

Proceedings

7th LAND ADMINISTRATION DOMAIN MODEL WORKSHOP

Editors: Christiaan Lemmen, Peter van Oosterom & Elfriede Fendel

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International Federation of Surveyors (FIG)
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
DENMARK

Phone: +45 3886 1081
Fax: +45 3886 0252
E-mail: FIG@fig.net
Website: www.fig.net

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CONTENT

Programme Committee & Organizing Committee	V
Preface	IX
LADM Experiences 1	
Are Croatian Official Registers complying with the LADM Fiscal/Valuation Extension?.....	1
Hrvoje Tomić, Siniša Mastelić Ivić, Miodrag Roić and Goran Jurakić	
A Database Implementation of LADM Valuation Information Model in Turkish Case Study	19
Abdullah Kara, Ümit Işıkdağ, Volkan Çağdaş, Peter van Oosterom, Christiaan Lemmen and Erik Stubkjær	
Semantically Enriching and Reconstructing the Cadastral Map of the Netherlands – An LADM approach.....	35
Pieter Soffers and Eric Hagemans	
3D Cadastre	
An LADM-based Approach to Developing and Implementing National 3D Cadastre – A Case Study of Malaysia	47
Abbas Rajabifard, Muiyiwa Agunbiade, Mohsen Kalantari, Kit Meng Yip, Behnam Atazadeh, Farshad Badiee, Mohd Noor Isa, Mohamad Kamali Adimin, Chan Keat Lim, Ali Aien, Hamed Olfat, Davood Shojaei and Mohsen Rahimipour Anaraki	
3D Cadastre and LADM – Needs and Expectations towards LADM Revision	67
Eftychia Kalogianni, Efi Dimopoulou and Peter van Oosterom	
Connecting LADM and IFC Standards – Pathways towards an Integrated Legal-Physical Model	89
Behnam Atazadeh, Abbas Rajabifard and Mohsen Kalantari	
Developing an LADM compliant dissemination and visualization system for 3D Spatial Units	103
Rod Thompson, Peter van Oosterom, Barbara Cemellini and Marian de Vries	
Land Administration Processes	
Application of Workflow management system to the Modelling of Processes in Land Administration Systems	125
Saša Vranić, Hrvoje Matijević and Miodrag Roić	
Exploring Options for Standardisation of Processes and Transactions in Land Administration.....	141
Christiaan Lemmen, Peter van Oosterom, Eva-Maria Unger and Kees de Zeeuw and Mohsen Kalantari	

Current State of Geospatial Technology Supporting LADM.....	151
Brent Jones	
3D Cadastral Lifecycle An Information Delivery Manual ISO 29481 for 3D Data Extraction from the Building Permit Application Process.....	153
Jennifer Oldfield, Ronald Bergs, Peter van Oosterom, Thomas Krijnen and Miquel Marzabal Galano	

LADM Experiences 2

Lessons learned from the Creation of the LADM Based Country Profiles	171
Karel Janečka, Jarosław Bydłosz, Aleksandra Radulović, Nikola Vučić, Dubravka Sladić and Miro Govedarica	
LADM – experiences and challenges in implementation	193
Miro Govedarica, Aleksandra Radulović, Dubravka Sladić and Dragana Popović	
Analysis of Studies on the Land Administration Domain Model in Turkey	213
Mehmet Alkan, Zeynel Abidin Polat	

Technical Models/Implementation

International Code List Management – The Case of Land Administration	223
Erik Stubkjær, Jesper Paasch, Volkan Cagdas, Peter van Oosterom, Scott Simmons, Jenny Paulsson and Christiaan Lemmen	
Deriving Technical Model for the Indoor Navigation Prototype based on the Integration of IndoorGML and LADM	245
Abdullah Alattas, Peter Van Oosterom and Sisi Zlatanova	
Legal independence, Modularity and Implementation of LADM using INTERLIS – Case Study of the Colombian ISO 19152 Profile	269
Lina Baron, Fabian Mejia and Lorenz Jenni	
The LADM Valuation Module Based on INTERLIS	285
Abdullah Kara, Volkan Çağdaş, Ümit Işıkdag, Peter van Oosterom, Christiaan Lemmen and Erik Stubkjær	

Marine Cadastre

Is LADM ready for maritime domain? – Case Study Croatia.....	303
Veljko Flego, Miodrag Roić and Irena Benasić	
Extensions to the LADM Trinidad and Tobago toward a Juridical, Fiscal and Marine Cadastre	319
Charisse Griffith-Charles, Michael Sutherland and Sunil Laloo	
Towards a New Working Item Proposal for Edition II of LADM.....	331
Christiaan Lemmen, Peter van Oosterom and Mohsen Kalantari	

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PREFACE

Welcome to the 7th LADM Workshop!

The first Edition of LADM was published by ISO in 2012 (19152:2012). The focus of LADM2018 workshop will be on sharpening the scope and functionality of the second Edition. After the initial brainstorming on the second Edition of LADM at the 6th Workshop last year in Delft, it is now time to further mature the future LADM. Based on current experiences and future expectations, the need and content of possible extensions will be addressed; e.g. further modelling of LADM's rights, restrictions and responsibilities, a fiscal/valuation extension module, Marine Cadastre, more explicit relations with Building Information Modelling, further modelling of LADM's survey and spatial representation and 3D/4D Cadastre. In addition, attention will be paid to the Operational Standards in Land Administration. This includes addressing the technical models for LADM: CityGML, IndoorGML, LandInfra, InfraGML, LandXML and GeoBIM. Finally, also the aspects beyond Information models will be discussed: Organization, Best practices, Legal/financial aspects, OpenCadastre approach, Crowd sourcing, Workflow Management, Blockchain and ledger technologies.

The purpose of the International FIG Workshop on the Land Administration Domain Model (LADM2018) is to bring together experts from industry, government (land administration agencies) and academia in order to exchange first practical experience and options for further development. This is the third workshop after LADM becoming a formal standard, The four previous workshops were all from the era focused on initial creation of the standard content:

1. March 2003, Enschede, the Netherlands;
2. December 2004, Bamberg, Germany;
3. November 2009, Quebec City, Canada;
4. July 2012, Rotterdam, the Netherlands;
5. September 2013, Kuala Lumpur, Malaysia;
6. March 2017, Delft, the Netherlands.

The seventh International LADM Workshop is organized from 11 to 13 April 2018 in conjunction with the Sixth Croatian Congress on Cadastre (VI.HKK). Besides the FIG (International Federation of Surveyors), the workshop organization is supported by the Croatian Geodetic Society, the State Geodetic Administration and the Faculty of Geodesy of the University of Zagreb, ITC/University of Twente, Kadaster and Delft University of Technology.

The content of LADM 2018 is based on an open call for submissions of experiences related to the use of LADM or related to relevant further developments of LADM. In total 34 extended abstracts were submitted. After review by the members of the Programme Committee, selected authors were invited to submit a full paper version and to use the numerous suggestions made in the review. The results can be found in these proceedings with 21 contributions, of which 3 contributions received a special invitation (not going through the regular review procedure): Semantically enriching and reconstructing the cadastral map of the Netherlands: An LADM approach (to better cover the missing aspect of integrating survey

and cadastral map), Current State of Geospatial Technology Supporting LADM (to include the angle of a leading industry partner) and Towards a New Working Item Proposal for Edition II of LADM (to take first steps in the formal revision procedure within ISO TC211 and OGC).

We would like to take the opportunity to thank the authors for the original contribution (see table of contents), but also the programme committee members for their hard work by providing critical reviews including many suggestion (see Programme Committee), the FIG bureau for again supporting the publication of the LADM workshop proceedings, the OGC for their willingness to contribute to the further development and implementation of LADM and ISO TC211 for their ongoing support, now again noticeable during start of revision, our partners is the local organizing committee for the pleasant and effective collaboration (see Organizing Committee) and specifically Rinaldo Paar and Miodrag Roić as initiators and engines of the organization.

As editors it was great pleasure to be involved in the preparation of the 7th LADM workshop. We hope the proceedings provide a solid basis for the workshop and lasting documentation of the ongoing LADM developments. The proceedings are produced in both hardcopy and on-line format (available from <http://isoladm.org/LADM2018Workshop>).

We do wish all participants a very fruitful and pleasant workshop and a pleasant stay in Zagreb!

April 2018,

Christaan Lemmen, Peter van Oosterom and Elfriede Fendel (editors).