

Report to the 29<sup>th</sup> General Assembly  
FIG Congress in Munich, October 2006

**FIG Commission 3 – Spatial Information Management**

**Draft Work Plan 2007-2010**

**1. Terms of reference**

- Management of spatial information about land, property and marine data (data, tools, methods, policies, processes, procedures);
- Spatial data infrastructure – data collection, analysis, visualization, standardization, and dissemination (technical, organizational, personnel, administrative, financial, policy, and legal aspects);
- Management and transfer of knowledge and skills for SIM (educational, professional development and capacity building aspects);
- Impacts on organizational structure, business models, Public-Private-Partnerships, professional practice and administration;
- Management of spatial information supporting good governance (sustainable development, social and economic growth and poverty reduction, environment protection, democracy, freedom, participation in decision making, social security).

**2. Mission Statement**

- Increase awareness about successful SIM approaches in the “e-Society” by showing good practice like available, reliable and accessible spatial information for better decision-making.
- Support the use of spatial information and SIM-tools by surveyors and by all participants in decision-making to serve the goals of good governance.
- Share good practice on managerial processes and infrastructure required for handling data, using information and distributing knowledge.
- Share good practice and develop high-level methods and techniques for merging and managing updated spatial information at various levels according to market requirements.
- Encourage the use of spatial information within e-government and e-commerce.
- Implement the FIG Work Plan through working groups (WGs), Joint-WGs, annual meetings, workshops, and seminars held during and/or outside FIG working weeks and Regional Conferences; publications; and progress reports about these events.
- Present the final outcomes of Commission work through the web.
- Cooperate and coordinate with the related United Nations Committees and other geo-spatial information societies and organizations active in the field, such as ISPRS, ICA, IAG, GSDI, EUROGI, UN/ECE WPLA, UN/ECE Committee on Housing and Land Management.
- Increase the contribution of the surveying profession to the implementation of the UN Millennium Development Goals.

### 3. General

Commission 3 –Working Groups (WG) focus on contribution of spatial information for sustainable development. FIG Com3 delegates have expressed their strong interest in:

- Activating the delegate network in order to identify the needs in our common fields of interest,
- Organizing Com3 annual meetings and workshops focused on the specifically identified needs/topics,
- Improving the quality of Com3 workshops' output by introducing two parallel channels for paper submission-a full refereed channel and a partial reviewing (limited level) channel of papers, and by producing peer reviewed proceedings and/or special issues of international professional journals.

The proposed topics of interest are:

- e-Governance for the citizen, democracy, and transparency,
- Web Services and Metadata,
- SIM Infrastructure,
- State of the Art of SDI, GSDI,
- Technical aspects, integration of information, 3D / 4D applications of SDI, visualization of information, seamless information management,
- Standardization of Information (technical, legal, semantics and ontology)
- Geo-data policy issues with a focus on pricing policies for NSDI,
- SIM applications for environmental protection, disaster management and risk assessment, social and economic growth, cultural heritage documentation and development, informal/unplanned development management, coastal zone and marine data management, real estate markets, valuation and taxation, real estate finance and development,
- Educational aspects in SDI and SIM, e-learning.
- Transferring /sharing knowledge focusing on “low-cost” methods and tools for spatial information collection and management.

### 4. Working Groups

#### WG 3.1 - e-Government and e-Citizen

Interactive information flow between providers, partners and customers (PPP).

#### Policy Issues

SIM is a facilitator for IT based services for administration as well as for citizens. By this SIMS will have the role of an integrator of components for a Spatial Information Infrastructure within an information society.

- Services and workflows for decision makers and citizens in participatory democracy
- Government – business – customers: relations and activities
- Integration and cooperation in a distributed environment
- Individual vs. business in SIM
- Mobile society
- SIM and LBS in an e-Government context

### Chair

Kari Strande, Norway, E-mail: kari.strande@statkart.no

Co-Chair: Peter Laarakker (the Netherlands), e-mail: peter.laarakker@kadaster.nl

### Specific projects and outputs

Based on cooperation with other WG and other commissions this WG will:

- Report on good practice of Spatial Information within e-Government supporting citizens in participatory democracy
- Facilitate experience exchange
- Make SIM and LBS accessible via the web for the benefit of government and citizens
- Provide recommendations to the way forward within SIM and LBS
- Provide links to information and publish minutes of workshops
- Work out a Web-demo, if supported by OGC, ESRI or other sponsors

A detailed work plan with milestones will be published on the website of Commission 3.

### Workshops

To be updated in Munich

### Beneficiaries

Surveyors and citizens accessing and contributing to e-Government on a national as well as on a local level. Contributing to better access to general users of spatial data.

## **WG 3.2 – SIM infrastructure**

Harmonization of data, information, tools (LBS) and workflows as components of GSDI.

### Policy Issues

- NSDI / GSDI: Spatial Data + Information Infrastructure
- modelling, geo-visualisation
- Legal aspects in SIM
- Standards Network on international (ISO/TC 211, OpenGIS Consortium, etc.) and on regional level.
- SIM and LBS as tools:
  - Making geo-database suitable for mobile phones
  - Improve basic references (geo-referencing, transport-internet)
  - Role of surveyors in LBS
  - Share current experiences and technical visions of the future.
  - Gain knowledge from industry.
  - Inform future decisions and implementations.
  - Inform the big picture on drivers, trends and technologies.

### Chair

To be decided in Munich

### Workshops

To be updated in Munich

## Beneficiaries

Surveyors, associations engaged with spatial data and users of spatial data and spatial information.

## **Working Groups 3.3 –3.4**

To be decided in Munich

## **5. Workshops**

Notice: More networking about details of Com3 activities is expected to take place in the period until next meeting in Munich and final decisions will be made there since more Commission 3 delegates are expected to participate in this meeting.

### **5.1 Annual Meeting 2007 and Workshop of Commission 3**

Commission 3 delegates have decided to organize the Com3 2007 annual meeting and workshop in **Athens, Greece, on 28-31 March 2007**. The proposed topic is:

**“Spatial Information Management toward Legalizing Informal Urban Development”.**

The list of sub-titles includes:

- Technical Aspects
  - Data collection, recording and updating, low-cost methods and tools for environmental monitoring
  - Visualization of information,
  - Standardization of information,
  - 2D, 3D spatial data recording and management to support the legal integration of informalities, the decision making, the risk-assessment and disaster management in areas with informal settlements,
  - Integration of spatial data-bases about ownership rights, value of real estate property, and state applied regulations and restrictions on the use rights, tools, LIS,
  - Statistics (about the existing situation, the size of the problem)
  - The value of e-Government and SDIs, the needs for transparency, corruption and bureaucracy decrease, necessary steps,
- Legal and Social Aspects and Procedures
  - Standardization and Recording of: Zoning Regulations, Spatial planning regulations and other Restrictions related to the Urban Development (e.g. for environmental protection, cultural heritage protection) to increase transparency in decision making, facilitate access to information and increase equity among the citizens,
  - Standardization of informalities in urban development and real estate markets,
  - Standardization of Real Estate Development Procedures,
  - GIS technology and tools as a mediator between surveyors, town planners, land developers, and real estate appraisers
  - Informal development and the social impact of illegalities on the society, increase public awareness in good governance

- Necessary legal reforms for the registration of the missing information into the modern Land Administration Systems, in order to integrate informal settlements into a legal framework and empower the poor
- Economic, Educational, and Policy Aspects
  - The economic impact of the missing spatial information on the National Economy (both for the state and for the owners)
  - The need for integration of the missing information in order to improve the housing financing mechanisms, support the mortgage market, and build automated mass-valuation systems to support fair and transparent taxation policies
  - Capacity building on the role of the surveyors in supporting economic growth through the well-functioning Real Estate Markets and the Real Estate Development, and in developing methods for assessment of the social and economic impact of informal settlements.

Two channels for contributing papers are available:

Full refereed channel:

- (Short) Abstract Submission Deadline: 5 November 2006
- Paper Submission Deadline: 15 November 2006
- Acceptance Notification: 10 January 2007
- Final (Corrected) Paper Submission Deadline: 10 February 2007

Papers submitted in this channel must not have been accepted for publication elsewhere or be under review for another workshop or conference.

Partial refereed channel:

- Extended Abstract Submission Deadline: 15 November 2006
- Acceptance Notification: 10 January 2007
- Paper Submission Deadline: 10 February 2007.

Those interested in peer-reviewed papers should declare it in advance when submitting a short abstract prior to the paper submission. The proceedings will consist of two parts: part A reviewed, and part B all the rest.

## **5.2 Other Proposed Future Workshop topics**

Workshop topics for 2008, 2009 and 2010 Workshops are under discussion. Proposals are for:

- Workshop on 3D and 4D Spatial Information Management,
- Workshop on pricing of spatial data and services,
- Workshop on Environmental and Cultural Heritage Documentation, Development and Protection.

## **5.3 Proposed venue for Commission 3 annual meeting 2008**

Thanks to Prof Pedro Cavero, Com3 is welcome to organize in Spain a joint workshop together with Commission 2 in parallel to the International Congress of Cartography, Surveying, etc and the National Spanish Congress TOP-CART 2008, in January 2008. The organizers will be: The Royal Academy of the Valencia Culture, The Technical University of Valencia, The Spanish Association of Surveying Engineers and the Technical University of Madrid. The main sponsors of that event will be: The regional Government of Valencia, Universities, the Valencia City Hall and several powerful industries mainly located in the

region. The President of the FIG will be invited to give a key note speech, too. The King of Spain will be invited to have the Honorary Presidency of this event.  
To be confirmed in Munich.

More proposals are welcome to be discussed and analyzed in Munich.

The current Work Plan was discussed and prepared with the contribution of FIG Commission 3 delegates during our annual meeting in Budapest.

## **6. Co-operation with Sister Associations**

### **6.1 Cooperation with UN/ECE WPLA and UN/ECE Committee on Housing and Land Management**

Cooperation on Spatial Information Management toward Legalizing Informal Urban Development with UN-ECE-WPLA and UN-ECE-Committee on Housing and Land Management.

The FIG Commission 3 2007 annual meeting and Workshop will be followed by a joint FIG and UN/ECE Working Party on Land Administration, and Committee for Housing and Land Management, on March 29 and 30, 2007, on the topic: **“Informal Settlements and National Economy-The Value of Good Land Administration and Land Management”**. (The final version of the topic will be confirmed in September, in Geneva.)

FIG delegates from all commissions are welcome to participate and strengthen both the inter-commission FIG activity and the cooperation with the United Nations. Information about the structure and additional topics of this activity will be distributed soon.

### **6.2 Cooperation with ISPRS and CIPA**

Commission 3 supports the 37th CIPA International Workshop on the e-volution of Information Technology in Cultural Heritage - Where Hi-Tech Touches the Past: Risks and Challenges for the 21st Century, to be held on 30 October - 4 November, Cyprus. Web site: <http://www.vast2006.org>. FIG Commission 3, but also Commission 2, 5 and 6 delegates interested in e-Learning, e-Libraries in Cultural Heritage, 3D data capture and processing, Museum Artifacts display, 2D and 3D GIS in Cultural Heritage, virtual museum applications, etc can submit papers or find useful information on the following websites: <http://www.vast2006.org/> or <http://www.cipa2006.org>.

Proposal: It is desirable that FIG will establish a more close cooperation with ISPRS and CIPA; the chair of FIG Commission 3 has communicated with ISPRS President Prof I. Dowman regarding the suggestion that ISPRS publish news of FIG Commission 3 activities and other FIG activities.

### **6.3 Cooperation on international standards on spatial data with ISO and OPENGIS**

Commission 3 supports the FIG inter-commission activity in this field.

## 6.4 Contacts and cooperation with sister organizations

- ISPRS, especially with ISPRS-Commission IV-Spatial Information Systems and Digital Mapping (<http://www.commission4.isprs.org/> )
- ICA - International Cartographic Association: <http://www.icaci.org/>
- International Geographical Union, Commission on geographical Information Science (<http://www.hku.hk/cupem/igugisc/> )

## 7. Co-operation with other United Nations and sister Agencies

- FAO [www.fao.org/](http://www.fao.org/)
- UN-Cartographic section: [www.un.org/Depts/Cartographic/english/htmain.htm](http://www.un.org/Depts/Cartographic/english/htmain.htm)
- UN-ECE-WPLA [www.unece.org/env/hs/wpla/welcome.html](http://www.unece.org/env/hs/wpla/welcome.html)
- UN-ECA
- ISPRS-COM4 and [www.oeepe.org](http://www.oeepe.org)
- PCGIAP Permanent Committee on GIS Infrastructure for Asia and the Pacific
- EUROGI European Umbrella Organization for Geographic Information
- PC-IDEA Permanent Committee on SDI for the Americas
- GSDI, including a FIG-COM3-position paper for GSDI-conference Budapest
- ISO-TC-211 and OGC

## 8. Inter-Commission Activities

To be decided in Munich

## 9. Other Activities

### 9.1 Active involvement of regions

Commission 3 will continue to be actively involved with underrepresented regions like Africa, Latin America, Middle East, and Asia by exchanging information. Commission will try to reduce conference fees in order to enable or to encourage regional participation and try to raise money for funding participation of groups like students. Commission will also encourage participation by using e-mail and web.

### 9.2 Respect cultural and linguistic issues

Commission 3 endorses the underlying concept that respect for Cultural and Linguistic issues is very important and that the Commission will be sensitive to these issues in the way it works. This will be implemented by encouraging multilingual abstracts and presentations in general meetings and through the use of an appropriate regional language during regional meetings.

## **10. Calendar of Events**

### **2006**

- 30 October - 4 November, Cyprus, 37th CIPA International Workshop on the e-evolution of Information Technology in Cultural Heritage - Where Hi-Tech Touches the Past: Risks and Challenges for the 21st Century. Co-sponsored by FIG Commission 3.

### **2007**

- 28-31 March, FIG Com3 annual meeting and Workshop, Athens, Greece
- 12-17 May, FIG XXX General Assembly and Working Week Hong Kong, China
- October-November, FIG Regional Conference, Latin America

### **2008**

- 14-19 June, FIG Working Week and XXXI General Assembly, Stockholm, Sweden
- 3-11 July, XXI Congress of the International Society for Photogrammetry and Remote Sensing - Silk Road for Information from Imagery. Beijing, China P. R.

### **2009**

- FIG Working Week and XXXII General Assembly, Israel

### **2010**

- April-May, FIG XXIV Congress and Working Week and XXXIII General Assembly Sydney, Australia

### **Dr. Chryssy Potsiou**

Chair Elect of Commission 3

July 2006