

Forum

Secure Land Rights and Smart Cities -Making It Work for Sustainable Development

WELCOME

Monday, 31 July 2017 United Nations Headquarters, New York



UN-EG-LAM IN-GGIM Private Sector Network

In collaboration with:

Secure Land Rights and Smart Cities - Making It Work for Sustainable Development

WELCOME and Opening Remarks

Professor Abbas Rajabifard
Chair, UN-GGIM Academic Network

Mr. Stefan Schweinfest

Director, United Nations Statistics Division



Monday, 31 July 2017

Secure Land Rights and Smart Cities - Making It Work for Sustainable Development

Setting the Scene

Professor Abbas Rajabifard

Chair, UN-GGIM Academic Network



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In collaboration with:

UN-EG-LAM

JN-GGIM Private Sector Network

Acknowledgment









UN-EG-LAM

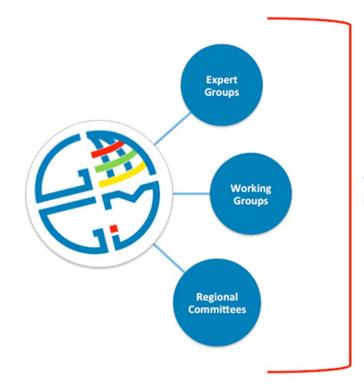
Acknowledgment: Speakers and Moderators



UN-GGIM Academic Network

The Academic Network is a formal body constituted as part of the United Nations Global Geospatial Information Management (UN-GGIM).

UN-GGIM Academic Network is the strategic knowledge, research and training Arm of UN-GGIM.



Academic Network Strategic Support

Forum Aim and Objectives

DEVELOP A
ROADMAP &
RESEARCH
AGENDA

DIALOGE & EXCHANGE IDEAS

EXPLORE SMART FUTURE CITIES FOR ALL

PRESENT
CURRENT LAND
TENURE AND
PRACTICE IN
SMART CITIES
AND DISCUSS THE
LATEST
INNOVATION,
RESEARCH

CONTRIBUTE TO KNOWLEDGE

ESTABLISH AND EXTEND PARTNERSHIPS



Structure

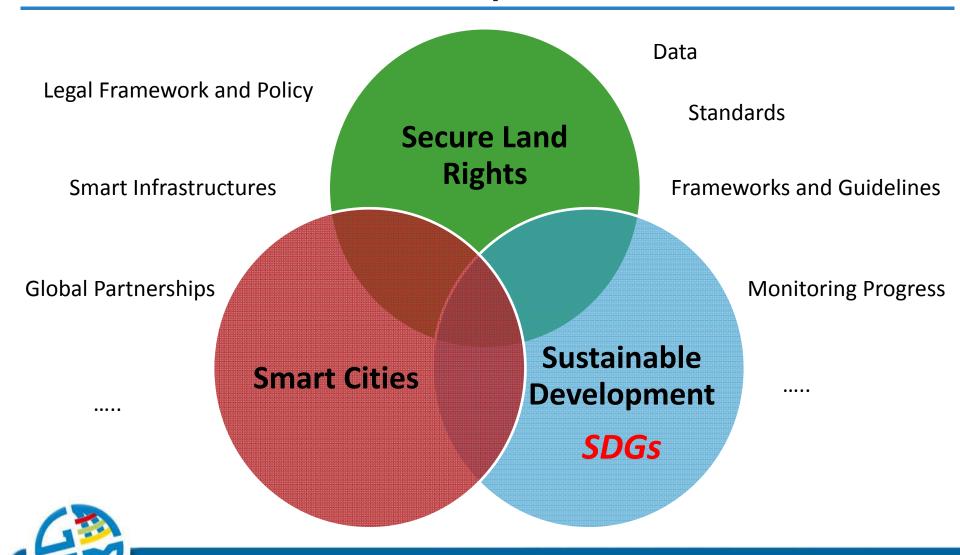
- 4 Sessions
- 17 Presentations
- 1 Panel

OPENING SESSION	
10:00-10:20	Welcome and Opening Remarks: Setting the Scene
SESSION 1: SUSTAINABLE DEVELOPMENT GOALS: MAJOR DRIVERS, OPPORTUNITIES AND CHALLENGES	
10:20-11:20	UN-GGIM Perspective
	UN-GGIM EG-LAM Perspective
	UN-GGIM Americas Perspective
	Private Sector Network Observation
	The Role of Surveyors and Spatial Professionals
SESSION 1: LAND TENURE AND SMART FUTURE CITIES	
11:20-12:30	Land Tenure: Current Situation
	Smart Cities for All
	Good Governance for a Smart World
	Smart Citizen
	Technologies and Standards
12:30-13:30	LUNCH
SESSION 3: SPATIAL ENABLEMENT AND REQUIREMENTS	
13:30-14:40	Data Availability and Gaps
	Legal and Policy Requirement
	The Geospatial Capacity Building Ecosystem
	UADI: Indicators Registration Platform
	Next Generation Spatial Knowledge Infrastructure
SESSION 4: PANEL DISCUSSION: POTENTIAL STRATEGY AND WORKPLAN/WAY FORWARD	
14:40-15:40	UN-GGIM
	Legal and Policy Frameworks
	UN-GGIM Geospatial Societies
	UN-GGIM Private Sector Network
	UN-GGIM Academic Network
CLOSING SESSION WRAP UP – FUTURE PLAN AND WAY FORWARD	



15:40-16:00 Closing Remarks: Way Forward

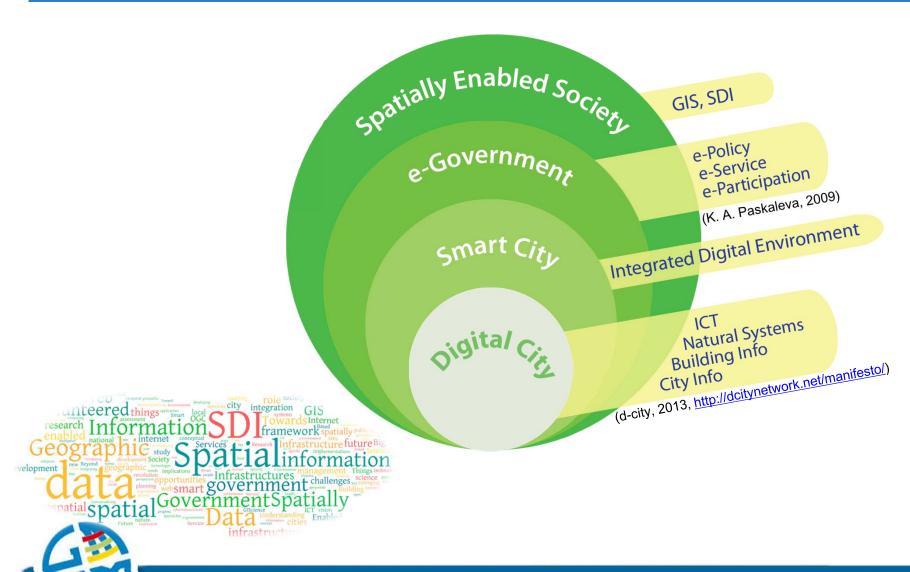
Secure Land Rights, Smart Cities, and Sustainable Development



Key Drivers

- Population Growth & Increasing urban complexity;
- Digital Economy;
- Moving from being "Sustainable" to Productivity & "Regenerative";
- Connected, automated and shared services;
- Needs and opportunities in the context of future cities;
- 3D land and property info to support future planning and management (leveraging BIM/PIM)/vertical Living;
- IoT, BigData and Cybersecurity;
- Making sense of smart data, smart utilities, 4D data.

Spatial Evolution-Key Developments and Initiatives



The Smart City Movement-Major Outcomes...

Spatial Data Shared Data Connected Society

Secure Land Rights, Smart Cities, and Sustainable Development

Data

Legal Framework and Policy

Requirements: Strategic Roadmap to

Smart Infrastrancike it work for the SDGsks and Guidelines

Global Partnerships

Monitoring Progress

Spatial Data Infrastructure— the backbone in efficient government and governance



Serving Multiple Goals

Secure and equitable land rights for women, men, indigenous peoples and local communities

Directly serve







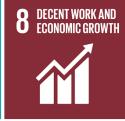




Reinforce progress on















(Secure and equitable land rights in the Post-2015 Agenda, Technical Briefing, 2015)

Enabling Technologies for Secure Land Rights

Satellite Imagery



Imagery from Drones



3D Digital Models



Authoritive & Crowed sourced Information



Making Our Cities Smarter and more Sustainable-Land Rights and the SDGs





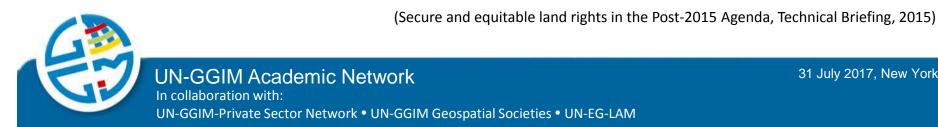






- Secure and equitable land rights are key to achieve sustainable development for all, and particularly Goals 1, 2, 5, 11, and 15.

A stand-alone target promoting women's land rights in Goal 5 on gender equality and a reference to both women and men in all the other land-related targets is essential.



BY 2030...

"Make cities and human settlements inclusive, safe, resilient and sustainable."

Indicators:

- Housing and basic services
- Transport systems and road safety
- Inclusive and sustainable urbanisation
- Protect and safeguard cultural and natural heritage
- Reduce impact of disasters; Hyogo framework
- Reduce environmental impact of cities
- Access to green and public spaces
- National and regional planning
- Sustainable and resilient buildings using local materials



Land Rights Indicators in the Post-2015 SDGs

Recommendations for Inter-Agency Expert Group & Other Policymakers

Priority Land Rights Indicator

- ${f 1}$ Percentage of women, men, indigenous peoples, and local communities (IPLCs) with secure rights to land, property, and natural resources, measured by
- a. percentage with legally documented or recognized evidence of tenure4, and
- b. percentage who perceive their rights are recognized and protected

A Complementary Area Indicator On Common Land

2 Proportion (area) of common land under the tenure of indigenous peoples and local communities that is legally recognized, secured, documented, and protected, and that guarantees equitable access and use to women and men (UNEP)

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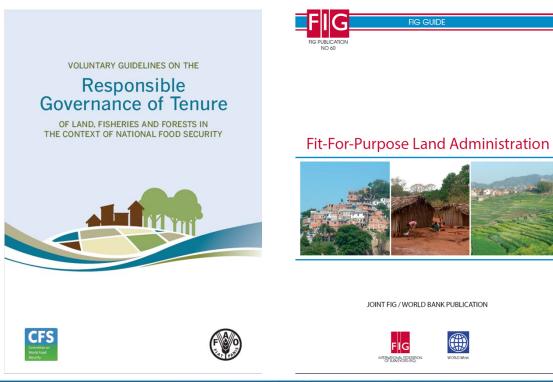


A Key Issue in the Future We Want

- The Land Rights Indicators are Meaningful
- The Land Rights Indicators are **Universal**
- The Land Rights Indicators are Feasible

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Other Issues





The Sustainable Development Report 2017









Forum Objectives



Present the current status of land tenure and land rights and discuss, research and practice in smart cities;

Establish a dialogue and exchange ideas around land rights and explore the relationships between that and smart cities to address the challenges and opportunities;

To identify relevant challenges and opportunities for the development of effective strategies to secure land rights and smart cities for sustainable development and build and strengthen capability concerning geospatial information and their use, particularly in developing countries;

To develop a roadmap that promotes the development of policies, methods, standards and mechanisms to overcome the challenges and create a better linkage between land tenure, land rights and smart cities for all;

Develop a future work plan and research agenda to assist UN-GGIM and member states to respond to the SDGs.

Thank you!

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UN-GGIM Academic Network

In collaboration with:

UN-GGIM-Private Sector Network • UN-GGIM Geospatial Societies • UN-EG-LAM

31 July 2017, New York

Secure Land Rights and Smart Cities - Making It Work for Sustainable Development

Session 1

Sustainable Development Goals: Major Drivers, Opportunities and Challenges



Monday, 31 July 2017

Sustainable Development Goals: Major Drivers, Opportunities and Challenges



Mr. Greg Scott



Dr. Chryssy Potsiou



Mr. Kees de Zeeuw



Ms. Denise McKenzie



Mr. Rolando Ocampo

Secure Land Rights and Smart Cities - Making It Work for Sustainable Development

Session 2

Land Tenure and Smart Future Cities

Moderator: Prof. Huayi Wu



Monday, 31 July 2017

Land Tenure and Smart Future Cities



Mr. Kees de Zeeuw



Prof. Maria Brovelli



Ms. Maryam Rabiee



Ms. Denise McKenzie



Prof. Joep Crompvoets

Secure Land Rights and Smart Cities - Making It Work for Sustainable Development

Session 3

Spatial Enablement and Requirements

Moderator: Joep Crompvoets



Monday, 31 July 2017

Spatial Enablement and Requirements



Dr. Kumar Navalur



Prof. Abbas Rajabifard



Prof. Harlan Onsrud



Dr. Lesley Arnold



Prof. Josef Strobl

Secure Land Rights and Smart Cities -Making It Work for Sustainable Development

Panel Discussion

Potential Strategy and Work Plan/Way Forward

Moderator: Prof. Harlan Onsrud



Monday, 31 July 2017

Potential Strategy and Work Plan/Way Forward



Dr. Li Pendge



Mr. Sanjay Kumar



Dr. Kevin Pomfret



Prof. Menno-Jan Kraak



Mr. Dave Lovell