### Linkages Between Core Cadastral Model, LADM and STDM

**Innovations in Land Administration Workshop** 

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#### **CCDM Concepts**

- At the basic level, the model represents:
  - I. Person (natural, non-natural, group)
  - II. Parcel
  - III. Right (Rights, restrictions and responsibilities)
- Additional representations:
  - a. Immovables Buildings, OtherRegisterObject (geometry of easement, right of way, protected region)
  - b. SourceDocument Survey document or legal document (deed or title)



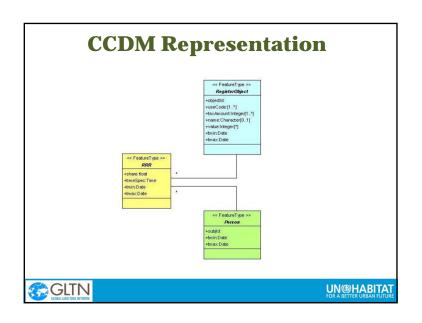
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#### **Core Cadastral Domain Model**

- Applicable in land registration and multipurpose cadastre
- Goals:
  - Provide an extensible basis for efficient and effective cadastral system development based on a model driven architecture (MDA)
  - II. Enable involved parties, both within one country and between different countries, to communicate based on the shared ontology implied by the model



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## **Land Administration Domain Model**

- Definition a reference Land Administration Domain Model (LADM) covering basic information-related components of land administration (including those over water and land, and elements above and below the surface of the earth)
- Conceptual model provides abstract representation of:
  - I. Parties (people and organizations)
  - II. Basic admin units, rights, responsibilities and restrictions (ownership rights)
  - III. Spatial units (parcels, legal space of building)
  - IV. Spatial sources (surveying) and representations



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#### **LADM Rationale**

- Provides common terminology for land administration at national and regional scales
- Provides basis for national and regional profiles
- Enables combining of land administration info from different sources



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## Social Tenure Domain Model

Basic concepts of land administration affected in three ways:

- Party person, company, municipality, cooperation, married couple, group, group of groups, ministry,
- II. Social Tenure Relationship between parties and spatial units:
  - a. Non-formal and informal rights
  - b. Long leases, Islamic rights, state property
  - c. Conflict situations disagreement, overlap, occupation



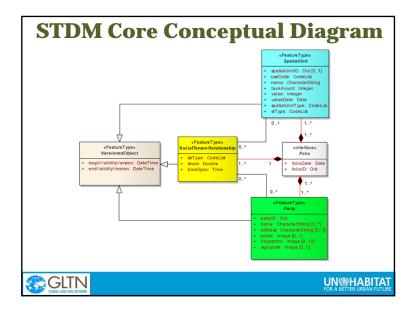
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## Social Tenure Domain Model (STDM) - cont'd

III. Spatial Unit – units other than accurate and established units



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#### Entity Representations CCDM vs. LADM vs. STDM CCDM LADM STDM Natural person, group Natural person, group, person, company, cooperatives municipality, cooperation, married couple, group, group of groups, ministry Parcel, building, right of Parcel, building, land Text description, single way, protected region surveys point, set of unstructured lines, 3D volume Formal ownership, Restriction, Formal ownership, apartment right responsibility and right apartment right, fishing abstraction right, hunting right, cooperation, customary, restriction, miri, waqf **GLTN UN®HABITAT**