

4th Plenary of UN-GGIM: Europe UN-GGIM: Strengthening the Global Data Ecosystem

Greg Scott

Global Geospatial Information Management United Nations Statistics Division Department of Economic and Social Affairs United Nations, New York



United Nations Secretariat Global Geospatial Information Management



REQUIRES COURAGE TO COMMIT STRENGTH IS IN THE IMPLEMENTATION



United Nations Secretariat Global Geospatial Information Management

ECOSOC Resolution 2016/27

- Acknowledged the considerable achievements and progress made by the Committee of Experts in the area of global geospatial information management, its contribution to the strengthening of geospatial information management capacities and utilization in developing countries, and recognized the relevance of geospatial information for the various United Nations policy agendas.
- Stressed the need to strengthen the coordination and coherence of global geospatial information management, in capacity-building, norm-setting, data collection, dissemination and sharing, among others, through appropriate coordination mechanisms, including in the broader United Nations system, building on the work of the Committee.
- Item on the Council's agenda changed from 'Cartography' to 'Geospatial information, and *invited the Committee to report on all matters relating to geography, geospatial information and related topics; and to report back to the Council within five years on the implementation of the present resolution.*





United Nations Secretariat Global Geospatial Information Management

Global development policy framework

Global Geospatial Information Management











Do we really understand the scale of the problems, <u>where</u> they are, <u>whom</u> they impact, <u>what</u> are the causes, and <u>how</u> they can be remedied?

> 5 GENDER EQUALITY

REDUCED



Do we have the data for development?? Can we make it 'production ready' information for all?

5 GENDER EQUALITY

GLOBAL DEVELOPMENT POLICY FRAMEWORK

The 2030 AgendaSendai Frameworkfor Sustainablefor Disaster RiskDevelopmentReduction 2015-2030	SIDS Accelerated Modalities of Action (SAMOA) Pathway	Paris Agreement on Climate Change	HABITAT III Urban Agenda
---	---	--------------------------------------	-----------------------------

How does Digital Transformation

enable the 'data ecosystem'

to achieve Sustainable Development?





How do we bridge

the Digital Divide?





2030 Agenda: Goals, targets, indicators





232 global indicators to follow-up and review progress

Implementation via national planning processes, policies, strategies and frameworks

Measuring and monitoring: Statistics, geospatial information, Earth observations and other Big Data





United Nations Secretariat Global Geospatial Information Management Positioning geospatial information to address global challenges

Addressing the data needs for the 2030 Agenda

Need to include all parts of the statistical system and new data sources Need for quality, accessible, timely and reliable disaggregated data

Interoperability and integration of systems is crucial to harnessing the potential of all types of data Data on a wide range of topics; unprecedented amount of data

UN-GGIM

United Nations Secretariat Global Geospatial Information Management Positioning geospatial information to address global challenges

Addressing the data needs for the 2030 Agenda

- <u>The scope of the 2030 Agenda</u> requires high-quality and disaggregated data that are timely, open, accessible, understandable and easy to use for a large range of users, including for decision making at all levels.
- There is a need for a <u>reporting system on the SDGs</u> that would have benefit from the sub-national (local) to the national level; and allow for global reporting that builds directly on the data shared by countries.
- Important to create an opportunity for <u>countries to directly contribute to the</u> <u>global reporting</u>. While the challenges are immense, the digital technology that is available today allows the necessary transformation.
- An aspiration is to <u>strengthen countries' national geospatial and statistical</u> <u>information systems</u> to facilitate and enable a '*data ecosystem*' that leverages an accessible, integrative and interoperable local to global system-of-systems.



UN-GGIM: 2011-2016 - Develop the global understanding of geospatial information

UN-GGIM: 2017-2021 - Coordination, coherence and implementation

- Facilitate the strengthening and normative capacity building of global geospatial information management in support of the implementation of the 2030 Agenda.
- Efforts include promoting the use of geospatial information systems and services for modern mapping; methodological development; national and regional capacity-building; standards-setting; data collection, dissemination and sharing; and better integration of geospatial and statistical information systems for Member States.
- Regional Commissions provide relevant support, upon request and as appropriate, to the work of the regional committees of UN-GGIM, and that the outcomes and benefits of the activities be equally disseminated to all Member States in each region.



- UN-GGIM: 2017-2021 Coordination, coherence and implementation
- 1. Maturity: Moving from "GGIM 1.0 to GGIM 2.0" determining our value proposition to ECOSOC in the next 2-3 year horizon.
- 2. Strategy and roadmap on the ECOSOC resolution and how we implement the new and strengthened mandate.
- 3. A new Strategic Plan for UN-GGIM that considers 2020 and beyond in 5 year time steps.
- 4. Raising more awareness, including political, of UN-GGIM and connecting the political technical levels within Member States.
- 5. Connecting more to the activities of the regional committees, Regional Commissions, and relevant statistical bodies.
- 6. Ensuring effective coordination and linkages across global/regional Expert & Working Groups.
- 7. Seek extra-budgetary and funding options, including ways of implementation.
- 8. More capacity development for countries in next 5 years developing guides, standards, methods and norms.





2017-2021 Strategic Framework

	VISION	Positioning geospatial information to address global challenges							
CONTEXT	MISSION	Operating within agreed policies and institutional arrangements, and as an interconnected global community of practice, the Committee of Experts will ensure that geospatial information and resources are coordinated, maintained, accessible, and able to be used effectively and efficiently by Member States and society to address key global challenges in a timely manner							
	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			



	GLOBAL POLICY FRAMEWORK	Transforming our World: The 2030 Agenda for Sustainable Development						
REQUIREMENTS		Sendai Framework for Disaster Risk Reduction 2015-203	Modalit	Accelerated ies of Action (A) Pathway	Addis Abab Action Agen			HABITAT III Jrban Agenda
	GEOSPATIAL CHALLENGES & DRIVERS	Environmental managementDisaster managementSustainable developmentPopulationUrban planningHumanitarian assistanceFood securityEducationNational securityLand managementClimate changeWater scarcityOceans & marineInstitutional governanceLegal & policyHealth & welfarePoverty reductionSustainable citiesSocio-economic metrics						
	DIRECT NATIONAL BENEFITS & EFFICIENCIES	 Reduced duplication of effort in the capture, management, and delivery of fundamental geospatial information Authoritative, reliable and maintained geospatial data available nationally, regionally, and globally Increased return on investment through better coordination, use and reuse of data, information and systems Better evidence-based decision making, supported by good data, science and policy More open, accountable, responsive and efficient governments Presentation and delivery of timely and 'fit for purpose' data in times of need Increased collaboration and integration of national data and information systems across all levels of government Best practices and use cases for enriching national processes on geospatial information management 						
	OPERATING PRINCIPLES	Policies, Legal Fu Frameworks & Au Institutional I	rovision of ndamental thoritative Data and formation	Agreed Standards, Methods, Guides and Frameworks	Principles on Geospatial Information and Open Data	Integration and Interoperability of National Information Systems	Information Sharing and Knowledge Transfer	0
DELIVERABLES	WORKING ACTIVITIES AND OUTPUTS	 Geospatial Information for Sustainable Development: 2030 Agenda, Sendai Framework, etc. Integration of Geospatial & Statistical Information: Implement the Global Statistical Geospatial Framework Geospatial Information and Services for Disasters: Implement Strategic Framework Global Geodetic Reference Frame: Roadmap to Implement Determination of global fundamental data themes 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 						

Frameworks, guides, norms, standards and methodological development

Strengthening global geospatial information management



Contribution of regional committees, thematic groups and networks

Legal and policy frameworks and issues related to authoritative data



Trends in national institutional arrangements

K

Adoption of standards and technical specifications

UNGEGN

Strengthening collaboration with UNGEGN



United Nations activities in geospatial information management



Secretariat programme management

UN-GGIM: Strengthening the Global Data Ecosystem



The activities and efforts that contribute to the unique local-to-global value of UN-GGIM for Member States







Global fundamental geospatial data themes

Integration of geospatial, statistical and other information

Geospatial information and services for disasters

Land administration and management



Geospatial information for sustainable development



National geospatial data and information systems



Marine geospatial information



Strengthening global geospatial information management

- Strategic Framework is presented as a starting point for discussion towards a strategic plan and road map that will enable the Committee to be better supported by the regional committee architecture and the Regional Commissions.
- Continue to work on global policies for geospatial information management in tandem with producing tangible outputs such as norms, handbooks, methodologies, standards and guidelines.
- Need for closer synergies with the activities of the regional committees and working groups, Regional Commissions, and relevant statistical bodies.
- Substantively improve and strengthen the national geospatial information management capacities of developing countries towards implementing the 2030 Agenda and other global policies.





National geospatial data and information systems

- Effort by UNSD and the World Bank to explore and develop possible mechanisms for geospatial data, infrastructure and policies to be embedded more holistically within concessional financing, technical assistance and knowledge-sharing services and their subsequent implementation in developing countries.
- Recognizes the need for collaboration in <u>developing an overarching geospatial</u> <u>framework that countries could reference</u> when using geospatial information to develop national systems tailored to their own situations.
- The framework would include an action plan and road map on means for implementation, as well as elements such as the economic impact and value of geospatial information systems, investment needs and associated principles, tools, guides and good practices.





Global Geospatial Information Management



The fact is that no species has ever had such wholesale control over everything on earth, living or dead, as we now have. That lays upon us, whether we like it or not, an awesome responsibility. In our hands now lies not only our own future, but that of all other living creatures with whom we share the earth.

David Attenborough



United Nations Secretariat Global Geospatial Information Management