Proceedings

8th LAND ADMINISTRATION DOMAIN MODEL WORKSHOP

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PREFACE

Welcome to the 8th LADM Workshop in Kuala Lumpur, Malaysia!

Worldwide, effective and efficient land administration is an ongoing concern, inhibiting economic growth and property tenure. In many nations, land administration systems are either non-existent or manual paper-based or semi-automated systems subject to limited public access. All of these approaches are at significant risk of data loss and failure due to disasters and lack of interoperability.

Over the past years the Expert Group on Land Administration and Management of the UN-GGIM[1] is developing a Framework for Effective Land Administration (FELA)[2]. This will be a reference for developing, reforming, renewing, strengthening or modernizing land administration and management systems. Land data are in the core of any land administration and management system. The document calls for recognition of land tenure, land use, land value, and land development data - including elements relating to gender, conflict, and disaster - as fundamental geospatial data themes within any jurisdiction - and that those data be integrated with other fundamental themes. The document refers to the Land Administration Domain Model as a standard for land administration.

The Open Geospatial Consortium published a White Paper on Land Administration[3]. This white paper provides an overview of the land administration domain and proposes actions needed for design and development of implementation standards this domain – this includes as main reference the Land Administration Domain Model. A close cooperation between the Open Geospatial Consortium (OGC) and ISO is expected to accelerate those developments.
The charter members of the OGC Domain Working Group seek to identify enabling standards and best practices to guide countries in a programmatic way to establish more cost effective, efficient and interoperable land administration capability, to upgrade current manual to semi-automated processes, and to suggest solutions that are more automated and flexible to new data sources technologies.
Countries are developing and implementing LADM profiles and several software are implementing LADM compliant data structures.

LADM is more and more in the picture!

The purpose of the International FIG Workshop on the Land Administration Domain Model (LADM2019) 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.

It was discussed and agreed in ISO TC 211 to publish LADM Edition II as multipart – as follows:

[1] UN GGIM is the United Nations Committee of Experts on Global Geospatial Information Management

[2] http://ggim.un.org/meetings/GGIM-committee/9th-Session/documents/E_C.20_2020_10_Add_1_LAM_background.pdf

[3] https://docs.opengeospatial.org/wp/18-008r1/18-008r1.html

– Part 1 - Land Administration Fundamentals
– Part 2 - Land Tenure or Land Registration or Land Interest
– Part 3 - Marine Space or Marine Geo-Regulation
– Part 4 - Land Valuation
– Part 5 - Spatial Planning
– Part 6 - Implementations

This approach simplifies the consensus process.

The seven 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;
7. April 2018, Zagreb, Croatia

The eight International LADM Workshop is organized from 1 to 3 October 2019 in conjunction with the Geospatial Kuala Lumpur 2019.

The focus of LADM2019 workshop in Kuala Lumpur will be on preparing input for second Edition. After the initial brainstorming on the second Edition of LADM at the 6th workshop[4] and further scoping at the 7th workshop[5] the result was submitted by FIG to ISO TC211 as a New Work Item proposal (NWIP) for the second Edition. It is now time to provide proposals for the new LADM parts. 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, more and more attention will be paid to the Operational Standards in Land Administration. This includes addressing the technical models for LADM: INTERLIS, RDF, 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 modelling, Blockchain and ledger technologies.

As member of the LADM community we wish you a pleasant workshop!

Peter van Oosterom
Christiaan Lemmen
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[4] https://wiki.tudelft.nl/bin/view/Research/ISO19152/WorkshopAgenda2017
[5] https://wiki.tudelft.nl/bin/view/Research/ISO19152/LADM2018Workshop