

**The Land Administration Domain
Model:
Implementation and Approaches**

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ISO 19152



Introduction LADM

- Conceptual Model
- All people to land relationships - tenure certainty for all
- Implementation in distributed organisational environment



Introduction LADM Objectives and Basic Components

- Two *objectives*
 1. Model for building Land Administration systems.
 2. Basis for communication (a Land Administration terminology).
- Five *basic components*
 1. Persons and organizations (*'Parties'*).
 2. Rights, restrictions and responsibilities (*'RRR'*).
 3. Parcels, buildings and construction works (*'Spatial Units'*)
 4. Surveying.
 5. Geometry and Mapping.

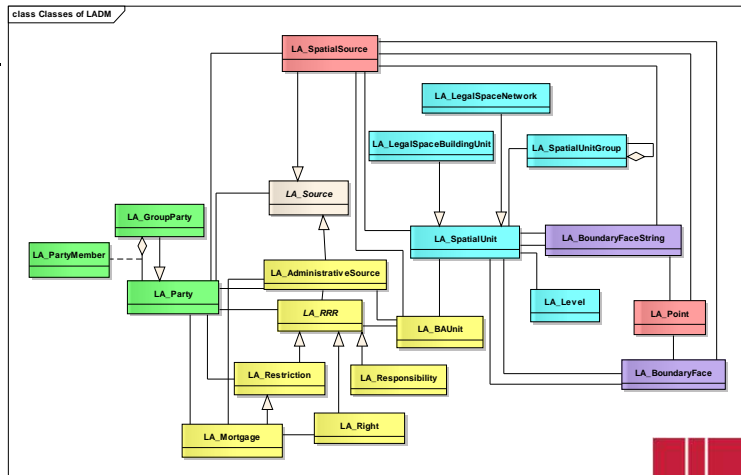


Introduction LADM

UML Diagram

Components

- Persons (green)
- Rights (yellow)
- Parcels (blue)
- Surveying (pink)
- Mapping (violet)

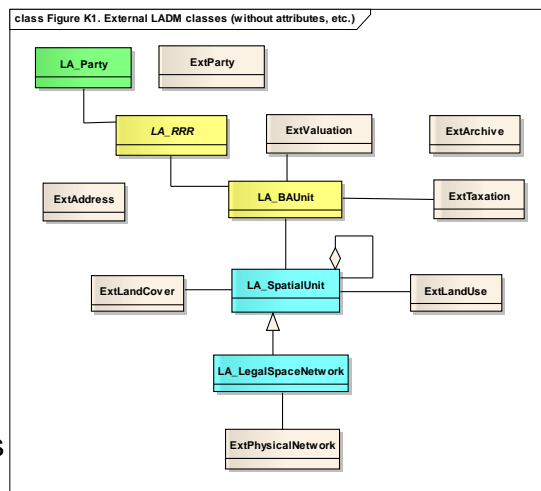


Introduction LADM

External Links

External links

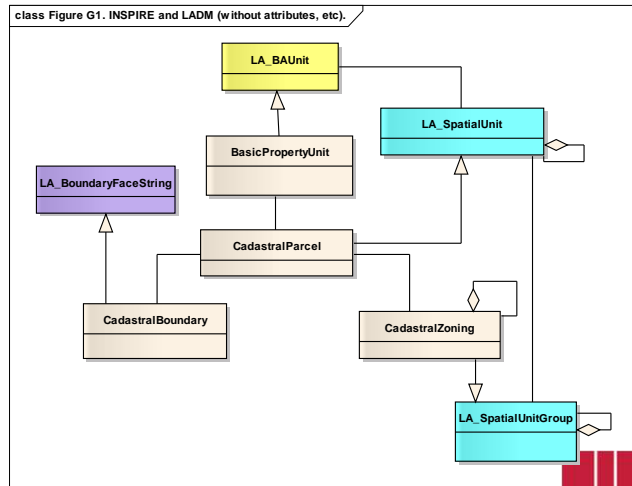
- Addresses
- Persons
- Valuation
- Taxation
- Land cover
- Land use
- Documents
- Utility networks



Introduction LADM INSPIRE Cadastral parcels

Example (1)

- INSPIRE cadastral parcels data set is consistent with LADM

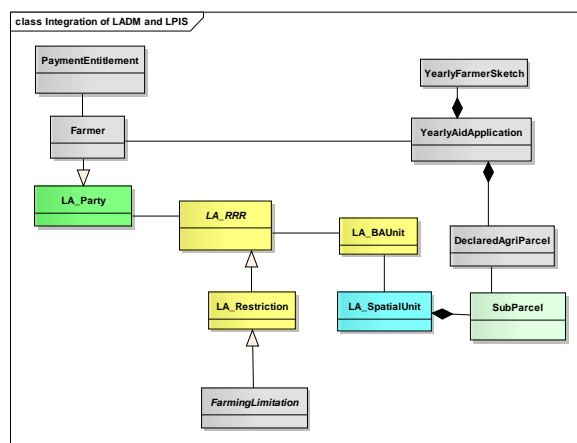


FIG

Introduction LADM Land Parcel Identification System (LPIS)

Example (2)

- Integration of LADM with the Land Parcel Identification System of the European Commission for subsidies to farmers



FIG

Introduction LADM

Social Tenure Domain Model (STDM)

- Social Tenure Domain Model is a spin-off of LADM
- Software prototype
- Built with 'Open Source' software
- Initiative of UN-HABITAT to support pro-poor land administration
- Motivation: urgent need for registration of tenure relationships



Introduction LADM

Social Tenure Domain Model (STDM)

- World Bank/UN-HABITAT field test Ethiopia (2009)



- Very high understanding of images
- Very participatory approach



Approaches

- Honduras, Cyprus, Portugal
- Country Profiles: Indonesia, China, Japan, Hungary, Russia Federation, ...
- India: Map Renewal
- Bahrein: 3D Cadastre
- STDM: New Way of Thinking



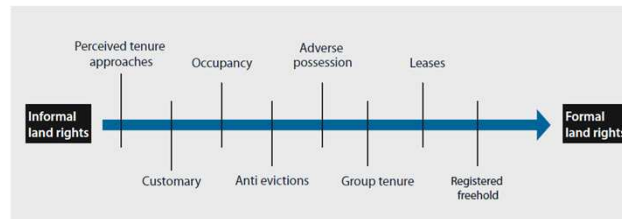
Implementation

- INSPIRE, FLOSOLA, STDM
- Voluntary Guidelines
- Software suppliers



Strategic Choice

- LADM supports the management of different tenures in one environment



LADM

- FAO
- UN Habitat
- INSPIRE Cadastral Parcels
- Country profiles
- Software suppliers
- Lets built systems!



Thank you

