

Proceedings

**5<sup>th</sup> INTERNATIONAL WORKSHOP ON 3D CADASTRES**

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## Preface

These proceedings reflect on the content of FIG's (International Federation of Surveyors) 5<sup>th</sup> International Workshop on 3D Cadastres, 18-20 October 2016, Athens, Greece. The 3D Cadastres Workshop is one of the activities of the 3D Cadastres Working Group, which belongs to FIG Commission 3 'Spatial Information Management' and Commission 7 'Cadastre and Land Management'. For the second time, the 3D Cadastres Workshop will be combined with the 3D GeoInfo Conference, which together with the 3D Indoor Workshop, forms the Joint 3D Athens 2016 Conference.

The 1<sup>st</sup> International Workshop on 3D Cadastres was organized by Delft University of Technology in November 2001, Delft, the Netherlands. The 2<sup>nd</sup> International Workshop on 3D Cadastres was held one decade later, November 2011, again in Delft (as joint activity of EuroSDR and Delft University of Technology). The 3<sup>rd</sup> Workshop was organized less than one year later in Shenzhen, China (October 2012), as a clear indication of the rapid developments (as joint activity of the Urban Planning, Land and Resources Commission of Shenzhen Municipality, Wuhan University and Delft University of Technology). The 4<sup>th</sup> International Workshop on 3D Cadastres, 9-11 November 2014, was hosted by the American University in Dubai, United Arab Emirates, and this time is was jointly organized with the 9<sup>th</sup> 3D GeoInfo Conference.

Based on the call for contributions, authors have submitted their extended abstracts. Some remarkable observations are that: 3D Cadastres are a truly global development, with contributions originating from all continents, and that many of these contributes do refer to ISO 19152, the LADM standard (Land Administration Domain Model) as reference framework. Next, each abstract was typically reviewed by five or more Programme Committee members. This resulted in 27 finally accepted full papers included in these proceedings (and presented at the workshop). Four of them have a special role as "overview reports": 1. Legal Framework 3D Cadastres, 2. Initial Registration of 3D Parcels, 3. 3D Data management, and 4. Visualization, Distribution and Delivery of 3D Parcels. Most likely, these four contributions can be extended after the workshop and will together form the *FIG publication 'Best practices for 3D Cadastres'* (and will be published on the website of the FIG 3D Cadastres Working Group).

The following partner organizations are acknowledged for their support of the 3D Cadastres Workshop: Association of Geographic Information Laboratories for Europe, EuroGeographics, EuroSDR, International Federation of Surveyors, Geo-Informatie Nederland, International Cartographic Association, ISO TC211, International Society for Photogrammetry and Remote Sensing, Joint Board of Geospatial Information Societies, National Technical University of Athens, Greece, Stichting Nederlands Centrum voor Geodesie en Geo-informatica, Open

Geospatial Consortium, and Delft University of Technology. Further thanks to the following media partners for announcing the workshop via their various channels: Coordinates Magazine, Directions Magazine, GeoCommunity, GeoConnexion, GeoInformatics, Geospatial World, GIM International and GIS Magazine. Due to these channels there were many good quality submissions (as assessed by the members of the Programme Committee). We would like to thank the Programme Committee members for their diligent work in assessing the quality of the contributions. Finally, many thanks to the Local Organizing Committee in Athens for the pleasant and cooperative work together in order to prepare FIG's 5<sup>th</sup> International Workshop on 3D Cadastres. We are very much looking forward to another interesting 3D Cadastres Workshop and stimulation interactions with the 3D GeoInfo Conference and the 3D Indoor Workshop!

Delft, October 2016,

Peter van Oosterom, Efi Dimopoulou and Elfriede M. Fendel, the Editors.