

Proceedings

**10<sup>th</sup> LAND ADMINISTRATION DOMAIN MODEL WORKSHOP**

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## PREFACE

Welcome to the 10<sup>th</sup> FIG LADM Workshop in Dubrovnik, Croatia!

The past two years have been difficult for many of us due to the covid-19 virus disrupting our daily and professional lives. Worldwide, events have been cancelled or switched to online. Of course, we wanted to go on, but the online versions of events had serious limitations in terms of true interaction opportunities and in-depth discussion. It does not need any explanation that this was a great loss. We are therefore very happy to have an onsite meeting again in Dubrovnik, Croatia, which of course also offers the possibility for on-line participation.

This previous LADM workshops were typically organized by starting preparations 1 to 1,5 years in advance. This time was very different. On 23 September 2021, during the FIG Commission 7 Annual Meeting, Miodrag Roić proposed to organize the next LADM workshop in Croatia together with the Croatian Cadastre Congress. Given the very positive experiences in 2018 from the previous LADM workshop in Croatia, the proposal was accepted. However, the deadlines were tighter than ever before with little over half a year until the event. So, a compressed call for papers was distributed with a deadline of 30 November 2021. The reviewers worked incredibly hard and submitted their reviews before the end of 2021. Then, the authors of selected submissions had just until mid-February 2022 to complete their full papers and address reviewer comments. Finally, two more weeks for the editors were available to put together the proceedings and send them off to the printer in Croatia. It felt like a race against the clock. We do expect and hope that printed proceedings will add to the experience of an onsite meeting. However, if you discover any error, please be forgiving.

More than two decades ago Dale and McLaughlin (1999) stated the theory that land administration is about land ownership, land value and land use (plans). Also, Enemark (2006) described very similar aspects of land administration: land tenure, land value, land and land development. Still, in today's practice these different tasks are quite separated and taken care of by different and independent public and private agencies. When the Land Administration Domain Model (LADM) standard ISO 19152:2012 was accepted 10 years ago, perhaps the concept 'land administration' in the title was not completely covered by the content. As the focus was on land tenure, but valuation and spatial plan information were not really included. Countries are developing and implementing LADM profiles and several software vendors are implementing LADM compliant data structures. ISO TC211 started the formal revision of LADM about 2 years ago with an inquiry for suggestion amongst the member states. The response indicated that the next version of LADM should also support valuation and spatial plan information.

The purpose of the International FIG Workshop on the Land Administration Domain Model (LADM2022) 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. Based on the collective expertise made explicit at the workshop, the LADM revision process is fuelled. LADM Edition II is becoming a multi-part standard, appropriately fitting to this broader scope. The development status of each of these parts is:

- Part 1 - Generic Conceptual Model: comments on Committee Draft (CD) version have been processed by the editing committee
- Part 2 - Land Registration: comments on Working Draft (WD) have been received
- Part 3 - Marine space georegulation: Working Draft (WD) has been distributed
- Part 4 - Valuation Information: draft New Work Item Proposal (NWIP) has been distributed
- Part 5 - Spatial Plan Information: draft New Work Item Proposal (NWIP) has been distributed
- Part 6 – Implementations: in development

The nine previous LADM workshops were:

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;
7. April 2018, Zagreb, Croatia;
8. October 2019, Kuala Lumpur, Malaysia;
9. June 2021, online (part of FIG eWW).

This tenth International LADM Workshop is organized from 31 March to 2 April 2022 in conjunction with 7th Croatian Congress on Cadastre. This edition is an anniversary edition, as for the 10th time we gather from all over the world to discuss the challenges, progress and standardization in the field of Land Administration.

The focus of the LADM2022 workshop in Dubrovnik, Croatia will be on preparing further input for second Edition, especially for the higher part numbers. In addition, more attention will be paid to Operational Standards in Land Administration. This includes addressing the technical models and other aspects for LADM implementation. Finally, also the aspects beyond Information models will be discussed: Organization, Best practices, Legal/financial aspects, Crowd sourcing, Workflow modelling, and much more.

Finally, we would like to thank everybody who contributed to the workshop: the authors, for their creativity, the programme committee members, for their valuable evaluations and suggestions for further improvements, and finally the local organization in Croatia, for being such fantastic hosts, as always!

We wish you a very fruitful and pleasant workshop!

March 2022,

Abdullah Kara, Rohan Bennett, Christiaan Lemmen and Peter van Oosterom (editors)