**Session 1: General Considerations**

- van der Molen: Innovation
- Enemark: Paradigm
- Stanfield: Constraints

**Session 2: Data Acquisition**

- Claypool: Collaboration
- Bartels: GPS data enhancement
- Gustafson: Turn-key solutions
Session 3: Data Application

Money: Visions take time
Rabley: Business processes
Hacker: Data integration

Session 4: Data

Bacharach: Interface
Stevens: Infrastructure
Lemmen: Core data model
Padilla: Institutional revolution
Session 5: Business

Lopez: Spatial data hub
Le Roux: Business process fusion

Session 6: Solutions

Mulholland: Centralized database
Burgess: Mining the cloud
Daugherty: Spatially enabled IS
Conclusions

- many challenges to land administration organisations
- need for innovative approaches to land tenure and technology
- alignment at both strategic and operational level
- impacts on organisation
- this symposium looks into the future
Land Management is the processes by which the resources of land are put into good effect.
Digital Photographing Deeds

[Image of two people in an office environment, possibly discussing or working on a deed document.]
Hand Copying of Deeds
Conclusions

- Engineering accuracy is required for cadastral applications
- Definition of cadastre will expand to include modeling of real world infrastructure
- 3D is required
- Federated information management is the only way to join multiple disciplines
Conclusion

• Current proposal is under development, workshops, reviews, etc
• More attention to process side (in addition to data side)
• Not only the model itself is important, but the fact that there is consensus (also important role of industry)
Evolution of Cadastres

Main Phases in Western Humankind/Land Relationship

**Up to late 1700’s**
- Agricultural Revolution & Feudalism
- Land = Wealth

**Late 1700’s - WWII**
- Industrial Revolution & Land Markets
- Land = Commodity & Wealth

**Post-WWII**
- Post-War Reconstruction
- Land = Scarce Resource & Commodity & Wealth

**1980s onwards**
- Information Revolution, Sustainable Development, Social Equity
- Land = Community Scarce Resource & Commodity & Wealth

Cumulative Evolution of Applications for Cadastre

- Fiscal
- Legal
- Planning
- Multi-Purpose

[Ting and Williamson, 1998]
Discussion topics

• Does high-tech match with low-cost approach? How?
• Do LA managers show enough strategic awareness?
• IT capabilities and scalability for evolutionary approaches
• Context-driven innovation – does innovation mean the same in developed and developing countries?
• Decentralization and community involvement versus centralized databases
• Minimizing cost of training and application of IT
• Minimize duplication – maximize cooperation