

From Cadastre to Land Governance

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THE CADASTAL SURVEYORS – PAVING THE WAY TO THE FUTURE
 CLEGE CONFERENCE, BUCHAREST, ROMANIA, 6-7 MAY 2010

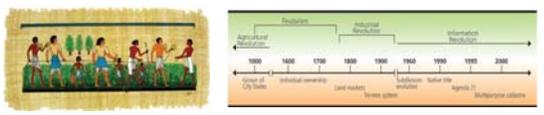
Setting the scene

The people to land relationship is dynamic and reflects the cultural and institutional setting of the country or jurisdiction



The cadastral concept is dynamic as well

Evolution of cadastral systems



Tomb of Menna, Ancient Egypt, ca. 1500 BCE

	Feudalism - 1800	Industrial revolution 1800-1950	Post-war reconstruction 1950-1980	Information revolution 1980-
Human kind to land evolution	Land as wealth	Land as a commodity	Land as a scarce resource	Land as a community scarce resource
Evolution of cadastral applications	Fiscal Cadastre Land valuation and taxation paradigm	Legal Cadastre Land market paradigm	Managerial Cadastre Land management paradigm	Multi-purpose Cadastre Sustainable development paradigm

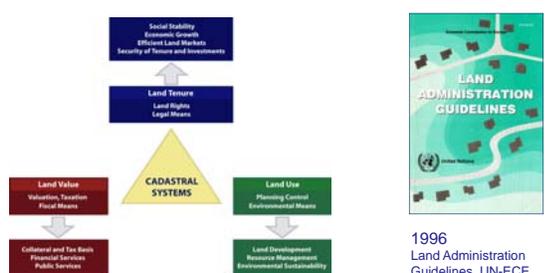
Evolution of Western Cadastral Systems

The FIG Agenda ...



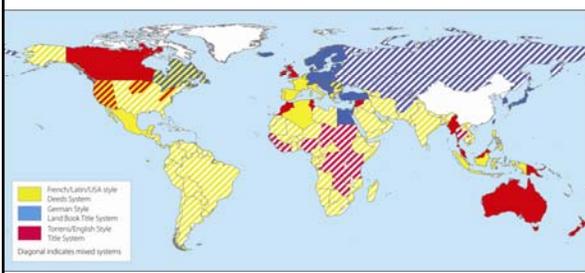
- 1996**
FIG Statement on the Cadastre Concepts and standards
- 1996**
Bogor Declaration
FIG/UN initiative on the role of cadastral infrastructures
- 1998**
Cadastre 2014
A FIG vision in six statements for future cadastre systems .
- 1999**
Bathurst Declaration
FIG/UN initiative on land administration in support of sustainable development

Cadastral Systems



1996
 Land Administration Guidelines, UN-ECE

Land Registration Systems around the World



Deeds System (French/Latin/USA style): A register of owners; the transaction is recorded – not the title.
 Title System (German, Torrens/English style): A register of properties; the title is recorded and guaranteed.

TABLE 2.3 – GENERAL RELATIONSHIPS BETWEEN LAND REGISTRIES AND CADASTRES		
STYLE OF SYSTEM	LAND REGISTRATION	CADASTRE
French/Latin/U.S. style	Deeds system Registration of the transaction Titles are not guaranteed Notaries, registrars, lawyers, and insurance companies (U.S.) hold central positions Ministry of Justice Interest in the deed is described in a description of meters and bounds and sometimes a sketch, which is not necessarily the same as in the cadastre	Land taxation purposes Spatial reference or map is used for taxation purposes only. It does not necessarily involve surveys. Cadastral registration is normally a follow-up process after land registration of all. Ministry of finance or a tax authority
German style	Title system Land book maintained at local district courts Titles based on the cadastral identification Registered titles guaranteed by the state Neither boundaries nor areas guaranteed	Land and property identification Fixed boundaries determined by cadastral surveys carried out by licensed surveyors or government officers Cadastral registration is prior to land registration. Ministry of environment or similar
Torrens/English style	Title system Land records maintained at the land registration office Registered titles usually guaranteed as to ownership Neither boundaries nor areas guaranteed	Property identification is an annex to the title Fixed boundaries determined by cadastral surveys carried out by licensed surveyors (Torrens) English system uses general boundaries identified in large-scale topographic maps Cadastral registration integrated in the land registration process

Williamson, Enemark, Wallace, Rajabifard, 2010

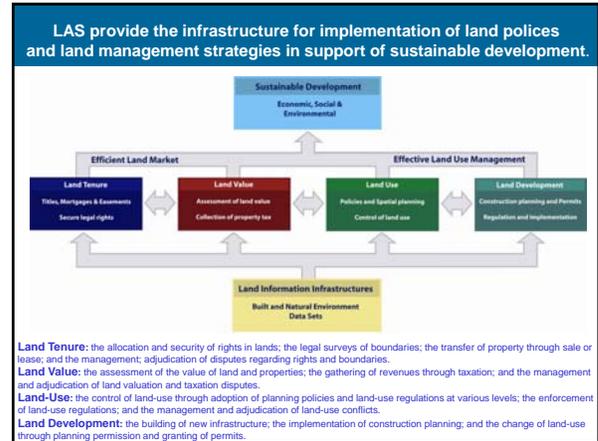


TABLE 1.1 – TRADITIONAL BENEFITS OF LAS	
Support for governance and rule of law	The formalization of processes used for land management engages the public and business, and, in turn, this engagement leads to their support for the institutions of government.
Alleviation of poverty	A primary means of alleviating poverty lies in recognizing the homes and workplaces of the poor and their agricultural land as assets worthy of protection.
Security of tenure	This is the method of protecting people's associations with land. It is the fundamental benefit of formal land administration. Ensuring security throughout the range of tenure used in a country helps provide social stability and incentives for reasonable land use. Conversion of some of the rights into property is the core process of commodification of land needed for effective markets.
Support for formal land markets	Security and regularity in land arrangements are essential for successful, organized land markets. LAS manage the transparent processes that assist land exchange and build capital out of land.
Security for investment	International financing norms and banking practices require secure ownership of land and robust credit records that by means which support security interests in land that can only exist in formal LAS.
Support for land and property taxation	Land taxation takes many forms, including tax on passive land holding, on land-based activities, and on transactions. However, all taxation systems, including personal and company taxation, benefit from national LAS.
Protection of state lands	The coherence of national LAS is dependent on its coverage of all land. Thus, management of public land is assisted by LAS.
Management of land disputes	Stability in access to land requires defined boundaries, titles, and interests. If LAS provide simple, effective processes for achieving these outcomes, land disputes are reduced. The systems also avoid additional dispute management processes to cover breakdown caused by administrative failure, corruption, fraud, forgery, or transaction fees.
Improvement of land planning	Land planning is the key to land management, whether the planning is institutionalized within government or achieved by some other means. Impacts of modern rural and urban land uses affect adjoining land and beyond. These impacts need to be understood and managed by effective land planning assisted by LAS.

Williamson, Enemark, Wallace, Rajabifard, 2010

The FIG Agenda ...

2005 Agascalientes Statement on development of land information policies in the Americas. Joint FIG/UN initiative

2006 FIG Contribution to Disaster Risk Management.

2008 Costa Rica Declaration on pro-poor Coastal Zone Management

2010 Land Governance in support of the MDGs Joint FIG/WB initiative.

The FIG Agenda from Cadastre to Land Governance

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

Administering the people-land relationship through

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

It is all about:

- People,** human rights, engagement and dignity
- Politics,** land policies and good governance
- Places,** shelter, land rights, and natural resources
- and Power,** decentralisation and empowerment

Land governance

Land governance is about the policies, processes and institutions by which land, property and natural resources are managed.

This includes decisions on access to land; land rights; land use; and land development.

Land governance is about determining and implementing sustainable land policies.

Understanding the Land Management Paradigm

Land Management includes all activities associated with the management of land and natural resources that are required to fulfill political objectives and achieve sustainable development.

Significance of the Cadastre

The Educational Profile of Cadastral Surveyor

FIG/CLGE seminar, Delft, 2000

Regional Development

FIG strongly supports regional organisations in surveying and land management, that can facilitate professional development in response to regional needs, such as in Asia, Latin America, Arab Countries, Africa.....

In Europe – where institutions and systems are generally well implemented, the focus is mainly on adjustment, improvement, capacity building, public/private partnership, education, CPD, professional and ethical codes of conduct, mutual recognition, etc..

- the bar can not be set too high

Europe is a very strong partner – a role model – in building the global standing of the surveying profession

Global Partnership on Land Governance

FIG is strongly committed to the MDGs and the UN-Habitat GLTN agenda

No development will take place without having a spatial dimension
No development will happen without the footprint of the surveyor

Facing the new challenges

Focusing on land Governance and achieving the MDGs, also includes facing the big challenges of the new millennium:

- Climate change
- Food shortage
- Energy scarcity
- Urban growth
- Environmental degradation
- Natural disasters
- Global financial crisis

**All these challenges relate to governance and management of land
Land professionals play a key role**

Urban population growth

Year	RURAL (%)	URBAN (%)
1970	63%	37%
2000	53%	47%
2030	40%	60%

2007: Total world population : 6.5 billion
Total urban population: 3.3 billion
Total slum dwellers: 1.1 billion



The Social Tenure Domain Model

- More than 70 per cent of the land in many developing countries are outside the formal systems of land registration and administration
- This relates especially to informal settlements and areas governed by customary tenure
- Traditional cadastral systems do not provide for security of tenure in these areas.

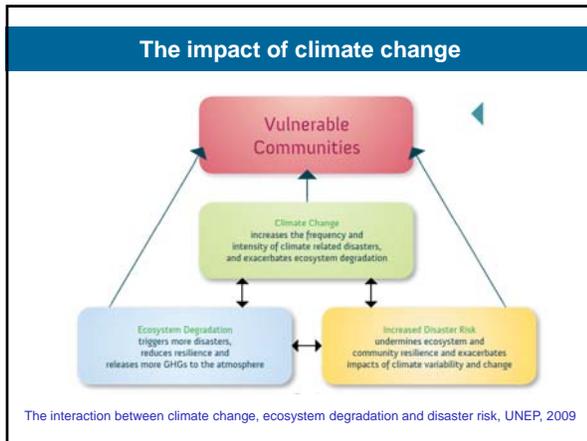
Mega cities of the world 2015

Rapid Urbanization and Mega Cities: The Need for Spatial Information Management

Research Group for the Environment & Society

Climate change - The world in terms of carbon emission

Climate change - The world in terms of increased mortality

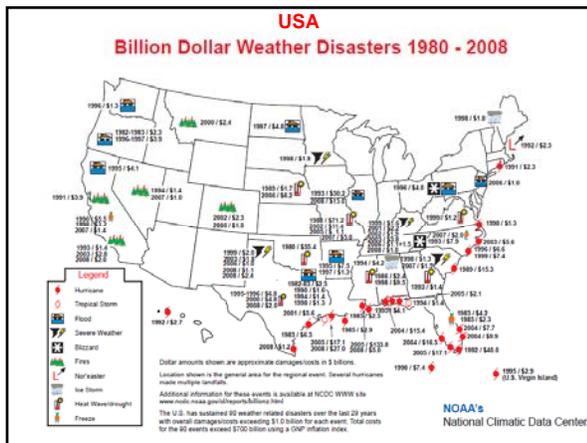


Climate Change

No matter the inequity between the developed and developing world in terms of emissions and climate consequences, there is a need to develop relevant means of adaptation to climate change both in the rich and the poorer countries.

Sustainable Land Administration Systems should serve as a basis for climate change mitigation and adaptation as well as prevention and management of natural disasters.

- Incorporating climate change into current land policies
- Adopting standards for energy use, emissions, carbon stock potential.....
- Identifying prone areas (sea level rise, drought, flooding, fires,...)
- Controlling access to and use of land in relation to climate change and disaster risks
- Controlling building standards and emissions in relation to climate change
- Improving resilience of existing ecosystems vulnerable to climate change



Disaster risk prevention and management

- Humanitarian actors are often confronted with land issues when undertaking emergency shelter and protection activity.
- The information on the people to land relationship is crucial in the immediate post disaster situation.
- Disaster risks must be identified as area zones in the land-use plans and the land information system with the relevant risk assessment and information attached.
- Measures for disaster risk prevention and management should be integrated in the land administration systems

Post Disaster Land Guidelines developed by UN-Habitat/FAO

The FIG Agenda

Flying High

- Global partnership with the UN-agencies incl. the World Bank in support of the global agenda such as the MDGs

Keeping the feet on the ground

- Professional and institutional development at regional, national, and local level in support of the needs of our member associations and individual surveyors.

The role of FIG

FIG intend to play a strong role in building the capacity to design, build and manage Land Governance systems in response to Climate Change and in support of the Millennium Development Goals

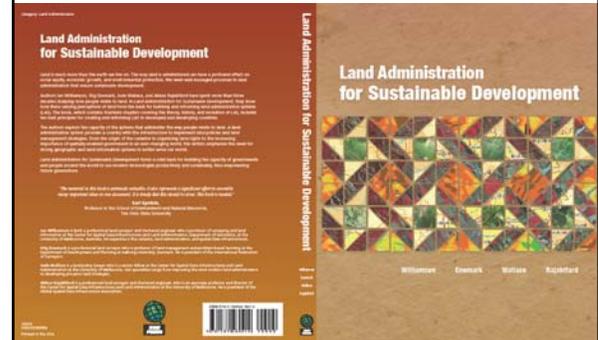
“Building the capacity for taking the land policy agenda forward in a partnership with the UN agencies and the World Bank”

Key message

***Simply put,
sustainable development
requires sustainable
land administration systems***

Land professionals play a key role

Land Administration for Sustainable Development
Williamson, Enemark, Wallace and Rajabifard 487 pages
Publisher - ESRI Press Academic, 2010



**Thank you
for your attention**

