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Understanding the Land Management Paradigm

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Vice-President of FIG

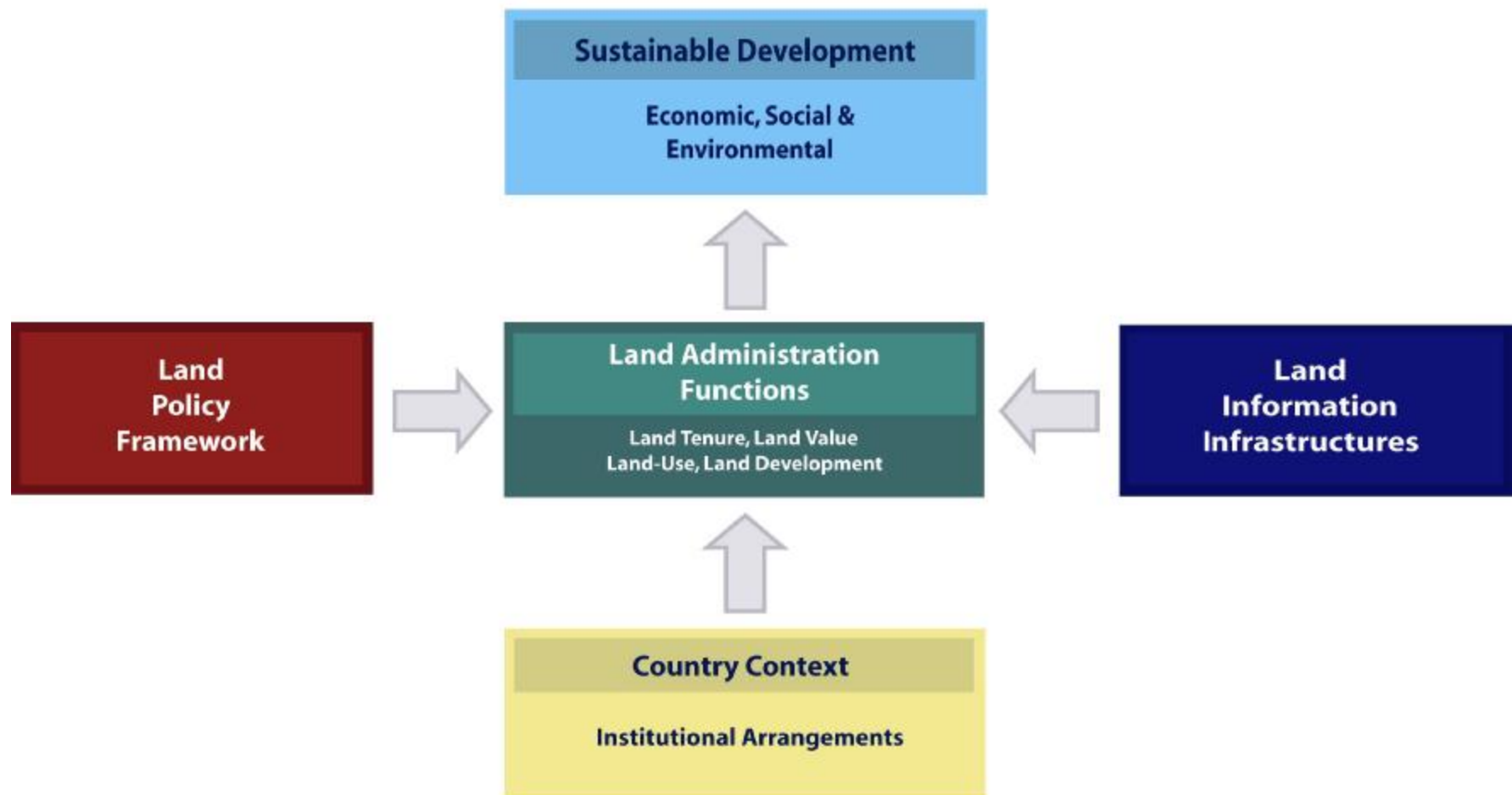
FIG COMMISSION 7 SYMPOSIUM ON
INNOVATIVE TECHNOLOGIES FOR LAND ADMINISTRATION
UNIVERSITY OF WISCONSIN, MADISON, 24-25 JUNE 2005

The Message



- The Land Management paradigm is complex and highly interdisciplinary. This paper attempts to build an overall understanding.
- There is a need for institutional development to establish sustainable national concepts in this area.
- This includes the adoption of a holistic approach to land management that combines the three components of land policies, land administration functions and land information infrastructures.
- This calls for increased international co-operation.

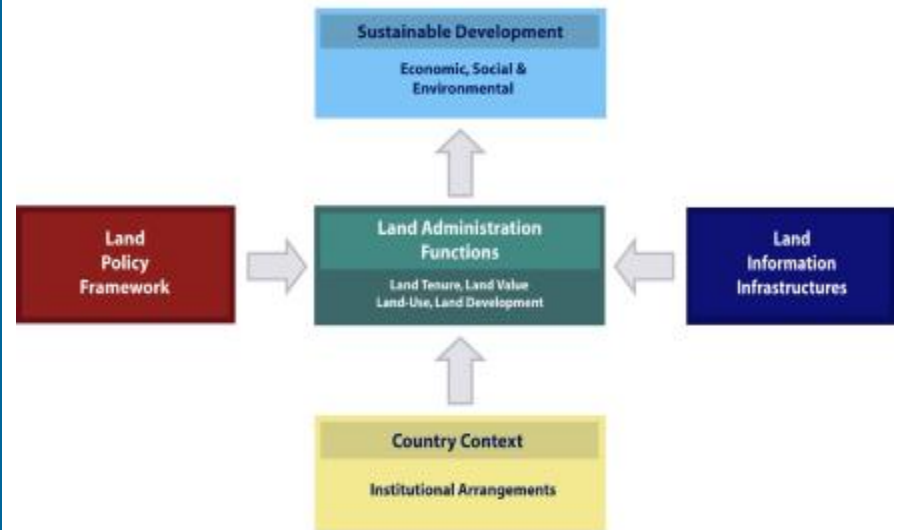
The Land Management Paradigm



Land Management is the processes by which the resources of land are put into good effect.

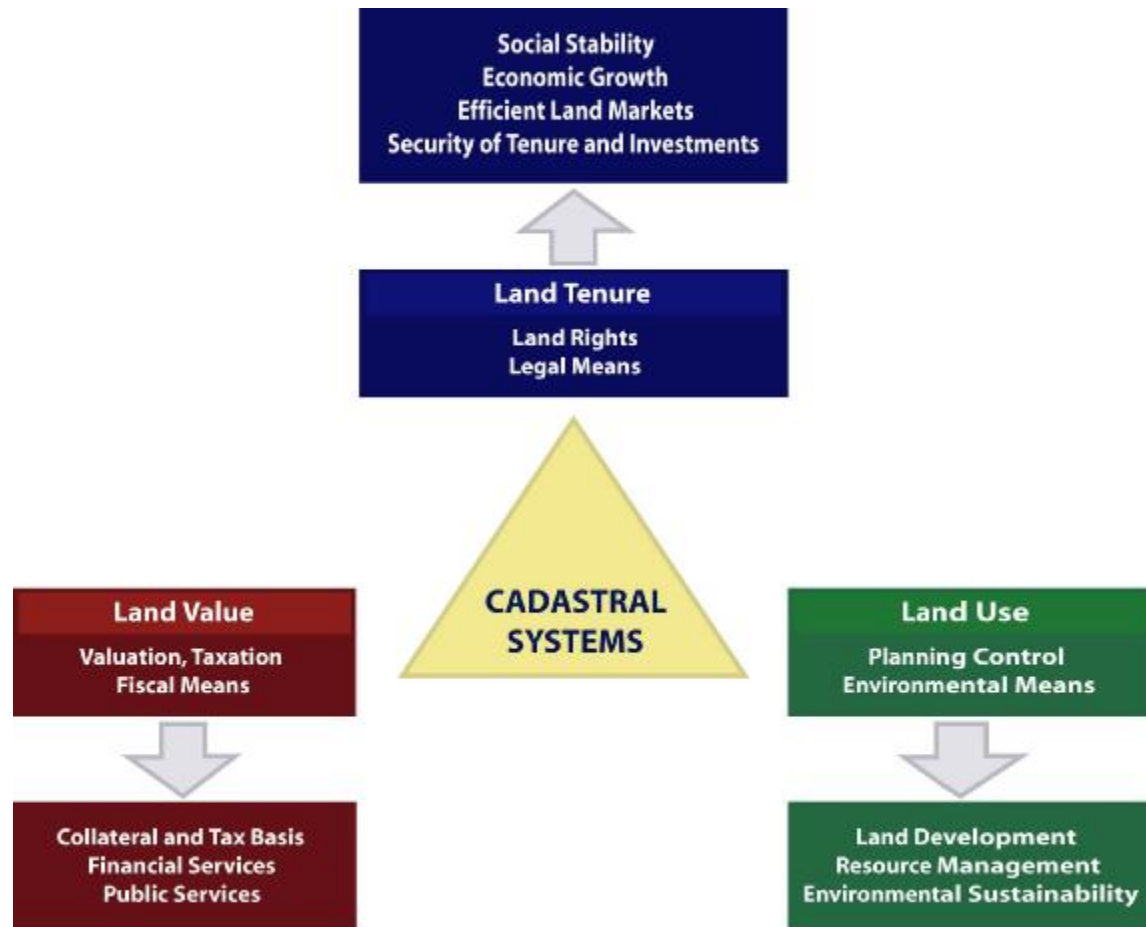
The Land Management Paradigm

- The organizational structures for land management differ widely between countries. Within this country context, the land management activities can be described by three components in support of sustainable development.
- Land policies are part of the national policies on promoting objectives such as economic development, social justice, equity and political stability. Relates to security of tenure, efficient land markets, real property taxation, land use control, environmental management etc.
- The operational component of the land management paradigm is the range of land administration functions that ensure proper management of rights, restrictions and responsibilities.
- The land administration functions are based on and facilitated by land information infrastructures that provide complete and up-to-date information about the built and natural environment.



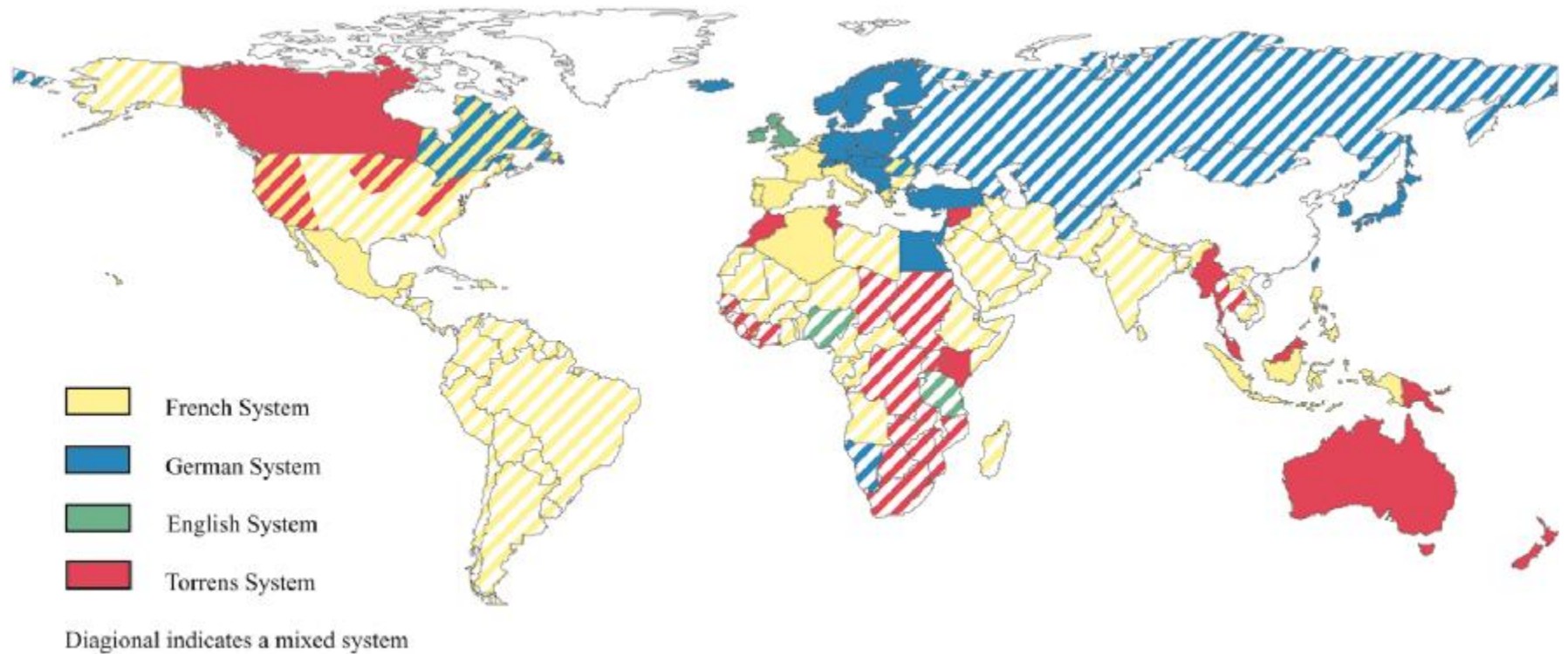
Land Management is the processes by which the resources of land are put into good effect.

Cadastral Systems – the basic building block



Cadastral Systems is about identification of land parcels for the purpose of securing land rights, assessing land values/taxation, and controlling the use of land.

Land Registration Systems around the World



Deeds System (French): A register of owners; the transaction is recorded – not the title.

Title System (German, English, Torrens): A register of properties; the title is recorded and guaranteed.


A worldwide Comparison of Cadastral Systems

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PCGIAP-Working Group 3
"Cadastré"

The University of Melbourne
Department of Geomatics

FIG-Commission 7
"Cadastré and Land Management"

Cadastral Template

A Worldwide Comparison of Cadastral Systems

Cadastral country reports based on a jointly developed PCGIAP/FIG template.
Established under UN mandate by Resolution 4 of the 16th UNRCC-AP in Okinawa, Japan in July 2003.
UN endorsement for cooperation with UN-ECE WPLA, UN-ECA CODI, and PCIDEA.

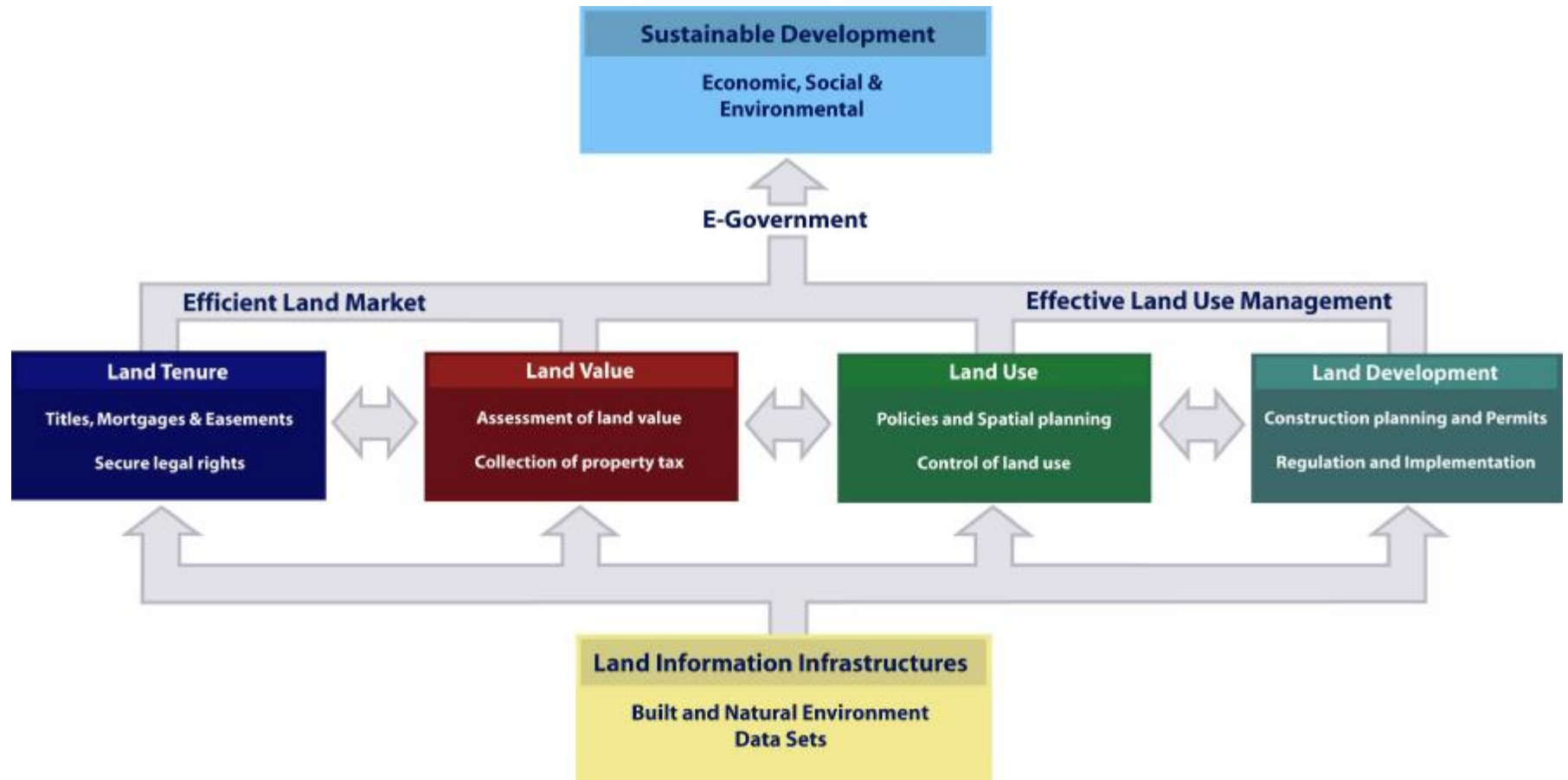
<h3>Data per Country</h3> <p>(last update: 7 Jun. 2004, 35 countries)</p> <p>as .htm <input type="text" value="Select a Country"/></p> <p>as .pdf <input type="text" value="Select a Country"/></p> <h3>Field Definitions</h3>  <h3>I. Data per Data Fields</h3> <p>(last update: 7 Nov. 2003, 30 countries)</p> <p><input type="text" value="D3 - Role of Cadastral Layer in SDI"/></p>	<h3>II. Principles and Statistics</h3> <p>(last update: 18 Apr. 2004, 33 countries)</p> <ul style="list-style-type: none">1.1 Cadastral Principles2.1 Population2.3 Parcels2.7 Professionals <h3>Documents</h3> <ul style="list-style-type: none">• Questionnaires for Download (English, Español, Portuguese).• Publications• Administrative Documents	<h3>Latest Updates</h3> <ul style="list-style-type: none">• Country report of Namibia as 35th country (7 Jun. 2004)• Country report of Venezuela (in Spanish) as 34th country (28 May 2004)• Country report of Mexico (also in English) (26 Apr. 2004)• Country report of Mexico (in Spanish) as 33rd country (18 Apr. 2004)• Publication in the Hong Kong Journal of Geospatial Engineering (3 Mar. 2004)• Questionnaires available also in Spanish and Portuguese (5 Feb. 2004)
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The "Cadastral Template" has been developed by a research group at the Department of Geomatics of the University of Melbourne. It consisted of Prof. Ian Williamson, Dr. Abbas Rajabifard, and Daniel Steudler, supported by Prof. Stig Enemark from Aalborg University, Denmark.

PCGIAP-Working Group 3 "Cadastré" cooperates with FIG-Commission 7 to place the country information jointly on this website and to maintain the information during its 2003-2006 Work Plan.

Internet

Land Administration Systems



Land Administration Systems are concerned with the four land administration functions of land tenure, land value, land-use and land development.

An Overall Conceptual Approach

§ Overall Land Policy

- Determining values, objectives and the legal framework in relation to management of land as a legal, economic, and physical object.
- Basis for building sound land administration infrastructures.

§ Cadastral Systems

- Identification of land parcels and securing land rights
- Facilitate land registration, land valuation, and land-use control
- Underpin sound Land Administration

§ Land Administration Systems

- Administration of land tenure, land value, land-use, and land development
- Facilitate efficient land markets and effective land-use management
- Underpin sound Land Management

§ Land Management

- Management of processes by which land resources are put into good effect.
- Facilitates economic, social, environmental sustainability
- Underpins and implements sound Land Policies

Institutional Development - recommendations

- Develop in-country self assessment procedures to identify institutional capacity needs
- Promote adoption of comprehensive land policies and a holistic approach to land management
- Establish a clear split of duties and responsibilities between national and local government based on the principles of good governance
- Promote the understanding of land management as a highly interdisciplinary paradigm
- Promote the need for an interdisciplinary approach to surveying education
- Establish strong professional bodies
- Promote the need for CPD activities

Integrated Land-Use Management – a holistic approach



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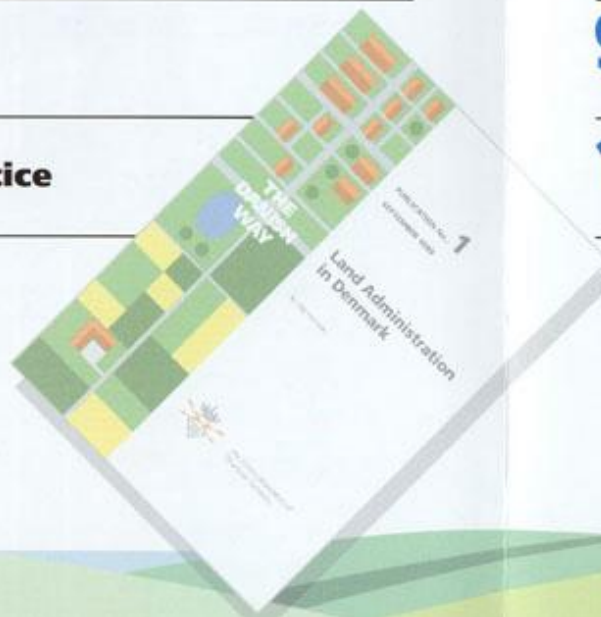
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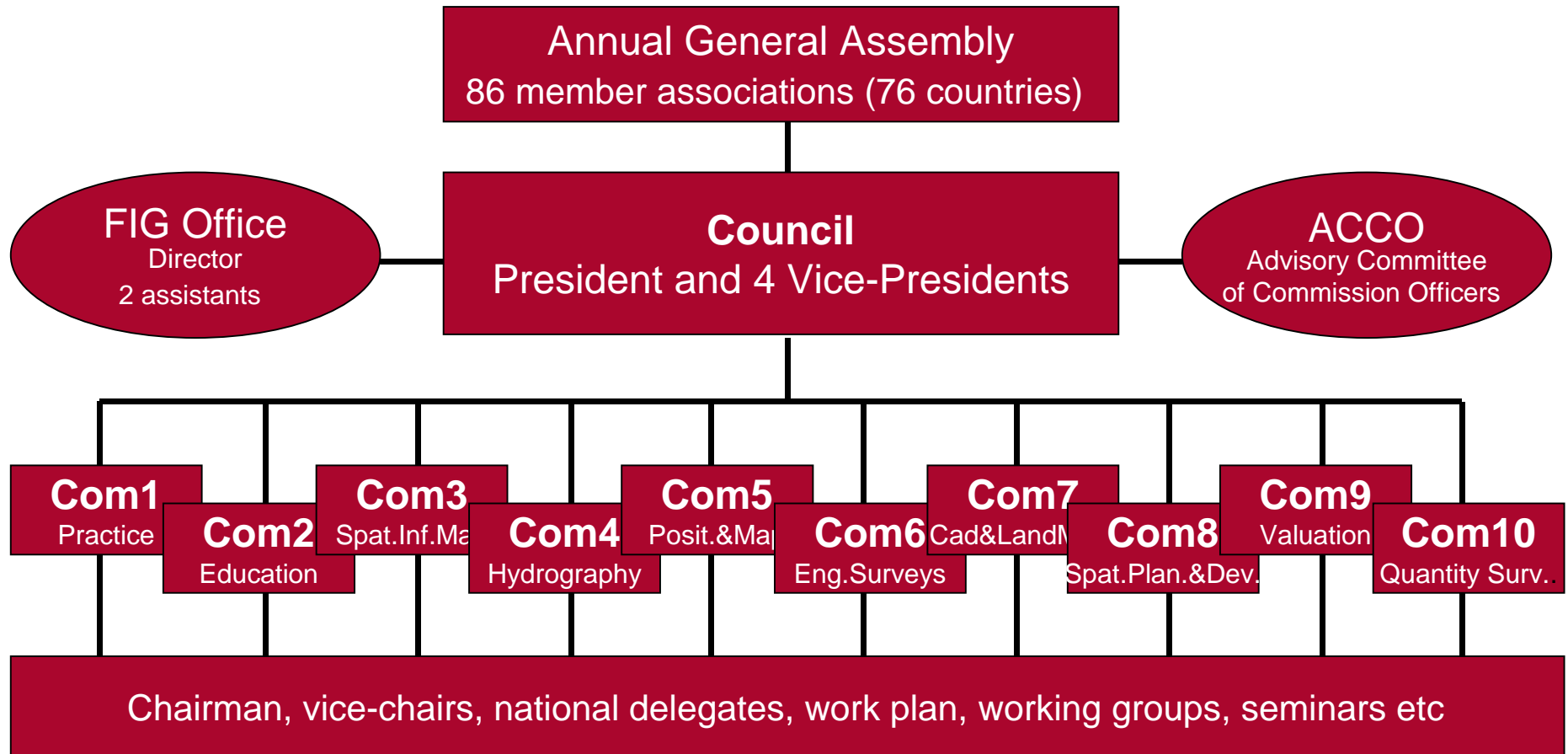


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Organizational Structure

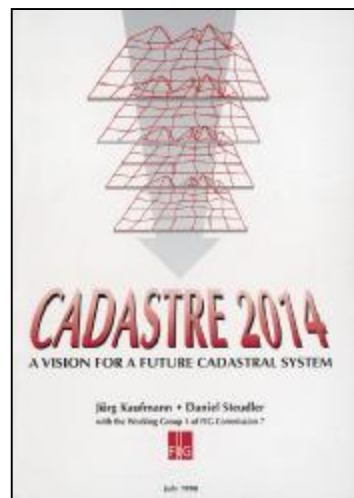
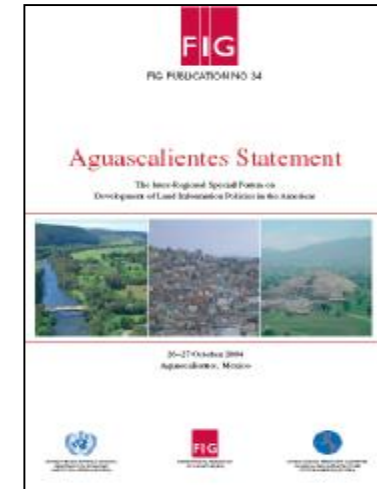
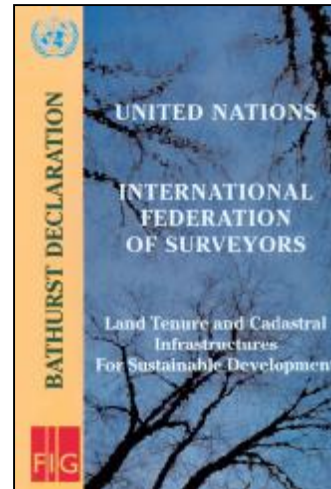
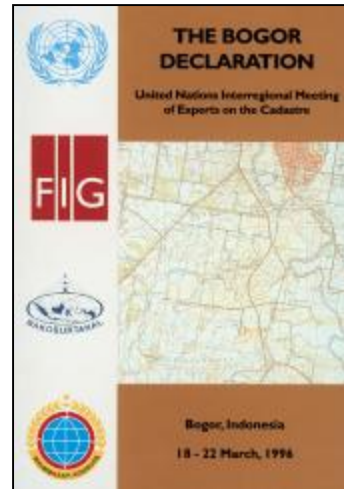


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- **Professional Development**
 - Global forum for professional discussions and interactions
 - Conferences, symposia, commission working groups,
- **Institutional Development**
 - Institutional support for educational and professional development at national and international level
- **Global Development**
 - Cooperation with international NGO's such as the UN agencies, World Bank, and sister organisations
 - Joint activities and common policy-making to reduce poverty and enforce sustainable development

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Final Remarks



- The objective of this paper is to build an overall understanding of the land management paradigm.
- There is a need for institutional development to establish sustainable national concepts in this area.
- This includes the adoption of a holistic approach to land management that combines the land administration function with the topographic mapping function.
- The debate should be aware of the global trends in this area, while still recognising that the design of such systems will always be country unique.
- This calls for increased international co-operation. FIG is prepared to invest in such corporative efforts.

Thanks for your attention

