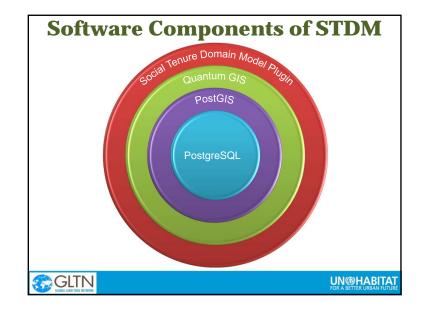
STDM Technical Context and Roadmap

Innovations in Land Administration Workshop 9th July 2013



UN@HABITAT



Approach to System Modeling

- Based on FOSS Free and Open Source Software
- STDM represents basic concepts for software development
- Client application needs tools to support creation and maintenance of spatial entities out-of-the-box
- Additional functionality required to keep track of historical versions of land parcels
- Application should provide basic data entity management as well as document digitization and georeferencing



UN@HABITAT

Open Source Software	
Component	Software
Relational Database Management System	PostgreSQL
Spatial Data Engine	PostGIS
Desktop GIS Framework	Quantum GIS v1.8
Application and UI Framework	PyQt
Programming Language	Python
Operating System Test bed	Windows XP, Windows 7, Windows 8
GLTN GOBAL AND TOOL BYTHOUX	UN®HAB FOR A BETTER URBA

Core Functionality

- Data from a variety of sources can be imported into the system
- · Vectorise raster data
- Record, store and manage all types of source documents
- Record info on data collectors
- Link spatial and administrative data
- Record household profiles
- Integration of personal unique identifiers and scanned images
- Analysis through reporting capabilities



UNHABITAT

- RoadmapProvide basic workflow and event-driven tools
- Provide a web-based version of STDM
- Release source code to the general public for testing, enhancing, customization, etc.
- Build an active community of STDM users and contributors in order to provide a collaborative platform for exchange of ideas thereby promote its widespread use
- Identify a suitable sustainability framework
- Customize the model for use in different application areas – land held under customary/group rights, natural resource management



UN®HABITAT

Priorities for Development

- Manage history introduce time stamps for all objects. This allows to "look back" in time
- Incorporate more advanced auditing and security features
- Customize STDM for post-conflict/disaster and land/property taxation scenarios
- Further simplify the documentation user, extension point and API documentation
- Integration with GeoTools



UN@HABITAT

Proprietary vs. Open Source **Development Models** Proprietary motivation: Make Money Open Source motivation: Solve Problem Market analysis Development team beta version release for beta tester Internet as communication eproduces the error Participators find errors and levelopment team reports to lopment team solves new version is released Product is launched **GLTN UN** HABITAT