

UN-GGIM – Integrated Geospatial Information Framework and linkages to INSPIRE – unlocking benefits



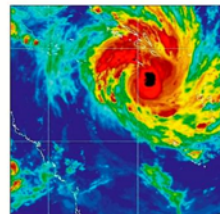
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UNITED NATIONS INITIATIVE ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT



Tomaž PETEK & Greg SCOTT
Vrdnik, 18.9.2019

How can you measure and monitor sustainable development.....without location and geography



Underpinning the post-2015 Development Agenda

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48 European UN Member States 10 observers



Member State	Observer
Albania	Andorra
Armenia	Austria
Azerbaijan	Bahrain
Belgium	Bosnia and Herzegovina
Bulgaria	Chad
Cyprus	Czech Republic
Croatia	Denmark
Cyprus	Egypt
Czechia	Germany
Denmark	Hungary
Egypt	Iceland
France	Italy
Germany	Latvia
Greece	Lithuania
Hungary	Malta
Iceland	Malta
Italy	Moldova
Latvia	Netherlands
Lithuania	Norway
Malta	Poland
Moldova	Portugal
Netherlands	Romania
Norway	Russia
Poland	Serbia
Portugal	Slovakia
Romania	Slovenia
Russia	Spain
Serbia	Sweden
Slovakia	Turkey
Slovenia	Ukraine
Spain	United Kingdom
Sweden	
Turkey	
Ukraine	
United Kingdom	

<http://un-ggim-europe.org/content/member-states>



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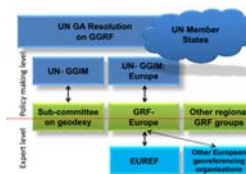
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UN-GGIM: Europe – Regional Working Groups

- Working Group on Core Data is focusing on increasing data interoperability and harmonisation by proposing core geospatial data which meets essential user needs
 - issued recommendations for content for four themes since last plenary
- Working Group Data Integration works to ensure that the regional entity focuses on how geospatial data can enhance sustainable development and the 2030 Agenda in Europe.
 - Delivered on all scheduled tasks outlined in work plan
- Working Group on Geodetic Reference Frame - Europe has a close connection to the various geodesy-related organisations in Europe, and actively contributes to the of the SCoG.
 - Currently reviewing its scope to avoid regional duplication

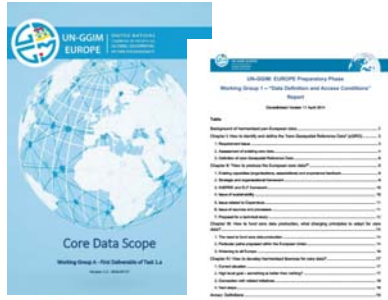


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Work Group A, Core Data: Increasing data interoperability and harmonisation by proposing core geospatial data which meets essential user needs

- Supply three deliverables:
 1. Specifications of core data (End - 2015)
 2. Report on suitable economic model for production and distribution of core data (End 2016)
 3. Report on political and financial frameworks to support core data availability (Mid-2017)



<http://un-ggim-europe.org/content/wg-a-core-data>



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Work Group B, Data Integration: Enabling integration of core geospatial data with other data in order to foster further usage

- Supply three deliverables:
 4. Definition of the priority user needs for combinations of data (Mid-2015).
 5. Recommendation for methods implementing the prioritised combinations of data (Mid-2016)
 6. Recommendation about how to manage side-effects induced by data combinations (Mid-2016)



5 principles of the Statistical Geospatial Framework (SGF)



<http://un-ggim-europe.org/content/wg-b-data-integration>



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UN-GGIM Workshops and Expert Group Meetings

Programmes

- Sustainable Development
- Subcommittee on Geodesy
- Integration of Statistical and Geospatial Information
- Land Administration and Management
- Statement of Shared Principles
- National Institutional Arrangements
- Geospatial Information and Services for Disasters



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Contribution to UN-GGIM - Fundamental Data

The Committee of Experts mandated UN-GGIM: Europe to establish and lead a Global Working Group for Fundamental Data to draw together current projects from different UN-GGIM regional bodies to determine global fundamental geospatial data themes.



The Working Group continued with its work, and successfully fulfilled its mandate and terms of reference. A report on work of the UN-GGIM WG on Fundamental Data was submitted to the Committee of Experts at its Eight Session.



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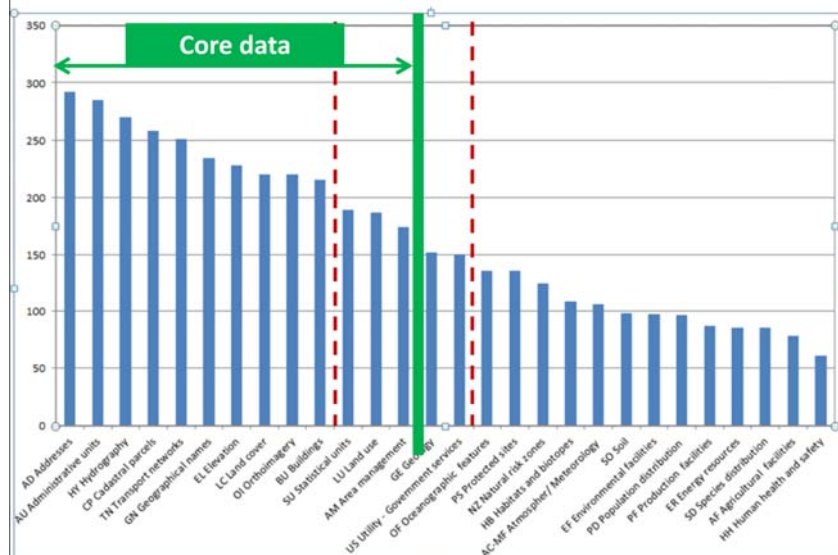


Comparison with INSPIRE

	INSPIRE	UN-GGIM: Europe WG core data
Driver	European Commission (DG ENV, JRC, Eurostat, EEA)	United Nations (UN-GGIM: Europe Executive Committee)
Geographic scope	European Union Politic Europe	Geographic Europe
Objective	Harmonise existing data	Get harmonised data by all means (including production of new data)
Status	European Directive Legal obligation for MS	UN Recommendation Encouragement to MS



Themes Selection



Final list of selected core data themes

<p>Annex I</p> <ul style="list-style-type: none"> Coordinate Reference Systems Geographical Grid Systems Geographical Names Administrative Units Addresses Cadastral Parcels Transport Networks Hydrography Protected Sites 	<p>Annex II</p> <ul style="list-style-type: none"> Elevation Land Cover OrthoImagery Geology 	<p>Annex III</p> <ul style="list-style-type: none"> Statistical units Buildings Soil Land use Human health and safety Utility and governmental services Environmental monitoring facilities Production and industrial facilities Agricultural and aquaculture facilities Population distribution - demography Area management/restriction/regulation Natural risk zones Atmospheric conditions Meteorological geographical features Oceanographic geographical features Sea regions Bio-geographical regions Habitats and biotopes Species distribution Energy resources Mineral resources
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How INSPIRE has helped

	INSPIRE	UN-GGIM: Europe WG core data	
Terminology	INSPIRE themes well defined in the Directive and in data specifications	Wonderful common understanding within WG and for communication	
Use cases (scope)	Environmental policies and policies having impact on Environment	Sustainable Development Goals: - Environment - Economy - Society	To be completed by other sources (expert interviews, ...)
Use cases (documentation)	Described in data specification (annex B) but with heterogeneous quality	Have been used as main source by WG in the user requirement survey	

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Contribution to UN-GGIM – IAEG-SDG WGGI

UN-GGIM: Europe continues with its active participation and contribution to Inter-Agency and Expert Group on Sustainable Development Goals Indicator (IAEG-SDGs) Working Group on Geospatial Information. Participating in the meetings and aligning the work of the regional Working Group on Data Integration to provide European input to the Expert Group.

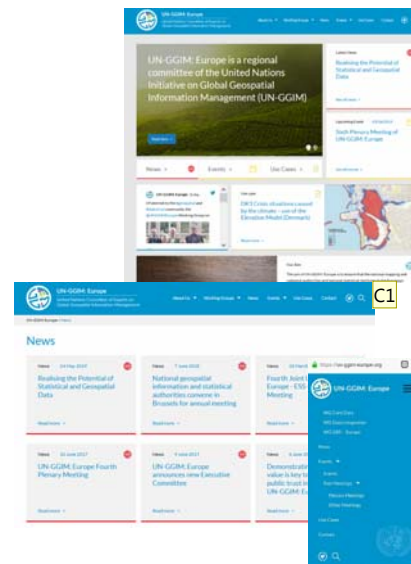


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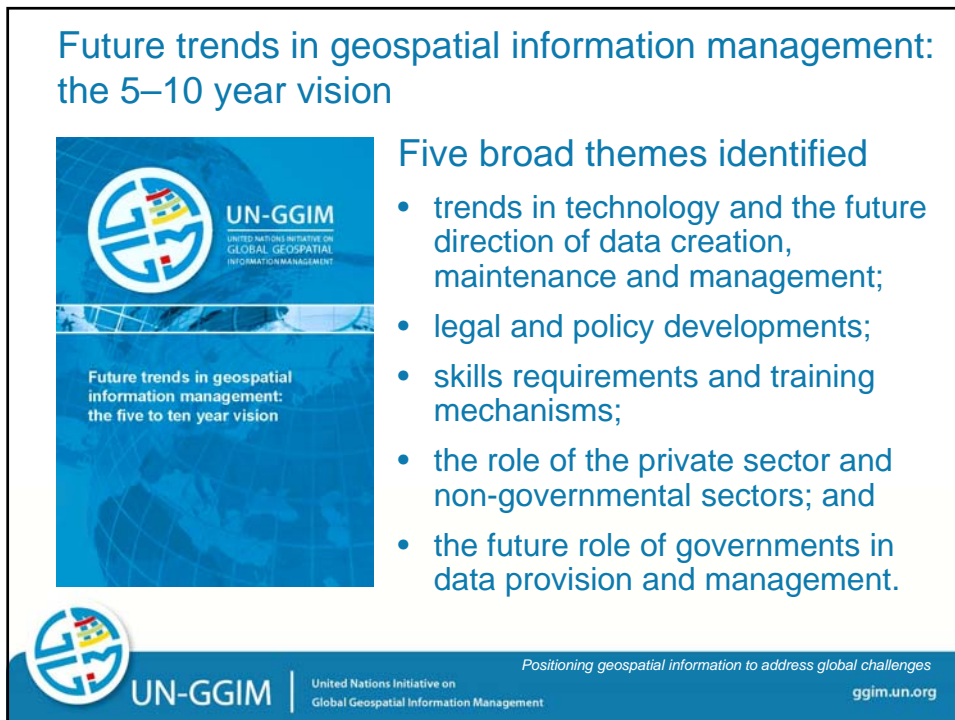
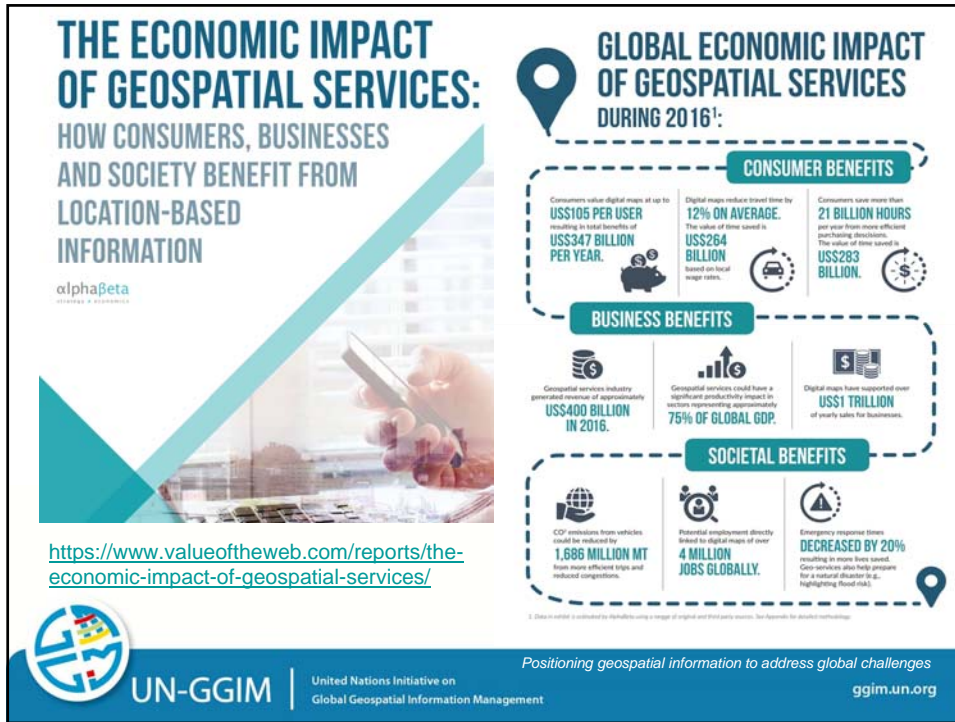
A fresh new look website

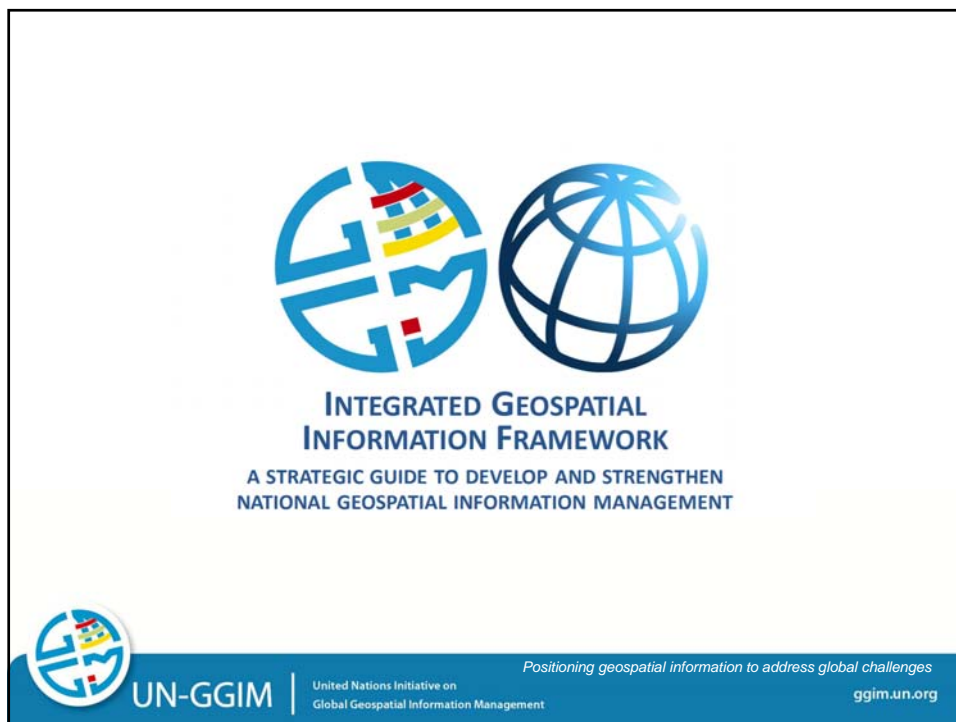
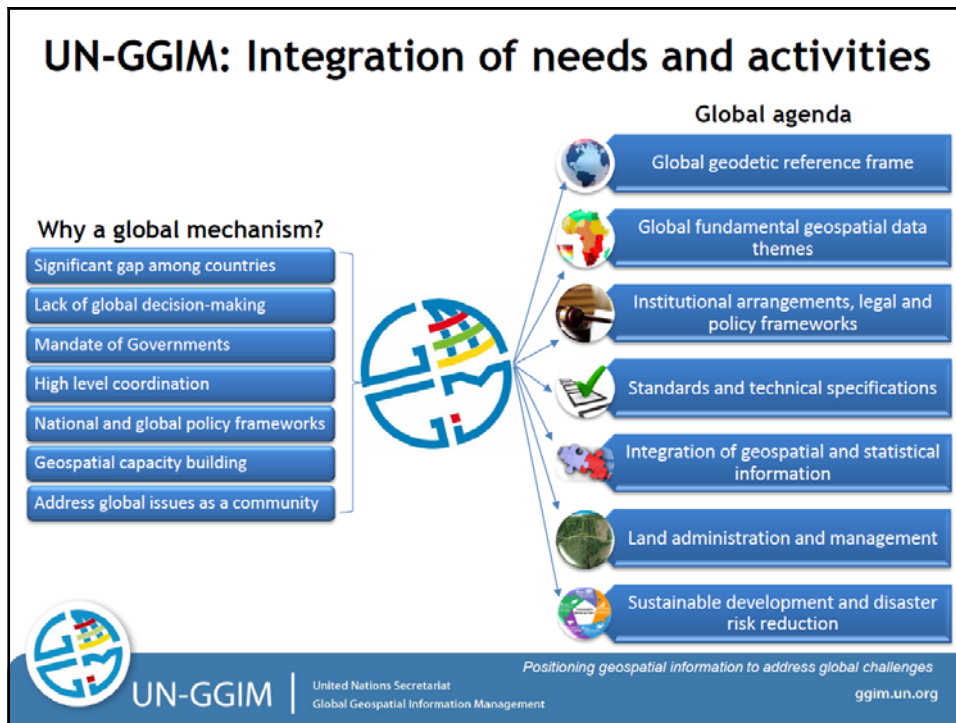
- Updated and relaunched the UN-GGIM: Europe website
- Providing a modern interface for the Regional Committee's website on a secure platform
- Optimised to work well across different device types
- Knowledge sharing and capacity development



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The **Integrated Geospatial Information Framework** comprises a 3-part document set as separate, but connected, documents. The **Overarching Strategic Framework** is fully developed following a global consultation. The structure and main elements of the **Implementation Guide** are developed for in-principle approval. The **Country-level Action Plans** are work in progress.

Part 1: Overarching Strategic Framework (Why?)
Part 2: National Implementation Guide (What?)
Part 3: National (or sub-national) Action Plans/Delivery System (How, when, who?)

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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 7 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

- 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 8 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.

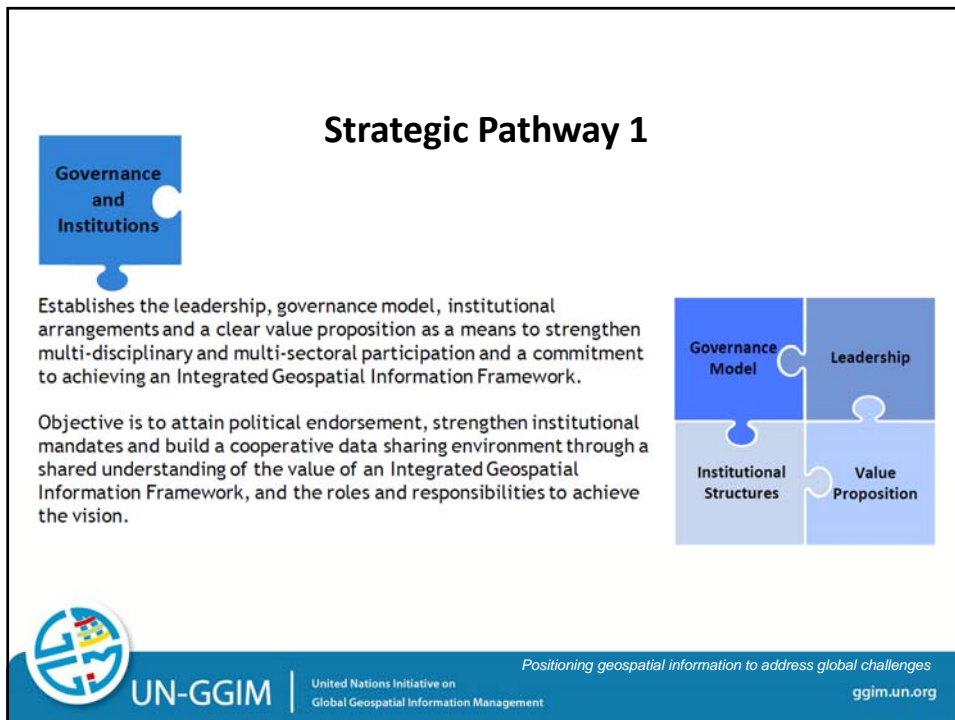
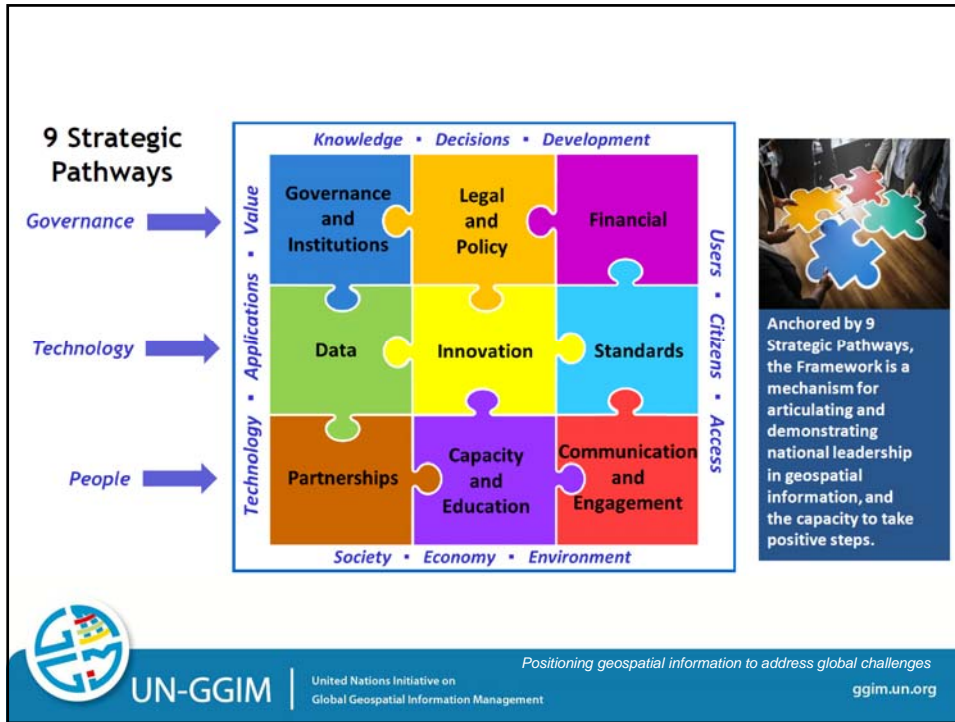


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Strategic Pathway 2



Establishes a robust legal and policy framework that is essential to institute appropriate national geospatial information legislation and policy that enables the availability, accessibility, exchange, application and management of geospatial information.

Objective is to address current legal and policy issues by improving the laws and policies associated with, and impact on, geospatial information management; proactively monitoring the legal and policy environment, particularly with regard to designating official responsibility for the production of data, and with respect to issues raised by emerging technologies and innovative and creative use of geospatial information.



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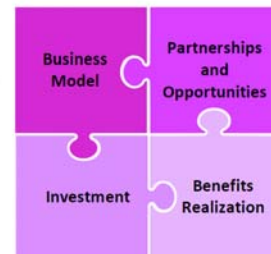
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Strategic Pathway 3



Establishes the business model, develops financial partnerships, and identifies the investment needs and funding sources for delivering integrated geospatial information management, as well as recognizing the benefits realization milestones that will achieve and maintain momentum.

Objective is to achieve an understanding of the implementation costs and ongoing financial commitment necessary to deliver integrated geospatial information management that can be sustained and maintained in the longer term.



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Strategic Pathway 4

Data

Establishes a geospatial data framework and custodianship guidelines for best practice collection and management of integrated geospatial information that is appropriate to cross sector and multidisciplinary collaboration.

Objective is to enable data custodians to meet their data management, sharing and reuse obligations to government and the user community through the execution of well-defined data supply chains for organizing, planning, acquiring, integrating, managing, maintaining, curating, publishing and archiving geospatial information.

Fundamental Data Themes	Custodianship, Acquisition and Management
Data Supply Chain Interlinkages	Data Curation and Delivery

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Strategic Pathway 5

Innovation

Recognizes that technology and processes are continuously evolving; creating enhanced opportunities for innovation and creativity that enable governments to quickly bridge the digital divide.

Objective is to stimulate the use of the latest cost-effective technologies, process improvements and innovations so that governments, no matter what their current situation is, may leapfrog to state-of-the-art geospatial information management systems and practices.

Technological Advances	Process Improvement
Promoting Innovation and Creativity	Bridging the Digital Divide

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Strategic Pathway 6



Establishes, and ensures the adoption of, best practice standards and compliance mechanisms that enable legal, data, semantic and technical interoperability, which are fundamental to delivering integrated geospatial information and knowledge creation.

Objective is to enable different information systems to communicate and exchange data, enable knowledge discovery and inferencing between systems using unambiguous meaning, and provide users with lawful access to and reuse of geospatial information.



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Strategic Pathway 7



Establishes effective cross-sector and interdisciplinary cooperation, industry and private sector partnerships, and international cooperation as an important premise to developing a sustainable Integrated Geospatial Information Framework.

Objective is to create and sustain the value of geospatial information through a culture based on trusted partnerships and strategic alliances that recognize common needs and aspirations, and national priorities.



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Strategic Pathway 8



Establishes enduring capacity building programs and education systems so that geospatial information management and entrepreneurship can be sustained in the longer term.

Objective is to increase the awareness and level of understanding of geospatial information science. This includes developing and strengthening the skills, instincts, abilities, processes and resources that organizations and communities require to utilize geospatial information for decision-making.



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Strategic Pathway 9



Recognizes that stakeholders (including the general community) are integral to the implementation of integrated geospatial information management systems and that their buy-in and commitment is critical to success.

Objective is to deliver effective and efficient communication and engagement processes to encourage greater input from stakeholders to achieve transparent decision-making processes when implementing the Geospatial Information Management Framework.

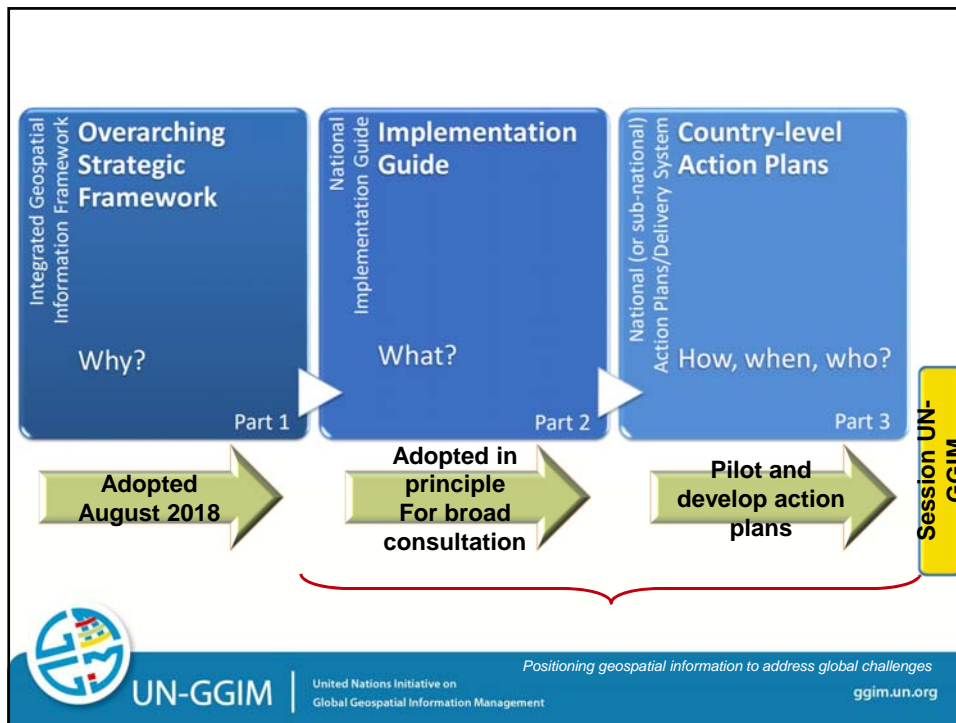


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Unleashing the power of 'Where'

CONCLUSIONS:

- Influence of disruptive technology
- New institutional arrangements
- New role of NMA
- Importance of regional cooperation
- Be visible: prepare national reports

... to make the world a better place.

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