

Commission 7 – Cadastre and Land Administration

Report 2011-2014

Commission 7 has been very active during this term thanks to the involvement of the management team, the Commission 7 delegates and speakers from International organizations which deserves a big thank for their great achievements, for their generosity, for the activities organized and for high quality papers presented and sessions organized in FIG working weeks and congress, annual meetings, international symposiums, workshops, etc.

The mission of Commission 7 is to:

- 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 and land administration;
- To promote awareness of the role of surveyors in land administration matters to the public and among stake holders.

For the period 2011-2014, FIG Commission 7 has prioritized the following actions:

- promoting land rights infrastructures and good land governance to contribute to sustainable development;
- developing a better preparedness and response to natural disaster and climate change;
- developing a better cooperation between land surveyors aiming to develop the capacity and governance in land administration ;
- developing cadastral perspectives;
- investigating direct involvement of citizens into e-land administration processes;
- co-operating with international organizations in land tenure issues.

Another objective of the Commission 7 team was to organize its annual meetings in regions less represented within FIG and on the commission. This objective has been fulfilled by organizing, after the first one in Austria, an annual meeting in South America (San Luis, Argentina) in 2012, Africa (Yaoundé, Cameroon) in 2013 and North America (Québec, Canada) in 2014.

The annual meeting 2011 was held in September in Innsbruck, Austria and was attended by more than 30 delegates from all over the world. This very successful one week meeting culminated in a high level International Symposium on “Cadastre 2.0”. 80 experts from public institutions, private companies, academia and NGOs. The focus of the event was on future citizens’ involvement, crowd sourcing and social medias and on the completion of cadastre

and land registration in the developing world. Thank you to Gerda Schennach and the Austrian Society of Surveying and Geoinformation (OVG) for their great support in the organization of these very successful events. For more information:
<https://sites.google.com/site/figsymposium2011>

In 2012, the Annual meeting was held in San Luis (Argentina), in December just after the FIG Regional Conference in Montevideo (Uruguay). This annual meeting included an 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, the Commission 7 vice-chair of Administration and Communications and Fernando Daniel Nasisi, president of CFC and his colleagues made a fantastic job, organizing all the technical, logistical and financial aspects. For more information: <http://fig2012-c7.jimdo.com/>

The Annual meeting held in Yaoundé in October 2012 was combined with the General Assembly of the Fédération des géomètres francophones (Francophone Federation of Surveyors) and an International symposium on Land Policies and Land Governance. About 20 delegates from 12 countries joined the annual meeting and the General Assembly of FGF was joined by 80 delegates. The symposium and workshop attracted about 150 colleagues.

The organisation of the event was possible because of the close co-operation with UN Habitat, the Fédération des géomètres francophones and the great support from our sponsors ESRI and Trimble and our Cameroon's colleagues. Thank you also to Claire Galpin, the Commission 7 vice-chair of Administration and Communications and to the FGF president François Mazuyer and to Bénédicte Fournier, International director of the OGE (French Order of Surveyors) for their great support in the organization of these events. For more information and proceedings: <http://fig2013-c7.jimdo.com>

The objective to promote “land rights infrastructures and good land governance to contribute to sustainable development” has been achieved by organizing these symposium in Argentina and Cameroon but also by presenting a series of papers at World Bank Land and Poverty Conferences, at FIG events, at a GLTN partner meeting and at LADM workshops. Papers have been published at www.oicrf.org and at the FIG website. Apart from conference papers a series of publications was prepared for professional Journals. The FIG Page in GIM International has been published monthly in close co-operation with FIG Office.

Working Groups work and activities

In order to realize its work plan, Commission 7 put in place 4 working groups which have achieved the following work and organized the hereafter described activities.

Working Group 7.1 – Pro poor land tools

Chair: Christiaan Lemmen

Deliverables

- International Standard for the Land Administration Domain (ISO 19152) with the Social Tenure Domain Model as a specialization.
- Collaboration with FAO in the finalization of the Multilingual Thesaurus on Land Tenure
- Information for land professionals via FIG Website and other platforms when appropriate

Achievements

The first Edition Land Administration Domain Model (LADM) has been published as a formal International Standard by ISO in December 2012. LADM is supporting both the progressive improvement of cadastres and fit-for-purpose cadastral requirements. The Edition I of the ISO 19152 LADM also includes the Social Tenure Domain Model (STDM). LADM and STDM are strongly supported by FIG. The STDM integrates formal, informal and customary tenure representations in land administration systems.

LADM is also in support to the implementation of UN Habitat's Continuum of Land Rights and FAOs Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests.

Two LADM workshops have been co-organised: in Rotterdam, The Netherlands, in 2012 and in Kuala Lumpur, Malaysia in 2013. Proceedings have been published.

A series of papers has been prepared and presented at several FIG events.

A contribution has been provided to FIG Publication nr 60 on Fit-for-Purpose Land Administration and other FIG Publications.

Unfortunately the support to the Multilingual Thesaurus on Land Tenure could not be delivered because of a substantial effort in the development of Land Administration Domain Model (LADM) and the Social Tenure Domain Model. In relation to this it should be recognised that a terminology is included in the Land Administration Domain Model (LADM).

Working Group 7.2 – Land administration, natural disasters and climate change

Co-chairs: David Mitchell and Jaap Zevenbergen

Policy issues:

Develop a better preparedness and response to natural disaster and climate change.

Achievements

It is important to mention that a Task force on Climate change has been put in place by the FIG Board in 2011. Thus, this working group has decided to more focus on land administration and disaster management (with attention to climate change adding to disaster). However, David Mitchell has been part of the FIG Task Force on climate change

In October 2011 the Commission chair and the WG co-chairs visited FAO representatives and came to a joint activity program of which the first phase has been implemented as planned.

- Joint FIG/FAO training workshop during the FIG Working Week in Rome at FAO. Presenters included Daniel Roberge, Jaap Zevenbergen, Francis Roy and David Mitchell (May 2012)
- Lead contribution by David Mitchell to the AusAid sponsored training in the Pacific (at USP, Fiji) (July 2012) (regional case studies were prepared by land professionals from the region)
- Contribution by Jaap Zevenbergen to the FAO sponsored training event in the Caribbean (at UWI, Trinidad) (October 2012) (again regional case studies were prepared by land professionals from the region)
- 3 thematic reports lead by David Mitchell, Jaap Zevenbergen and Francis Roy on respectively land tenure and valuation, spatial information management, and land use planning prepared for FAO (drafts ready late 2012)
- 3 Papers with the same lead authors on each of these reports at the FIG Working Week in Abuja (May 2013)
- Contribution by David Mitchell to e-learning material on the issues as part of the Voluntary Guidelines awareness activities (see <http://www.fao.org/nr/tenure/e-learning/en/>, but not yet online) (late 2013/early 2014). Jaap Zevenbergen has volunteered to do a review if desired (mid 2014 if it happens).

Due to staff changes at FAO in 2013 and a lack of resources the review of the 3 draft reports produced suffered some delays. Following discussions with FAO representatives in March 2014, this problem should be about to be resolved and should be ready for dissemination via website(s) or e-learning tools by the end of 2014. Anyhow, either as links within the FAO e-learning module on the issues, or on the FIG website these reports and the regional case studies will be made available for land professionals.

Commission 7 wishes to thank FAO for their important support, even a lack of resources has delayed some deliverables.

Working Group 7.3 – Cadastral perspectives

Chair Gerda Schennach

Policy issues:

- Cadastral perspectives “Beyond Cadastre 2014”
- 3D Cadastre (joint working group with Commission 3 chaired by Peter van Oosterom)
 - 3D Cadastre: models, standards, spatial information infrastructure, time management (4D), registration
 - Best practices and guidelines (legal, institutional and technical aspects) for the implementation of 3D-cadastres.
- Cadastre and Carbon credit management
- Participation in the Task Force about Spatially Enabled Society
- New tools for Cadastre management systems

Achievements

The proceedings of the International Symposium on “Cadastre 2.0”, above mentioned have been published under the title Cadastre 2.0 in 1200 copies

As a follow-up to the results of the Symposium, a FIG publication is also planned by the end of 2014 with the preliminary title Cadastre 2.1. It will comprise of an analysis of the Status Quo of stakeholders involvement and promote visions how to implemented solutions building upon new technologies and social media.

The discussions about the implementation of web 2.0 applications showed that it will be important for the progress of the work to search contacts to professional associations all over the world in order to consult about consequences for the profession, for education and qualification and for continuous professional development when integrating social media into existing processes for land management.

Joint Working Group Commissions 3 and 7 on 3D Cadastres

Chair: Peter van Oosterom

The Joint working group on 3D Cadastre has organized the following workshops:

- Delft, The Netherlands, 16-18 November 2011. Proceedings have been produced.
- Shenzhen, China, 25-26 October 2012 which gathered 160 participants from 20 different countries. For more information: <http://www.cadastre2012.org/>

Another workshop is planned in Dubai, UAE, 9-11 November 2014 in cooperation with the 3D GeoInfo Conference. For more information : [Workshop 2014 page.](#)

The working group has conducted questionnaire on the status of 3D Cadastres 2010-2014, of which all country responses are available:
<http://www.gdmc.nl/3DCadastres/participants/> (click on country name).

The working group website contains an inventory of relevant 3D Cadastre literature at <http://www.gdmc.nl/3DCadastres/literature/>

Finally, a special issue about 3D Cadastre has been published in the international scientific journal 'Computers, Environment and Urban Systems' (Volume 40, July 2013).

Working Group 7.4 – Land management reforms

Chair: Richard Grover

Policy issues:

- Cadastral and land management reforms
- State land management
- Governance of land management

Achievements

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 attracted 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. 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

The papers have also been made available through FIG and OCRIF.

Working group 7.4 is working on a publication on State Land Management, which comprises various papers from the seminar Commission 7 held on the topic and individual country papers. It is expected that the publication will be about 200 pages and will only be in electronic form. Publication is expected by the end of 2014.

Collaboration with International organizations in Land Tenure issues

In addition to the collaboration mentioned above with FAO, UN Habitat and FGF, the Commission 7 has worked in close collaboration with the World Bank, namely by its contribution to the program of the World Bank Land and Poverty in 2011, 2012 and 2013.

In 2012 Commission 7 co-organised with the World Bank a very well attended workshop about *Spatial Enabling Governments and Societies*. 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.

Coming event

FIG Commission 7 team is preparing a big event, the GeoConference 2014 (www.geocongres2014.ca), to conclude its four year term. High level speakers will talk about four themes closely related to Commission 7 work: Climate Change and disaster management, Land management, Smart cities and Spatially enabled societies and Improvement of the quality of life. This event will be held in the hearth of the Old Quebec, UNESCO World Heritage Site. The Commission 7 Annual meeting will take place in the Montmorency Forest, ideal location for a workplan preparation retreat. The Fédération des géomètres francophones (FGF) will also organize its annual general assembly during the GeoConference 2014. A unique event not to be missed, in Quebec City, Canada, 7-11 Oct. 2014.

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