Land Administration Domain Model (LADM) and its revision program

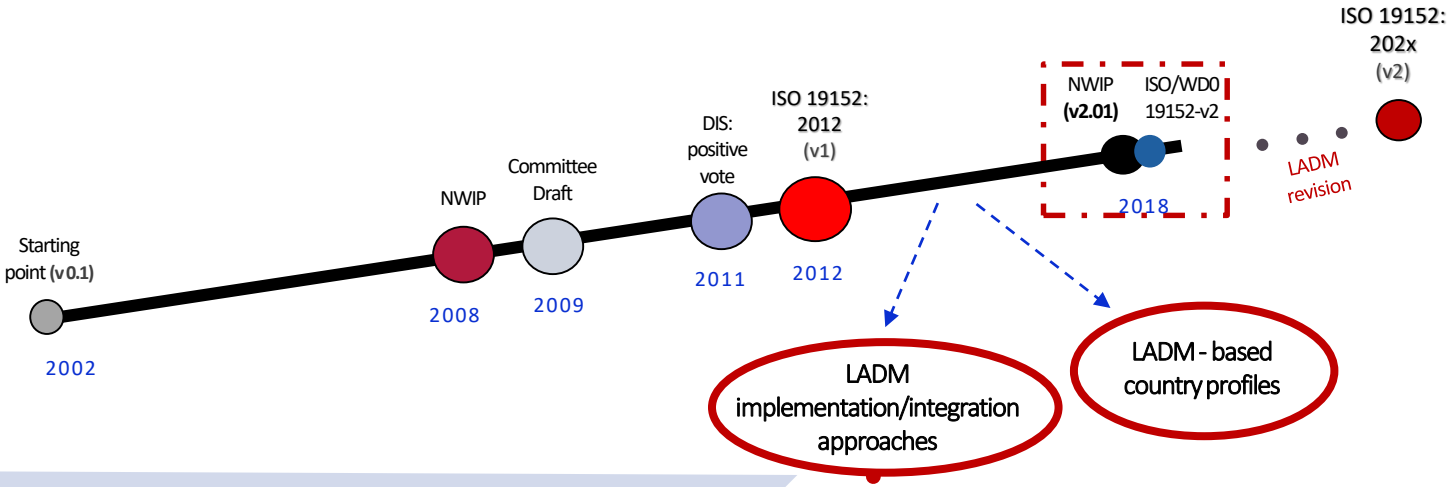
UNWGIC, 19-21 Nov 2018, Deqing, China

Chris Body

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

Overview & Incremental Stages

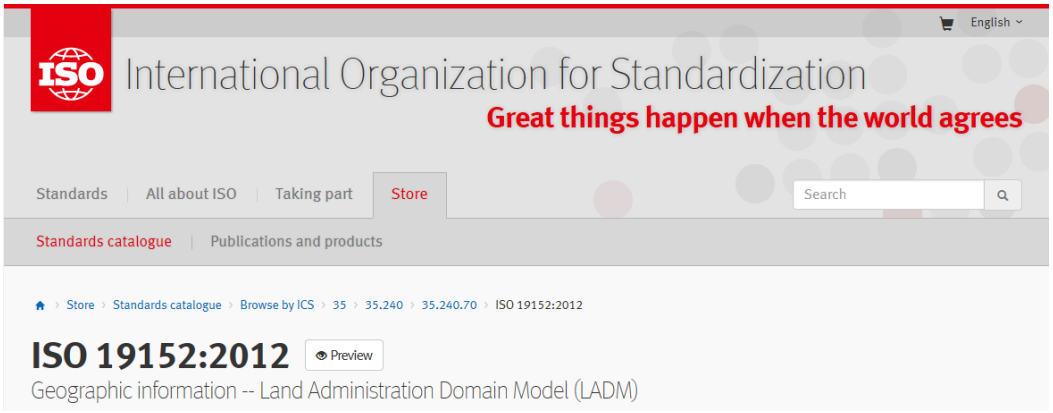


- Fully & Partly operational implementations
- UN Habitat/ GLTN STDM
- Fit for Purpose Land Administration
- Esri Collector App
- References: IHO, WorldBank, UN GGIM EG Land Administration

- 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 after 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)

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

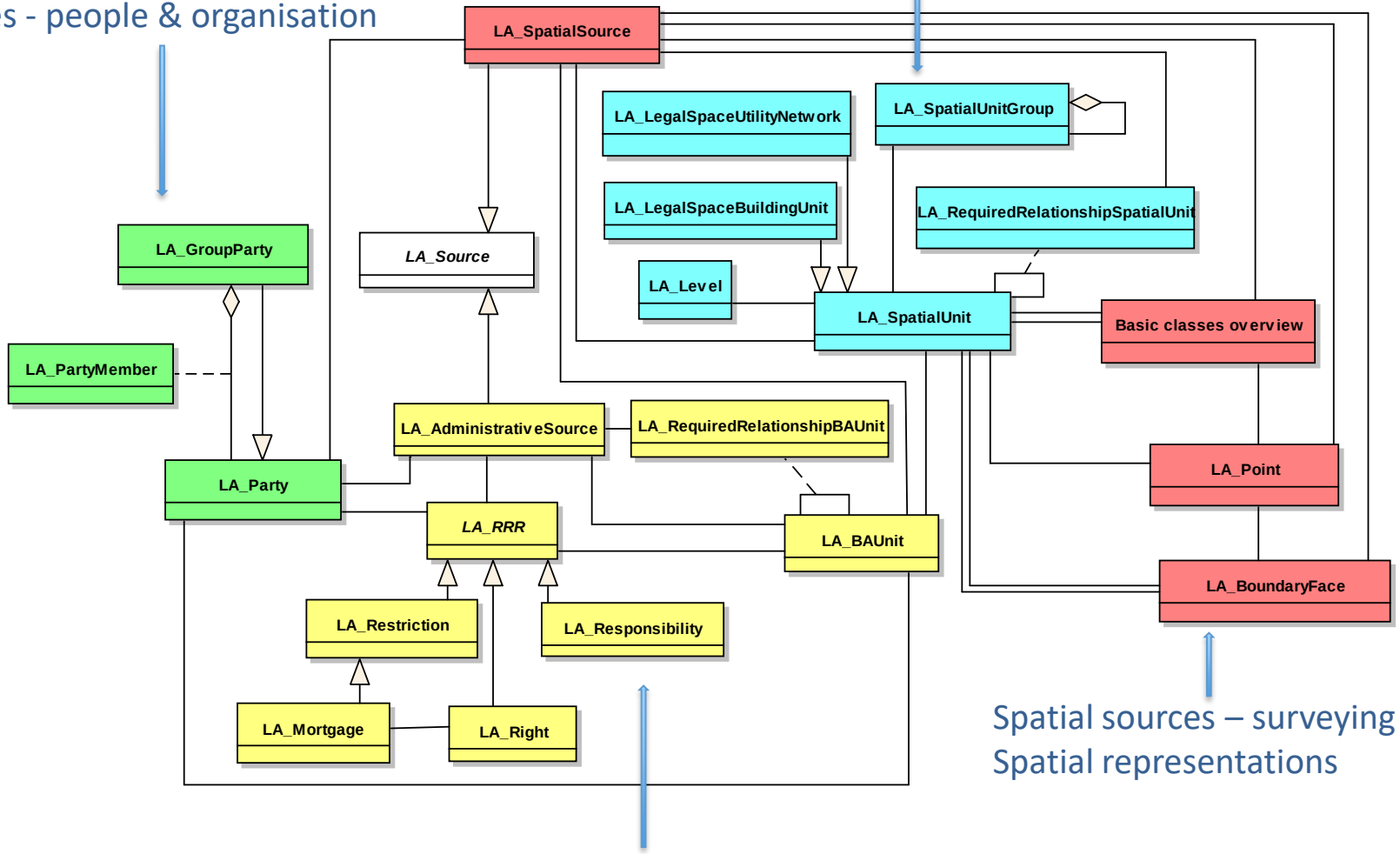
- ISO 19152
- Version 1 published in 2012



LADM v1

Spatial units – parcels and legal space

Parties - people & organisation



Spatial sources – surveying & Spatial representations

Basic administrative units, rights, responsibilities, restrictions

Organisations that have an interest in LADM 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 Hyrdrographic Organisation
- Royal Institution of Chartered Surveyors
- *European Land Registry Association – ELRA*
- *CINDER Registrars*

Contributing to LADM v2

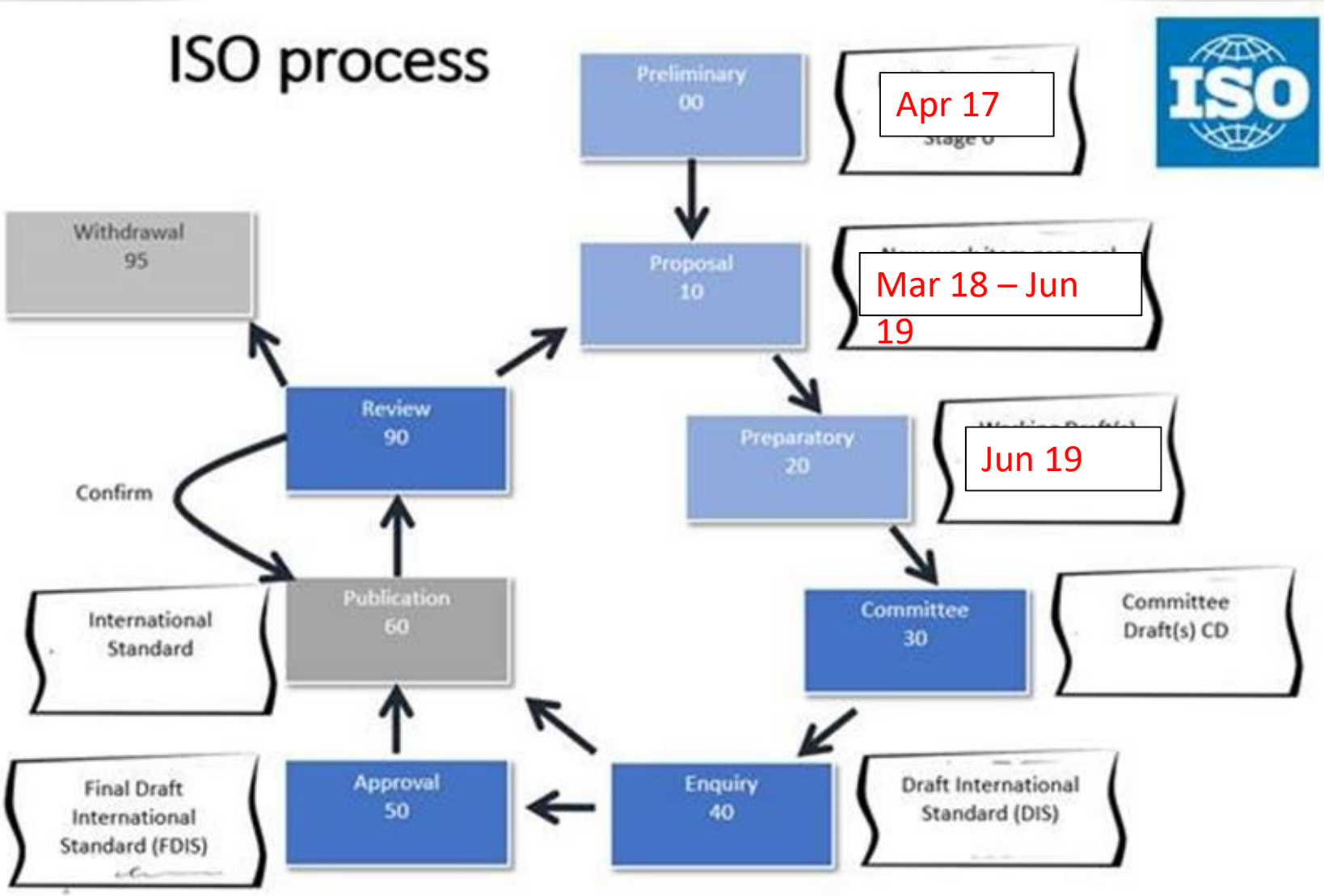
- Australia
- Austria
- Canada
- China
- Czech Republic
- Denmark
- France
- Finland
- Germany
- Japan
- Republic of Korea
- Netherlands
- New Zealand
- Norway
- Saudi Arabia
- South Africa
- Spain
- Sweden
- UK
- USA
- FIG
- Academia
- IHO
- OGC
- World Bank
- United Nations – FAO & HABITAT
- UNGGIM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

Possible Topics for LADM v2

- Land Management Processess
- 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

Links with UNGGIM

LADM v2 Process & Steps



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

Input from Developing Countries

Mozambique

Input from Developing Countries

Colombia

Input from Developing Countries

Indonesia

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)