Building the Capacity

The FIG Agenda and Achievements 2007-2010

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President

FACING THE CHALLENGES – BUILDING THE CAPACITY
FIG CONGRESS, SYDNEY, AUSTRALIA, 11-16 APRIL 2010

The FIG Agenda

“Building the Capacity”
through

“Flying high
and
Keeping the feet on the ground”
The theme “Building the Capacity” relates to flying high and also keeping our feet on the ground. I suggest we give priority to the following key issues:

5. Promoting and enhancing the role of FIG:
   - Professional development – providing the international forum for development and innovation in all aspects of the surveying discipline.
   - Capacity building – including a Task Force on Organisational and Institutional Development.
   - Global development – including increased cooperation with the UN agencies, and our sister organisations.
   - Linking – strengthening the links between the global agenda and the surveying grassroots.

2. Continuing and enhancing the dialogue with the Member Associations:
   - Promoting the benefits of being a member.
   - Increasing the member base.
   - Upgrading development and implementation of the information and communication policy.

3. Promoting FIG as a truly Global Organisation:
   - Encouraging global representation in council and committee officers.
   - Encouraging global dissemination of standards and guidelines at the FIG conferences, seminars etc.
   - Interaction with regional organisations and activities and respecting cultural diversity.

4. Responding to the Millennium Goals:
   - Task Force to develop a FIG Policy in cooperation with the UN agencies and especially the World Bank.
   - High level FIG/UN conference in 2010 to promote the FIG global profile in this area.

5. Revising the Conference Structure:
   - Every two years major conference such as congress or major Working Week.
   - Odd years: Working Week and regional conferences in partnership with the UN organisations.
   - Annual/initial report session on topical issues e.g. linked to National events.
   - FIG Office to ensure administrative, organisational and financial sustainability.

6. Empowering ACOI and the Commission Activities:
   - ACOI as a dynamic forum for policy making and professional development.
   - Enhancing the profile of the technical programme at the conferences.
   - Establishing an FIG virtual journal with peer reviewed papers.
   - Preparing a starting pack with guidelines for various areas and the clear vision.
   - Establishing task forces to deal with inter-commission activities and policy implementation.

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**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.
Current FIG Policies

Is the role of the Surveyors changing?

FIG Policies - the big swing

- **From Measurement**
  Surveyors will still be high level experts within measurement science, but due to technology development the role is changing into managing the measurements

- **To Management**
  Surveyors will increasingly contribute to building sustainable societies as experts in managing land and properties

*The Land Professionals*
Positioning infrastructures
Versus traditional Geodetic Datum

• Enables description of position as latitude, longitude and height and underpins all geo-spatial data;

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

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

Source: Matt Higgins, Washington, 2009

A global land management perspective

Land Administration Systems provide the infrastructure for implementation of land polices and land management strategies in support of sustainable development.
The Role of FIG

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

- **Institutional Development**
  - Capacity building through Institutional support for educational and professional and institutional development at national 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

- **FIG Office**
  - Administration, finances, services

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100 FIG Member Associations from 83 Countries

34 affiliates, 35 corporate, 18 correspondents, 89 academic members

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FIG Congress 2010
Facing the Challenges – Building the Capacity
Sydney, Australia, 11-16 April 2010
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Conferences 2007

- **FIG Working Week, Hong Kong**
  - Highly successful conference
  - Well focused and managed by the Hong Kong hosts
  - Setting the scene for the four year term of office

- **FIG Regional Conference, San Juan, Costa Rica**
  - Very successful conference
  - Clear focus on the key regional issues
  - Publication on Pro-poor Coastal Zone Management contributing to the regional and global agenda
FIG Working Week
Stockholm, Sweden

- Highly successful conference
- Integrate seminar on improving slum conditions through innovative financing
- Strengthening co-operations with UN-Habitat
- Publication contributing to the global agenda

Conferences 2009

- **FIG Working Week, Eilat, Israel**
  - Highly successful conference
  - Well focused and managed by the Israeli hosts
  - Strengthening the FIG brand in the global surveying community

- **FIG Regional Conference, Hanoi, Vietnam**
  - Highly successful conference
  - Clear focus on the key regional issues
  - Strengthening co-operations with FAO
  - Publication on Land Acquisition contributing to the regional and global agenda
The XXIV FIG
International Congress 2010

The biggest FIG Congress ever
100+ countries, 2000+ participants, 800+ papers, 150 sessions

Professional Development – the Commissions

The heart and engine of FIG

• Providing the technical programme for the FIG conferences
• Highly successful work plans
• Annual meetings and workshops
• Commission newsletters and high level publications on key professional issues
• Allows in principle everyone to participate in the FIG activities
• National delegates ensure interaction with the wider FIG membership
• A powerful concept for professional development
The International Federation of Surveyors
Organizational Structure

Annual General Assembly
100 member associations (83 countries)

Council
President and 4 Vice-Presidents

ACCO
Advisory Committee of Commission Officers

Com1
Practice
Com2
Education
Com3
Spat.Int Me
Com4
Hydrography
Com5
Posit.&Ma
Com6
Eng.Surveys
Com7
Spat.Pl.&Dev.
Com8
Valuation
Com9
Cad&Land
Com10
Const Econom

Chairman, vice-chairs, national delegates, work plan, working groups, seminars etc

www.FIG.net

The Commissions – the heart and engine of FIG

Commission 1, Professional Practice
WG 1.1 Standards Network
WG 1.2 Young Surveyors Network
WG 1.3 Surveyors Changing Role in Society

Commission 2, Professional Education
WG 2.1 Curriculum development -Learning
WG 2.2 e-Learning
WG 2.3 Educational Management and Marketing
WG 2.4 Real Estate Valuation and Management Education

Commission 3, Spatial Information Management
WG 3.1 e-Government and e-Citizen
WG 3.2 Spatial data Infrastructure
WG 1.3 Multidimensional Aspects of Spatial Information Management

Commission 4, Hydrography
WG 4.1 Hydrographic Surveying in Practice
WG 4.2 Standards and Guidelines
WG 4.3 Administering Marine Spaces
WG 4.4 Capacity Building and the Economic Benefits of Hydrography

Commission 5, Positioning and Measurement
WG 5.1 Standards, Quality Assurance and Calibration
WG 5.2 Reference Frame in Practice
WG 5.3 Integrated Positioning, Navigation and Mapping Systems
WG 5.4 GNSS – Global Navigational Satellite Systems
### Commission 6, Engineering Surveys
- WG 6.1 Deformation Measurement and Analysis
- WG 6.2 Engineering Surveys for Industry and Research
- WG 6.3 Engineering Survey Databases and Facility Management
- WG 6.4 Engineering Surveys for Construction Works and Structural Engineering
- WG 6.5 Terrestrial Laser Scanners

### Commission 7, Cadastre and Land Management
- WG 7.1 Development of Pro-Poor Land Management and Administration
- WG 7.2 Land Administration to Support Sustainable Development
- WG 7.3 Application of Innovative Technology in Land Administration

### Commission 8, Spatial Planning and Development
- WG 8.1 Planning Strategy for Urban Development and Regeneration
- WG 8.2 Informal Settlements Issues in Spatial Development, Planning and Governance
- WG 8.3 Re-engineering Mega Cities
- WG 8.4 Urban Planning in Coastal Regions

### Commission 9, Valuation and the Management of Real Estate
- WG 9.1 Compulsory Purchase and Compensations in Land Acquisition and Takings
- WG 9.2 Improving Slum Conditions through Innovative Financing
- WG 9.3 Diagnostic Tools and Prescriptive Practices for The Valuation Profession
- WG 9.4 Review of Valuation Methods and Standards Worldwide
- WG 9.5 GIS-analyses in Real Estate Market Analyses and Valuation

### Commission 10, Construction Economics and Management
- WG 10.1 Construction Economic
- WG 10.2 Commercial Management
- WG 10.3 Project and Programme Management

### Commission 1 – regional development

- **Regional development**
  - Focus on the regional recognition for capacity development

- **Young generation**
  - Promoting the young surveyors perspective

- **National authorities**
  - Promoting public private partnership
Commission 2 – building the capacity

- **Annual meetings and seminars**
  Enhancing the commission work plan and working groups through annual meetings and seminars

- **Publication**
  on e-Learning in Surveying Education
  Feeding into the council agenda of building the capacity

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Commission 3 – SDI for Mega Cities

- **Annual meetings and seminars**
  Enhancing the commission work plan and working groups through annual meetings and seminars

- **Publication**
  Addressing the global agenda on urban growth, informal development, and the role of SDI for mega cities.

- **Project with UN-Habitat**
  Informal development – case study on Albania and Greece

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FIG Congress 2010
Facing the Challenges – Building the Capacity
Sydney, Australia, 11-16 April 2010
Commission 4 – administering marine spaces

- **Focus on coastal zone management**
  Successful working group on administering marine spaces

- **Strong interaction with IHO**
  Promoting common curricula and international guidelines for national certification of hydrographers

- **Publications (to follow)**
  - Economic benefits of hydrography; Guidelines for port hydrography

Commission 5 – global positioning infrastructures

- **Strong commission network**
  Highly successful conference programmes to enhance the commission work plan

- **Strong interaction with IAG**

- **Strong cooperation with UN-OOSA**

- **Publication**
  on Cost Effective GNSS Positioning Techniques
  Contributing to the global agenda
Commission 6 – positioning accuracy

- **Strong commission network**
  - Active working groups
  - Development through seminars and workshops
  - Lake Baikal, June 2009

- **Strong interaction with ISPRS**
  - Terrestrial laser scanning and image processing

- **Machine control and guidance**
  - New topic precise positioning guidance for e.g. agricultural machinery
  - Lisbon, May 2008

Commission 7 – secure land tenure

- **Strong commission network**
  - Annual meetings and international seminars
  - Focus on land administration for sustainable development

- **Project with UN-HABITAT**
  - Building a pro-poor cadastral domain
  - The Social Tenure Domain Model

- **Project with FAO**
  - Open source software in support of Land Administration

- **Publications**
  - STDM - Social Tenure Domain Model
  - FLOSS – Open Source Software
Commission 8 – sustainable places

- **People and places**
  Focus on sustainability and planning for the people

- **Project with UN-HABITAT**
  Women’s access to land and Gender evaluation criteria

- **Africa Task force - chair**
- **SIDS seminar - Coordinator**

- **Publication**: on The Road to Sustainable Places
  To follow: Issues in Coastal Development (joint with Com 4)

Commission 9 – land acquisition

- **Successful seminars**
  Compulsory purchase and compensation
  Valuation and management of real estate

  Contributing to the seminar on
  Improving Slum Conditions through Innovative Financing in cooperation with UN-HABITAT

- **Publications**
  Hanoi Declaration
  To follow:
  Compulsory purchase and compensation
Commission 10 – project management

• **Focus on project management**
  Developing project management as a mainstream issue within FIG

  Innovations within construction economics

• **International cooperation**
  Pacific Association of Quantity Surveyors and signed agreement between six regional and national organisations of quantity surveyors.

The Commissions – ongoing innovation

• There are many other achievements by Commissions not listed above. They are in the form of workshops at FIG events, specialist events and liaisons with international partners and sister associations;
• Ensure appointment of national delegates to participate in the work of the commissions.
• Work Plans of the new Commission Chairs for 2011 - 2014 are being developed now and discussed here in Sydney.
• Now is the time to have input and get involved.
The Role of FIG

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- **Information and Communication**
  - Website, annual review, publications

- **FIG Office**
  - Administration, finances, services

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**Institutional Development - highlights**

**Capacity Building**
A broad concept – including societal, institutional and individual level.
Addressed through FIG activities at all levels, council, task forces, commissions. Providing guidance for government, members associations and individual surveyors on capacity development.

**Peer Review**
Has been introduced at FIG Working weeks since Stockholm 2008. Formalised process for quality enhancement and recognition in academia. A proper balance between peer reviewed and professional papers must ensured. Around 100 peer reviewed paper in Sydney out of around1000. Peer reviewed papers will appear at a special section of the FIG web site that will function like an on-line journal.

Thanks to Chryssy, Rudolf – and the Office
Institutional Development – more highlights

**Africa Task Force**
Enabling the surveying profession in Sub Saharan Africa to better deal with social responsibility in terms of contributing to the MDGs

**Regional Co-operation**
FIG is supportive to regional structures like CLGE, FGF, AUS, ASEAN Flag etc... they hold a lot of potential.

**Director General’s Forum**
Has been very well received as an opportunity of interaction between the CEOs and professional practice. Improving Affiliate Membership of FIG

**Young Surveyors**
This new initiative has been very successful and highly appreciated. The engagement and encouragement of the young surveyors must be sustained and improved. The interaction benefits both the young surveyors and the Federation as a whole.

Achievements

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Do Surveyors have a role to play in the global agenda?

Yes!

Simply, no development will take place without having a spatial dimension
And no development will happen without the footprint of the surveyor

The Global Agenda
The 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
Facing the Challenges – Building the Capacity
Sydney, Australia, 11-16 April 2010

Urban population growth

<table>
<thead>
<tr>
<th>Year</th>
<th>Rural</th>
<th>Urban</th>
</tr>
</thead>
<tbody>
<tr>
<td>1970</td>
<td>63%</td>
<td>37%</td>
</tr>
<tr>
<td>2000</td>
<td>53%</td>
<td>47%</td>
</tr>
<tr>
<td>2030</td>
<td>40%</td>
<td>60%</td>
</tr>
</tbody>
</table>

2007:
- Total world population: 6.5 billion
- Total urban population: 3.3 billion
- Total slum dwellers: 1.1 billion
Kibera, Nairobi, 250 ha, 1 mill+ people

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
Partnership with FAO

MoU signed 2007

Cooperation in a range of areas:

- Land acquisition, expropriation and compensation
- Management of state lands
- Capacity building in land administration
- Open source platforms in land administration
- Voluntary Guidelines on Tenure of Land and other Natural resources

Partnership with the UN-HABITAT

MoU signed 2002

Strong partnership (from 2007) within the Global land Tool Network (GLTN) on developing pro-poor land tools. Member of the GLTN International Advisory Board

Project on Informal Development in Europe (Chryssy Potsiou) Case study on Albania and Greece

Project on Gender Evaluation Criteria (Diane Dumashie)

Project on the Social Tenure Domain Model in support of the GLTN agenda on continuum of land rights.
...Partnership 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:

The Social Tenure Domain Model.

Partnership with the World Bank

MoU signed May 2007

Strong partnership on Land Governance in support of the MDGs

Joint FIG-WB Conference March 2009 on Land Governance in support of the MDGs. More than 200 invited experts from throughout the world - a major achievement

Joint publication and declaration contribution to the global agenda and the global recognition of the surveying profession

Partnership on the global agenda ahead – the contribution of Land Governance to the mega challenges of climate change, disasters, rapid urbanisation, etc.
Facing the new challenges

- 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

The surveyors – the land professionals - play a key role

Global partnership drives development for achieving the MDGs

Global recognition ➔ national recognition ➔ local recognition

- Climate change - The world in terms of carbon emission
- Climate change - The world in terms of increased mortality
USA
Billion Dollar Weather Disasters 1980 - 2008

The Role of FIG

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Information and communication

Web site
The key means of communication in a global organisation. An actual, factual, interesting, informative, updated, complete, accessible, source of information and knowledge. Face lift planned for second half of 2010.

President’s letter
Biannual communication president to president

Annual review
Annual overview of the FIG activities in an easy accessible presentation

Publications
FIG publication series with four groups of policy statements, guides, reports, and FIG regulations.

FIG publications 2007–2010

available online – FIG.net
Information and communication

And the FIG Profile
- my business card

New brochure on Affiliate Members
Please use it...

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  - Administration, finances, services
Management and administration

FIG Office
General administration; financial management, member services; council and commission support and services; general communication; event management.

- The high level of activity and development in the Federation can only be sustained by highly professional administrative support.
- A small administration is vulnerable – just like any small company. Documented sustainable procedures are crucial to safeguard against any staffing problems that may occur – no matter how professional they are.
- A lot of efforts has gone into building a highly professional Office delivering high level services to our members.
- A full flashed office business plan following ISO standards should be ready by the end of 2010 when I step back as President.

President’s slogan

Flying High
- Contributing to the global agenda

Keeping the feet on the ground
- Driving professional development

Was that possible?
Yes – we can
Looking to the Future

**Contributing to the Global Agenda**
The big challenges ahead such as climate change, natural disasters, urban growth, poverty reduction, environmental degradation, etc... will require continuous attention. FIG should still fly high.

**Identity and recognition**
This will depend on how we can continue to contribute to the global agenda and show the value of the land professionals as a key player.

**The Commissions**
Professional development and innovation in all areas of surveying will always be in the heart of the Federation. The Commissions are the key driver of this in cooperation with national delegates. This is a very powerful concept to be further enhanced in the future.

**Outreach**
There is a need for better explaining the relevance of the FIG activities to the wider membership. This is a big challenge that can only be met through kind of partnership between FIG and the national member associations.

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The XXIV FIG International Congress 2010

Thank you very much