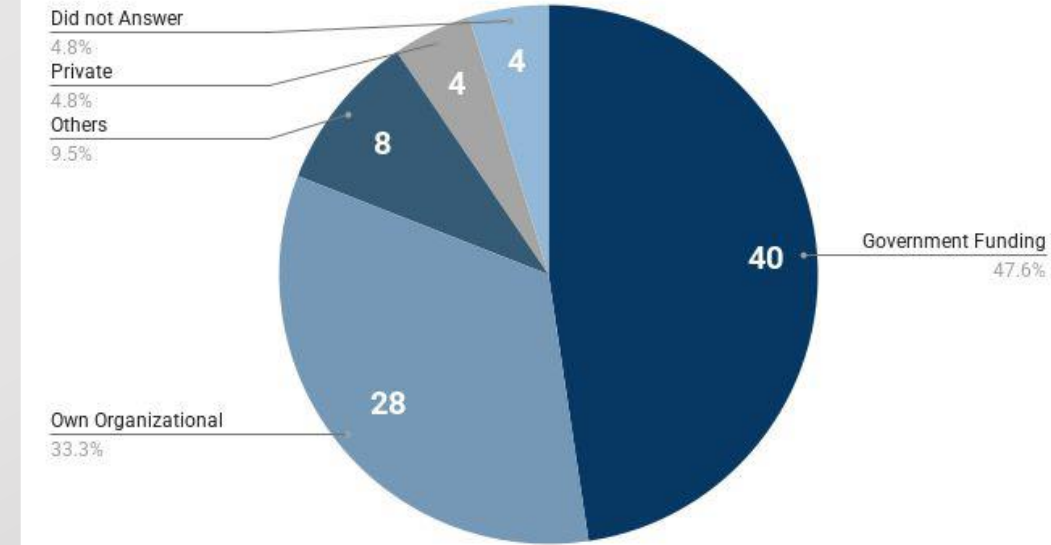
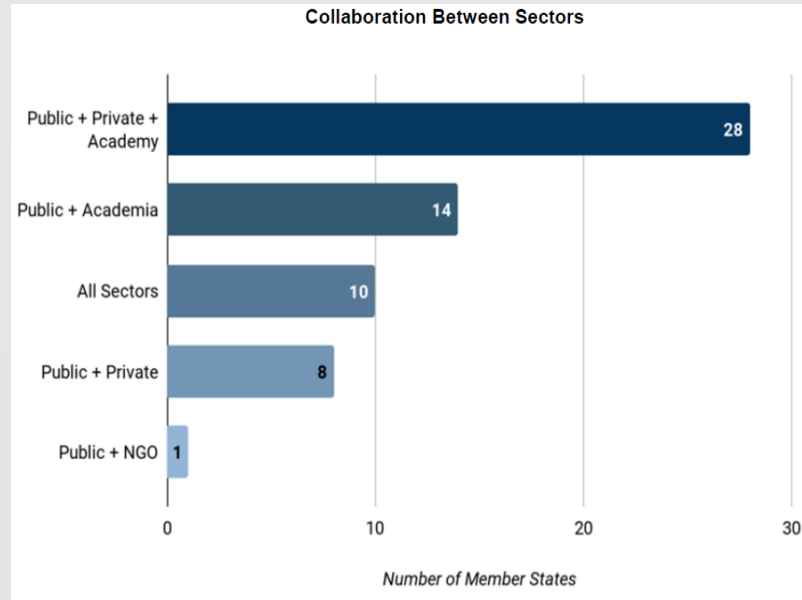


# UN-IGIF adoption and implementation

## Current Status

### GGIM Survey (2023)

- Participation
- Use of UN-IGIF
- Funding





# Global UN-IGIF Assessment Survey

# UNIGIF Annual Survey - Need and Importance

1. **UN-IGIF** directly supports the achievement of the **SDGs**, critical enabler for monitoring progress and guiding national priorities.
2. Success of UN-IGIF implementation depends on ability **to understand progress, identify challenges, and share solutions.**
3. Annual survey provides the foundation for this understanding, **enabling more effective coordination, targeted support, and accelerated progress toward shared objectives of strengthening geospatial information capabilities worldwide.**

## Global/GGIM

- Regular assessment of progress toward UN-IGIF objectives
- Regular reporting opportunities to member states and partners
- Advocacy efforts by demonstrating implementation progress and impact

## UN-GGKIC

- Helps UNGGKIC plans/assess progress against established goals/Actions
- Identifies challenges for interventions, successful practices to be scaled
- Supports internal planning and resource allocation decisions

## Member States

- Offers countries benchmarking opportunities against regional and global peers
- Identifies areas where national strategies may need adjustment or additional focus
- Provides evidence for support request/capacity buildings/needs

## Knowledge Sharing and Learning

- Best Practice Identification
- Peer Learning Networks

## Accountability and Transparency

- Progress Monitoring
- Stakeholder Engagement

## Strategic Planning Resource Mobilization

- Gap Analysis
- Resource Optimization

## Impact Measurement Communication

- Outcome Documentation
- Success Story Development

# UNIGIF Annual Survey - Content Structure

## Part 1: Profiling/awareness

- Country/Region
- One focal person per country
- Data aggregation to region level
- Areas of IGIF Usage
- IGIF adoption/awareness

## Part 2: IGIF Implementation

### Level of implementation

#### Initial

- 9 strategic pathways implementation
- Progress/Challenges
- Support & Resources

#### Advanced

- CAP development
- Challenges /Needs
- Collaboration

## Part 3: Outcomes/benefits

- Benefits Realized
- SDG alignment
- Future priorities
- Cooperation

Cooperation & Stakeholder Engagement

# UNIGIF Annual Survey - Activities & timeline

## 1. Design and Development

- Finalize survey and questionnaire design
- Establish data collection and analysis protocols
- Develop online survey
- **Create multi-language versions**

## 2. Stakeholder Engagement

- Conduct outreach to national focal points
- Establish partnerships with regional committees
- Organize regional briefing sessions
- Develop COMM materials and guidance documents

## 3. Pilot Implementation

- Launch pilot survey (selected countries)
- Test data collection processes and analytical frameworks
- Gather feedback on survey design and implementation approach
- Refine methodology based on pilot

## 4. Full Launch and Initial Analysis

- Launch first annual survey globally
- Implement a comprehensive outreach and follow-up strategy
- Conduct initial data analysis and report
- Present findings at the 16th GGIM session and relevant international forums/UNGGKIC Workplan

Jul – Aug 2025

Sep – Oct 2025

Nov – Dec 2025

Jan – Apr 2026

Incorporate lessons learned  
 Refine questions and analytical approaches  
 Develop enhanced visualization and reporting  
 Create automated analysis tools

-  Conduct a comprehensive analysis of year-over-year trends
-  Develop specialized reports for different stakeholder groups
-  Create interactive dashboards for progress monitoring
-  Produce case studies on significant progress or innovative approaches



**Cooperation & Stakeholder Engagement**



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### UN IGIF Adoption Status

Type of View  
Questions

#### Question View

Explore survey responses across regions, organisations, and roles

Search Question

Choose or search question

Search

Question Topic/Category  
Implementation

#### Filters

Regions

- Africa
- America
- Arab States
- Asia & Pacific
- Europe

Geospatial Information Role

Data engineer

Government Organisation Type

- Statistical Office
- Geospatial/Mapping/Survey
- Urban & Spatial/ Territorial Planning
- Land Management and Cadaster
- Governance/Policy

### UN GIS Framework

Have you heard about the United Nations-Integrated Geospatial Information Framework?

Category IMPLEMENTATION

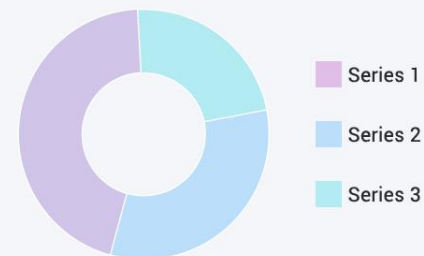


#### Response Distribution

##### Region



##### Organisations



**Region/Country View**  
Explore survey responses across regions, organisations, and roles

Search Country

- Regions
- Africa
  - America
  - Arab States
  - Asia & Pacific
  - Europe

## Kenya

UN-IGIF Implementation level per country

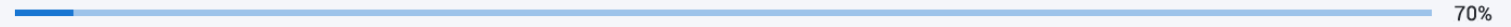
Region

**Top Uses of UN IGIF in Africa**  
These charts presents the region of Africa

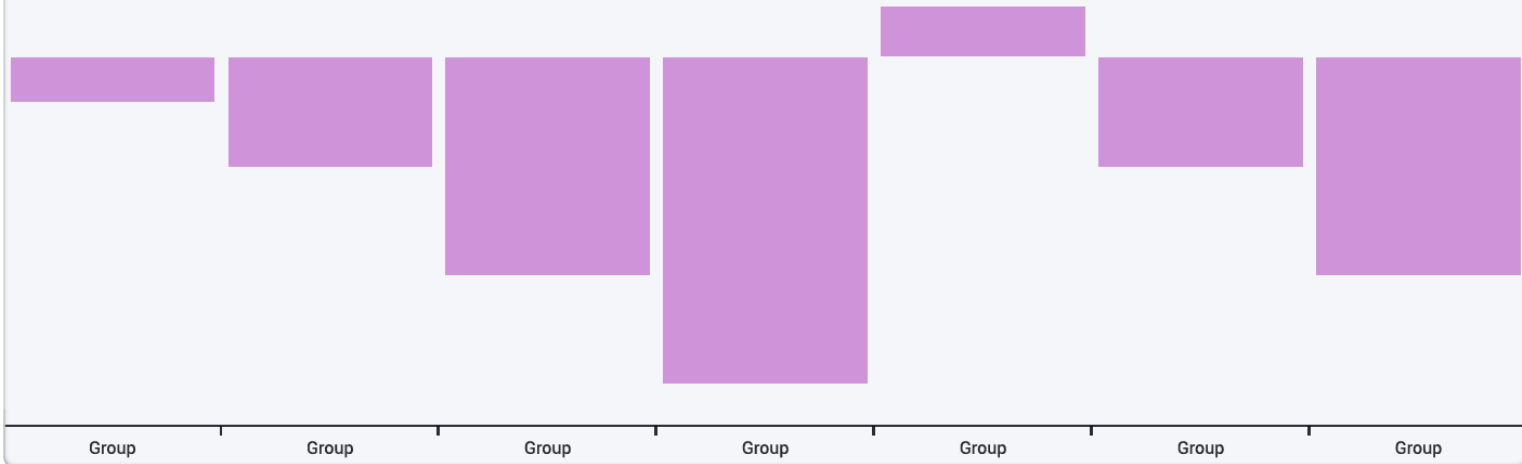
### Survey Progress

THE NUMBER OF COUNTRIES

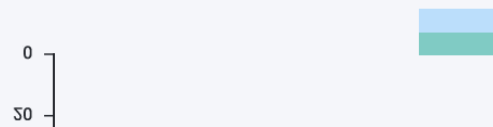
33/44



### Top Uses of UN IGIF



### Participating Agencies



### Organisations

Head	Head	Head
Cell	Cell	Cell
Cell	Cell	Cell

## 1 - RESPONDANT PROFILE

This section seeks to gather general information about the person completing the questionnaire on behalf of the National Geospatial Information Authority

1.1 - Full name

---

1.2 – Function/role

---

1.3 – Department/unit

---

1.4 – Organization name/type

---

1.5 – Country

---

1.6 – Email address

---

\*

## 2 – COUNTRY CONTEXT

This section seeks to gather general information about the general country's context when it comes to the management and use geospatial information management.

2.1 – What are the top 5 development priorities currently on the political agenda (examples: climate change, health, education, national security, etc.)?

1. ....

2. ....

3. ....

4. ....

5. ....

Or

I don't know

2.2 – What is the temporal extent of the current term of office of the government in your country (example: 2025 to 2030)?

From: 20

To: 20

2.3 – To which extent is the current government promoting and supporting the management and use of geospatial information?

Not at all

Minimal

Moderate

Extensive

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This section seeks to gather general information about the general country's context when it comes to the management and use geospatial information management.

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4. ....

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Or

I don't know

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From: 20

To: 20

2.3 – To which extent is the current government promoting and supporting the management and use of geospatial information?

Not at all

Minimal

Moderate

Extensive

3.6 – Is the document build on a comprehensive baseline analysis and gap assessment to understand current capacities, strengths, and weaknesses across sectors? (*Capacity refers to the institutional, human, technical, legal, financial, data, and partnership capabilities necessary to plan, manage, and sustain an effective national geospatial information management ecosystem*).

Yes

Partially

No

3.7 - Has the development of the document been inclusive and participatory, engaging government agencies, the private sector, academia, and civil society groups as key stakeholders?

Yes

Partially

No

3.8 – Is the document guided by a clear vision, mission and objectives/goals and guiding principles aligned with national, regional and/or global priorities?

Yes

Partially

No

3.9 - Does the document demonstrate how its planned actions will support the country's progress toward achieving the Sustainable Development Goals (SDGs)

Yes

Partially

No

## 2 – COUNTRY CONTEXT

This section seeks to gather general information about the general country's context when it comes to the management and use geospatial information management.

2.1 – What are the top 5 development priorities currently on the political agenda (examples: climate change, health, education, national security, etc.)?

1. ....

2. ....

3. ....

4. ....

5. ....

Or

I don't know

2.2 – What is the temporal extent of the current term of office of the government in your country (example: 2025 to 2030)?

From: 20

To: 20

2.3 – To which extent is the current government promoting and supporting the management and use of geospatial information?

Not at all

Minimal

Moderate

Extensive

2.3.1 – Please here any additional information that would help better understand the current political context when it comes to the management and use of geospatial information in the country provide

2.4 - What are the main challenges to improving geospatial data availability, quality, and accessibility in your country? *(Select all that apply)*

- Lack of sustainable government funding for data development and maintenance
- Limited national technical expertise and skilled workforce
- Fragmented responsibilities across ministries or poor coordination
- Absence of national data standards or policies for data management
- Limited infrastructure or technology for nationwide data sharing
- Restricted or closed data policies limiting accessibility

2.5 – Does your country have a published, formal, government-led policy document outlining strategic goals, specific steps, and a roadmap for a nation to establish, maintain and/or improve its national geospatial information management capabilities (e.g., national geospatial strategy, strategic action plan, country action plan, NSDI (National Spatial Data Infrastructure) strategy)?

- Yes
- Under development
- Under revision
- No

⇒ *If “Yes”, go to section 3*

⇒ *If “Under development” or “Under revision”, go to section 4*

⇒ *If “No”, go to section 5*

### 3 – PUBLISHED STRATEGY/ACTION PLAN

This section aims to obtain information about the formal, government-led policy document outlining strategic goals, specific steps, and a roadmap that has been published to establish, maintain and/or improve geospatial information in your country

.....

3.1 – When has the latest version of the document been released (e.g., 2022)?

.....

3.2 – What is the complete title of the document?

.....

3.3 - In which languages have it been published?

1. ....

2. ....

3. ....

3.4 - Is the document publicly accessible?

Yes

No

3.4.1 - If yes, how can you access it?

1. *Online (please provide the URL: .....)*

2. *In writing*

3. *Other (please specify)*

3.5 - Has the United Nations Integrated Geographic Information Framework (UN-IGIF) been used during the development of the document?

Yes

No

3.5.1 - If yes, please describe how it has been used

.....

3.5.2 – If yes, how useful has the UN-IGIF material (e.g., guidelines, templates, and examples) been on developing the document?

I don't know, we did not look at it

Not useful at all

Slightly useful

Moderately useful

Very useful

Extremely useful

If “Not useful at all”, “Slightly useful” or “Moderately useful” please describe how this material could be improved and/or expanded:.....

3.5.3 – If no, did you use an alternative framework during the development of the document (e.g. INSPIRE)?

Yes, please specify which one:.....

No

3.5.4 – If no, is there a specific reason why you did not use the IGIF?

Yes, please describe:.....

No

3.5 - Has the United Nations Integrated Geographic Information Framework (UN-IGIF) been used during the development of the document?

Yes

No

3.5.1 - If yes, please describe how it has been used

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3.5.2 – If yes, how useful has the UN-IGIF material (e.g., guidelines, templates, and examples) been on developing the document?

I don't know, we did not look at it

Not useful at all

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3.5.3 – If no, did you use an alternative framework during the development of the document (e.g. INSPIRE)?

Yes, please specify which one:.....

No

3.5.4 – If no, is there a specific reason why you did not use the IGIF?

Yes, please describe:.....

No

3.6 – Is the document build on a comprehensive baseline analysis and gap assessment to understand current capacities, strengths, and weaknesses across sectors? (*Capacity refers to the institutional, human, technical, legal, financial, data, and partnership capabilities necessary to plan, manage, and sustain an effective national geospatial information management ecosystem*).

Yes

Partially

No

3.7 - Has the development of the document been inclusive and participatory, engaging government agencies, the private sector, academia, and civil society groups as key stakeholders?

Yes

Partially

No

3.8 – Is the document guided by a clear vision, mission and objectives/goals and guiding principles aligned with national, regional and/or global priorities?

Yes

Partially

No

3.9 - Does the document demonstrate how its planned actions will support the country's progress toward achieving the Sustainable Development Goals (SDGs)

Yes

Partially

No

3.10 - Does the document address all nine IGIF strategic pathways?

- Yes
- Partially
- No

3.11 - Does the document include a clear implementation road map/action plan?

- Yes
- Partially
- No

3.11.1. – If yes or partially, what is the timeline for the implementation of the road map/ action plan (e.g.: 2030)?

.....

3.11.2. – If yes or partially, what is the current level of implementation of the road map/ action plan?

- Not yet started
- Partially implemented
- Fully implemented

If “Not yet started” or “Partially implemented”, does the implementation faces any specific challenges (please describe if yes):      .....

3.12 Are there any specific areas for which you would need external support for the implementation of the road map/action plan? If yes, please describe the support that is needed (e.g., capacity development and training programs, financial assistance, targeted technical advisory support)

.....

## 4 – UNDER DEVELOPMENT/REVISION STRATEGY/ACTION PLAN

This section aims to obtain information about the development or revision of the formal, government-led policy document outlining strategic goals, specific steps, and a roadmap to establish, maintain and/or improve geospatial information in your country

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4.1 - In which stage of the development/revision process are you currently finding yourself?

- Preliminary
- Intermediary
- Final

4.2 – Are you using/planning to use the IGIF during the development/revision process?

- Yes
- No

4.2.1 - If yes, please describe how it is being used

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4.2.2 – If yes, how useful is the UN-IGIF material (e.g., guidelines, templates, and examples) for the development/revision?

- I don't know, we did not look at it
- Not useful at all
- Slightly useful
- Moderately useful
- Very useful

4.2.3 – If no, are you using, or planning to use, other framework(s) and/or method(s) for the development/revision of the document?

Yes

No

If yes, please indicate which framework(s) and/or method(s) you are using/planning to USE:.....

3.2.4 – If no, is there a specific reason why you are not using/planning to use the IGIF?

Yes, please describe:.....

No

4.3 – Is the development/revision of the document building on a comprehensive baseline analysis and gap assessment to understand current capacities, strengths, and weaknesses across sectors?

Yes

Partially

No

4.4 – Is the development/revision of the document inclusive and participatory, engaging government agencies, the private sector, academia, and civil society groups as key stakeholders?

Yes

Partially

No

4.5 – Is/will the document include a clear vision, mission and objectives/goals and guiding principles aligned with national, regional and/or global priorities?

Yes

Partially

No

4.6 – Is/will the document demonstrate how its planned actions will support the country's progress toward achieving the Sustainable Development Goals (SDGs)

Yes

Partially

No

4.7 – Is the document addressing/will address all nine IGIF strategic pathways?

Yes

Partially

No

4.8 – Is the document including/will include a clear implementation road map/action plan?

Yes

Partially

No

4.9 Are there any specific areas for which you would need external support for the development/revision of the document? If yes, please describe the support that is needed (e.g., practical guides and tools for financial planning and/or monitoring and evaluation, documented case studies and lessons learned, examples of successful leadership structures and inter-agency coordination mechanisms, technical assistance to support stakeholder engagement)

.....

## 5 – PROCESS NOT STARTED

This section aims to obtain information about the current situation potentially moving toward the development of a formal, government-led policy document outlining strategic goals, specific steps, and a roadmap to establish, maintain and/or improve geospatial information in your country

---

5.1 – Do you anticipate for the process aiming at developing such a document to start at some point in the future?

- No
- Yes, but not in the near future
- Yes, in the near future
- I don't know

5.1.1 – If yes, when do you expect to start the process?

- within 1 year
- within 1–2 years
- within 2–3 years
- within 2–3 years

5.1.2 - If yes, have you looked into using the UN-IGIF as reference to guide the process for the development of the document?

- Yes
- No

5.1.3 – If yes, did you look at other framework(s) and/or method(s) to support the development of the document?

Yes

No

If yes, please indicate which framework(s) and/or method(s) you looked at:.....

5.1.4 – If no, are there any specific challenges that avoid for the process to start in the future (e.g., limited financial resources, lack of political support, etc.)?

Yes

No

If yes, describe the challenges:.....

5.2 Are there any specific areas for which you would need external support while waiting for the process to start?

If yes, please describe the support that is needed (e.g., political or legislative advocacy support to reinforce national commitment, documented case studies and lessons learned, examples of successful leadership structures and inter-agency coordination mechanisms, technical assistance to support stakeholder engagement)

.....

Thank you very much for taking the time to complete this survey.

Thank  
You!



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