Land Administration And Spatial Data Infrastructures

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Background

- Internationally SDI concept has focussed on National SDIs:
- However, SDIs are increasingly focussing on large scale people relevant data (land parcel based data or build environmental data);
- A central aspect in understanding these developments is the evolution of mapping, and the growth of land administration systems and national mapping initiatives in different countries.

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The evolving nature of SDIs away from a simple national concept to a complex hierarchy where large scale SDIs are the major influence.

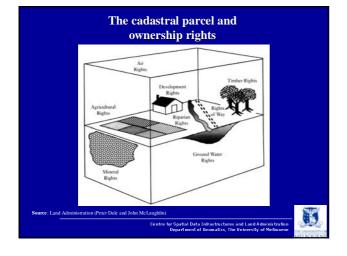
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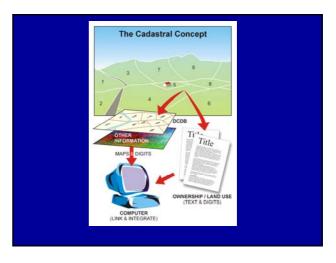


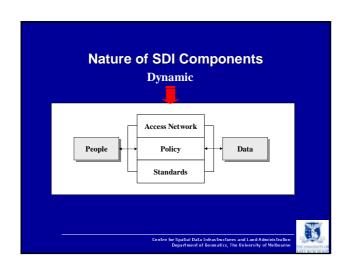
To understand the role of SDIs at a sub-national level (eg. state level) we must understand the relationship between SDIs and land administration.

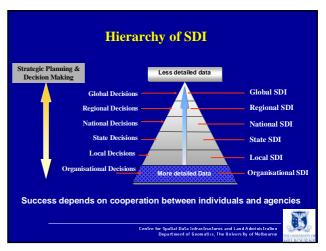
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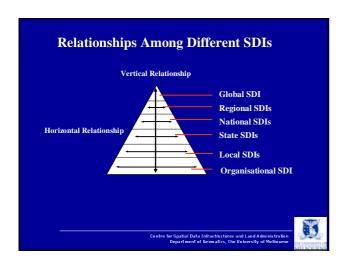




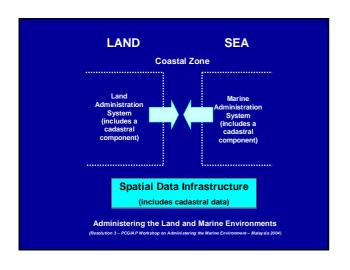




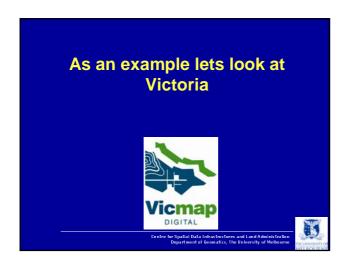




Current SDI initiatives • Global Level - GSDI • Regional Level (Asia-Pacific, Europe, Americas, Africa) • National Level (~70 countries) • State Level (many states world wide – in fact most SDI activity is at this level) • Local Level (1000s of cities world wide)









Access to land information Remember what the majority of users want – street address and basic cadastral and topographic data Centre for Spatial Data Infrastructures and Land Administration Department of Geomatics, The University of Melbourne

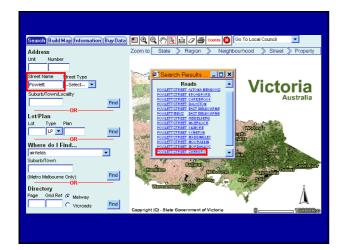


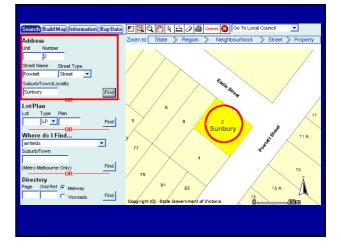










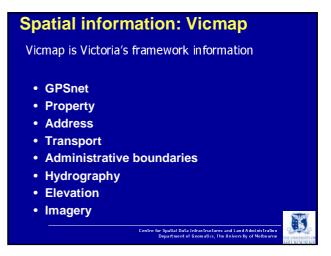


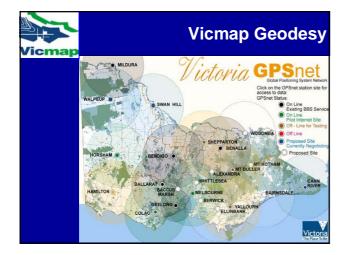


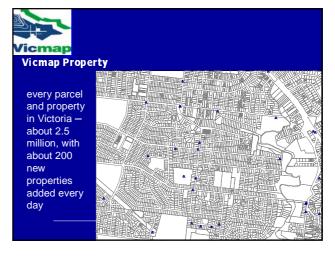
This comes from the land administration system

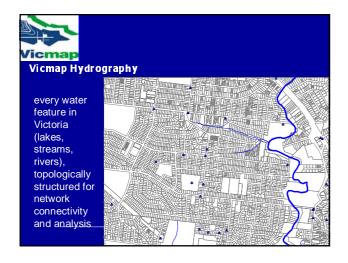
but it requires an SDI component

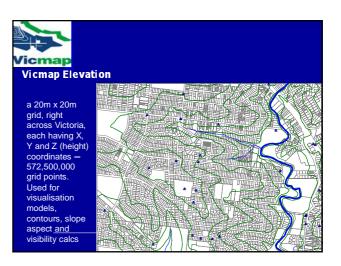


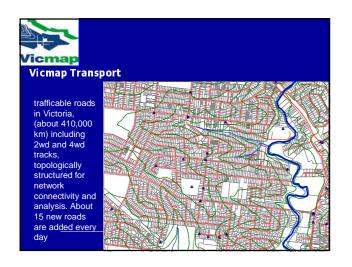




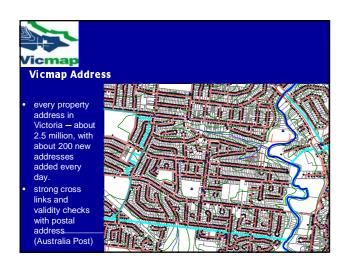




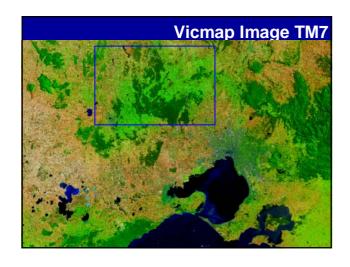


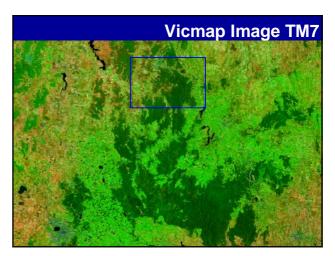




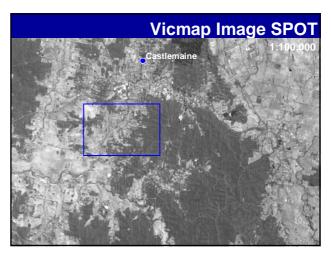


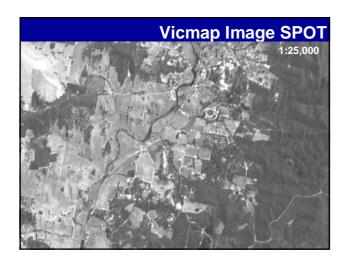


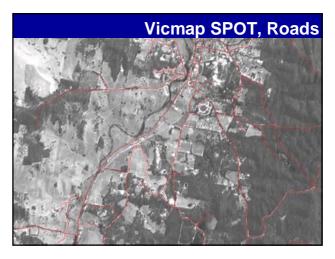


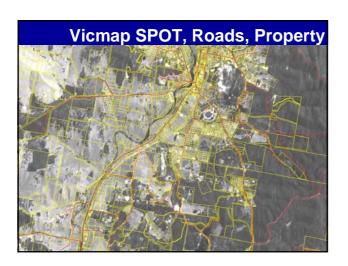




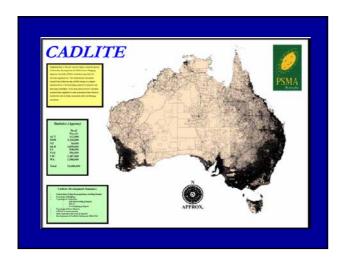


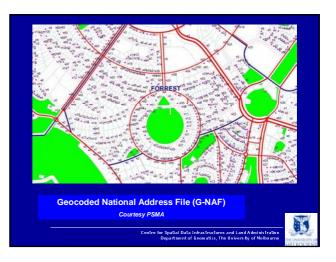


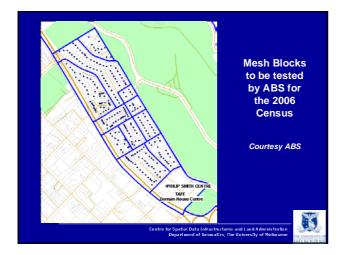




But this is a state and local government focus,
what is happening at a national level?







"It is the richness of this large scale information and people relevant data which breathe life into SDIs"

Don Grant in Chapter 7, State SDI Initiatives, "Developing SDIs: from concept to reality". Taylor and Francis, 2003



As such you cannot separate land administration and SDI

Land administration is at the core of sub-national (ie State) SDIs

Conclusion

- The main game for spatial information managers is now the delivery of a virtual world which facilitates decision making at a community level within a national context.
- This requires integration of the natural and built environmental data sets and the need for a SDI that facilitates this integration.

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