



## 2<sup>nd</sup> International Workshop on 3D Cadastres

organized by FIG, EuroSDR and TU Delft

16-18 November 2011, Delft, The Netherlands

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### Programme

At the end of the first day a welcome reception in the historic City Hall of Delft will be offered to all participants. On the evening of the second day the workshop dinner will take place in the centre of Delft ("Proeverij De Waag", see [website](#), Dutch only).



[Delft City Hall](#) (welcome reception)



"Proeverij De Waag" (workshop dinner)

Most of the sessions during the workshop are dedicated to plenary presentations and discussions. But also some time is reserved for parallel [working sessions](#), these are:

Working session topic	Chair
1. <a href="#">Legal framework 3D Cadastres</a>	Hendrik Ploeger, The Netherlands
2. <a href="#">Initial registration of 3D parcels</a>	Rod Thompson, Australia
3. <a href="#">3D data management</a>	André Streilein, Switzerland
4. <a href="#">Visualization, distribution and delivery of 3D parcels</a>	Jacynthe Pouliot, Canada

All items shown in grey in the programme refer to plenary activities, coloured items refer to the working sessions. Clicking on a working session in the programme will show the participants of that working session. Papers can be accessed by clicking on the title of the paper, for most papers the workshop presentation is also available. Presenters and chairpersons of sessions are displayed in **bold**. Rooms and other locations where activities take place are indicated by *italics* (all rooms - in Dutch "kamer" or "zaal" - are inside the Aula Congress Centre).

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## Programme

## Day 1 - Wednesday 16 November 2011

08:30	Welcome and registration: <i>Registration desk is on the ground floor / Coffee in front of the Senaatszaal</i>			
09:15	Opening and <a href="#">introduction</a> [ <a href="#">presentation</a> ]: <i>Senaatszaal</i> <b>Peter van Oosterom</b>			
	<b>Legal Aspects I - Hendrik Ploeger: Senaatszaal</b>			
09:30	<a href="#">3D Property Research - a Survey of the Occurrence of Legal Topics in Publications</a> [ <a href="#">presentation</a> ] Jenny Paulsson and <b>Jesper Paasch</b>			
10:00	<a href="#">3D Cadastre in Argentina: Maps and Future Perspectives</a> [ <a href="#">presentation</a> ] <b>Diego A. Erba</b> and Silvio D. Graciani			
10:30	<a href="#">A Multi-jurisdiction Case Study of 3D Cadastre in Shenzhen, China as Experiment using the LADM</a> [ <a href="#">presentation</a> ] Renzhong Guo, <b>Shen Ying</b> , Lin Li, Ping Luo and Peter van Oosterom			
11:00	Break: <i>in front of the Senaatszaal</i>			
	<b>Technical Aspects I - Alias Abdul Rahman: Senaatszaal</b>			
11:30	<a href="#">Height Systems for 3D Cadastres</a> [ <a href="#">presentation</a> ] <b>Gerhard Navratil</b> and Eva-Maria Unger			
12:00	<a href="#">ISO Land Administration Domain Model and LandXML in the Development of Digital Survey Plan Lodgement for 3D Cadastre in Australia</a> [ <a href="#">presentation</a> ] Sudarshan Karki, <b>Rod Thompson</b> , Kevin McDougall, Nevil Cumerford and Peter van Oosterom			
12:30	<a href="#">ArcGIS for Land Records: Current Status and Future 3D Considerations</a> [ <a href="#">presentation</a> ] <b>Carsten Bjornsson</b> and Nick Land			
13:00	Lunch: <i>Van Hasseltzaal</i>			
14:00	<a href="#">Working session 1</a> Legal framework 3D Cadastres <b>Hendrik Ploeger</b> <i>Commissiekamer 3</i>	<a href="#">Working session 2</a> Initial registration of 3D parcels <b>Rod Thompson</b> <i>Commissiekamer 4</i>	<a href="#">Working session 3</a> 3D data management <b>André Streilein</b> <i>Senaatszaal</i>	<a href="#">Working session 4</a> Visualization, distribution and delivery of 3D parcels <b>Jacynthe Pouliot</b> <i>Commissiekamer 2</i>
	<a href="#">3 Dimensional Property Rights in Denmark</a> <a href="#">3D Property Design and Registration is Working - Visualization not</a> <b>Esben Munk Sørensen</b>			
	<a href="#">WEB Portal for Dissemination of Spatial Data and Services for the Needs of the Agency for Real Estate Cadastre of the Republic of Macedonia (AREC)</a> [ <a href="#">presentation</a> ] <b>Vlatko Dimovski</b> , Marija Bundaleska-Pecalevska, Aleksandar Cubrinoski and Tatjana Lazoroska			
15:30	Break: <i>in front of the Senaatszaal</i>			
	<b>Prototypes I - Gyula Iván: Senaatszaal</b>			
16:00	<a href="#">The Study on the Utilisation of Spatial Unit Above and Beneath the Surface in Indonesia based on 3D Cadastre System</a> [ <a href="#">presentation</a> ] S. Hendriatiningsih, Bambang Edhi Leksono, Lucy Meyke, Wisang Wisudanan, Andi Ristiawan and <b>Rizqi Abdulharis</b>			
16:30	<a href="#">Adjusting the 2D Hellenic Cadastre to the Complex 3D World - Possibilities and Constraints</a> [ <a href="#">presentation</a> ] <b>Eva Tsiliakou</b> and Efi Dimopoulou			
17:00	<a href="#">Unique Identifier for 3D Cadastre Objects Registration</a> [ <a href="#">presentation</a> ] Muhammad Imzan Hassan and <b>Alias Abdul Rahman</b>			
17:30	<a href="#">Registration of 3D Situations in Land Administration in the Netherlands</a> [ <a href="#">presentation</a> ] <b>Jantien Stoter</b> , Hendrik Ploeger, Wim Louwman, Peter van Oosterom and Barbara Wünsch			
18:00	Day close			
19:00	Welcome reception in Delft City Hall: <i>Markt 87, Delft (on the central market square of Delft)</i>			

## Day 2 - Thursday 17 November 2011

08:30	Welcome: <i>in front of the Senaatszaal</i>			
	<b>Technical Aspects II - João Paulo Fonseca Hespanha de Oliveira:</b> <i>Senaatszaal</i>			
09:00	<a href="#">Design and Development of a 3D Cadastral System Prototype based on the LADM and 3D Topology</a> [presentation] <b>Shen Ying</b> , Renzhong Guo, Lin Li, Peter van Oosterom, Hugo Ledoux and Jantien Stoter			
09:30	<a href="#">3D Cadastre Web Map: Prospects and Developments</a> [presentation] <b>Trias Aditya</b> , Febri Iswanto, Ade Wirawan and Dany P. Laksono			
10:00	<a href="#">3D Modeling and Representation of the Spanish Cadastral Cartography</a> [presentation] José Miguel Olivares García, Luis Ignacio Virgós Soriano and <b>Amalia Velasco Martín-Varés</b>			
10:30	<a href="#">Bentley's Support for 3D Cadastre Development</a> <b>Juan Broos &amp; Kees van Prooijen</b> , Benoit Frédéricque and Keith Raymond			
11:00	Break: <i>in front of the Senaatszaal</i>			
	<b>Organizational Aspects I - Charisse Griffith-Charles:</b> <i>Senaatszaal</i>			
11:30	<a href="#">A Review of 3D Cadastre Pilot Project and the Policy of 3D NSDI in the Republic of Korea</a> [presentation] <b>Dong-hoon Jeong</b> , Taik-jin Kim, Dae-hyun Nam, Hyo-sang Li and Han-keon Cho			
12:00	<a href="#">Current Situation and Prospect of 3D Cadastre in Croatia</a> [presentation] <b>Nikola Vucic</b> , Miodrag Roic and Zdravko Kapovic			
12:30	<a href="#">Spatial Representation of Condominium/Co-ownership: Comparison of Quebec and French Cadastral System based on LADM Specifications</a> [presentation] <b>Jacynthe Pouliot</b> , Marc Vasseur and Abbas Boubehrezh			
13:00	Lunch: <i>Van Hasseltzaal</i>			
14:00	<a href="#">Working session 1</a> Legal framework 3D Cadastres <b>Hendrik Ploeger</b> <i>Commissiekamer 3</i>	<a href="#">Working session 2</a> Initial registration of 3D parcels <b>Rod Thompson</b> <i>Commissiekamer 4</i>	<a href="#">Working session 3</a> 3D data management <b>André Streilein</b> <i>Senaatszaal</i>	<a href="#">Working session 4</a> Visualization, distribution and delivery of 3D parcels <b>Jacynthe Pouliot</b> <i>Commissiekamer 2</i>
15:30	Break: <i>in front of the Senaatszaal</i>			
	<b>Prototypes II - Christiaan Lemmen:</b> <i>Senaatszaal</i>			
16:00	<a href="#">3D Cadastre in China - a Case Study in Shenzhen City</a> [presentation] Renzhong Guo, <b>Lin Li</b> , Biao He, Ping Luo, Shen Ying, Zhigang Zhao and Renrong Jiang			
16:30	<a href="#">Proposal for the Development of a 3D Hybrid model for the Hellenic Cadastre</a> [presentation] <b>Kalli Spirou-Sioula</b> , Charalabos Ioannidis and Chryssy Potsiou			
17:00	<a href="#">Design of the 3D Cadastre Model and Development of the Prototype in the the Russian Federation</a> [presentation] Natalia Vandyshva, Anatoly Ivanov, Sergey Pakhomov, Boudewijn Spiering, Jantien Stoter, Sisi Zlatanova and <b>Peter van Oosterom</b>			
17:30	Day close			
20:00	Workshop dinner in "Proeverij De Waag": <i>Markt 11, Delft (just behind Delft City Hall)</i>			
<b>Day 3 - Friday 18 November 2011</b>				
09:00	Welcome: <i>Foyer Noord</i>			
	<b>Modelling - Jesper Paasch:</b> <i>Auditorium</i>			
09:30	<a href="#">Advanced Principles of 3D Cadastral Data Modelling</a> [presentation] <b>Ali Aien</b> , Mohsen Kalantari, Abbas Rajabifard, Ian Williamson and Rohan Bennett			
10:00	<a href="#">Axiomatic Definition of Valid 3D Parcels, potentially in a Space Partition</a> [presentation] <b>Rod Thompson</b> and Peter van Oosterom			
10:30	<a href="#">Land Information Management and its (3D) Database Foundation</a> [presentation] <b>Han Wammes</b>			
11:00	Break: <i>Foyer Noord</i>			

	<b>Legal Aspects II - Gerhard Navratil:</b> <i>Auditorium</i>			
11:30	<a href="#">Rules concerned Registration of the Spatial Objects in Poland in the Context of 3D Cadastre's Requirements</a> [ <a href="#">presentation</a> ] <b>Marcin Karabin</b>			
12:00	<a href="#">3D Cadastre Development in Hungary</a> [ <a href="#">presentation</a> ] <b>Gyula Iván</b>			
12:30	<a href="#">Preliminary Analysis of the Possibilities for the Implementation of 3D Cadastre in Brazil</a> [ <a href="#">presentation</a> ] Andrea F.T. Carneiro, <b>Diego A. Erba</b> and Eduardo A.A. Augusto			
13:00	Lunch: <i>Foyer</i>			
	<b>Reporting on results of working sessions - Peter van Oosterom:</b> <i>Collegezaal A</i> <a href="#">Report on working sessions</a> (Ramona Banut)			
14:00	<a href="#">WS 1 summary</a> <b>Hendrik Ploeger</b>	<a href="#">WS 2 summary</a> <b>Rod Thompson</b>	<a href="#">WS 3 summary</a> <b>André Streilein</b>	<a href="#">WS 4 summary</a> <b>Jacynthe Pouliot</b>
15:30	Break: <i>in front of Collegezaal A</i>			
	<b>Organizational Aspects II - Jantien Stoter:</b> <i>Collegezaal A</i>			
16:00	<a href="#">An Analysis of the Necessity for 3D Cadastres with Reference to Trinidad and Tobago</a> [ <a href="#">presentation</a> ] <b>Charisse Griffith-Charles</b> and Michael Sutherland			
16:30	<a href="#">3D Cadastre Development and Management in Delta State of Nigeria</a> <b>Oluseye Thomas Dabiri</b>			
17:00	<a href="#">3D Cadastre in Singapore</a> [ <a href="#">presentation</a> ] <b>Victor H.S. Khoo</b>			
17:30	Closing Happy hour: <i>Van Hasseltzaal</i>			



