


 Fédération Internationale des Géomètres
 International Federation of Surveyors
 Internationale Vereinigung der Vermessungsingenieure

Geodetic Engineers of The Philippines, Inc.
2009 SOUTH LUZON AREA ASSEMBLY
 6th & 7th November 2009
 Quezon City, Philippines


*Accelerating the Development of Cadastral Spatial Data
 Infrastructures Towards Sustainable Good Land Governance*

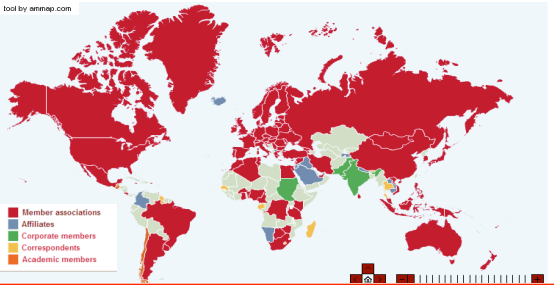
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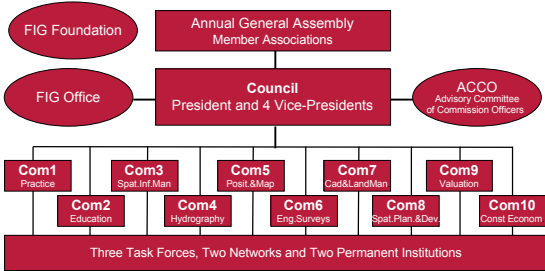
Greetings from  Council & Office, Copenhagen, Denmark


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99 FIG member associations from 81 countries
 28 affiliates, 36 corporate, 15 correspondents, 82 academic members


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The International Federation of Surveyors
Organizational Structure

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*"As new discoveries are made,
 new truths discovered, and
 manners and opinions change
 with the change of circumstances,
 institutions must advance also to
 keep pace with the times"*

Thomas Jefferson


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Challenges of The Times


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United Nations Millennium Development Goal


"Looking ahead to 2015 and beyond, there is no question that we can achieve the overarching goal: we can put an end to poverty. In almost all instances, experience has demonstrated the validity of earlier agreements on the way forward; in other words, we know what to do. But it requires an unswerving, collective, long-term effort."

United Nations Secretary General Ban Ki-moon

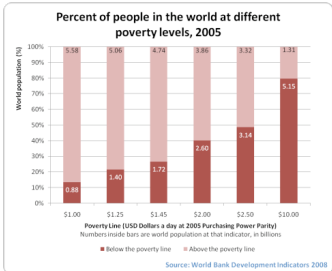
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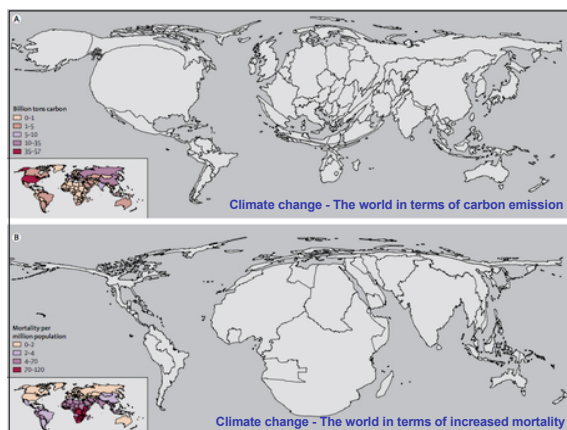
Percent of people in the world at different poverty levels, 2005



Source: World Bank Development Indicators 2008

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Climate change - The world in terms of carbon emission

Climate change - The world in terms of increased mortality

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Climate Change

"Climate change is the defining challenge of our time"
 Combining the impacts of climate change with the current global financial crisis we risk that all the efforts to meet the MDGs will be rolled back. Those that contributed the least to this planetary problem continue to be disproportionately at risk.

Ban Ki-moon, UN Secretary General


"Climate change also provides a range of opportunities"
 Prevention of climate change can be greatly enhanced through better land-use planning and building codes so that cities keep their ecological footprints to a minimum and make sure that their residents, especially the poorest, are protected as best as possible against disaster.

Anna Tibajuka, Executive Director, UN-Habitat

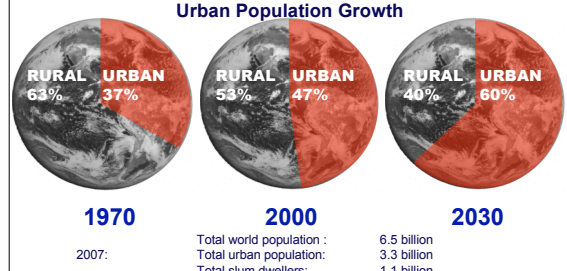
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Urban Population Growth



1970
 2007: Total world population: 6.5 billion
 Total urban population: 3.3 billion
 Total slum dwellers: 1.1 billion

2000
 Total world population: 6.5 billion
 Total urban population: 3.3 billion
 Total slum dwellers: 1.1 billion

2030
 Total world population: 6.5 billion
 Total urban population: 3.3 billion
 Total slum dwellers: 1.1 billion

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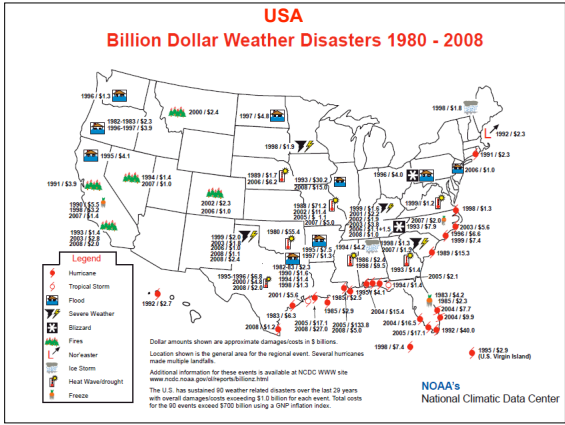
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7 | Manila
 Time, 2009

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The Moment
 Time, 2009

g3009: Padang
 A NATURAL DISASTER IS ALMOST ALWAYS EXTRAORDINARY. Yet in very real terms, at least, that you can have as good a chance of expecting it as not—depending on your facts. Over just five days, however, it seemed as if the natural had become the unnatural, the random the predictable. A natural event changed to a mostly man-made phenomenon in a few hours.

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While many people are aware of the terrible impact of disasters throughout the world, few realize that this is a problem that we can do something about.
 (Kofi A. Annan, former UN Secretary-General)

"You cannot control the Hazard but you can manage the Risk"

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Figure 1. GDP Growth (Percent change)
The long climb

The world economy is recovering from financial disaster. But it will not return to normal as we know it, says Simon Cox (Economist, 2009)

Source: IMF staff estimates.

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Changing Role in these Times

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Positioning Infrastructure based on Global Navigation Satellite Systems...

Reference Station 1, Reference Station 2, Reference Station 3, User's Receiver

... and... a Network of Continuously Operating Reference Stations (CORS)

Positioning, Navigation & Location Infrastructure

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Positioning, Navigation and Location Infrastructure enables description of position as latitude, longitude and height and underpins all geo-spatial data

- Characteristics:
 - Coverage: initially local but has evolved to national, regional and continental;
 - Measurement: initially ground based, labor intensive, now more efficient using GNSS;
 - Data management: initially very analogue but now a key component and often integrated into Spatial Data Infrastructures (SDI)

(Higgins, M; 2009)

Positioning infrastructures are the only truly global infrastructure underscoring capture and management of spatial data world wide

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Spatial Information provides the reliable foundation . . .

Commercial, Education, Urban, Government

... for informed, responsible and sustainable action

gone mobile, widely available . . .

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OPPORTUNITIES	THREATS
<p>Multi-disciplinarity</p> <p>Profession can offer "single-window" to meet stakeholders' needs</p>	<p><i>There may be blurring of different roles and responsibilities</i></p> <p><i>Retraining and "up-skill" is important but can add to the overheads</i></p>
<p>Skills shortage /aging population</p> <p>Older workers can provide experience and fill the skills shortage gap</p>	

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OPPORTUNITIES	THREATS
<p>Sustainability</p> <p>Sustainable development and environmental preservation are dictating practices and delivery</p>	<p><i>Standards and Codes need to be adhered together with ethical behaviour</i></p> <p><i>Difficult and costly to remain up-to-date. Barriers to "entry" can be forbidding.</i></p>
<p>New technologies</p> <p>Greater productivity and efficiency may be gained through the adaptive use of emerging technology</p>	

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NEW KNOWLEDGE AREAS

Capital/Finances, eCommerce/eGovernment, Risk Management, Governance, Health and Safety, Sustainability, Supply Chain Management, Data / Information Management

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NEW SKILL

Strategic Planning / Management / Thinking

Management

Organizational Behaviour

People Skills

Organizational/Business Psychology

Organizational Culture

Cross-Cultural Skills

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"The Profession needs to change from being largely reactive, responding to external "pulls" and become much bolder, more entrepreneurial and proactive, creating more "pushes" for innovation. Lastly, those who are most likely to succeed will shake off the bureaucratic, risk averse attitudes and become much more risk managing, entrepreneurial and agents of change.

The 21st Surveyor is challenged to become a business manager, a strategist, a knowledge manager and a leader – not a follower – of change."

(SL Chua & Hasmawati, 2007)

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- **From measurement**
 Surveyors, Geodetic Engineers will still be high level experts within measurement science, but due to technological advancement and development, the role is changing into **managing the measurements**
- **To management**
 Surveyors, Geodetic Engineers will increasingly contribute to **building sustainable societies** as experts in managing land and environment, construction and properties

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Pacing with the Times

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Spatially enabled land administration

Social Context
 Sustainability
 Sustainable Development
 Economic, Social, Environmental, Governance
 Enhancing Quality of Life

Land Policy Framework

Services to Business & Citizens

Country Context
 Institutional Arrangements
 Capacity Building
 Education & Research

(Eneemark, 2009)

FIG **A Vision for Sustainable Land Management**

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Sustainable Development -
 Development that "meets the needs of the present without compromising the ability of future generations to meet their own needs."

(Brundtland Commission)

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"Development is fundamentally a process of change. Central to this is the increasing productivity and intensity of agriculture, of people shifting from farms to industry and services, and from the countryside to towns and cities. Secure land tenure, especially for poor people and for women, whose land rights are very often ignored, is a key precondition for this, as is the ability to exchange land rights at low-cost."

Nicholas Stern
 (Former Senior Vice President and Chief Economist, The World Bank)

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Land, in an economic sense, includes all natural resources, materials, airwaves, as well as the ground. All air, soil, minerals and water is included in the definition of land. Everything that is freely supplied by nature, and not made by man, is categorized as land. Thus, land is the mother of all beings and things.

Capital isn't. People's survival does not depend on capital, but on land. **Land is essential to all life and prosperity.**

(Moser, Bruno; 2005)

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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; land planning and land development.


Land governance is about determining and implementing sustainable land policies

(Enemark, 2009)

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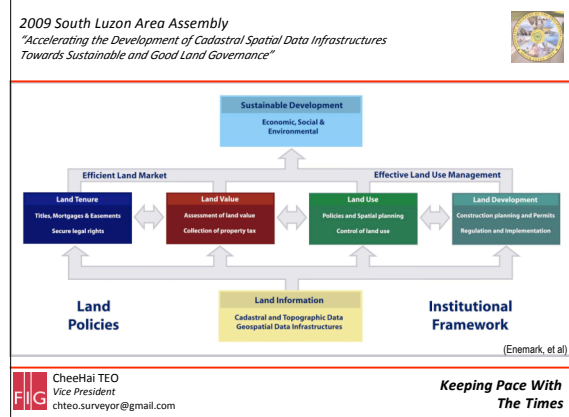
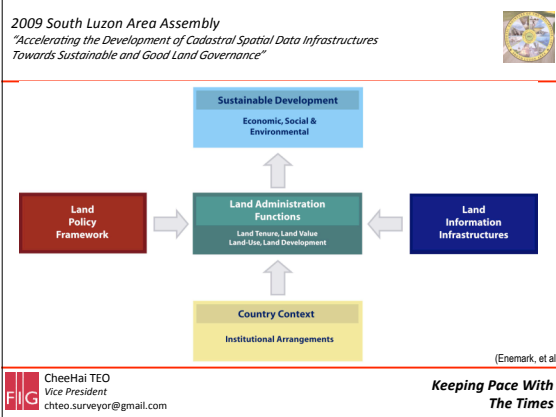


Key Principles in LA System	Implications of Poor Governance	Examples of Possible Improvements
3. Broad access to land administration information		
<ul style="list-style-type: none"> Land information readily accessible (public and private rights) 	Lack of public trust, lack of oversight/illegal alteration of records	Formalizing community oversight – examples Indonesia Policy to make records publicly available – examples several states in India
<ul style="list-style-type: none"> Web access to records 	Lack of public trust, lack of oversight/illegal alteration of records	Computerization of records and putting on the internet – examples Maharashtra (India), Punjab (Pakistan)
<ul style="list-style-type: none"> Cost of access to information/certified extracts 	High cost used to limit public access	Policy to provide records at cost of reproduction – examples most states in Australia, Malaysia

(Burns, Tony., 2007)

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NSDI serving:

- Control of use of land and natural resources,
- Environmental protection,
- Forecasting consequences of climate change,
- Managing the risks of natural disasters.
- Bridging the information gap between government and citizens
- Pushing for administrative reform of sustainable use of land resources.

Spatial Data Infrastructures

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Cadastral engines...

- Multipurpose Cadastre (German style)
- Title or deeds tenure style Cadastres (Turkish/English style)
- Taxation driven cadastre (French/Latin/USA style)

SDI Maps, agencies and other data providers

Land management paradigm

Spatially enabled government

Sustainable development

- Economic
- Environmental
- Social
- Governance

Stakeholder	Activity
Government, Industry, Community	Policy / Community Service Delivery
Government, Industry, Community	Environmental Management
Government, Community, Planners	Census, Electoral, Social Planning
Utilities, Government, Land Owners, Local Government, Community	Transport, Communications, Utilities
Developers, Planners, Land Owners, Local Government, Community	Planning, Development, Land Management
Government, Valuers, Rate Payers/Land Owners, Local Government	Valuation, Taxation
Government, Land Owner, Conveyancing, Real Estate Solicitors, Financial Institutions	Land Registration, Conveyancing, Mining Tenure, Native Title
Government, Surveyors	Surveying
Government, Surveyors	Surveying

Scale: State / Region, Parcel, Point

(Bell, Keith C, 2001)

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Role of FIG

Professional Development
 Global forum for professional discussions and interactions through conferences, symposia, commission working groups,

Institutional Development
 Capacity building through support for educational, professional and institutional development at national and regional level

Global Development
 Cooperation with the UN agencies, FAO, UN.Habitat and World Bank, and sister organisations through Joint Board of Geospatial Information Societies.

Information and Communication
 website, annual review, publications

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"Building the Capacity"

is the key priority for the FIG Council for its current term of office (2007 - 2010)

and

the belief that Surveyors is able to face the challenges of the times.

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Global recognition → national recognition → local recognition

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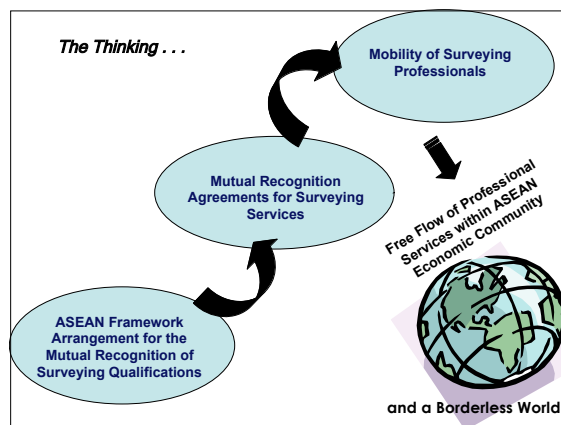
The International Federation of Surveyors (FIG) recognises –

- the importance of free movement of surveyors in a global marketplace;
- that mutual recognition of professional qualifications provides a means whereby professional qualifications held by individual surveyors can be recognised by other professional organisations or competent authority as comparable to those acquired by their own national surveyors; and
- the need to work with external organisations (such as the WTO and ASEAN) in order to achieve mutual recognition in both principle and practice of professional qualifications for surveyors.

[FIG Publication No. 27]

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Mutual Recognition of Qualification -

- is a process that allows the qualifications gained in one country (the home country) to be recognised in another country (the host country).
- allows each country to retain its own kind of professional education and training (*including the registration and licensing requirement*).
- is not about how practising professionals are authorised to practise in the host country.

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Within ASEAN, MRAs, with particular emphasis given to professionals, is an integral part of the ASEAN Framework Agreement on Services (AFAS) in its goal towards liberalization of trade in services and the ASEAN Economic Community.

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ASEAN Framework Agreement on Services (AFAS)
 (Mutual Recognition Provided under Article V)

"1. Each Member State may recognize the education or experience obtained, requirements met, or licenses or certifications granted in another Member State, for the purpose of licensing or certification of service suppliers. Such recognition may be based upon an agreement or arrangement with the Member State concerned or may be accorded autonomously.

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ASEAN Framework Agreement for the Mutual Recognition of Surveying Qualification

Signed by ASEAN Economic Ministers on:
 19th November 2007

Came into force on:
 20th February 2008

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ASEAN FRAMEWORK FOR THE MUTUAL RECOGNITION OF SURVEYING QUALIFICATIONS

DONE at Singapore, this 20th, Day of November in the year Two Thousand and Seven, in a single original copy in the English language.

The Governments of Brunei Darussalam, the Kingdom of Cambodia, the Republic of the Philippines, the Kingdom of Thailand, and the Member Countries of the ASEAN (hereinafter collect "ASEAN Member Countries");

RECOGNISING the objective Agreement on Services (herein which are to enhance the ASEAN Member Countries' and competitiveness, diversify supply and distribution of services within and outside ASEAN; to liberalise trade depth and scope of liberalisation by ASEAN Member Countries on Trade in Services (herein the aim to realising a free trade

RECOGNISING that qualified in assuring professional competence Countries have different surveying profession and 1 frameworks, as well as different requirements in each ASEAN

For Brunei Darussalam:
 (IM JOCK SENG)
 Second Minister of Foreign Affairs and Trade

For the Kingdom of Cambodia:
 CHAN PRASITH
 Senior Minister and Minister of Commerce

For the Republic of Indonesia:
 MARIELKA PANGESTY
 Minister of Trade

For the Lao People's Democratic Republic:
 NAM VIVAKETH
 Minister of Industry and Commerce

For Malaysia:
 KUSUMAHADJI
 Minister of International Trade and Industry

For the Union of Myanmar:
 U SOE THA
 Minister for National Planning and Economic Development


For the Republic of the Philippines:
 PETER B. FAVILA
 Secretary of Trade and Industry

For the Republic of Singapore:
 LIM JOO HOON
 Minister for Trade and Industry

For the Kingdom of Thailand:
 KUL APONGPORN
 Minister of Commerce

For the Socialist Republic of Viet Nam:
 NGUYEN HOANG
 Minister of Industry and Trade

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ASEAN Framework Arrangement for the Mutual Recognition of Surveying Qualifications is a statement of mutual respect and shared objectives that identifies aims and objectives and establishes procedural arrangements for further negotiations.

It basically set the terms and conditions which are pre-positioned for areas of work not yet carried out.

Framework Arrangement sets the stage for future substantive and progressive liberalization and build trust and mutual respect.

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Appendix I
 Competent Authority
 In charge of regulating the practice of surveying services and Registered/Licensed Surveyors (Refer to Article 2.2)

Brunei Darussalam	Land Surveyors Board
Kingdom of Cambodia	General Department of Cadastre and Geography Ministry of Land Management, Urban Planning and Construction
Republic of Indonesia	National Coordinating Agency for Surveys and Mapping
Lao People's Democratic Republic	1. National Geographic Department, Prime Minister's Office 2. Department of Housing and Urban Planning, Ministry of Public Works and Transportation
Malaysia	Land Surveyors Board Ministry of Natural Resources and Environment
Union of Myanmar	Survey Department Ministry of Agriculture and Irrigation
Republic of the Philippines	Professional Regulation Commission Board of Geodetic Engineering
Republic of Singapore	Land Surveyors Board Ministry of Law
Kingdom of Thailand	Council of Engineers
Socialist Republic of Viet Nam	Department of Survey and Mapping Ministry of Natural Resources and Environment

The ASEAN Framework Arrangement for the Mutual Recognition of Surveying Qualifications identifies within each of the ten ASEAN Member Countries its Competent Authority

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Competent authorities are tasked with -

- negotiating and implementing subsequent MRA with one or more Competent Authorities;
- Monitor and regulate the conduct of persons so recognised under any MRAs;
- Promote Continuing Education and Professional Development;
- Maintain international best practices including high ethical standards;

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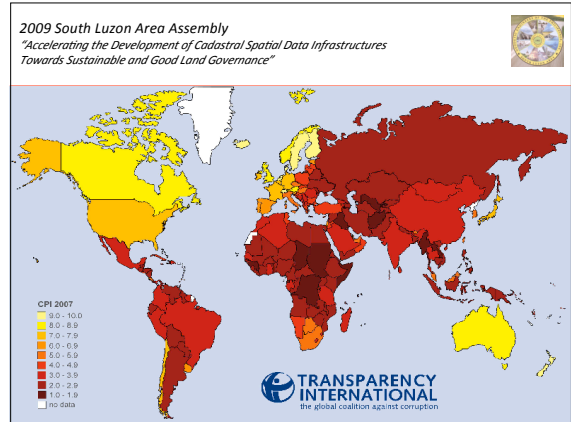
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Closing Remarks


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Good governance in land tenure and administration

Good Land Governance include:

The legitimacy of land agencies and land administrators is widely recognized by citizens;

Land Agencies serve all citizens including the weak as well as the strong;

Land Agencies provide services that respond to the needs of their customers;

The results of the services are consistent, predictable and impartial;


The services are provided efficiently, effectively and competently and with integrity, transparency and accountability.

(Food and Agriculture Organization of the United Nations, 2007)

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"Accelerating the Development of Cadastral Spatial Data Infrastructures Towards Sustainable and Good Land Governance"



Land governance and management is a core area for the Profession and will require continuing response from the Profession including -

- high level geodesy;
- Up-to-date techniques and technologies to support management and delivery;
- Spatial data infrastructures to support effective decision making;
- Secure tenure;
- Sustainable system of land valuation, land use planning and management; and
- transparency, accountability and ethical behaviour

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