

Spatially Enabled Society

Drivers, definitions, and examples

Ian WILLIAMSON Abbas RAJABIFARD Jude WALLACE Rohan BENNETT

Australia





Spatially enabled society (SES)

- An evolving concept where *location*, *place* and other spatial information are available to governments, citizens and businesses as a means of organising their activities and information
- Simply, SES is about managing information spatially, not managing spatial information
- Transparent or ubiquitous use of spatial information

Spatially enabled government (SEG)

- Same principle as SES but applied to management and delivery of government services - part of egovernment initiatives
- Requires a "whole of government" approach
- Applies to all levels of government. Local, county, state or provincial and federal (where countries are federations of states)
- Particular challenges where *large scale parcel level data* is managed at either local, county or state level

What is SES and SEG?

- Location or place is used
 - initially to *organise* government spatial information
 - then to *re-engineer government processes* to deliver better policy outcomes by using location to reorganise other information
- Place is used in a transparent or ubiquitous manner. The vast majority of users do not know they are "spatially enabled" - and don't care!







The Cadastral Concept

- The traditional view of the cadastre (buying, selling, leasing and mortgaging interests in land).
- The new approach makes the cadastre central to spatially enabling government







A holistic approach is to integrate cadastre, land administration and SDI

The cadastre is the core of large scale SDIs





Thanks to Donald BUHLER and David COWEN FIG 2010

Michael Howell, Deputy Administrator of the Office of Management and Budget (OMB) and Co-Chair of the Federal Geographic Data Committee (FGDC) Steering Committee, stated during his welcoming statement at the Mortgage Crisis Stakeholders Meeting in May:

"This meeting is very timely, we are working across governments and with multiple stakeholders to develop effective responses to deal with the distressed housing and mortgage markets. We need to be open to innovative and creative ways to address this complex set of problems and take advantage of new tools and capabilities to develop effective responses. Parcel data is an excellent case in point. I think you will see from some of the examples today the powerful capabilities that land parcel data can provide when combined with other data sets and analytical tools and technology"

(FGDC Cadastral Subcommittee, 2009)



....and again Karen Siderelis, chair of the FGDC stated in the introduction to the 2009 Annual Report:

essential to such functions as the management of emergency situations, development of domestic energy resources, management of private and public lands, support of business activities, and monitoring of regulatory compliance. The feature story of this year's report underscores the need for a coordinated system of land parcel information across the country."

(FGDC, 2009)

Donald BUHLER and David COWEN, FIG 2010







FIG Working Week 2011 Bridging the Gap between Cultures Marrakech, Morocco, 18-22 May 2011

SES is already happening...

- Ubiquitous mobile phone
- Displaying imagery and maps
 Content wards: ESRI vs. Google vs. Microsoft
- Showing properties via internet
- Tracking assets and inventory
- In car navigation systems
- Many GIS applications for emergency response, environmental management, planning and local government



FIG Working Week 2011 Bridging the Gap between Cultures Marrakech, Morocco, 18-22 May 2011



Global SES issues

- Need for a national SES vision
- A champion and leadership essential, either at a ministerial level or from influential large government department
- Importance of LAS, land parcel and street address information at a national level
- The role of SDI in promoting SES
- How SES promotes sustainable development
- Capacity building



