REPORT 2018-19 AND WORK PLAN 2019-2022

FIG General Assembly
Hanoi, Vietnam, April 22nd 2019
Christiaan Lemmen
International Office for Cadastre and Land Records

- One of the permanent bodies of FIG
- Serves as a documentation and study centre for land administration
- Conducts comparative studies
- Publishes the results
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Team:
• Anne Burghout left
• Sylvia Huigen is the new librarian
• Pauline van Elsland
• Christiaan Lemmen
Comparative studies

- Land Administration Domain Model
- White Paper Land Administration OGC
Sustainable Development Goals
Secure land rights for the world
Purposes

- Peace Building and Security
- Social Justice and Poverty Eradication
- Disaster Management
- Resource Management
- Tenure Security
- Access to Credit
- Taxation
- Smart and Resilient Societies
- Sustainable Land Use and Food Security
- Protected Environment
- Slum Upgrading
- Access to Housing
- City Management
- Access to Basic Infrastructure
Workplan

- Edition II of LADM with ISO and OGC
- Operationalisation of LADM I with OGC and ISO
Land Administration Domain Model

• ISO 19152
• Edition I published in 2012
Land Administration Domain Model
ISO/TC 211 Land Administration Domain Model (LADM) Standard Revision

• Ongoing Work
  – Correct errors in Edition I
  – Backwards Compatibility
  – Sustainable Development Goals
  – Methodology of developing country profile
  – Input from developing countries & UNGGIM Expert Group on Land Administration & Management

• Potential Revision Topics
  – Land Management Processes
  – Taxation and Valuation
  – Maritime Limits & Boundaries
  – 3D & 4D
  – Indoor & Building Information Models (BIM)
  – Volunteered Land Administration & Crowdsourcing
  – Sustainable Development Goals (SDG)
    – Land Indicator
    – Social Tenure to Legal Tenure
    – Application of Blockchain
Organizations with Interest in ISO LADM (19152) V2

- UN – FAO
- UN – HABITAT
- Global Land Tool Network
- UN – Division for Ocean Affairs and the Law of the Sea
- UNGGIM – Expert Group Land Administration and Management
- World Bank
- ISO/TC 211 members
- Open Geospatial Consortium
- International Federation of Surveyors
- Valuation Community
- International Hydrotechnical Organisation
- Royal Institution of Chartered Surveyors
- European Land Registry Association
  - ELRA
- IPRA-CINDER Registrars
OGC Land Administration White Paper

• Focus on land rights for all
• Cross community collaboration
• Addresses:
  – Conventional methods and participatory approaches
  – Complex 3D & 4D urban environments (underground, Indoor)
  – Valuation
  – Land indicators, Performance Index
  – Linking legal space to physical objects
  – Indoor models
  – Marine Cadastre
  – Integration of key / relevant complementary standards (indoorGML, BIM, CityGML, etc.)

http://docs.opengeospatial.org/wp/18-008r1/18-008r1.html
Mapping and Recording Options

Location
- In the Field
  - Community Gathering

Main Mapper
- Grassroot surveyor
  - Surveyor

Material
- Digital
- Paper

Mapping Tool
- Imagery
- GNSS

Mapping Technique
- Polygons
- Points
OGC & Land Administration Domain Working Group

Focus:

- Examination of existing systems of land administration;
- **Advance best practices** that enable nations to address their needs in less time, cost, and effort through standards-based implementations; and
- Evaluate emerging information resources and technologies to assist nations in leapfrogging capability.
- **Test and Pilot** new standards-based technologies processes with practitioners where possible.
- **Collaboration** – address interoperability issues that span land administration community of practice, geospatial, and broader IT environments
Upcoming LADM Standard and Related Events

  LADM v2 Working Draft discussion

- OGC Technical Committee: Leuven, Belgium, 24-27 Jun 2019
  OGC Land Administration DWG, Country Cases, piloting, Review of LADM implementations

- Geospatial Kuala Lumpur 2019: Malaysia, 1-3 Oct 2019
  FIG 8th LADM Workshop
  Joint ISO/TC 211 / OGC Operationalization meeting (Proposed)
The 8th Land Administration Domain Model Workshop (LADM 2019)
1-3 October 2019  Kuala Lumpur, Malaysia
Thank you