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
Ninth Session of the Committee of Experts on UN-GGIM
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Setting the Scene
Acknowledgment

The Academic Network is a formal body constituted as part of the UN-GGIM and is the strategic, knowledge, research and training arm of UN-GGIM. The Geospatial Societies support the work of the UN-GGIM while leveraging their global networks which are typically thematically organized. They aim to aligning these with UN-GGIM working group topics.
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
- Opening
- 2 Sessions
- 10 Presentations
- Open Discussion

<table>
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<th>TIME</th>
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| 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) |
| 10:00 – 10:30 | 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) |
| 10:30 – 11:30 | SESSION 1  
Resilience and Sustainability - Challenges and Opportunities  
FIG and SDGs, Prof Rudolf Staiger (President, FIG) |
| 10:30 – 11:30 | 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) |
| 11:30 – 11:45 | BREAK |
| 11:45 – 12:50 | 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) |
| 11:45 – 12:50 | Mapping for a Sustainable 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) |
| 11:45 – 12:50 | Academia underpins insight, innovation and interoperability for resilience and sustainability, Mr Mark Reichardt (OGC Director, Strategic Opportunities) |
| 11:45 – 12:50 | Data Infrastructure and SDGs Dashboard– Prof. Abbas Rajabifard (Chair, UN-GGIM Academic Network/Director, Centre for SDIs & Land Administration, The University of Melbourne) |
| 12:50 – 13:00 | CLOSING SESSION   
Way Forward and Closing Remarks  
Prof. Abbas Rajabifard and Prof M.J. Kraak (Forum Co-Chairs) |
Acknowledgment: Speakers
“The coming years will be a vital period
to save the planet and to achieve
sustainable, inclusive human development.”

— António Guterres
Secretary-General of the United Nations
Interlinked Nature of Challenges

Social

Economic

Governance

Environmental

Sustainable urbanization

Smart cities

Disaster risk reduction

Secure land rights

Infrastructure resilience

Community Resilience

Migration

Partnerships and collaboration

LEAVE NO ONE BEHIND

LEAVE NO ONE BEHIND
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

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

Enabling tools for the SDGs addressing Resilience and Sustainability

Spatial Data Infrastructures

Spatial Enablement

Utilize Urban Analytics to enhance social and spatial attributes of communities

Geospatial Technologies & Platforms

Interdisciplinary research frameworks

Spatial Enablement

Capacity Building & Training

Academic Network and Geospatial Societies
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 | Transparent and Accountable | Reliable, Accessible and Easily Used | Collaboration and Cooperation | Integrative Solution | Sustainable 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 |
Positioning geospatial information to address global challenges

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 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. **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

Connectivity
- Urban Analytics
- Mapping SDG Indicators
- Monitoring Progress
- SDGs Interactions

Sustainability
- Land Administration
- Governance Framework

Resilience
- Resilient Cities
- Resilience Impact of National Land and Geospatial Systems
- Urban Resilience
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Thank You

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