The Social Tenure Domain Model

Person ↔ Social Tenure Relationship ↔ Spatial Unit

Standardization in the cadastral domain
Range of ‘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 (Relation) - 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 – ‘Continuum’

- 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
Different Data Acquisition Approaches

- Residential Area
- Slum
- Urban Business District
- Customary Area
Recognition

- UN Habitat
- Worldbank
- FIG

- Many systems proved not to work in practice
- Simple solutions are required

- Prototype – based on ILWIS and PostgreSQL – with UN Habitat

- Scalability will be there later, the basic software can manage a lot of data
Fieldwork in Ethiopia
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Experiences

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

- Generate images for field work
- Generate 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

- Conceptual Design
- Functional Design
- Technical Design
- Reviews to be provided
- Programming and testing
Thank you