The Social Tenure Domain Model

Christiaan Lemmen, The Netherlands International Symposium "Progressing towards U-Cadastre" Kuala Lumpur, Malaysia, October 15th 2009









- Social Tenure Domain Model
- Data Acquisition in Ethiopia
- Data processing
- Prototype
- Relation to Land Administration Domain Model
- Conclusion







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The Social Tenure Domain Model

Party Social Tenure Relationship Spatial Unit



Standardization in the cadastral domain









STDM - broaden the scope of land administration

- pro poor land tool
- land information management framework that would integrate formal, informal, and customary land systems and integrating administrative and spatial components
- facilitate recording all forms of land rights, all types of rights holders and all kinds land and property objects / spatial units regardless of the level of formality







Range of Party/Person – Types

- Group with non-defined membership
- Group
- Group of groups
- Natural Person
- Company
- Municipality
- Co-operatives
- Married couple
- Ministry
- Etc << can be extended







Social Tenure (Right) – Continuum

- Ownership
- Apartment Right
- Co-operations
- Occupation
- Tenancy
- Possession
- Miri Milk Waqf
- Restriction Types
- State Property
- Etc << can be extended

- Non-formal and informal rights
- Customary Types
- Indigenous Rights
- Tenancy
- Possession
- (Certificate of) Comfort
- Disagreement
- Overlap
- Uncontrolled Privatisation
- Conflict situations
- Etc << can be extended







(Social) Credit Right – 'Continuum' "where"

- Micro Credit
- Group Loan
- Individual Loan
- Loan on a Constructed Residence
- Mortgage
- Etc << can be extended
- Risks: people cannot pay!







Spatial Units

- Parcel
- Apartment
- Building
- Etc << can be extended

- One Point inside polygon
- One point street axes
- Set of Lines
- Polygon (low accuracy)
- Polygon (high accuracy)
- 3D Volume
- Etc << can be extended

•Quality labels











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ArcGIS





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Functionality

- Plot images for field work
- Print forms for field work
- Scan images
- Vectorise
- Overlapping claims
- Overlapping tenure
- Link spatial and admin
- Holdings groups of Parcels
- History
- Process not modelled
- Source documents
- Data collectors







Status October 2009

- Conceptual Design
- Functional Design
- Technical Design
- Prototype Internally tested
- Reviews by FIG
- External Testing in Ethiopia
- Improvements of the software tbd
- Final documentation tbd











Experiences



- People can read the images easily
- It is easy to get lost: GPS for orientation is a requirement
- In some area's boundaries are flexible
- Photo's as evidence
- Admin checks cost relatively a lot of time















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Land Administration Domain Model

- There are supposed to be huge differences between cadastral and land registry systems (around the world)
- Look to the common area's:
 - Standardised Model (adaptable, extensible)
 - Avoid re-inventing the wheel
 - Enable involved parties to communicate
- Proposal (FIG Washington, 2002): develop standard
 - → Core Cadastral Domain Model







Land Administration Domain Model

- Workshops on Standardisation in the Cadastral Domain, Enschede, The Netherlands, 2003
- Bamberg, Germany, December 2004
- Several Publications; presentations FIG events
- Many experts involved in this development
- Version 1.0 Munich, Germany, 2006
- February 2008: FIG submitted New Working Item Proposal to ISO; this was accepted by ISO TC211
- This standard is under development and is expected to be availale in June 2011 as an International Standard
- STDM is a specialization of LADM and will be included as informative annex B of ISO 19152







Leaflet

The Social Tenure Domain Model

A pro poor land rights recording system

The Social Tenure Domain Model (STOM) is a multi-partner software development initiative to support pro-poor land administration. The initiative is based on open source software development principles.

The STDM, as it stands, has the capacity to broaden the scope of land administration by providing it land information management framework that would integrate formal, informal, and customary land systems and administrative and spatial components. The STDM makes this possible through tools that facilitate recording all forms of land rights, all types of rights holders and all kinds land and property objects / spatial units regardless of the level of formality.

Not only in regard to formality, but the thinking behind the STDM also makes a departure in terms of going beyond some established conventions. Traditional or conventional land adminlistration systems, for example, relate names or addresses of persons to land parcels via rights. An alternative option being provided by STDM, on the other hand, relates personal identifiers such as fingerprints to a coordinate point inside a piot of riand through a social tenure relation such as tennos. The STDM thus provides an extensible basis for efficient and effective system of land rights recording. The STDM is a specialisation of the Land Administration Domain Model (LADM), previously known as Core Cadastra Ioomain Model, which is a similar effort initiated by the international federation of Surveyons (FIG).

Image: Constraint of the second se

People - land relationship

The social Tenure Domain Model (310M) describes relationinhips between people and land in unconventional manner in that it takies and adminibration needs in hitterfor neglected communities such as people in informal settlements and customary areas. It supports descriptional and maintenance of records in areas where regular or formal registration of land rights is not the rule. It focuses on land and property fights, which are neither registered nor registerable, as well as over lapping claims, that may trave to be adjucticated both in terms of the whork with the what right, in other words, the emphasis is on social terms relationships as embedded in the continuum of land rights concept prometed by GLTN and UN-HABITAT. This means informal rights such as occupancy, adverse possesion, tenancy, use rights (this can be formal as wells, etc. or suthomary rights, indigenous terms, etc.as wells, etc.), etc.). as the formal ones are recognised and supported (with regard to information management) in STDM smalled land administration system. Likewise, the STDM accommodates a range of spatial units (where', e.g. a piece of land which can be represented as one point – inside a polygon, a set of lines, as a polygon with lowinigh accuracy coordinates, as a 3D volume, etc.), similarly, the STDM records all types of right holders (who', s.g., including the course, groups with defined and non-defined membership, group of groups, company, municipality, government department, etc.).

In regard to evidence, STDM handles the impreciseness and possible ambiguities that may arise in the description of and rights. In a nutshell, the STDM addresses information related components of land administration in an innovative way.







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Conclusion

- STDM widely recognised
- STDM includes informal and customary relations between people and land
- There is a continuum of land rights, parties, spatial units and data acquisition methods, evolutions are possible

















