The 6th Land Administration Domain Model (LADM) Workshop

16-17 March 2017
Delft, the Netherlands

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Summary of Preliminary Workshop
Decisions/Proposals
UN-GGIM: EG-LAM Input for LADM workshop

• UN-GGIM Meeting of the Expert Group on Land Administration and Management, 14-15 March 2017, Delft
• Main goal: improve tenure security and better land and property rights for all!
• Complex domain, many stakeholders

• Sustainable Development Goals (SDG) require more reliable LA Indicators
• Visualization through Tenure Atlas
• Standards are needed in a Fit-for-Purpose approach
• Together with implementations and tools (STDM)
• Attention is needed for valuation → might help to define/support Fit-for-Purpose
• Main outcome meeting: LADM revision is needed
First resolve the LADM – STDM confusion...

- LADM is just a conceptual domain model

- STDM is implying much more:
  - Profile for developing countries
  - Application schema
  - Software implementation (both open or closed source)
  - Fit-for-Purpose approach

- Perhaps term STDM (Domain Model) causes confusion and perhaps better use another, more comprehensive term

- For example: Social Tenure Domain Method (STDM) or ..
Summary preliminary decisions
LADM 2017 workshop

1. FIG makes New Work Item Proposal (NWIP) to ISO TC211
2. ISO Stage 0-project, given potential broad scope
3. Multi-part standard, 2-4 years development
4. OGC Innovation Program (option NMCA support developed countries)
5. GLTN support for developing countries
6. In collaboration with many partners (more than list below)
Multi-part LADM standard, ISO 19152:2020
Some initial thoughts on possible parts

- Part 0: Core (update current version LADM)
- Part 1: Potential conceptual model extensions
- Part 2: LADM Profiles
- Part 3: Application schema, technical models & encodings
- Part 4: Process & workflow standardization

- Sample implementation (open and closed source)
Part 1: Potential conceptual model extensions

- Fiscal/valuation extension module
- More explicit semantics of code list values
- Further modelling LADM’s rights, restrictions, responsibilities (RRRs)
- Further modelling of LADM’s survey and spatial representation
- SDG Indicators (aggregated values at different levels)
- 3D/4D Cadastre
- Spatial planning/zoning with legal implications
- LADM in support to Marine Cadastre (esp. coastal zones)
- More explicit relations with Building Information Modelling (BIM)
- Other legal spaces: mining, archaeology, utilities,...
Part 2: LADM Profiles

- Methodology to define profiles
- STDM
- Sample country profiles
Part 3: Application schema, technical models & encodings (for schema and data)

- Existing xxxML’s: CityGML, IndoorGML, InfraLand (InfraGML), LandXML
- Own/new LA xxxML (...LAML)
- (Geo)BIM/IFC
- INTERLIS
- Linked data (RDF)
- GeoJSON
Part 4: Process & workflow standardization

- Initial registration (legal+spatial)
- Transactions: complete parcel, split of parcel, reallotment,
- Information delivery (mass, individual)
- Survey workflow (best practices, incl. use of imagery, BIM, topo)
- SDI, create/maintain references (buildings, utilities, spatial plans, …)
- Blockchain and ledger technologies (ISO TC307)
Given importance of valuation extension, please submit questionnaire missing countries

http://isoladm.org/ValuationQuestionnaire

Deadline 1 April 2017
Many thanks to all participants of the 6th FIG LADM workshop, March 2017 Delft