

Spatially Enabled Government

- A Global Land Management Perspective

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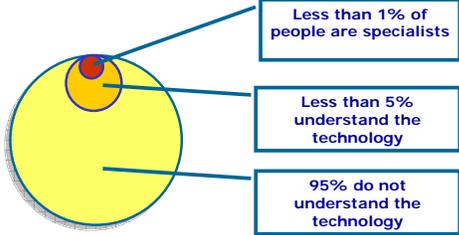
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Spatially Enabled Government

Spatially enabled government is achieved when governments use place as the key means of organising their activities in addition to information, and when location and spatial information are available to citizens and businesses to encourage creativity.

Centre for Spatial Data Infrastructure and Land Administration
 Department of Geomatics, University of Melbourne, 2006.

Who understands place?



- Less than 1% of people are specialists
- Less than 5% understand the technology
- 95% do not understand the technology

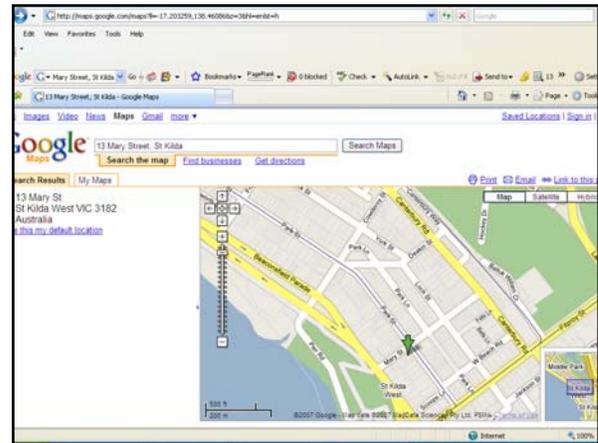
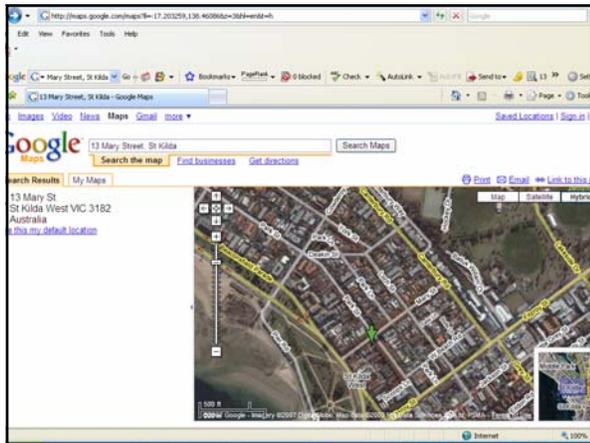




Merging Land Information

Consider: Google Earth merging with built and natural environment data. This unleashes the power of both technologies ...

emergency response, taxation assessment, environmental monitoring and conservation, economic planning and assessment, social services planning, infrastructure planning, etc, etc



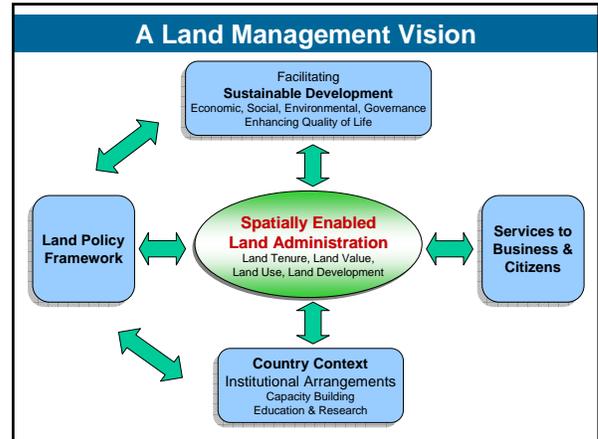
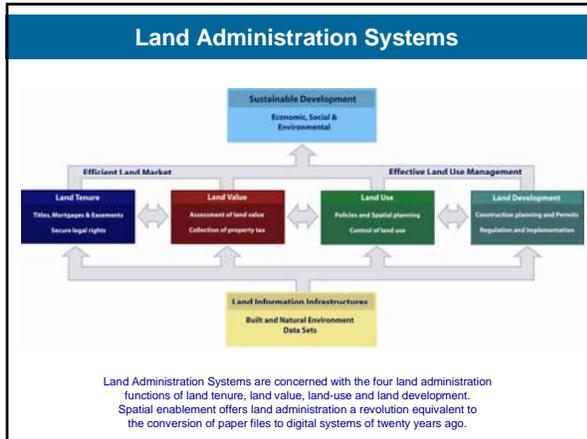
Good Governance

- **Sustainability:** balancing social, economic and environmental needs while being responsive to the present and future needs of society.
- **Subsidiarity:** allocation of authority at the closest appropriate level consistent with efficient and cost-effective services
- **Equity:** Women and men must participate as equals in all decision making, priority setting, and resource allocation processes
- **Efficiency:** Public services and local economic development must be financially sound and cost-effective.
- **Transparency and Accountability:** Decisions taken and their enforcement follows rules and regulations. Information must be freely available and directly accessible.
- **Civic Engagement and Citizenship:** Citizens must be empowered to participate effectively in decision-making processes.
- **Security:** All stakeholders must strive for prevention of crime and disasters. Security also implies freedom from persecution, forced evictions and provision of land tenure security.
Adapted from UN-Habitat 2002

All kind of government includes a spatial component

The Land Management Paradigm

Land management should facilitate sustainable development through informed and accountable government decision-making in relation to the built and natural environments.



Spatial Enablement

It is about designing and implementing a suitable IT-architecture for organising spatial information that can improve the communication between administrative systems and also establish more reliable data due to the use of the original data instead of copies. Spatial enablement offers opportunities for visualisation, scalability, and user functionalities.

- Attachment of information to images of the parcel and property
- Identification of "the place" in ways that are understandable by non-technical people (Google Earth)
- Capacity of businesses and citizens to manipulate the information through service oriented IT- architecture.
- Integration of government information systems
- Provision of seamless information to institutions and government
- Ultimately managing information through spatially enabled systems rather than databases.

Service –Oriented IT Architecture

Users: All kind

User services: Self services collect and organise data from different sources for specific purposes. Case systems design and support of the processes in government administration

Common services: Information services support the distribution of data. Administrative services secure the process of access to and updating of the data

Data services: Provide functionality for distribution and administration

Data: Common official (authentic) governmental registers and map databases

Institutional Challenges

- There are a range of stakeholder interests. This includes Ministries/Departments such as: Justice; Taxation; Planning; Environment; Transport; Agriculture; Housing; Interior (regional and local authorities); Utilities; and civil society interests such as businesses and citizens.
- Creating awareness of the benefits of developing a shared platform for Integrated Land Information Management takes time and patience.
- Mapping/Cadastral Agencies have a key role to play

Western Australia: Integrated Land Information Management

From Cadastre to Holistic and Pro Poor Land Management

- Holding of rights to lands
- Economic aspects of land
- Control of land use and land development

Administering the people to land relationship through

- Land Policy
 - Land Management
 - Good Governance
- and
- Building the capacity to deal with this

The role of FIG



Is also strongly committed to the MDGs and the UN-Habitat agenda on the GLTN

The UN Millennium Development Goals

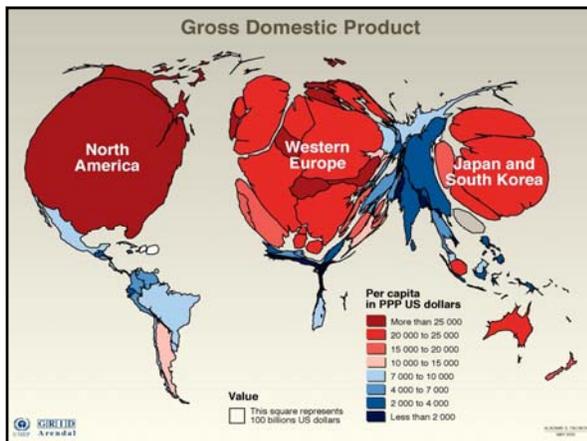
- Goal 1: Eradicate extreme poverty and hunger
- Goal 2: Achieve universal primary education
- Goal 3: Promote gender equality and empower women
- Goal 4: Reduce child mortality
- Goal 5: Improve maternal health
- Goal 6: Combat HIV/AIDS, malaria and other diseases
- Goal 7: Ensure environmental sustainability
- Goal 8: Develop a Global Partnership for Development

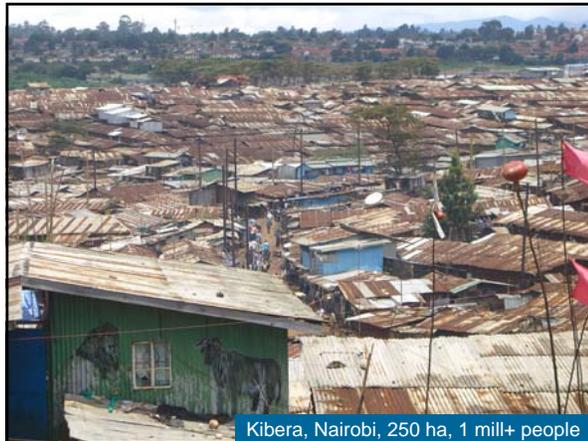
The framework includes 18 targets and 48 indicators enabling the ongoing monitoring of annual progress

The role of the surveying profession

The MDGs is a powerful concept towards development, security and human rights for all. The surveying profession plays a key role by providing:

- Geographic information in terms of mapping and databases on the natural and built environment
- Secure tenure systems
- Systems for land valuation, land use management and land development
- Systems for transparency and good governance



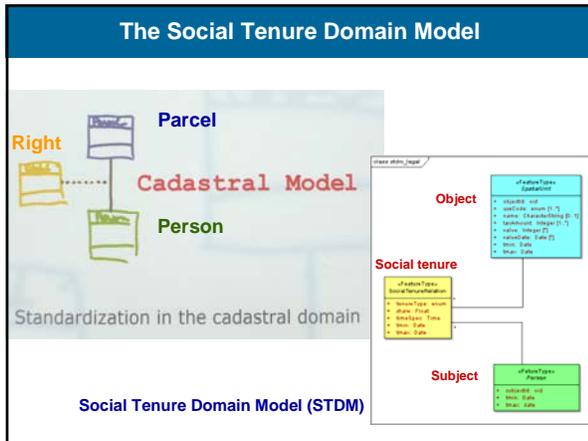


Cooperation Agreement with UN-Habitat

Traditional cadastral systems do not provide for security of tenure in informal settlements.

A more flexible system is needed for identifying the various kind of social tenure existing in informal settlements.

Such systems must be based on a global standard and must be manageable by the local community itself.



Cooperation Agreement with the World Bank

Cooperation Agreement with the World Bank

- Mutual representation at conferences, forums and meetings
- Mutual representation in collaborative projects
- Joint publications
- Joint promotion
- Organizing a joint WB/FIG high profile conference late 2008 at the WB headquarters in Washington DC entitled "Land Administration in Support of the MDG's"

It is all about:

- **People**
Human rights, engagement and dignity
- **Politics**
Land policies and good governance
- **Places**
Shelter, land rights and natural resources

The future belongs to our children

