

## International Seminar on United Nations Global Geospatial Information Management “Effective Land Administration”

Suntec Convention and Exhibition Centre, Suntec City, 1 Raffles Boulevard, Singapore 039593  
*17 and 19 May 2022*

### Background of the Seminar

Effective land administration must be fit-for-purpose, appropriate and adequate, interoperable, sustainable, flexible, participatory, inclusive, and able to accelerate efforts to document, record, recognize, and monitor people to land relationships in all forms. Effective land administration provides humanity with better access to and security of land and property rights to achieve national development priorities and leaving no one behind - the commitment of the 2030 Agenda for Sustainable Development.

The United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) at its tenth session, held virtually on 26 and 27 August and 4 September 2020, in making [decision 10/107](#), adopted the [Framework for Effective Land Administration \(FELA\)](#) with nine pathways aligned to the nine strategic pathways of the [United Nations Integrated Geospatial Information Framework \(IGIF\)](#). The FELA embraces a plurality of tenure types, globally agreed concepts and approaches, promotes the use of applicable internationally agreed open standards, and recognized the need to respect the inherent rights of indigenous peoples to their lands, territories, and resources, as well as traditions and customs. FELA seeks to provide the reference and guidance for Member States with regard to administering the relationships between people and land, and an overarching policy guide supporting the achievements of the Sustainable Development Goals (SDGs) for both developing and developed countries. UN-GGIM further noted that transparent and secure land and property rights for all is a crucial component for a socially, environmentally, and economically sustainable society.

Land administration relates people to land and informs on the ‘how’, the ‘what’, the ‘who’, the ‘when’ and the ‘where’ of land tenure, land use, land value, and land development. Land administration systems are the basis for recording the complex range of rights, restrictions and responsibilities related to people, places, and policies. At its eleventh session, UN-GGIM in making [decision 11/107](#), urged the Expert Group on Land Administration and Management (EG-LAM) to further consider the increased and complex range of rights, restrictions and responsibilities associated with land; the increasingly digital and mobile access to land information; the integration of building information modelling and the cadastre; and the cybersecurity and data security mechanisms needed to protect vital land information assets.

The International Seminar on United Nations Global Geospatial Information Management with the theme 'effective land administration' will provide a forum for deliberating key considerations for effective land administration including translating concepts into practical guidance for Member States when implementing the FELA. The International Seminar seeks to share and exchange knowledge, information, and experience; facilitate peer-to-peer engagement and learning; interact and consider guidance, recommendations, standards and approaches towards effective land administration for the wellbeing of society, environment and economy.

The United Nations Global Geospatial Information Management Section, Statistics Division, Department of Economic and Social Affairs and the Government of Singapore through the Singapore Land Authority jointly organize the Expert Group Meeting and International Seminar together with the United Nations Expert Group on Land Administration and Management. The International Seminar is supported by the Regional Committee of United Nations Global Geospatial Information Management for Asia and the Pacific (UN-GGIM-AP).



## Detailed Agenda (16<sup>th</sup> – 20<sup>th</sup> May 2022)

<b>Monday</b> 16 May 2022	<b>Fourth meeting of the Expert Group on Land Administration and Management</b>  <b>2022 meeting of the Executive Board of the Regional Committee on United Nations Global Geospatial Information Management for Asia and the Pacific (UN-GGIM-AP)</b>
8:00 a.m. – 8:30 a.m.	Arrival and registration of participants
8:30 a.m. – 12:30 p.m.	Fourth meeting of the Expert Group on Land Administration and Management (Room: Nicoll 3)
12:30 p.m. – 2:00 p.m.	Lunch (Room: Nicoll 2)
2:00 p.m. – 6:00 p.m.	2022 meeting of the Executive Board of UN-GGIM-AP (Room: Nicoll 3)
6:00 p.m. – 8:00 p.m.	Dinner (By Invitation Only) (Room: Nicoll 2)
<b>Tuesday</b> 17 May 2022	<b>International Seminar on UN-GGIM: Day 1</b> (Room: Hall 406)
8:15 a.m. – 9:00 a.m.	Arrival and registration of participants (Registration Desk in front of Hall 406)
9:00 a.m. – 10:30 a.m.	<b>Official Opening Ceremony</b> <i>Joint official opening ceremony for the International Seminar on United Nations Global Geospatial Information Management with the theme “effective land administration”, the meeting of the Executive Board of the Regional Committee of United Nations Global Geospatial Information Management for Asia and the Pacific, and the fourth meeting of the United Nations Expert Group on Land Administration and Management. The session includes an official opening address by an invited Guest of Honor followed by a number of welcome remarks, a keynote speech and an introduction on UN-GGIM.</i>
	<b>Facilitator:</b> Mr. Evert MULDER <i>Singapore Land Authority</i>
	<b>Introduction</b> ☐ Mr. Evert MULDER
	<b>Welcome Address</b> ☐ Mr. Colin LOW <i>Chief Executive, Singapore Land Authority Singapore</i>
	<b>Opening Address</b> ☐ Guest of Honor: Mr. Calvin PHUA <i>Deputy Secretary, Ministry of Law Singapore</i>

### Welcome Remarks

- ☐ Ms. QUAH Ley Hoon  
*Chief Executive, Maritime and Port Authority  
Singapore*
- ☐ Mr. Kees de ZEEUW  
*Co-Chair, United Nations Expert Group on Land Administration and  
Management  
The Netherlands*

### Keynote Speech

- ☐ Mr. Hugh LIM  
*Executive Director, Centre for Liveable Cities  
Singapore*

### Introduction on UN-GGIM

- ☐ Mr. TEO Chee Hai  
*Senior Advisor,  
United Nations Secretariat – Global Geospatial Information Management*

**10:30 a.m. –  
11:15 a.m.**      **Break**

**11:15 a.m. –  
1:00 p.m.**      **Plenary Session #1**  
**Effective land administration for the wellbeing of society, economy and environment**  
*Effective land administration provides humanity with better access to and security of land and property rights, essential to achieve national development priorities and leaving no one behind - the commitment of the 2030 Agenda for Sustainable Development. This session discusses the significance and relevance of effective land administration leveraging the United Nations Framework for Effective Land Administration (FELA) for the wellbeing of people, planet, peace, partnership and prosperity of countries. (Each presentation will be of 15 - 18 minutes duration allowing time for moderated discussion)*

#### **Facilitator:**

Mr. Kees de ZEEUW  
*United Nations Expert Group on Land Administration and Management*

#### **Presentations:**

- ☐ Land Administration and Management in Singapore  
Mr. CHEOH Wee Keat  
*Singapore Land Authority, Singapore*
- ☐ Framework for Effective Land Administration (FELA)  
Mr. Kees de ZEEUW  
*Kadaster International, The Netherlands*
- ☐ Effective Land Administration – Digitally-Enabled Urban Planning in Singapore  
Mr. CHING Tuan Yee  
*Urban Redevelopment Authority, Singapore*
- ☐ Enhancing Land Administration in Fiji through the IGIF and It's Country Action Plan  
Ms. Meizyanne HICKS  
*Ministry of Lands and Mineral Resources, Fiji*

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☐ Land Administration and Urban Climate Change Adaptation and Mitigation  
Mr. Winston CHOW  
*Singapore Management University, Singapore*

**Moderated open discussion**

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**1:00 p.m. – 2:30 p.m. Lunch (Room: Hall 406)**

**2:30 p.m. – Plenary Session #2**

**4:00 p.m. Integration of terrestrial, cadastral and maritime domain**

*Evidence-based policy development and decision making leading to effective governance of a country's 'total' space, inclusive of the natural and built environment, require the integration of data and information from the terrestrial, maritime and cadastral domains. This session considers the importance of integrating data and information from these domains with any other meaningful data for the needed evidence-based policy development and decision making. The presentations not only discuss the value and benefits from the integration but also the issues and challenges of the integration for effective administration and governance of the country's total 'space'. (Each presentation will be of 15 minutes duration allowing some time for moderated discussion)*

**Facilitator:**

Ms. Pearlyn PANG  
*Maritime and Port Authority of Singapore*

**Presentations:**

- ☐ (TBC)  
Mr. Eric Foo  
*Maritime and Port Authority of Singapore, Singapore*
- ☐ On the Need for Collocated Reference Benchmarks for Geodetic Datum Connection  
Mr. Ramon HANSSEN  
*Delft University of Technology, the Netherlands*
- ☐ The Complexity of Gathering High Resolution, Accurate Geo-spatial Datasets in the Inter-tidal Zones of a Tropical Urban Coastal City-state.  
Mr. OOI Seng Keat  
*Tropical Marine Science Institute, Singapore*
- ☐ Progress Report on the revision of the Land Administration Domain Model (LADM) Standard & Parts being developed by ISO/TC 211 Geographic Information/Geomatics Committee  
Mr. Chris BODY  
*International Organization for Standardization Technical Committee 211*
- ☐ One Map, One Data Policy: A Challenge for Integration  
Mr. Antonius WIJANARTO  
*Geospatial Information Agency, Indonesia*

**Moderated open discussion**

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**4:00 p.m. – 4:30 p.m. Break**

**4:30 p.m. – Plenary Session #3**

**6:00 p.m. Integration of building information modelling and the cadastre**

*This session considers the importance of integrating the built environment into the cadastre. Geocoding building information modelling unlocks its value and allows the integration of natural and built environment data and information towards resilient and sustainable urban environment. This session also discusses the institutional and technical consideration when integrating BIM and the cadastre for a multiplicity of purposes. (Each presentation will be of 15 minutes duration allowing time for moderated discussion)*

**Facilitator:**

Mr. Gerry ONG

*ASEAN Federation of Land Surveying and Geomatics*

**Presentations:**

- ☐ Transforming Regulatory Approvals through CORENET X  
Mr. Clement TSENG  
*Building and Construction Authority, Singapore*
- ☐ Integration of Building Information Models into Virtual City Models  
Mr. Rudi STOUFFS  
*National University of Singapore, Singapore*
- ☐ Geodata in Sweden Cooperation and Development  
Ms. Magdalena ANDERSSON  
*Lantmateriet, Sweden*
- ☐ Connecting Perceptions with Reality in the World of BIM, and Cadastre  
Mr. Faheem KHAN  
*Leica Geosystem, Singapore*

**Moderated open discussion**

<b>Wednesday 18 May 2022</b>	<b>Fourth meeting of the Expert Group on Land Administration and Management</b> <b>Technical visits</b>
<b>8:30 a.m. – 12:30 p.m.</b>	<b>Fourth meeting of the Expert Group on Land Administration and Management (Room: Nicoll 3)</b>
<b>12:30 p.m. – 2:00 p.m.</b>	<b>Lunch (Room: Nicoll 2)</b>
<b>2:00 p.m. – 7:00 p.m.</b>	<b>Technical Visits to Earth Observatory of Singapore and GeoWorks (Transportation provided) (To gather in front of Nicoll 2 at 1.45pm)</b>
<b>Thursday 19 May 2022</b>	<b>International Seminar on UN-GGIM: Day 2 (Room: Hall 406)</b>
<b>8:30am – 9:00am</b>	<b>Arrival of participants</b>

9:00 a.m. –

**Session #4**

10:45 a.m.

**Rights, restrictions and responsibilities for secure land and property rights**

*Rights, restrictions and responsibilities for secure land and property rights, including marine spaces, are inter-related and have to be administered responsibly and effectively. This session considers the organization and integration of attributes related to rights, restrictions and responsibilities, including the spatial extent, duration, people involved and purpose in a uniform fashion and stored in authentic registers. (Each presentation will be of 15 – 18 minutes duration allowing time for moderated discussion)*

**Facilitator:**

Mr. Rohan BENNETT

*International Federation of Surveyors*

**Presentations:**

☐ RRRs and FELA: What | Why | Where  
Mr. Rohan BENNETT  
*Commission 7, International Federation of Surveyors*

☐ (TBC)  
Mr. Neil COHN  
*Chia Network*

☐ (TBC)  
Mr. Mika-Petteri TORHONEN  
*World Bank*

☐ Effective Land administration: a Suriname Experience  
Ms. Glenda HEIKERK  
*Management Institute for Land registration and Information System, Suriname*

**Moderated open discussion**

10:45 a.m. –

**Break**

11:15 a.m.

11:15 a.m. –

**Session #5**

1:00 p.m.

**Availability and accessibility of reliable, timely and quality land information**

*This segment considers the importance of up-to-date information that is consistently available and accessible over space and time for good land administration and management, leading to good land governance and sustainable development. In this session we will hear from industry, academia and governmental agencies how they ensure the availability and accessibility of reliable, timely and quality land information for effective land administration benefitting society, environment and economy. (Each presentation will be of 15 - 18 minutes duration allowing some time for moderated discussion)*

**Facilitator:**

Mr. Victor KHOO

*Singapore Land Authority*

**Presentations:**

☐ Navigating Towards an Accessible, Accurate and Quality Land Information  
Ms. Emelyne V TALABIS  
*Land Management Bureau, Philippines*

- ☐ Availability and Accessibility of Official Geospatial Reference Data in Germany  
Mr. Peter CREUZER  
*Landesamt für Geoinformation und Landesvermessung Niedersachsen, Germany*
- ☐ Land Information and the Geodetic Datum  
Mr. Andrick LAL  
*Pacific Forum*
- ☐ Critical Infrastructure for Geospatial Data  
Mr. Brent JONES  
*ESRI, United States*
- ☐ Rethinking Land Administration with New Age Space Technologies  
Ms. LOH Sook Yee  
*Maxar Technologies, Singapore*

### Moderated open discussion

**1:00 p.m. – 2:30 p.m. Lunch (Room: Hall 406)**

**2:30 p.m. – 4:00 p.m. Session #6**  
**Key elements for implementing the Framework for Effective Land Administration**  
*This session considers the translation of high-level concepts to practical guidance for use by Member States leveraging the Framework for Effective Land Administration and its nine pathways. The pathways are intended to guide the implementation of FELA, support the operationalization of IGIF at the country-level and ultimately achieve national development priorities, secure land and property rights for all, and sustainable development. (Each presentation will be of 15 minutes duration allowing some time for moderated discussion)*

#### Facilitator:

Mr. Brent JONES  
*ESRI*

#### Presentations:

- ☐ Operationalizing IGIF with country-level Action Plans  
Mr. TEO Chee Hai  
*UN-GGIM*
- ☐ Road Map to Implement the Framework for Effective Land Administration System in Sri Lanka  
Mr. Mohamed RAFEEK  
*Survey Department, Sri Lanka*
- ☐ Leveraging FELA, Sharing Experiences from the Netherlands and Abroad  
Ms. Paula DIJKSTRA  
*Kadaster International, The Netherlands*
- ☐ (TBC)  
Ms. Eva-Maria UNGER  
*Kadaster International, The Netherlands*

### Moderated open discussion

4:00 p.m. –  
4:30 p.m.

**Break**

4:30 p.m. –  
5:15 p.m.

**Closing session**

*This session is a panel that gathers all the facilitators to provide a succinct summary of the sessions they have moderated before the presentation of an outcome statement of the International Seminar.*

**Facilitator:**


Mr. Kees de ZEEUW

*Co-Chair, United Nations Expert Group on Land Administration and Management*

**Closing summaries**

*A moderated panel discussion involving all session facilitators to summarize and present recommendations from their sessions, way forward including key considerations for the implementation of the Framework for Effective Land Administration towards effective land administration for the benefit of all.*

**Panelists:**

 Moderated discussion with session facilitators


**Moderated open discussion**

5:15 p.m. –  
6:00 p.m.

**Closing ceremony**

*The outcome statement of the International Seminar will be presented before the international seminar brought to a close with an official closing statement.*

**Facilitator:**

 Mr. Evert MULDER

**Outcome statement**

**Closing remarks**

Mr. Victor KHOO

*Singapore Land Authority*

**Official closing statement**

**Friday**  
**20 May 2022**

**Fourth meeting of the Expert Group on Land Administration and Management**

9:30 a.m. –  
12:30 p.m.

**Fourth meeting of the Expert Group on Land Administration and Management**  
**(Room: Nicoll 3)**

12:30 p.m. –  
2:00 p.m.

**Lunch**  
**(Room: Nicoll 2)**

2:00 p.m. –  
6:00 p.m.

**Fourth meeting of the Expert Group on Land Administration and Management**  
**(Room: Nicoll 3)**

**END OF THE EVENT**