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International Conference on Land Tenure and Cadastral Infrstructures for Sustainable Development, Melbourne, Australia 24-27 October, 1999

LAND ADMINISTRATION AND CADASTRAL TRENDS – A FRAMEWORK FOR RE-ENGINEERING

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Land administration systems are a key component of the infrastructure that supports and facilitates the way society interacts with land





Framework for Re-engineering Land **Administration Systems**

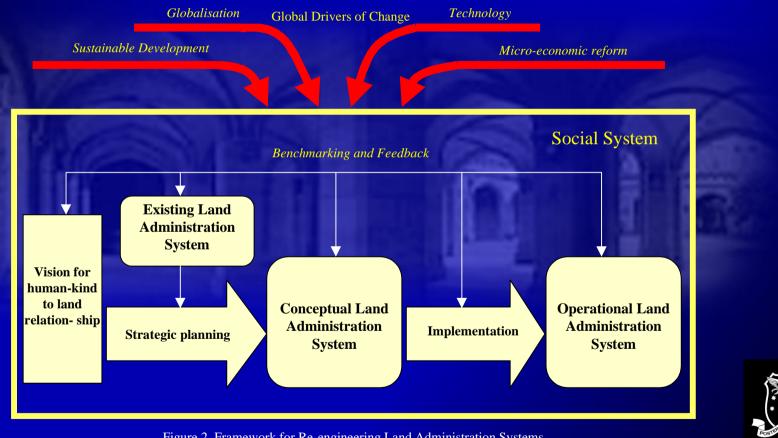


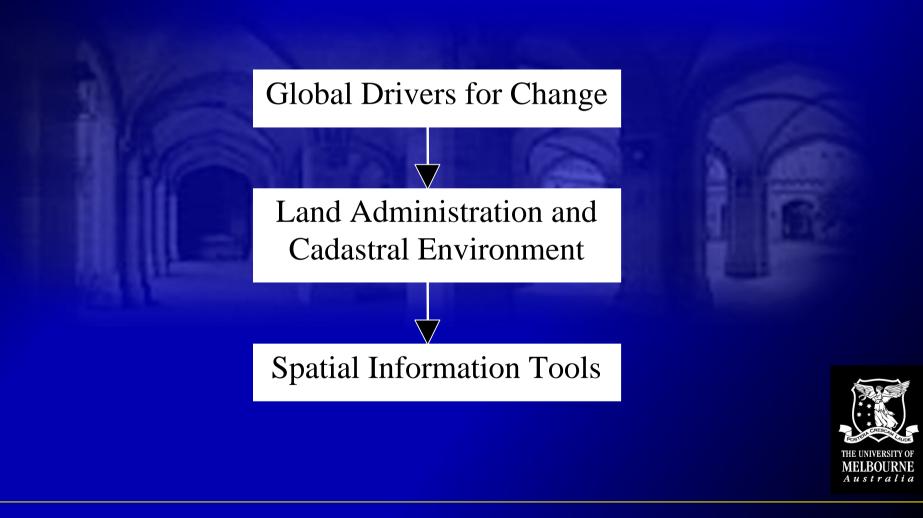
Figure 2. Framework for Re-engineering Land Administration Systems

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Hierarchy of Perspectives





Global Drivers for Change

- Sustainable development
- Urbanisation
- Economic re-structuring
- Globalisation
- Technology





The global drivers influence the form of land administration infrastructures which support and facilitate the way societies interact with land





Cadastral systems, as a critically important component of land administration systems, are continually evolving as society's attitudes and relationship to land changes



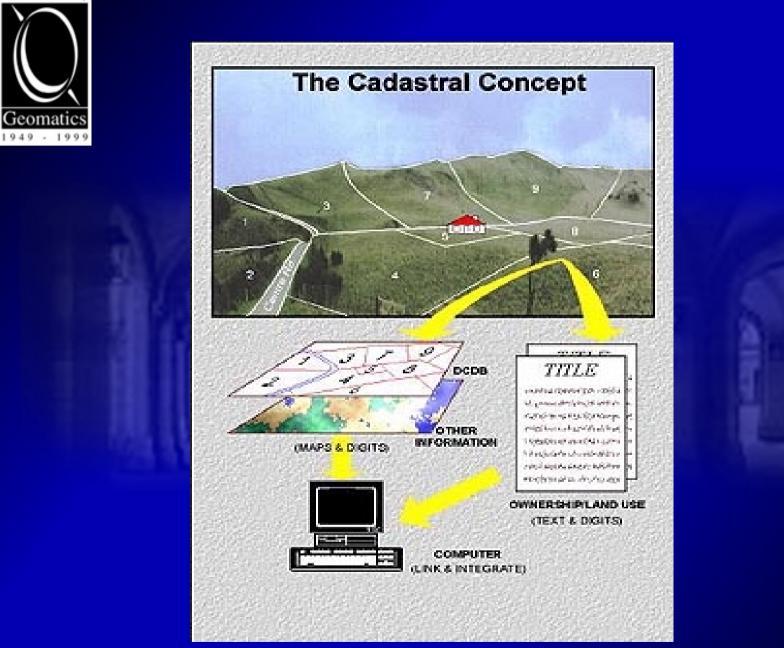




Developing a land administration and cadastral vision



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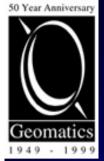


Bogor Declaration: Cadastral Vision

... develop modern cadastral infrastructures that facilitate efficient land and property markets, protect the land rights of all, and support long term sustainable development and land management.

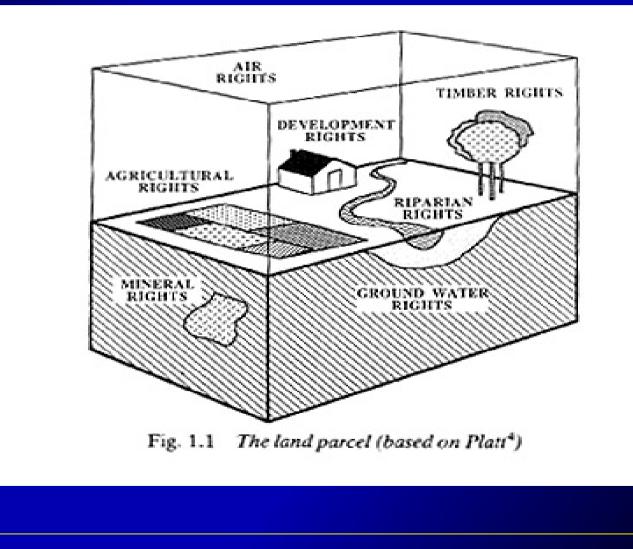


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Rights, Restrictions, Responsibilities

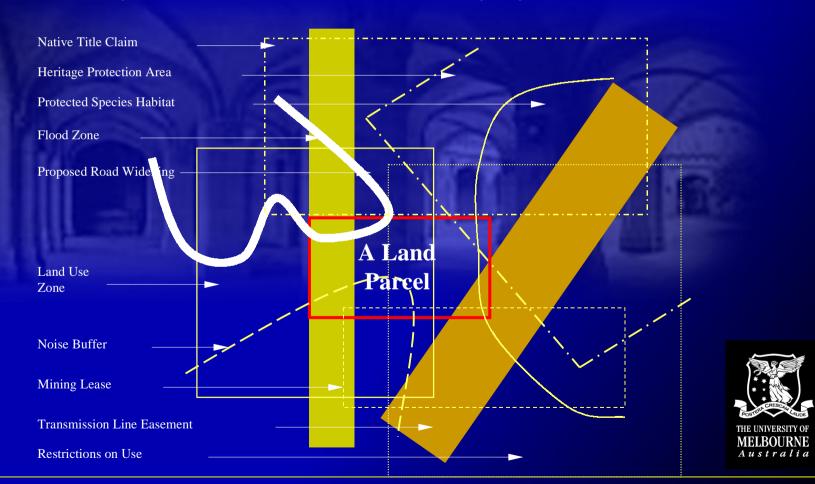
Reference: Dale and McLaughlin, Land Information Mangement



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Diversity of rights, restrictions and responsibilities

Schematic of overlapping rights, restrictions and responsibilities in a modern multi-purpose cadastre

50 Year Anniversary Geomatics



UN-FIG Workshop (Bathurst) and International Conference (Melbourne) on Land Tenure and Cadastral Infrastructures for Sustainable Development

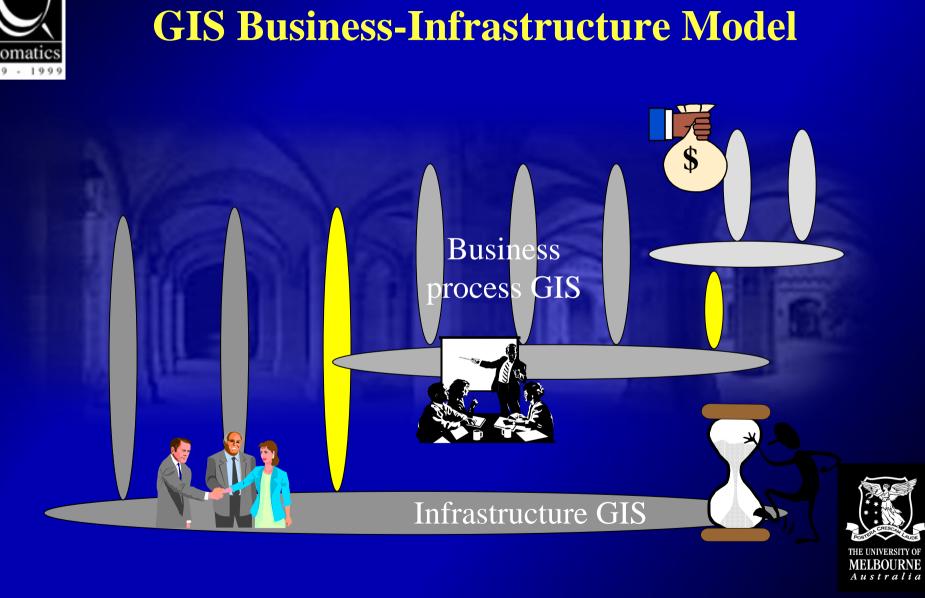




Strategic and Implementation Issues



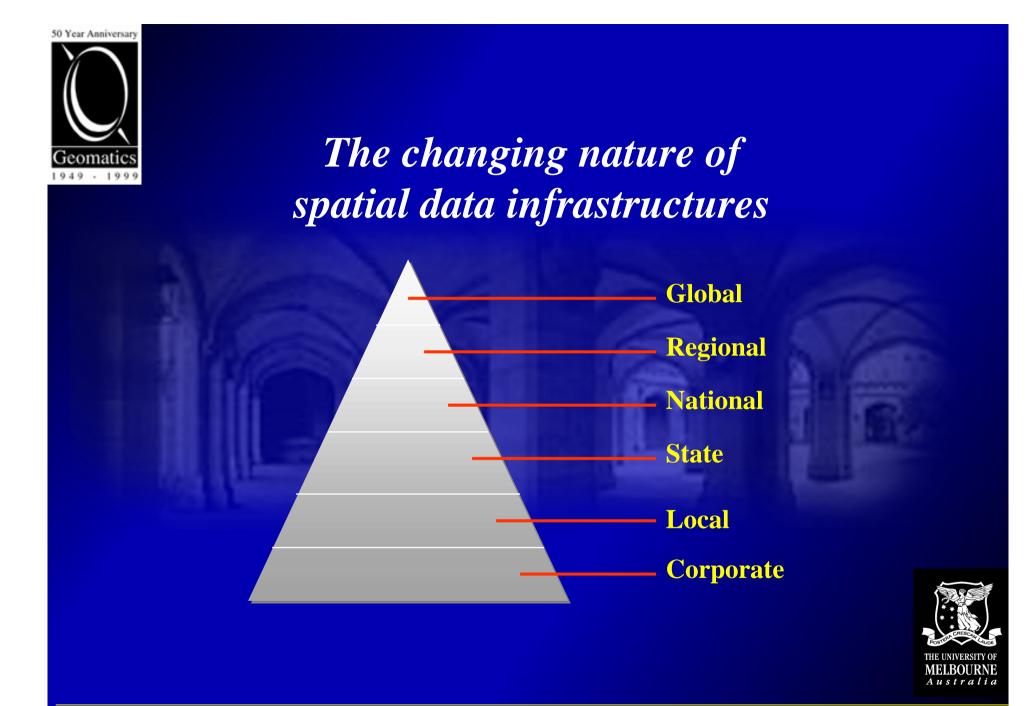






50 Year Anniversary



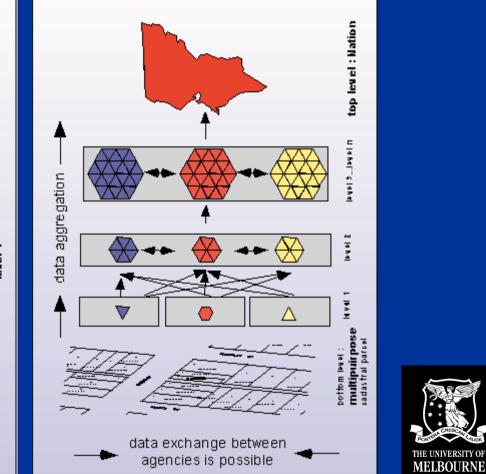


50 Year Anniversary



The spatial hierarchy problem

CURRENT UNSTRUCTURED BOUNDARY SITUATION op level : State 4 aggre gatio n ē. evel data aggregation 4 data level 1 agency 1 agency 2 agency 3 difficulties to exchange data



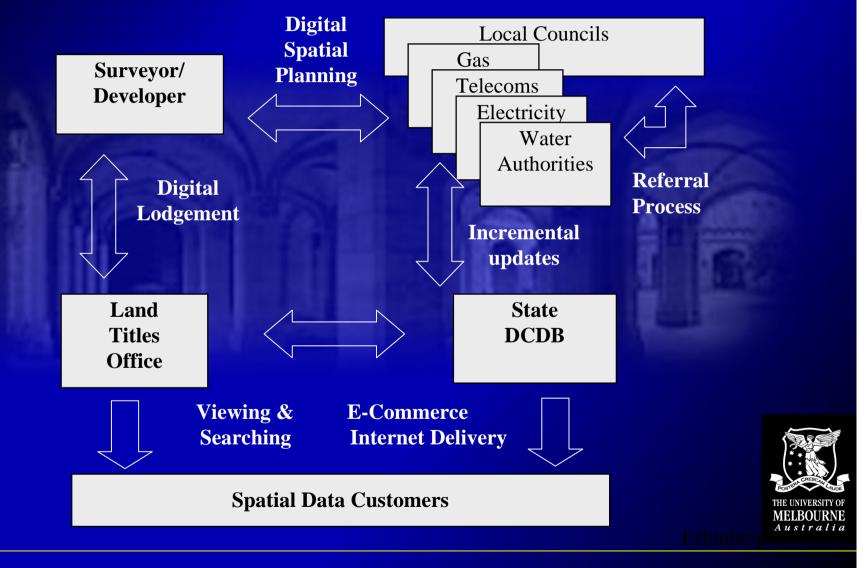
SPATIAL HIERARCHY. IDEAL SITUATION

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Australia



The digital environment





More trends and issues

- Partnerships
- National cadastres?
- Customary and "western" land administration systems
- WWW and communications technologies
- Government institutions
- Education and professional structures



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How do we know if we have an efficient and effective land administration system?

Benchmarking



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CONCLUSION

Recognise the complexity, multidisciplinary nature and inter-dependency of land administration, cadastral systems and spatial information management



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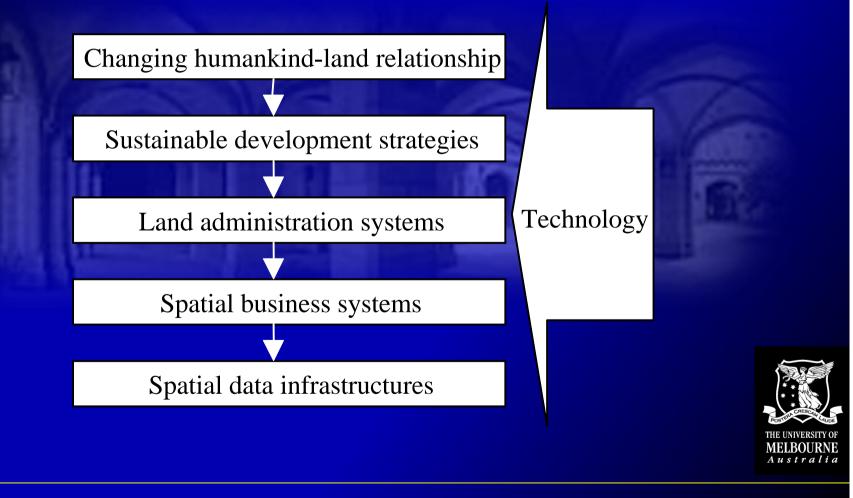


Any land administration strategy must take a broad approach by recognising a wide range of social, economic, technical and land related issues





Understanding the development of spatial information strategies





Herein lies the challenge in developing the next generation of land administration systems



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