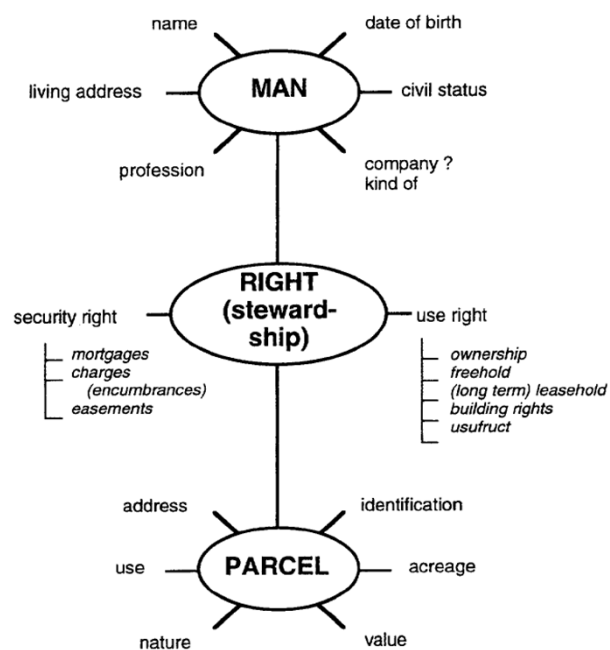


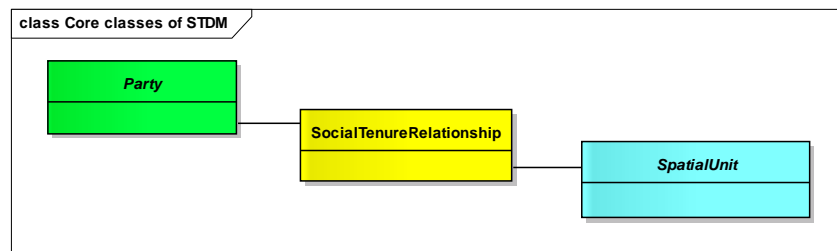
LADM and its Role in Establishing Cadastral Systems

Christiaan Lemmen

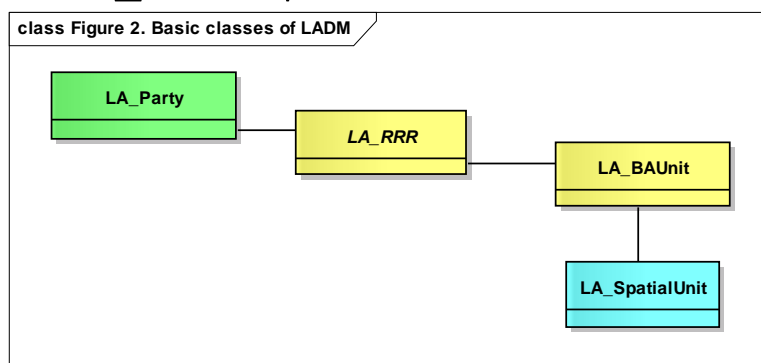
19 June 2014



Core Classes of STDM



Basic Classes of LADM: Party, RRR, BA_Unit, SpatialUnit

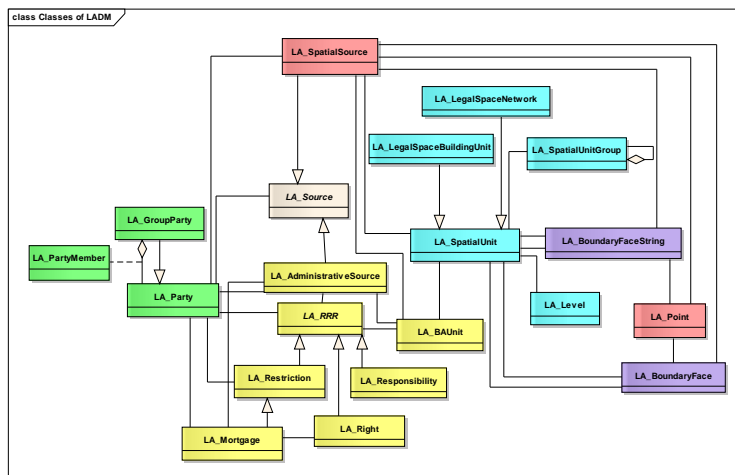


LADM

UML Diagram

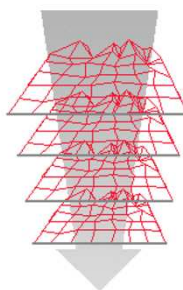
Components

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



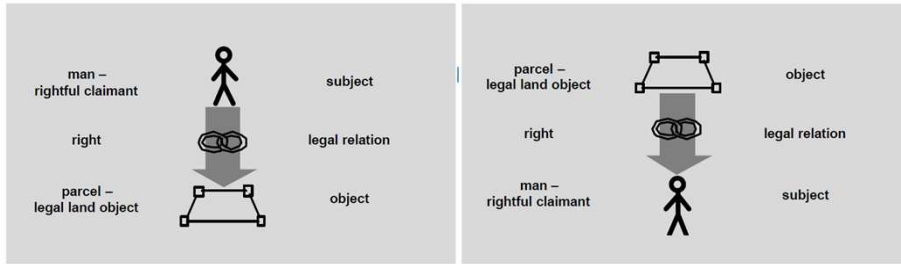
LADM – Establishing Cadastral System

Support in Implementation of Cadastre 2014

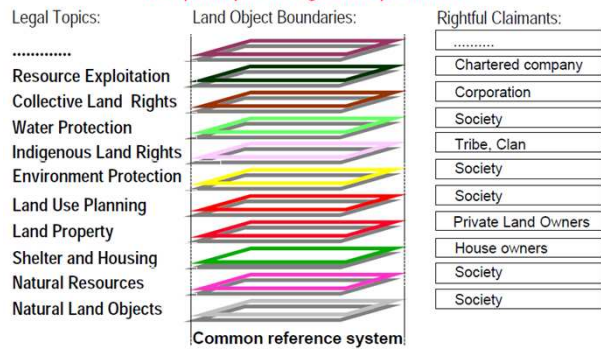


CADASTRE 2014

A VISION FOR A FUTURE CADASTRAL SYSTEM

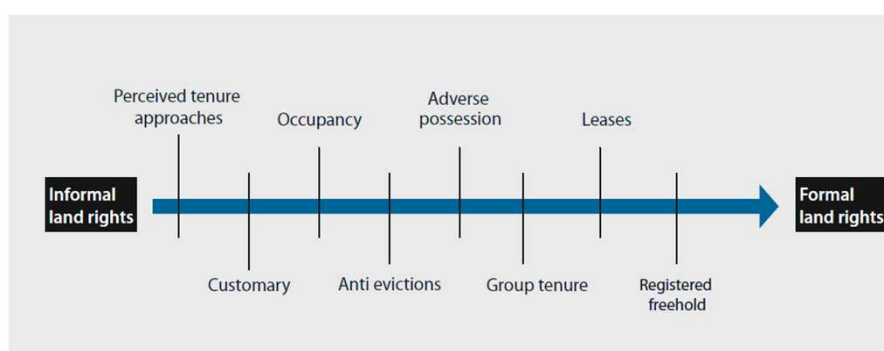


The principle of legal independence



LADM – Establishing Cadastral System

Support in the Implementation of UN Habitats Continuum of Land Rights



LADM – Establishing Cadastral System

Support in the implementation of FAOs Voluntary Guidelines

Enabling Technologies Neill Pullar

International Agreements & Standards - 2012



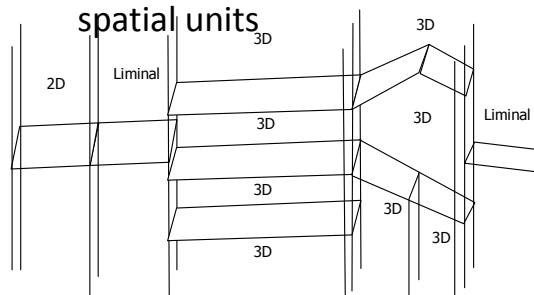
LADM – Establishing Cadastral System

3D Cadastres



2D and 3D Integration

- between 2D and 3D spatial unit transition via **liminal spatial units**



- Liminal spatial units are 2D parcels, but are stored as 3D parcels
- Liminal spatial units are delimited by a combination of LA_BoundaryFace and LA_BoundaryFaceString objects

Simple 2D spatial unit	Liminal 2D spatial unit	3D spatial units	3D spatial units	Liminal 2D spatial unit
			Liminal 2D spatial unit A	

LADM – Establishing Cadastral System

Development of Application Software

The screenshot shows the homepage of the FLOSS SOLA website. At the top left is the logo for FLOSS SOLA, which consists of a stylized 'S' inside a sun-like circle, followed by the text 'FLOSS SOLA' and 'Solutions for Open Land Administration'. To the right of the logo is a search bar with the text 'Entire site' and a 'SEARCH' button. Below the logo and search bar is a navigation menu with links for 'Home', 'About', 'Downloads', 'Community', 'Resources', and 'My stuff'. There is also a link for 'Already a member? Login'.

The main content area is divided into several sections:

- Solutions for Open Land Administration (SOLA) Project:** A text block describing the project as an open source software system for computerised cadastre and registration in developing countries. It includes an image of surveying instruments (compass, theodolite, and level) on a map.
- SOLA Release 1402a:** A notice stating that release 1402a is now available for download, with a 'Follow @solafao' button.
- Supporting Organisations:** Logos for the Food and Agriculture Organization (FAO) and the Governance of Tenure.
- Primary links:** A list of links including Home, About, About SOLA, FAQ, Supporting Organisations, and Follow Us.
- Latest notices:** A section with a notice dated 3 Jun 2014 regarding updated State Land Management Use Case Descriptions.



International Federation of Surveyors
Fédération Internationale des Géomètres
Internationale Vereinigung der Vermessungsingenieure

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News

STDM source codes to be released at FIG Congress 2014 in Kuala Lumpur Malaysia, June 2014



It is a pleasure to announce the upcoming release of version 1.0 of the Social Tenure Domain Model (STDM) tool, including its source codes from GLTN. The land tool is a product of several years of conceptualization, design, development, field testing and implementation by various partners of the Network. It is one of the flagship land tools that GLTN is developing to promote the continuum of land rights approach and to offer an alternative and affordable land information tool to strengthen tenure security, improve livelihoods and empower poor communities.

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Data Exchange

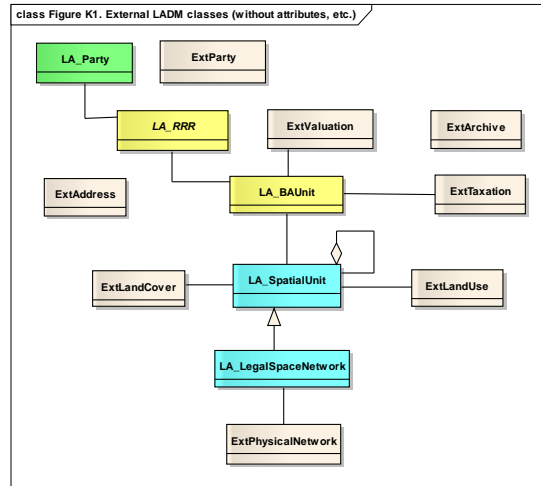
SDI

LADM

External Links

External links

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



LADM – Establishing Cadastral System

Quality management

Conclusion

- LADM is a development and implementation standard
- It is a conceptual model

We have to thank the authors, Jürg Kaufmann and Daniel Steudler not only for the development of CADASTRE 2014.

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Thank you

