

FIG COMISSION 7 ANNUAL MEETING

**GEOCONFERENCE ON CADASTRE 4.0**  
TRANSPARENCY, PARTICIPATION, COLLABORATION

24-28 OCTOBER 2016 | COIMBRA, PORTUGAL

## FIG COMISSION 7 ANNUAL MEETING

## GEOCONFERENCE ON CADASTRE 4.0

“TRANSPARENCY, PARTICIPATION,  
COLLABORATION”

### PROGRAMME



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**FIG COMISSION 7 ANNUAL MEETING**

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**GEOCONFERENCE ON CADASTRE 4.0**  
**“TRANSPARENCY, PARTICIPATION, COLLABORATION”**

**Portuguese Association of Engineers – Central Region**  
**Coimbra | Portugal**  
**23-27 October 2016**

Organized by

Ordem dos Engenheiros (OE)  
International Federation of Surveyors (FIG)

Organizing Committee  
Gerda Schennach, FIG Commission 7 Chair  
Teresa Sá Pereira  
Elisa Almeida  
Elisabete Monteiro  
José Paulo Almeida  
Maria João Henriques  
Maria Manuel Carvalho  
Virgínia Manta

Website: <http://figc7.ordemengenheiros.pt/>

Outline Programme				
Monday, 24 Oct 2016	Tuesday, 25 Oct 2016	Wednesday, 26 Oct 2016	Thursday, 27 Oct 2016	Friday, 28 Oct 2016
FIG Commission 7 Annual Meeting	Geoconference Cadastre 4.0	Geoconference Cadastre 4.0	FIG Commission 7 Annual Meeting	Technical Visit to Douro Valley

Programme	
Sunday, 23 October 2016 - Arrival, Check-in	
18:00-19:00	Arrival, Hotel Check-In
19:00-20:00	Informal Get -Together FIG Commission 7 (optional). Venue: Hotel Tryp, Bar area

monday, 24 October 2016 - FIG Commission 7 Annual Meeting	
Accompanying persons	09:30-12:30 <b>Guided walking tour 1</b> - Visit to "Portugal dos Pequenitos" and "Monastery of Santa Clara-a-Velha" (included in Com7 Accompanying persons fee). Departure from Hotel Astoria entrance.
A N N U A L  M E E T I N G	10:30-12:30 Annual Meeting Registration – Ordem dos Engenheiros Região Centro (OERC), Lobby
	12:30-14:00 Lunch - OERC, Bar area and terrace
	14:00-15:30 <b>Welcome</b> <i>Gerda SCHENNACH, Chair FIG Commission 7, Austria</i> <i>Armando SILVA AFONSO, President of the Board of the Portuguese Association of Engineers – Central Region, Portugal</i> <i>Virginia MANTA, Local Organizing Committee, Delegate FIG Commission 7, Portugal</i>
	<b>Report of FIG Commission 7 to date</b> <i>Gerda SCHENNACH, Chair FIG Commission 7, Austria</i>
	<b>Reports of Working groups</b>
	<b>Working Group 7.1 – Fit-For-Purpose Land Administration</b> <i>WG Chair Christiaan LEMMEN, the Netherlands</i>
	<b>Working Group 7.2 – Land Management in Climate Change and Pre- and Post- Disaster Areas</b> <i>WG Chair Daniel PÁEZ, Colombia</i>
	<b>Working Group 7.3 – Crowdsourcing of Land Rights</b> <i>WG Chair Robin McLAREN, Scotland</i>
	<b>Working Group 7.4 – Citizen Cadastre</b> <i>WG Chair Iván GYULA, Hungary and Conrad TANG, Hong Kong</i>
	15:30-16:00 Coffee break - OERC, Bar area and terrace
	16:00-18:15 <b>Country reports I</b> <i>Chair: Daniel STEUDLER, Switzerland</i>
	<b>Developments and updates from the Netherlands</b> <i>Paula DIJKSTRA, Kadaster International, the Netherlands</i>
<b>News from the Cadastre in Finland</b> <i>Ari TELLA, National Land Survey MML, Finland</i>	
<b>Free Internet Access to Cadastre as Effective Tool for Enhancing its Credibility</b> <i>Libor TOMANDL, Director of the Cadastral Branch Office in Karlovy Vary</i> <i>Vladimira ZUFANOVA, State Administration of Land Surveying and Cadastre, Czech Republic</i>	
<b>Open Data strategy in Sweden</b> <i>Marija JURIC, Lantmäteriet, Sweden</i>	
<b>Land registration projects in Moldova</b> <i>Angela MATCOV, National Authority, Moldova</i>	
<b>Country report for HongKong SAR</b> <i>Conrad TANG, Land Surveying Division Hong Kong Institute of Surveyors, Hong Kong</i>	
<b>Land registration projects in Mozambique (veio de mais acima)</b> <i>n.n, Mozambique</i>	
18:30-19:30 Welcome Drinks, OERC Bar area and terrace	
20:00-23:00 <b>Dinner – Restaurant “O Trovador”</b> (optional dinner). Departure from OERC	

**Tuesday, 25 October 2016**  
**Geoconference "Cadastre 4.0 – Transparency-Participation-Collaboration"**

G E O C O N F E R E N C E	Accompanying persons	14:00-17:30	<p><b>Guided walking tour 2</b> - Visit to Machado de Castro National Museum and Botanical Garden (included in Com7 Accompanying persons fee).  Departure from "Parque de Santa Cruz" main entrance.</p>
		08:30-09:30	Geoconference Registration - OERC, Lobby
		09:30-10:30	<p><b>Opening Session</b></p> <p><b>Introduction of the event</b>  <i>Teresa SÁ PEREIRA, Chair OE-CEG, Portugal</i></p> <p><b>Welcome</b>  <i>Gerda SCHENNACH, Chair FIG Commission 7, Austria</i>  <i>Chryssy POTSIU, President of FIG, Greece</i>  <i>Carlos MINEIRO AIRES, Chair of the Portuguese Engineers Association, Portugal</i>  <i>Rosa REIS MARQUES, Vice-President of the Coimbra City Council, Portugal</i></p> <p><b>Cadastre 4.0 – A demand for the future</b>  <i>Gerda SCHENNACH, Chair FIG Commission 7, Austria</i></p> <p><b>SDI and Cadastre. Bridging gaps in Public Administration data</b>  <i>Rui Pedro JULIÃO, Universidade Nova de Lisboa, Portugal</i></p>
		10:30-11:00	Coffee break - OERC, Bar area and terrace
		11:00-12:30	<p><b>Cadastre – Technology driven innovation</b>  Chair: <i>Robin McLAREN, Scotland</i></p> <p><b>Portuguese Cadastre. Actual state, case studies, projects, data infrastructure</b>  <i>Paulo TORRINHA, Cadastral Information Services Director, Directorate-General for the Territorial Development (DGT), Portugal</i></p> <p><b>Is 3D Cadastre really needed?</b>  <i>José Paulo Elvas DUARTE de ALMEIDA, Ass.Prof. in Geomatics Engineering, University of Coimbra, Portugal</i></p> <p><b>Knowledge Innovation Value Chain in the GeoPredial Project</b>  <i>João Paulo HESPANHA, Aveiro University, Portugal</i></p> <p><b>Land Administration and Management – Towards the Fifth Dimension</b>  <i>Daniel STEUDLER, swisstopo, Switzerland</i></p> <p><b>The use of new technologies for mapping the future</b>  <i>Raluca MANEA, University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania</i></p> <p>Discussion</p>
		12:30-14:00	Lunch - OERC, Bar area and terrace
		14:00-15:30	<p><b>Cadastre 4.0 - Participation</b>  Chair: <i>Cidália FONTE, Portugal</i></p> <p><b>Cadastre 4.0 as a paradigm towards a Fin-tech enabled Real estate management</b>  <i>Manohar VELPURI, Vice-Chair FIG Commission 9, Denmark</i></p> <p><b>Designing for transparency and participation in the Hellenic Cadastral Project</b>  <i>Dimitris ROKOS, National Cadastre and Mapping Agency, Greece</i></p> <p><b>The current Marine Cadastre system and policy in South Korea</b>  <i>Hyun Sook LEE, Korea Cadastral Survey Corporation, Republic of Korea</i></p> <p><b>The integrated Cadastre for legal security in Land Transactions</b>  <i>Carlos VARELA, Land Management for Investment Project, Director Millennium Challenge Account, Cape Verde</i></p> <p><b>Towards an international curriculum on Responsible Land Administration</b>  <i>David MITCHELL, Ass.Prof. at RMIT University, Co-Chair of the GLTN Research and Training Cluster, Australia</i></p> <p>Discussion</p>
		15:30-16:00	Coffee break - OERC, Bar area and terrace
		16:00-17:00	<p><b>Fit-for-Purpose – Next Steps in Implementation</b>  Chair: <i>Gerda SCHENNACH, Austria</i></p> <p><b>The digital transformation of cadastre</b>  <i>Rui SABINO, CEO ESRI Portugal, Portugal</i></p> <p><b>Fit-for-Purpose; Fit-for Future Technology for Cadastral Systems</b>  <i>Brent JONES, ESRI, USA</i>  <i>Christiaan LEMMEN and Mathilde MOLENDIJK, Kadaster International, the Netherlands</i></p> <p><b>Fit-for-Purpose Land Administration in Perspective</b>  <i>Christiaan LEMMEN, Kadaster International, the Netherlands</i></p> <p><b>LMITS – An integrated registration system</b>  <i>Luis MAXIMIANO, Coordinator of the Dept. of IT Projects – NOSI, Cape Verde</i></p> <p>Discussion</p>

- 17:00-18:15 **Panel discussion – Collaboration as an asset for the profession?**  
 Moderator: *Daniel PÁEZ, Colombia*  
*Maurice BARBIERI, President of Council of European Geodetic Surveyors (CLGE), Switzerland*  
*Paula DIJKSTRA, former Vice-Chair of FIG Young Surveyor Network Kadaster International, the Netherlands*  
*José Augusto FERRAZ, President of the Association of Surveyors (ANT), Portugal*  
*Brent JONES, ESRI, USA*  
*Chryssy POTSIOU, President of FIG, Greece*  
*Teresa SÁ PEREIRA, President of the College of Geographical Engineers of the Portuguese Engineers Professional Association (OE-CEG), Portugal*
- 19:30-23:00 **Medieval Times Dinner and Live Show** (incl. in FIG Com7 registration fee and in the Geoconference registration fee), departure from OERC

## Wednesday, 26 October 2016

### Geoconference "Cadastre 4.0 – Transparency-Participation-Collaboration"

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- 09:00-09:30 Geoconference Registration - OERC, Lobby
- 09:30-10:30 **Cadastre 4.0 – Collaboration**  
 Chair: *José Pedro NETO, Portugal*  
**The relation between the private surveyors and the Land Registry/Cadastre**  
*Maurice BARBIERI, President of Council of European Geodetic Surveyors (CLGE), Switzerland*  
**Sustainable Real Estate Markets - Policy Framework and Reforms**  
*Chryssy POTSIOU, Ass.Prof. at National Technical University of Athens (NTUA), School of Rural & Surveying Engineering, Greece*  
**Cadastral development and need for reforms**  
*Leiv Bjarte MJØS, Ass.Prof. at Bergen University College, Norway*  
**Development of legislation for earthquake affected cadastral boundaries in NZ**  
*Don GRANT, Ass.Prof. at Royal Melbourne Institute of Technology (RMIT), Australia*  
 Discussion
- 10:30-11:00 Coffee break - OERC, Bar area and terrace
- 11:00-12:30 **Cadastre 4.0 – Transparency**  
 Chair: *José Paulo Elvas DUARTE de ALMEIDA, Portugal*  
**Global Security of Tenure Campaign - the Time of Rights**  
*Robin McLAREN, Director of Know Edge Ltd, Scotland*  
**The future of the Finnish Cadastre – a research project**  
*Kirsikka RIEKKINEN, Aalto University School of Engineering, Finland*  
**Cadastre 4.0 - rethinking land administration for emerging economies**  
*Daniel PÁEZ, Ass.Prof. at Facultad de Ingeniería, Universidad de los Andes, Colombia*  
**National Registry of lands in Mozambique: SIGIT as a gear**  
*Marisa BALAS, COO of National Directorate for Land EXI, Mozambique*  
**Cadastral services and virtual office in e-cadastre**  
*Priit KUUS, Head of Information and Development Department of Cadastre, Maa-amet/Estonian Land Board, Estonia*  
 Discussion
- 12:30-14:00 Lunch - OERC, Bar area and terrace
- 14:00-15:30 **Panel discussion – Technology empowering stakeholders**  
 Moderator: *Christiaan LEMMEN, the Netherlands*  
*Rui Pedro JULIÃO, Universidade Nova de Lisboa, Portugal*  
*Robin McLAREN, Director of Know Edge Ltd, Scotland*  
*Gerda SCHENNACH, Chair of FIG Commission 7, Austria*  
*Paulo TORRINHA, Cadastral Information Services Director, Directorate-General for the Territorial Development, Portugal*
- 15:30-16:00 Coffee break - OERC, Bar area and terrace
- 16:00-18:30 **Visit to the University of Coimbra** (including accompanying persons)
- 19:00-23:00 **Dinner - Restaurant "Loggia" - National Museum Machado de Castro** (optional dinner). Departure from OERC for those who don't want to visit University

## Thursday, 27 October 2016 - FIG Commission 7 Annual Meeting

Accompanying persons	09:00-12:30	<b>Guided walking tour 3</b> - Coimbra Old Town (included in FIG Com7 Accompanying persons fee). Departure from "Parque de Santa Cruz" main entrance.
A N N U A L  M E E T I N G	09:00-09:30	Annual Meeting Registration - OERC, Lobby
	09:30-10:45	<b>Break-out sessions FIG Commission 7 Working Groups</b> National Delegates of FIG Commission 7
	10:45-11:15	Coffee break - OERC, Bar area and terrace
	11:15-12:30	<b>Workshop on "International curriculum on responsible Land Administration"</b> <i>David MITCHELL, Ass.Prof. at RMIT University, Co-Chair of the GLTN Research and Training Cluster, Australia</i>
	12:30-14:00	Lunch - OERC, Bar area and terrace
	14:00-14:45	<b>Cadastral Template 2.0</b> <i>Daniel STEUDLER, swisstopo, Switzerland</i>
	14:45-15:30	<b>Forthcoming events</b> <b>FIG WW 2017 Helsinki</b> <i>Kirsikka RIEKKINEN, FIG WW 2017 Organising Committee, Finland</i> <b>FIG Commission 7 Annual Meeting 2017 and Conference</b> <i>Daniel PÁEZ, Vice-Chair of FIG Commission 7, Colombia</i>
	15:30-16:00	Coffee break - OERC, Bar area and terrace
	16:00-17:30	<b>Closing session</b> <b>Wrap-up Annual Meeting</b> <i>Christiaan LEMMEN, Kadaster International, the Netherlands</i> <b>Wrap-up Geoconference</b> <i>Brent JONES, ESRI, USA</i> <b>Future initiatives – topics of interest for FIG Commission 7</b> <i>Gerda SCHENNACH, Chair of FIG Commission 7, Austria</i>
	17:45-19:00	Farewell Drinks - OERC, Bar area and terrace
	20:00-23:00	<b>Dinner Cruise in Mondego River</b> (incl. in FIG Com7 registration fee and in the Annual Meeting registration fee). Departure from OERC

## Friday, 28 October 2016 - Technical Visit to Douro Valley

08:30-20:30	<b>Technical visit do Douro Valley and Porto wine cellars</b> (not included in FIG Com7 registration fee). Departure from OERC
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