

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



**Commission 7**  
**Cadastre and Land Management**

BUILDING THE CAPACITY

## **Commission 7**

### **Cadastre and Land management**

### **Annual Report 2012**

36<sup>th</sup> General Assembly  
FIG Working Week 2012 in Abuja, Nigeria

#### **Mission**

- To provide a forum for enhancing and exchanging knowledge about cadastre, land administration and land management world wide;
- To encourage the development of pro poor land management and land administration;
- To promote the importance of development of sustainable land administration as infrastructure for sustainable development to underpin economic growth;
- To promote the application of innovative and advanced technology in cadastre, land administration;
- To promote awareness of the role of surveyors in land administration matters to the public and among stake holders.

#### **FIG Commission 7: The year 2012 in brief**

For Commission 7, the year 2012 has been a very active and dynamic one, thanks to the quality of the team and the commitment of its members.

During the actual term, Commission 7 wants to develop cooperation in some regions of the world land professionals are less represented on this commission. So it is in this objective that Claire Galpin, vice-chair Administration and Communications of Commission 7, who is also the president of Géomètres sans frontières, and Daniel Roberge participated to the successful International

Surveying Week Conference (Semaine internationale du géomètres) in Yaoundé, Cameroun last April. This event has been organised by the Ordre des géomètres du Cameroun, under the leadership of its president Fabien Omboudou Ndjina and the strong support of the Ministère des domaines, du cadastre et des Affaires foncières.

A week after, the FIG president Teo CheeHai and Commission 7 co-organised with the World Bank a very well attended workshop about *Spatial Enabling Governments and Societies* within the World Bank Land and Poverty Conference 2012. This one day workshop has been an excellent opportunity to promote the evolving role of land surveyors to support the sustainable land administration and management, low cost approaches in cadastre, data acquisition and land recordation system and management of public land. Christiaan Lemmen, chair of FIG Working Group 7.1, Jaap Zevenbergen, co-chair of WG 7.2 and Daniel Roberge represented FIG Commission 7 as speakers and chairman in various sessions. Stig Enemark and Jürg Kauffman, longtime FIG Commission 7 supporters have also been important contributors.

Later in May, FIG Commission 7 has played an important role in the Working Week in Rome, with twenty sessions in which a hundred of papers have been presented. Moreover, FIG Commission 7 and GIM International organised a very dynamic forum about Future of Land Administration in which representative from each continents were represented with a panellist. Thanks to Christiaan Lemmen (chair), Gerda Schennach (rapporteur) and Jean-François Beaupré (panellist representing young surveyors) from FIG Commission 7 managing team and the other panellists Peter Laarakker, Robin McLaren, Quang Thanh Bui, Diego Alfonso Erba and Clarissa Augustinus. Thanks also to Durk Haarsma, the publishing editor of GIM International for the promotion of FIG Commission 7 work in this magazine and on its website, namely with interviews of some of the panellists.

The United Nations Food and Agriculture organization (FAO) and FIG Commission 7 took the opportunity of this working week in Rome to organize, at the FAO headquarter, a joint workshop on Land Tenure and Disaster Risk Management in which Daniel Roberge, Jaap Zevenbergen, David Mitchell and Francis Roy presented the role land surveyors should play supporting communities to be better prepared to face situations of natural disaster. A special thank to Paul Munro Faure and Adriana Herrera from FAO for their trust and support in the organization of this workshop.

One of the highlights of the last working week was certainly the election of the next FIG Commission 7 chair. Three dedicated, high profile and well known Commission 7 colleagues were candidate for the position: Claire Galpin from France, Gerda Schennach from Austria and Daniel Steudler from Switzerland. Congratulations to Gerda who was elected by the General Assembly in the second voting round and thank you very much to Claire and Daniel for their much appreciated participation.

For FIG Commission 7, the year 2012 ended in apotheosis with the first ever Commission 7 meeting in Latin America held in San Luis Argentina, just after the FIG Regional Conference in Montevideo, Uruguay. This annual meeting included a One-day International Symposium with the theme “Land Governance in South America and International Perspectives” which ended with a common declaration in which participants agreed on the need for closer cooperation and collaboration between local professionals themselves and with international organizations, namely OAS and FIG and concluded that «language is not a barrier as linguistic and cultural diversity is an asset. Any linguistic challenges can be addressed by the willingness and efforts to engage and work together».

These annual meeting and international symposium have been generously supported by the San Luis Provincial Government and co-organized by the Consejo Federal de Catastro (CFC) and the Federacion Argentina de Agrimensores. Claire Galpin and Jean-François Beaupré, the Commission 7 Administration and Communications team and Fernando Daniel Nasisi, president of CFC and his colleagues made a fantastic job, organizing all the technical, logistical and financial aspects. Thank you very much to our Argentinian colleagues for the unforgettable warm welcome. Also a big thank to the organizing team and to the sponsors Trimble and ESRI.

We are hoping that these meeting and symposium in Argentina and the regional conference of FIG in Uruguay will contribute to the development of the commission 7 network in this region and future collaborations.

### **Working Group 7.1 – Pro Poor Land Management**

Chair: Christiaan Lemmen

The Land Administration Domain Model has been published as a formal International Standard at ISO. The ISO 19152 LADM includes the Social Tenure Domain Model (STDM). LADM and STDM are strongly supported by FIG. The standard is already in use as part of the INSPIRE specifications within the European Union. FAO is developing a Land Adminsitration System based on the LADM standard and UN Habitat builts a prototype based on STDM. This means the standard can be used as integrating tool for conventional and unconventional systems; it is not only a pro poor tool, it is a generic tool for development of land administration systems.

During the development of the standard different versions of the model have been reviewed by LA modelling experts, delegated by member countries and external liaisons (European Commission, FIG and UN-HABITAT) to the project team and later by the editorial committee within ISO/TC 211. Comments from those reviews are documented and have been processed by the editors. This methodology implies peer reviews by experts within the editorial committee of LADM within ISO/TC211: Danilo Antonio, replacing Solomon Haile (UN-HABITAT, Kenya); Wim Devos (Joint Research Centre of the EU, Italy); Antony

Cooper (South Africa, chair); Paul Egesborg and Christian Lord (Canada); Tomohiko Hatori (Japan); TaikJin Kim (Korea); Christiaan Lemmen (the Netherlands, editor); Julie Binder Maitra (United States); Tarja Myllymäki (Finland); Peter van Oosterom (the Netherlands, co-editor), Jesper Paasch (Sweden); Markus Seifert (Germany); Harry Uitermark (the Netherlands, co-editor); Frédérique Williams (France).

On the 6th of July 2012 a workshop on 'LADM from research to implementation' was held at Kadaster in the Netherlands. The thirty participants from ten countries accounted for a good mix of land administration organisations, academia and industry, software vendors including ESRI, Thomson Reuters, Delinea and Trimble. Representatives from those industries recognise the importance of LADM. Reactions were very positive, instantly establishing a kind of user community. More meetings will follow. The presentations given at this workshop are available on [www.oicrf.org](http://www.oicrf.org) website. A LADM Wiki is available at Delft University of Technology. Publications can be downloaded, as well as the UML model:<http://wiki.tudelft.nl/bin/view/Research/ISO19152/WebHome>.

In 2012 presentations have been given during the World Bank conference on Land and Poverty in Washington DC, USA in April, the FIG Working Week in Rome, Italy, in May and during the FIG Regional Conference in Montevideo, Uruguay in November – combined with the FIG Commission 7 Annual Meeting in San Luis, Argentina. In the Montevideo event a contribution was given to the Joint UN-Habitat/FIG Session on Participatory and Inclusive Land Readjustment for Latin America.

### **Working Group 7.2 – Disaster management and Climate change?**

Co-Chairs: David Mitchell and Jaap Zevenbergen

Working group 7.2 has continued to develop a joint project with the UN FAO that aims to produce online training materials on land tenure and Disaster Risk Management.

The first phase of this project involved developing training materials and conducting face to face training. In July, 2012 David Mitchell conducted face-to-face training in Fiji at the University of the South Pacific for 25 public sector participants from Pacific Island Countries under an AusAID grant. In October, Jaap Zevenbergen and Adriana Herrera from FAO conducted training at the University of West Indies for participants from several Caribbean countries. This was funded by FAO and supported by the University of the West Indies. The result both these training sessions has been the development of several country case studies and also much audio-visual material that will form part of the online training resources developed in phase two of the project.

Jaap Zevenbergen, David Mitchell and Francis Roy have submitted reports to FAO for review on land tenure and spatial information management, valuation and taxation and land use planning respectively. These will form part of the

online resources to be made available and will feed into the FAO Voluntary guidelines dissemination process.

During 2013 and 2014 we plan to use the material and develop this into a suitable online format by the end of the project in 2014. We will be having further discussions with FAO as this work progresses and will be providing reports at Abuja Working Week and also the Commission 7 meeting in Yaoundé. There are also possibilities for a training session to be held at either event.

Related to the Working Group 7.2 activities is the FIG Climate Change Task Force which will meet at the Abuja Working Week. David Mitchell is a member of this Task Force.

### **Working Group 7.3 - Cadastral perspectives**

Chair: Gerda Schennach

After a very successful Cadastre 2.0 symposium in Innsbruck in 2011 and the publication of the proceedings, this working group is now working on the following aspects:

- questionnaire about new techniques in cadastre and analysis role of boundaries and boundary marks for society
- investigate about possible professional and future models especially focussing on involvement of citizens into cadastral processes
- define requirements for a multifunctional cadastre as a successor of multipurpose cadastre
- first outline for final brochure (2014)

The members of the WG 7.3 took part in a number of international and national seminars and conferences and presented papers about future developments of cadastre. Discussions are reflecting a need of more communication among different regions of the world and among professionals and stakeholders from outside in order to create a win-win situation and to find best solutions from experiences already done.

### Joint Working Group Commissions 3 and 7 on 3D Cadastres

Chair: Peter van Oosterom

3D Cadastre Symposium in Shenzhen, China, 25-26 October 2012

The third workshop did attract over 160 participants from 20 different countries. Of course, the host country China was well represented, most often at municipal level: Shenzhen, Hong Kong, Macao, Beijing, Shanghai, Guangzhou, Wuhan, Changchun, Chengdu, Xi'an, Ningbo, Nanjing, etc. Most of these are cities in the near or above 10 million inhabitants range. So, the high Chinese participation in the workshop was not only a matter of geographic closeness, but also illustrating

the rapid 3D developments and urgent need for 3D Cadastre in many of these large Chinese cities, of which Shenzhen is a prime example.

More information about this 3D Cadastre Symposium:

<http://www.cadastre2012.org/>

The fifth LADM workshop (with attention to 3D aspects) will be in conjunction with the International Symposium on Geo-information, 24-25 September 2013, Kuala Lumpur, Malaysia. More information is available on the LADM Wiki:

<http://www.isoladm.org> and the call for contributions is at

[http://wiki.tudelft.nl/pub/Research/ISO19152/LADM2013Workshop/flyer\\_LADM2013.pdf](http://wiki.tudelft.nl/pub/Research/ISO19152/LADM2013Workshop/flyer_LADM2013.pdf).

Extended abstracts can be submitted until 31 May 2013 via EasyChair

<https://www.easychair.org/account/signin.cgi?conf=ladm2013>.

There will be no 3D Cadastre workshop in 2013.

More information about the 3D Cadastre Joint working group:

[www.gdmc.nl/3DCadastres](http://www.gdmc.nl/3DCadastres)

### **Working Group 7.4 – Cadastral and land management and reforms**

Chair: Richard Grover

Working Group 7.4 held a successful international seminar in conjunction with FAO and the Hungarian Ministry of Rural Development entitle *State Land Management in Transition Countries: Issues and Ways Forward* in Budapest, Hungary, on 20-21 September 2012. The seminar was convened by Richard Grover and András Osskó and followed on from the successful FAO/FIG seminar on the management of state and public sector land held in Verona in 2008. It was attended by 65 delegates from 26 countries. The attendance of many of those from the transition countries was made possible through the generous provision of travel and accommodation bursaries by FAO.

Important features of the seminar were the number of well-developed and expert case-studies and the overviews from those with long experience of working in transition countries. The papers can be accessed at the seminar website managed by the Ministry of Rural Development:

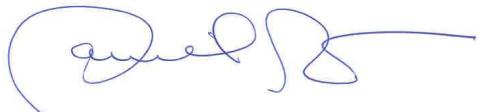
[http://en.foldhivatal.hu/index.php?option=com\\_content&task=view&id=175&Itemid=166](http://en.foldhivatal.hu/index.php?option=com_content&task=view&id=175&Itemid=166)

The papers have also been made available through FIG and OCRIFF. A book is currently in preparation that will include edited versions of the papers presented at the seminar and country studies based on the research that FIG Commission 7 has undertaken on state and public sector land management.

The Working Group has approached other bodies who it is hoped might be willing to support a similar seminar on state land management in their region but there are no firm proposals as yet. Work has also been undertaken to increase the number of country studies and this has produced some additional studies from transition countries as well as some updating of previous ones.

**Next Commission 7 Annual Meeting and International Symposium,  
Yaoundé, Cameroun, 21-25 October 2013**

The next FIG Commission 7 Annual meeting will be held in Yaoundé, Cameroun jointly with the Francophone Federation of Surveyors and the FIG Commission 2.

A handwritten signature in blue ink, appearing to read "Daniel Roberge".

Daniel Roberge, Chair  
FIG Commission 7

26 February 2013