TalkingTitler A web-based multi-media land management system Sean Wiid Dr Michael Barry FIG 2006, ACCRA 9th March 2006

Overview

- What is TalkingTitler?
- · Where can TalkingTitler assist?
- · Supporting research
- Prototype requirements
- · Prototype system design
- Screenshots
- · Ongoing and future development

What is TalkingTitler?

- The TalkingTitler initiative is a set of concepts, software tools and guidelines for implementation
- Designed to support land administration by providing assistance in mediating conflict
- Uses multimedia evidence integrated into a land records system, including video records, oral recordings, written records, surveyors' measurements and diagrams
- Software is free to licensed users, subject to terms and conditions

Situations where TalkingTitler may be useful

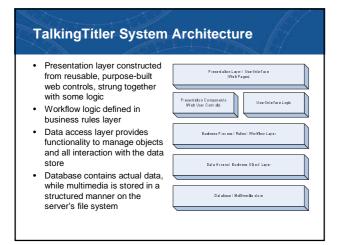
- Customary systems, and social systems where both customary and western influences prevail
- Conflicts, where people have been driven off their land by the State or powerful groups or where land has been grabbed by a neighbour
- Highly competitive situations such as urban informal settlements
- Natural disasters, such as a tsunami where much of the documentary and physical evidence of land occupation has been destroyed

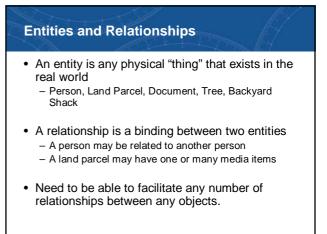
Prior Research

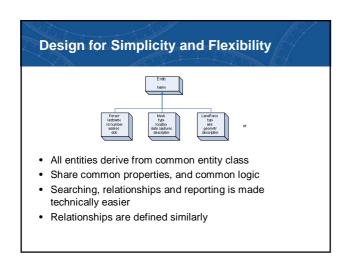
- Concepts have been researched and field tested since mid 1990's in South Africa by Dr Michael Barry
- Research showed that video, photographic and recorded interviews aided land administration and conflict resolution
 - Public process
 - Transparency
- Gaps in the law with regards to digital evidence
- Technology / mass storage has advanced to a stage where a prototype system is feasible

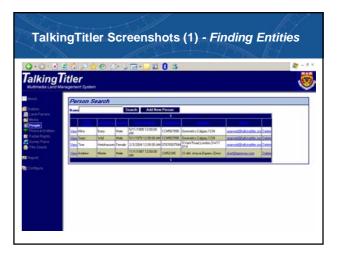
TalkingTitler Prototype Requirements

- Web-based Application
 - Accessible for demonstration online
 - Multiple users
 - Able to be integrated with a GIS system
- Relational Database
 - Initially in MS Access
 - Must support complex relationships between entities
- Manage, store and retrieve digital multimedia
- Add, edit and search for objects/entities
- Allow for any relationships to be defined and visualised







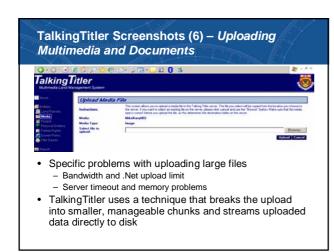












Current Status

- Prototype web application has been built and is currently being tested
- Looking for first "real" implementation situation
- · Field testing continuing
- University of Calgary Final Year Geomatics Research Projects
 - Compression
 - Authentication and User Management
- · On-going development

Looking to the Future

- Establishment of www.talkingtitler.org
- Migrate to .Net 2 Framework / Mono project
- Migrate to a more scalable database
 - MySQL
 - Oracle XE
 - SQL Server 2005 Express
- Mapping component
 - Open Standards (WMS, WFS, SVG)
 - Integrating with "Google Map"

Conclusions

- Research has shown that multimedia may support conflict resolution in land administration
- TalkingTitler prototype application provides the software tools to achieve this
- Still in the early stages of development, but have achieved promising results so far

