Ninth Session of the Committee of Experts on UN-GGIM
UN-GGIM Academic Network and Geospatial Societies Open Forum

Building Technical Capacities for Resilience and Sustainability

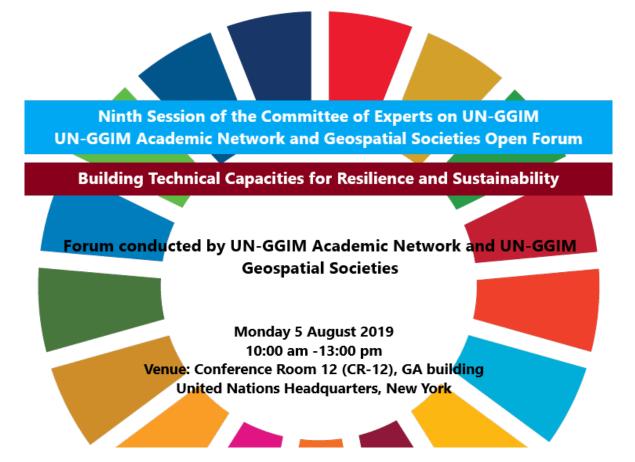
Forum conducted by UN-GGIM Academic Network and UN-GGIM
Geospatial Societies

Monday 5 August 2019 10:00 am -13:00 pm Venue: Conference Room 12 (CR-12), GA building United Nations Headquarters, New York

WELCOME







Opening Remarks





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Setting the Scene



Acknowledgment





The Academic Netw a formal body const as part of the UN-G and is the strategic, knowledge, researc training arm of UN-



spatial Societies the work of the M while leverage bal networks re typically cally organized. n aligning these -GGIM working pics.

Forum Aims - Building Technical Capacities

Examine SDGs requirements, connections and links

Exchange ideas
on best
practices and
technical
capacities
available

Potential pathways for sustainable and resilient future

Forum Objectives

Building Technical Capacities for Resilience and Sustainability Challenges and Opportunities

- 1. Discuss resilience and resilience impact of national land and geospatial.
- 2. Present the status of geospatial techniques applied for resilience and sustainability.
- 3. Discuss the current capacity building related to these techniques, identifying the main challenges and designing possible solutions.
- 4. Develop a roadmap that discusses methods and tools for improving geospatial and land and technical capacity, particularly in (but not limited to) developing countries.
- 5. Develop a work plan to assist UN-GGIM and member states to respond to the need for developing technical capacity building for resilience and sustainability in the context of SDGs.

Forum Structure

- Opening
- 2 Sessions
- 10 Presentations
- Open Discussion

TIME	DETAILS					
OPENING SES	SION					
10:00 – 10:30	Welcome and Opening by Forum Co-Chairs Prof. Abbas Rajabifard (Chair, UN-GGIM Academic Network Prof M.J. Kraak (Chair, UN-GGIM Geospatial Societies) Opening Remarks Mr. Stefan Schweinfest (Director, United Nations Statistics Division)-TBC Mr. Wael Zakout (World Bank Sr. Technical Advisor, Global Lead, Land Policy and Geospatial)					
SESSION 1	Resilience and Sustainability - Challenges and Opportunities					
	FIG and SDGs, Prof Rudolf Staiger (President, FIG)					
	Resilience and Sustainability- Legal Challenges and Requirements, Prof. Harlan Onsrud (Advisory Board, UN-GGIM Academic Network/Director, School of Computing & Information Science, University of Maine)					
10:30 – 11:30	Improving Resilience and Resilience Impact of National Land and Geospatial Systems Mr. Alvaro Barra (World Bank, Global Land & Geospatial Unit, Social Urban, Rural & Resilience)					
	Supporting Sustainability – Institutional needs and Governance Framework – Prof. Joep Crompvoets (Advisory Board, UN-GGIM Academic Network/KU Leuven)					
	Improving professional skills in support of resilience and Sustainability. The Role of Surveyors in the Era of crowdsourcing and VGI, Prof Chryssy Potsiou (Member of Academic Network, Honorary FIG President)					
11:30 - 11:45	BREAK					
SESSION 2	Resilience and Sustainability – Building Technical Capacities Open Data and Open Software in Building Technical Capacities-Prof Maria Brovelli (Politecnico di Milano University, Deputy Chair, Academic Network)					
	Mapping for a Ssustainable World, Prof. Menno-Jan Kraak (ICA President, Advisory Board, UN-GGIM Academic Network/University of Twente)					
11:45 – 12:50	Prof Songnian Li (ISPRS, Member of Geospatial Societies)					
	Academia underpins insight, innovation and interoperability for resilience and sustainability, Mr Mark Reichardt (OGC Director, Strategic Opportunities) Data Infrastructure and SDGs Dashboard– Prof. Abbas Rajabifard (Chair, UN-GGIM Academic Network/Director, Centre for SDIs & Land Administration, The University of Melbourne)					
CLOSING SESSI						
12:50 – 13:00	Way Forward and Closing Remarks Prof. Abbas Rajabifard and Prof M.J. Kraak (Forum Co-Chairs)					

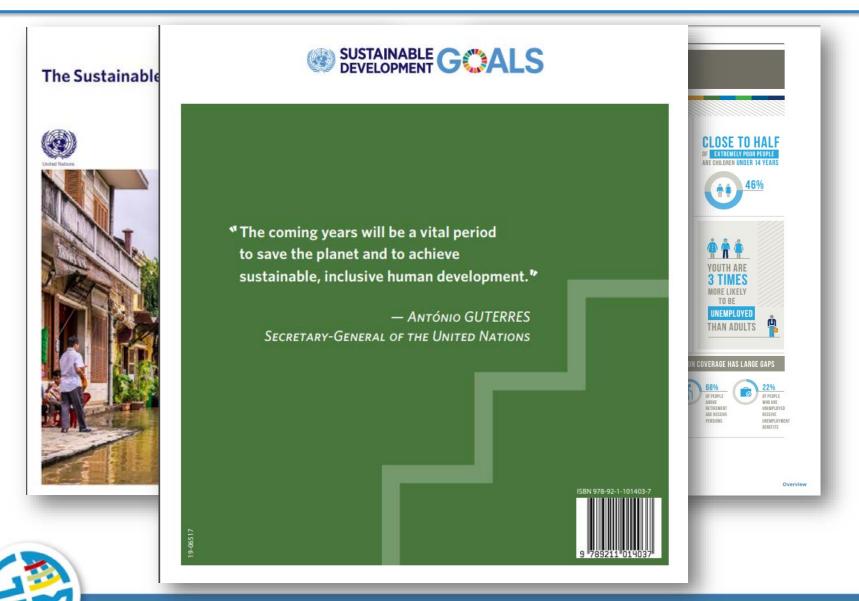


Acknowledgment: Speakers



The SDG Report 2019

UN-GGIM



Interlinked Nature of Challenges



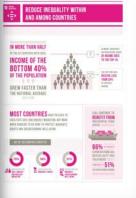
The SDG Report 2019



















The SDG Report 2018 & 2019



Interlinked nature of the SDGs



This Forum

Building Technical Capacities for Resilience and Sustainability

Challenges and Opportunities



Requirements: Forum Themes

Transdisciplinary Roadmaps

Spatial Enablement

Mapping social, economic & environmental interconnections for sustainable development

Capacity
Building &
Training

Building Technical
Capacities for
Resilience and
Sustainability
in the context of
SDGs

Enabling tools for the SDGs addressing Resilience and Sustainability

Geospatial
Technologies
& Platforms

Utilize Urban Analytics to enhance social and spatial attributes of communities

Spatial Data
Infrastructures

Interdisciplinary research frameworks



INTEGRATED GEOSPATIAL INFORMATION FRAMEWORK (IGIF) TO SUPPORT SDGS





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.

STRATEGIC DRIVERS

National Development Agenda • National Strategic Priorities • National Transformation Programme • Community Expectations • Multilateral trade agreements • Transforming our World: 2030 Agenda for Sustainable Development • New Urban Agenda • Sendai Framework for Disaster Risk Reduction 2015–2030 • Addis Ababa Action Agenda • Small Island Developing States Accelerated Modalities of Action (SAMOA Pathway) • United Nations Framework Convention on Climate Change (Paris Agreement) • United Nations Ocean Conference: Call for Action

UNDERPINNING PRINCIPLES

	Strategic Enablement	Transparer and Accountab	Accessible and		aboration and peration	Integrative Solution	l	inable and Valued	Leadership and Commitment
GOALS									
Effective Geospatial Information Management		Increased Capacity, Capability and Knowledge Transfer		Integrated Geospatial Information Systems and Services		Economic Return on Investment			
Sustainable Education and Training Programs		International Cooperation and Partnerships Leveraged		Enhanced National Engagement and Communication			Enriched Societal Value and Benefits		

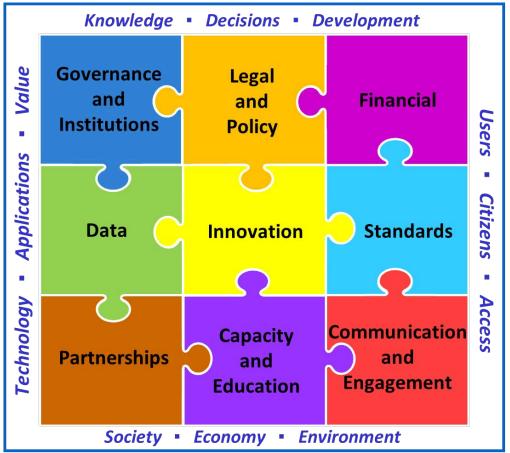


9 Strategic Pathways

Governance _____

Technology

People ____





Anchored by 9
Strategic Pathways,
the Framework is a
mechanism for
articulating and
demonstrating
national leadership
in geospatial
information, and
the capacity to take
positive steps.



Forum Objectives – Opportunity for Discussions

Building Technical Capacities for Resilience and Sustainability - Challenges and Opportunities

- 1. Discuss resilience and resilience impact of <u>national land and geospatial</u>.
- 2. Present the **status of geospatial techniques** applied for resilience and sustainability.
- 3. Discuss the **current capacity building** related to these techniques, identifying the main challenges and designing possible solutions.
- 4. Develop a **roadmap** that discusses **methods and tools for improving** geospatial and land and technical capacity, particularly in (but not limited to) developing countries.
- 5. Future workplan to assist UN-GGIM and member states to respond to the need for developing technical capacity building for resilience and sustainability in the context of SDGs.

Presentation Themes

Today's Discussions

Urban Analytics

Mapping SDG **Indicators**

Monitoring **Progress**

SDGs Interactions

Land Administration Governance Framework

Resilient Cities

Resilient C
Resilience
Impact of **National Land** and Geospatial **Systems**

Urban Resilience



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Thank You

Professor Abbas Rajabifard

Chair, UN-GGIM Academic Network
The University of Melbourne

E: <u>abbas.r@unimelb.edu.au</u>