

Land Administration Domain Model (LADM) and its revision program

UNWGIC, 19-21 Nov 2018, Deqing, China
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ISO/TC 211

Agenda

- Overview to Land Administration Domain Model
- Existing ISO 19152:2012 Land Administration Domain Model (LADM)
- Scope of new work for LADM v2 and user requirements
- Links with UNGGIM
- Process & Steps
- Summary

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Overview & Incremental Stages

- Fully & Partly operational implementations
- UN Habitat/ GLTN STDM
- Fit for Purpose Land Administration
- Esri Collector App
- References: IHO, WorldBank, UNGGIM EG Land Administration

- LADM was proposed to ISO/TC 211 by FIG 2008
- ISO/TC 211 approved LADM as a standard & allocated 19152
- Published as International Standard "ISO 19152:2012 Geographic Information – Land Administration Domain Model (LADM)
- Proposed to revise LADM under UNGGIM EG-LAM and LADM Workshop in Delft NL in 2017
- LADM Workshop in Zagreb in 2018
- Approve by ISO/TC 211 to revise
- Initiate Stage 0 to collect new requirements (12 month)

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Existing ISO 19152:2012 Land Administration Domain Model (LADM)

- ISO 19152
- Version 1 published in 2012

International Organization for Standardization
Great things happen when the world agrees

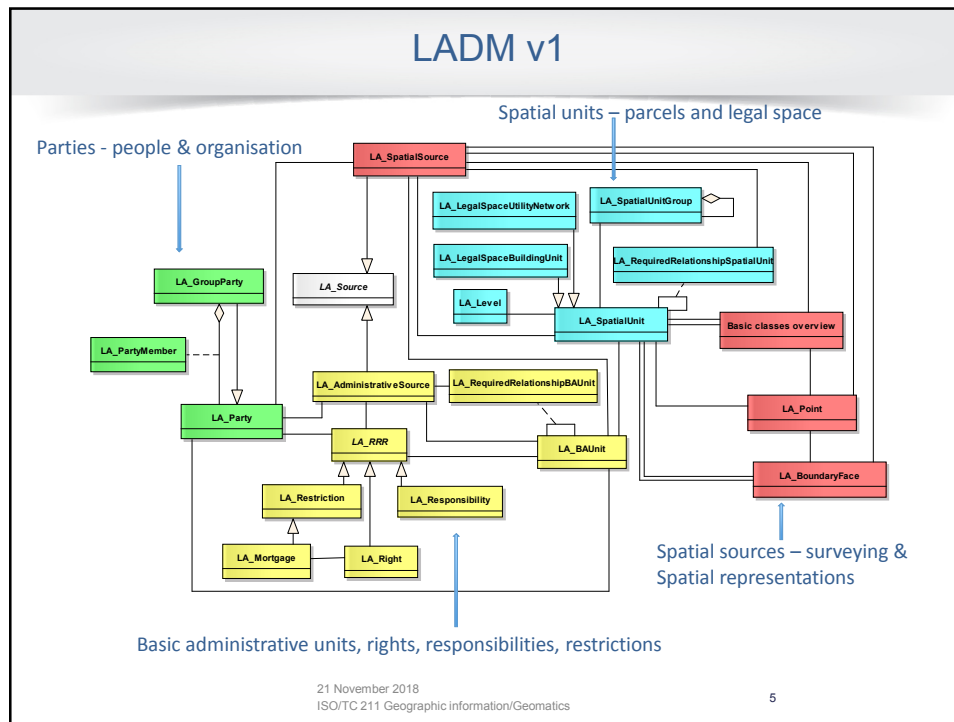
Standards catalogue | Publications and products

ISO 19152:2012
Geographic information – Land Administration Domain Model (LADM)

INTERNATIONAL STANDARD ISO 19152

Geographic information – Land Administration Domain Model (LADM)

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Organisations that have an interest in LADM v2

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



Contributing to LADM v2

- Australia
- Austria
- Canada
- China
- Czech Republic
- Denmark
- France
- Finland
- Germany
- Japan
- Republic of Korea
- Netherlands
- New Zealand
- Norway
- Saudi Arabia
- South Africa
- Spain
- Sweden
- UK
- USA
- FIG
- Academia
- IHO
- OGC
- World Bank
- United Nations – FAO & HABILITAT
- UNGGIM EG-LAM
- Valuation
- Industry

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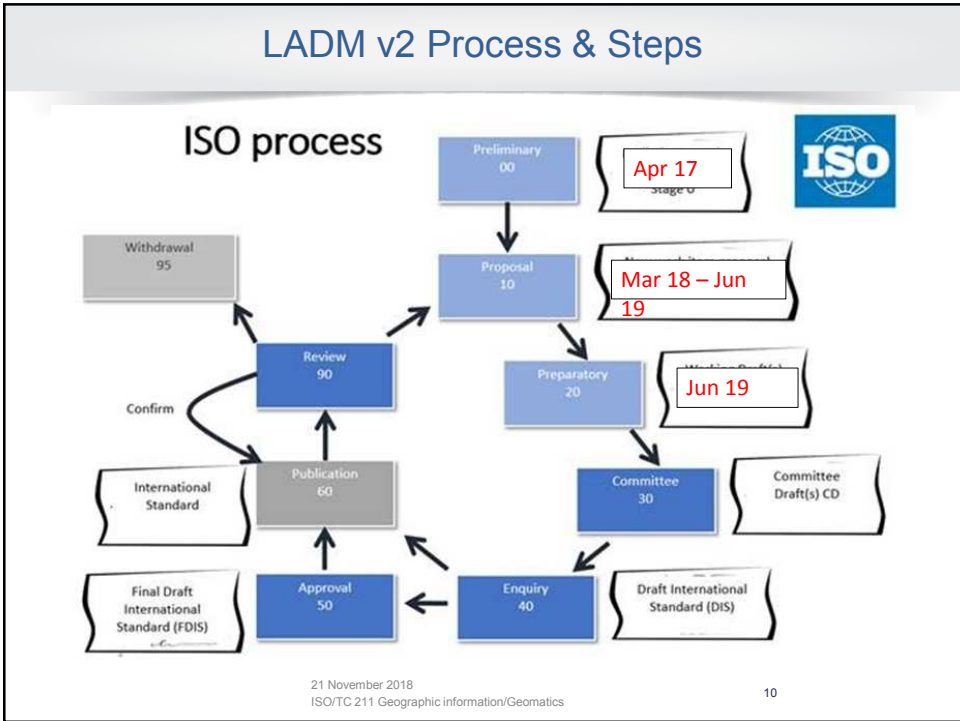
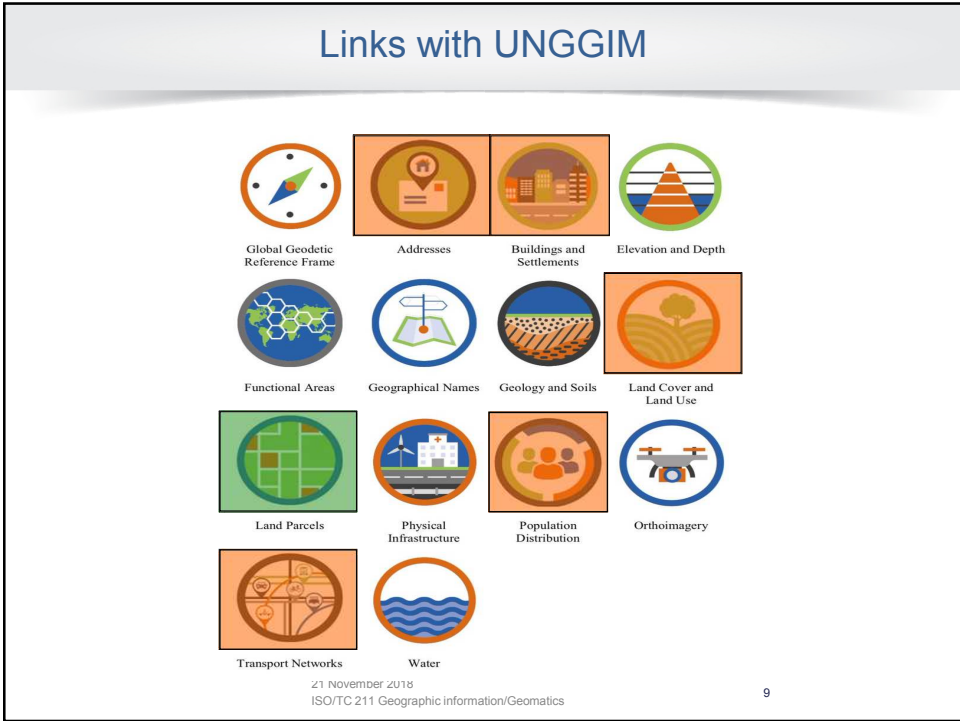
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Possible Topics for LADM v2

- Land Management Processes
- Taxation and Valuation
- Maritime Limits & Boundaries
- 3D & 4D
- Indoor & BIM
- Volunteered Land Administration & Crowdsourcing
- Sustainable Development Goals (SDG) – Land Indicator
- Social Tenure to Legal Tenure
- Blockchain

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LADM v2 work

- Roadmap
- What's required in v2 its part 1 (level of content)
- Correct errors in v1
- Backward Compatible with LADM v1
- Multi-part
- Management issues developing the multi-part
- Sustainable Development Goals
- Methodology of developing country profile
- Input from developing countries & UNGGIM EG-LAM
- Encoding

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Input from Developing Countries



Mozambique



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Input from Developing Countries

Colombia



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Input from Developing Countries

Indonesia



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Summary

- LADM v1 – developed to address the basic information of land administration
- LADM v2 – address a wider user community of their needs and requirements
- Start ISO process - June 2019
- Multi-part
- Need assistance from UNGGIM EG-LAM (especially linking up member countries)
- Acknowledgment (Peter van Oosterom & Chrit Lemmen)