

Strengthening National Geospatial Information Management positioning geospatial information to effectively address global challenges



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UNITED NATIONS
COMMITTEE OF EXPERTS ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT
<http://ggim.un.org/>



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United Nations Committee of Experts on Global Geospatial Information Management



UN-GGIM Bureau:

Co-Chairs: Cameroon, China, Netherlands
Rapporteur: Chile

UN-GGIM Regional Committees & Chairs:

- Africa: Senegal
- Americas: Mexico
- Arab States: Saudi Arabia
- Asia-Pacific: Japan
- Europe: Slovenia

The Committee of Experts is the peak intergovernmental body to liaise and coordinate among Member States, and between Member States, international organizations and stakeholders, to foster better coordination and coherence in geospatial information management

UN-GGIM International Networks:

- Academic Network
- Private Sector Network
- Geospatial Societies
- United Nations System Network



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ECOSOC Resolution 2016/27

strengthen geospatial

... .. Suggest should be committee stakeholder

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... .. Noted as a reference prioritizing Committee

		VISION					Positioning geospatial information to effectively address global challenges	
		MISSION					Operating within agreed policies and institutional arrangements, and as an interconnected global community of practice, provide leadership to ensure that geospatial information and resources are coordinated, maintained, accessible, and able to be leveraged by Member States and society to find sustainable solutions for social, economic and environmental development	
CONTEXT	MANDATED STRATEGIC OBJECTIVES	Provide leadership in setting the agenda for the development of global geospatial information and to promote its use to address key global challenges	Provide a forum for coordination and dialogue with and among Member States and relevant international organizations on enhanced cooperation	Provide a platform for the development of effective strategies to build and strengthen national capacity and capability concerning geospatial information, especially in developing countries	Propose work plans, frameworks and guidelines to promote common principles, policies, methods, standards and mechanisms for the interoperability and use of geospatial data and services	Make joint decisions and set the direction for the production and use of geospatial information within and across national, regional and global policy frameworks	Our Ocean, Our Future: Call for Action	Population and security metrics
	GLOBAL POLICY FRAMEWORK	Sendai Framework for Disaster Risk Reduction 2015-2030	SIDS Accelerated Modalities of Action (SAMOA) Pathway	Addis Ababa Action Agenda	Paris Agreement on Climate Change	New Urban Agenda	Our Ocean, Our Future: Call for Action	Building Local Capacity & Capability
		DELIVERABLES					WORKING ACTIVITIES AND OUTPUTS	
							<ul style="list-style-type: none"> Global Fundamental Geospatial Data Themes: Implementation Marine geospatial information Land administration and management Legal and policy frameworks National institutional arrangements Implementation and adoption of standards for the global geospatial information community National geospatial data and information systems 	



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Wearable Technology

AI

Robotics

ANALYTICS

WHAT MAKES A SMART CITY?

transparency data open government

Privacy policy

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The disruptive nature of digital transformation, technology, innovation, and their exponential impacts, means that society's expectations on how, and at what level of detail, we record what is happening where and when are changing at a rapid pace.



While 'data' is still the primary information currency, the many disruptive technology enablers and applications are challenging the norm for the mission of national geospatial information authorities.



Geospatial information represents much more than the 'digital map' of a nation; it is the 'digital currency' for evidence-based decision-making. Geospatial information is a critical component of the national infrastructure; both a blueprint of what happens where, and the means to integrate a wide variety of data across multiple sectors.



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INTEGRATED GEOSPATIAL INFORMATION FRAMEWORK

A STRATEGIC GUIDE TO DEVELOP AND STRENGTHEN NATIONAL GEOSPATIAL INFORMATION MANAGEMENT



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Integrated Geospatial Information Framework

Overarching Strategic Framework
Why?
Part 1

National Implementation Guide
What?
Part 2

Country-level Action Plans
How, when, who?
Part 3

The **Integrated Geospatial Information Framework** comprises 3 separate, but connected, documents. The **Overarching Strategic Framework** has been completed and adopted by UN-GGIM in August 2018. The structure and main elements of the **Implementation Guide** are developed and have ‘in-principle’ approval by UN-GGIM. The **Country-level Action Plans** are work in progress and being developed through case studies.

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Overarching Strategic Framework

- A forward-looking Framework built on national needs and circumstances.
- Provides the overarching strategic messages and more expansive and integrated national framework, particularly focusing on policy perspectives and elements of geospatial information.
- Sets the context of ‘why’ geospatial information management is a critical element of national social and economic development.
- **Vision** and **Mission** statements communicate the overarching aim of the Integrated Geospatial Information Framework.
- It does this via **7 Underpinning Principles, 8 Goals and 9 Strategic Pathways** that lead to a national approach that takes account of national circumstances, priorities and perspectives.
- The **Overarching Strategic Framework** is intended for a wide range of stakeholders – these primarily being high-level policy and decision makers, institutions and organizations within and across government.

The Strategic Framework is a mechanism for articulating and demonstrating national leadership, cultivating champions, and developing the capacity to take positive steps.

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Overarching Strategic Framework: Vision and Mission

The **Vision** recognizes the responsibility for countries to plan for and provide better outcomes for future generations, and our collective aspiration to 'leave no one behind'.

The **Mission** is designed to stimulate action towards bridging the geospatial digital divide; to find sustainable solutions for social, economic and environmental development; and to influence inclusive and transformative societal change for all citizens according to national priorities and circumstances.

Vision

The efficient use of geospatial information by all countries to effectively measure, monitor and achieve sustainable social, economic and environmental development - leaving no one behind.

Mission

To promote and support innovation and provide the leadership, coordination and standards necessary to deliver integrated geospatial information that can be leveraged to find sustainable solutions for social economic and environmental development.



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Overarching Strategic Framework: Principles

Underpinning Principles:

PRINCIPLE 1: Strategic Enablement

PRINCIPLE 2: Transparent and Accountable

PRINCIPLE 3: Reliable, Accessible and Easily Used

PRINCIPLE 4: Collaboration and Cooperation

PRINCIPLE 5: Integrative Solution

PRINCIPLE 6: Sustainable and Valued

PRINCIPLE 7: Leadership and Commitment



The seven Principles are the key characteristics and values that provide the compass for implementing the Framework, and allow for methods to be tailored to individual country needs and circumstances.



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Overarching Strategic Framework: Goals

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- GOAL 1: Effective Geospatial Information Management**
 - GOAL 2: Increased Capacity, Capability, and Knowledge Transfer**
 - GOAL 3: Integrated Geospatial Information Systems and Services**
 - GOAL 4: Economic Return on Investment**
 - GOAL 5: Sustainable Education and Training Programs**
 - GOAL 6: International Cooperation and Partnerships Leveraged**
 - GOAL 7: Enhanced National Engagement and Communication**
 - GOAL 8: Enriched Societal Value and Benefits**



The eight Goals reflect a future state where countries have the capacity and skills to organize, manage, curate and leverage geospatial information to advance government policy and decision-making capabilities.



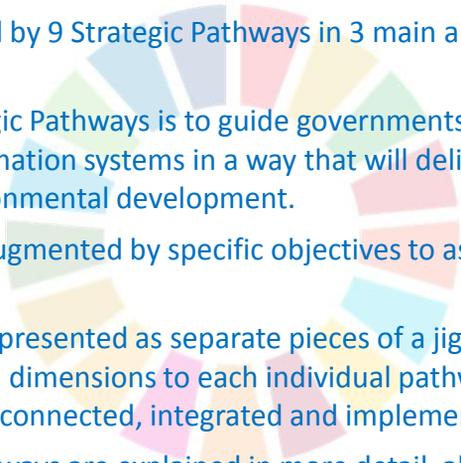
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Overarching Strategic Framework: Strategic Pathways

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- The Framework is anchored by 9 Strategic Pathways in 3 main areas of influence: Governance; Technology; and People.
 - The objective of the Strategic Pathways is to guide governments towards implementing integrated geospatial information systems in a way that will deliver a vision for sustainable social, economic and environmental development.
 - Each Strategic Pathway is augmented by specific objectives to assist countries in achieving the required results.
 - The Strategic Pathways are presented as separate pieces of a jigsaw puzzle in recognition that there are many aspects and dimensions to each individual pathway, and that when joined together, the Framework is connected, integrated and implemented.
 - Each of the 9 Strategic Pathways are explained in more detail, along with specific actions, in Part 2: Implementation Guide.



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<p>The efficient use of geospatial information</p> <p>To promote and support integrated geospatial information</p>	<p>GOALS</p>							
	<p>Effective Geospatial Information Management</p> <p>Sustainable Education and Training Programs</p>	<p>Increased Capacity, Capability and Knowledge Transfer</p> <p>International Cooperation and Partnerships Leveraged</p>	<p>Integrated Geospatial Information Systems and Services</p> <p>Enhanced National Engagement and Communication</p>	<p>Economic Return on Investment</p> <p>Enriched Societal Value and Benefits</p>				
<p>National Development Expectations • Multi-National Urban Agenda • Island Developing States • Climate Change</p> <p>Strategic Enablement</p> <p>Effective Geospatial Information Management</p> <p>Sustainable Education Training Programs</p>	<p>STRATEGIC PATHWAYS</p>							
	<p>Governance and Institutions</p> <p>Governance model Institutional structures Leadership Value proposition</p>	<p>Legal and Policy</p> <p>Legislation Implementation and accountability Norms, policies and guides Data protection and licensing</p>	<p>Financial</p> <p>Business model Investment Partnerships and opportunities Benefits realization</p>	<p>Data</p> <p>Fundamental data themes Data supply chain interlinkages Custodianship, acquisition and management Data curation and delivery</p>	<p>Innovation</p> <p>Technological advances Promoting innovation and creativity Process improvement Bridging the digital divide</p>	<p>Standards</p> <p>Legal interoperability Semantic interoperability Data interoperability Technical interoperability</p>	<p>Partnerships</p> <p>Cross-sector and interdisciplinary cooperation Community participation Industry partnerships and joint ventures International collaboration</p>	<p>Capacity and Education</p> <p>Awareness raising Entrepreneurship Formal education Professional workplace training</p>
<p>Knowledge Decisions Development Society Economy Environment Users Citizens Access Technology Applications Value</p>								

Geospatial information is a critical component of the national infrastructure and knowledge economy; a blueprint of what happens where, and the means to integrate a wide variety of government services.

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Anchored by nine Strategic Pathways, the Framework is a mechanism for articulating and demonstrating national leadership in geospatial information, and the capacity to take positive steps.

Knowledge ▪ Decisions ▪ Development

Governance and Institutions **Legal and Policy** **Financial**

Data **Innovation** **Standards**

Partnerships **Capacity and Education** **Communication and Engagement**

Society ▪ Economy ▪ Environment

Governance **Technology** **People**

Users ▪ Citizens ▪ Access

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Strengthening National Geospatial Information Management



The 9th session of the United Nations Committee of Experts on Global Geospatial Information Management, is scheduled to be held from 7 – 9 August 2019 at UNHQ New York

Strengthening national geospatial information management to support Member States implementing national strategic priorities for the wellbeing people, planet and prosperity, and to keep the promise to leave no one behind



THANK YOU



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