

FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

Presented by the FIG Working Week 2019,
April 22-26, 2019 in Hanoi, Vietnam

"Geospatial Information for a Smarter Life
and Environmental Resilience"



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Joint ISO/TC211 and OGC Revision of the LADM: Valuation Information, Spatial Planning Information, SDG Land Indicators, Refined Survey Model, Links to BIM, Support of LA Processes, Technical Encodings, and Much More on Their Way!

Peter van Oosterom, Abdullah Kara, Eftychia Kalogianni, Anna Shnaidman, Agung Indrajit, Abdullah Alattas and Christiaan Lemmen

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Secure land rights for the world



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Purposes

- Peace Building and Security
- Social Justice and Poverty Eradication
- Disaster Management
- Resource Management
- Tenure Security
- Access to Credit
- Taxation
- Smart and Resilient Societies
- Sustainable Land Use and Food Security
- Protected Environment
- Slum Upgrading
- Access to Housing
- City Management
- Access to Basic Infrastructure

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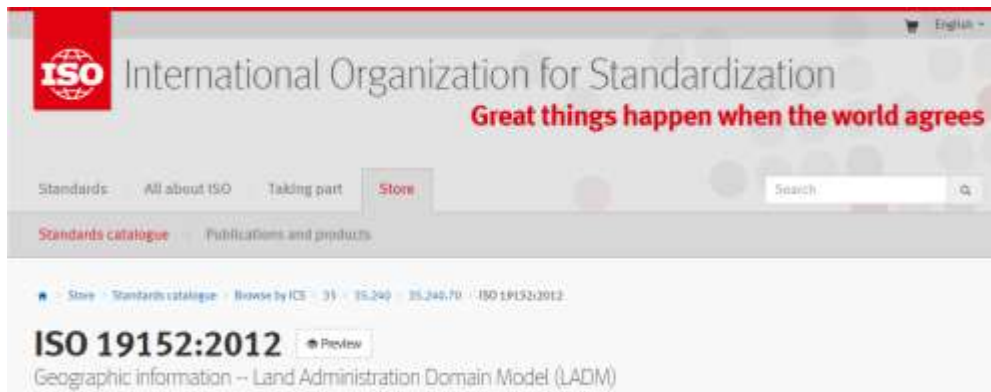
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Land Administration Domain Model

- ISO 19152
- Edition I published in 2012



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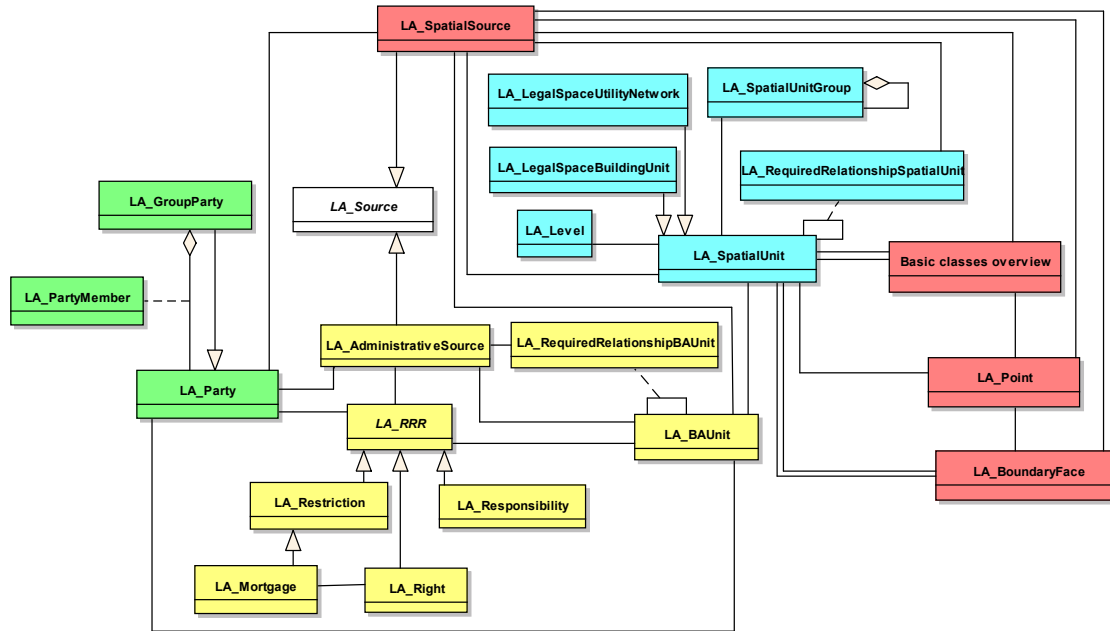


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ISO/TC 211 Land Administration Domain Model (LADM) Standard Revision

- Ongoing Work
 - Correct errors in Edition I
 - Backwards Compatibility
 - Sustainable Development Goals
 - Methodology of developing country profile
 - Input from developing countries
 - Input from UNGGIM EG on Land Administration & Management
- Potential Revision Topics
 - Land Management Processes
 - Taxation and Valuation
 - Maritime Limits & Boundaries
 - 3D & 4D
 - Indoor & Building Information Models (BIM)
 - Crowdsourcing
 - Sustainable Development Goals (SDG) – Land Indicator
 - Social Tenure to Legal Tenure
 - Application of Blockchain



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Organizations with Interest in ISO LADM (19152) V2

- UN FAO
- UN HABITAT
- Global Land Tool Network
- UN Ocean Affairs and the Law of the Sea
- UNGGIM
- World Bank
- ISO/TC 211 members
- Open Geospatial Consortium
- International Federation of Surveyors
- Valuation Community
- International Hydrographic Organisation
- Royal Institution of Chartered Surveyors
- *European Land Registry Association*
 - *ELRA*
- *IPRA-CINDER Registrars*



UN-GGIM
United Nations Group of Experts
on Geographical Information
Infrastructure Management



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Mapping and Recording Options



Location

- In the Field



- Community Gathering



Main Mapper

- Grassroot surveyor



- Surveyor



Material

- Digital



- Paper



Mapping Tool

- Imagery

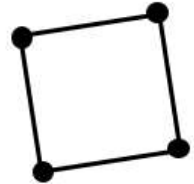


- GNSS

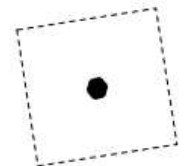


Mapping Technique

- Polygons



- Points



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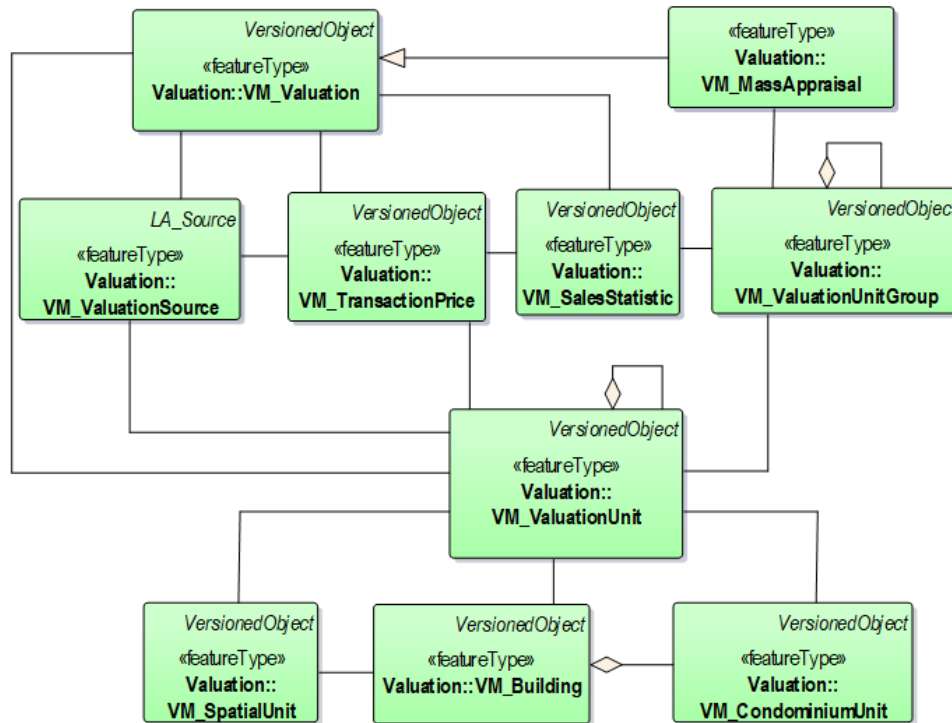
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Classes of Valuation Package



Abdullah Kara

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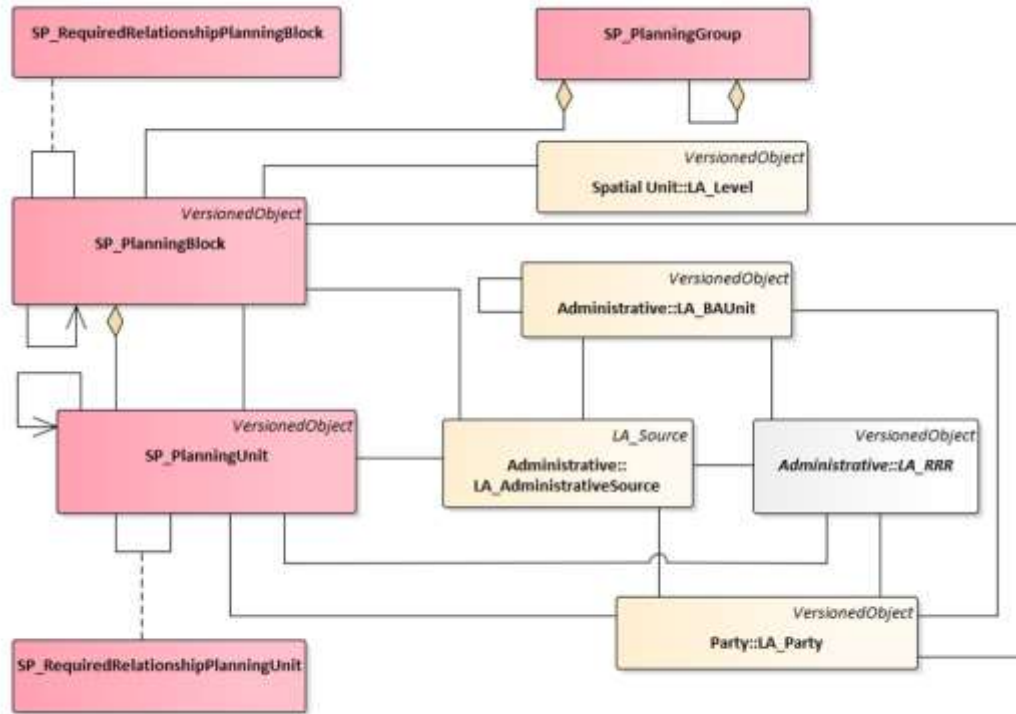
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Classes of Spatial Planning Package



Agung Indrajit

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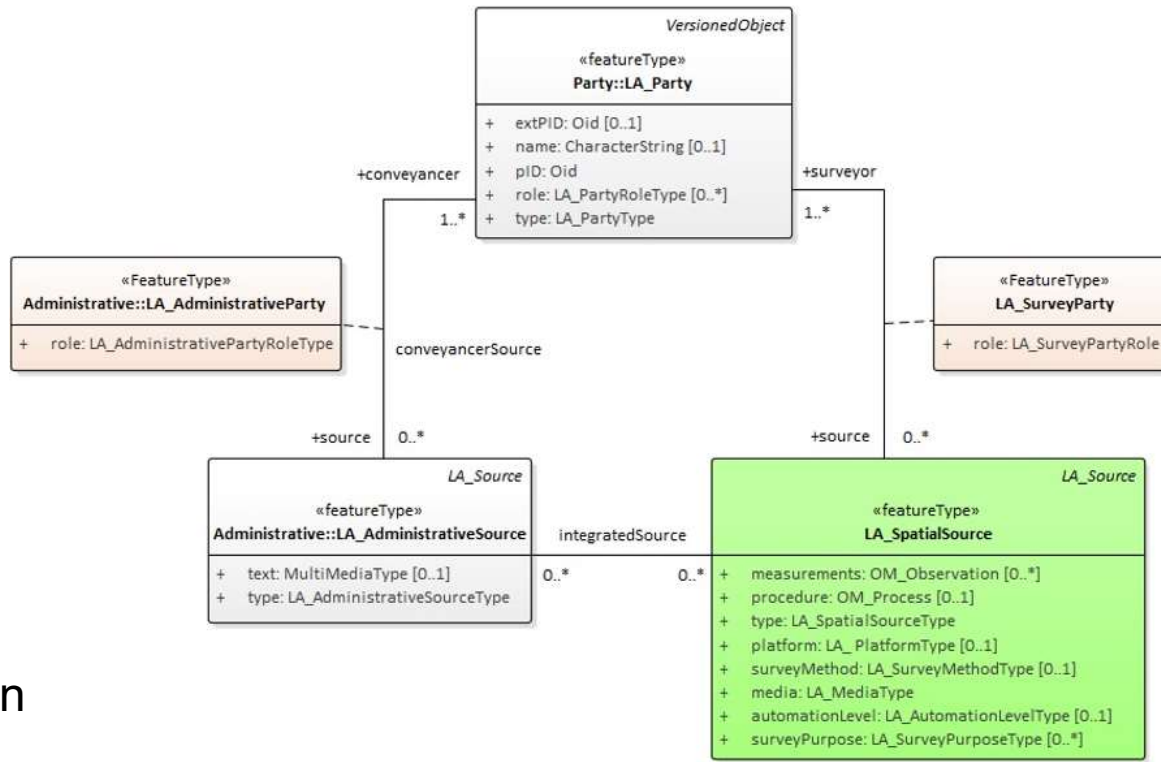
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Extended Source Class



Anna Shnaidman

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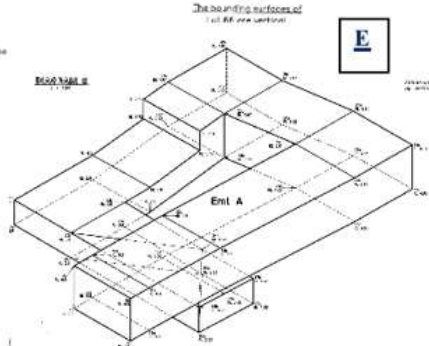
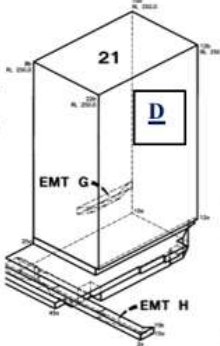
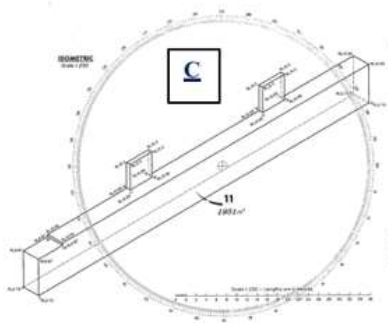
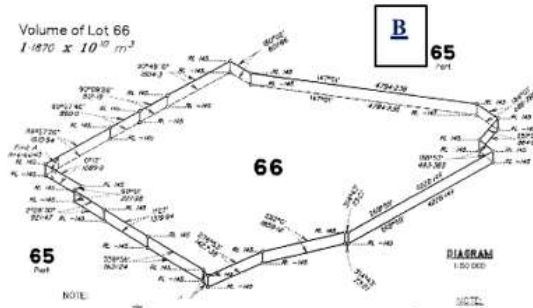
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Spatial Unit Geometries



Eftychia Kalogianni

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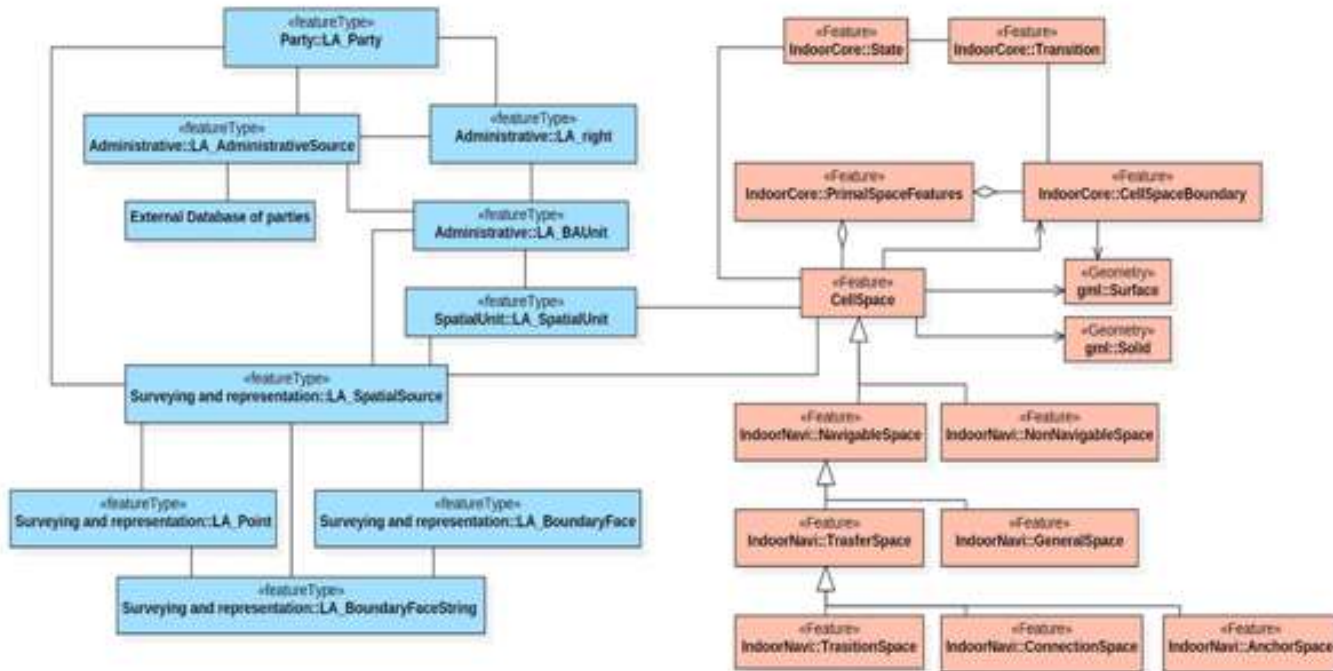
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UML model of LADM-IndoorGML combined model



Abdullah Alattas

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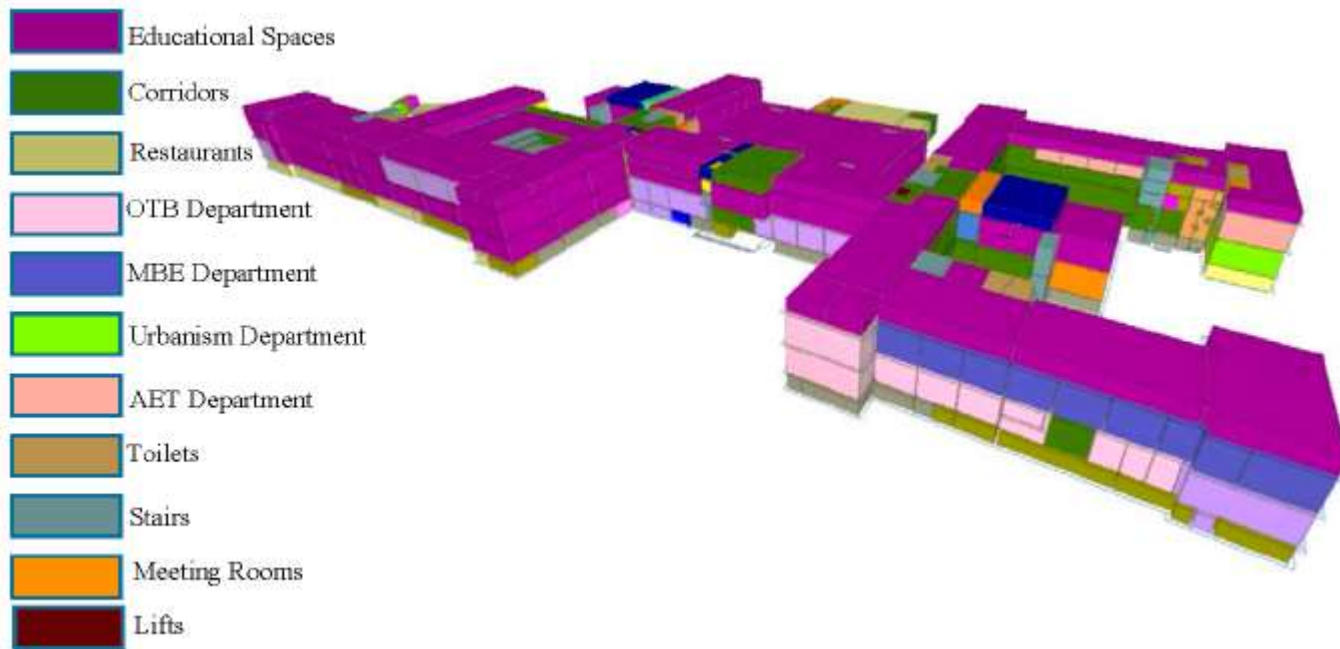
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The classification of different types of cells based on functional rights.



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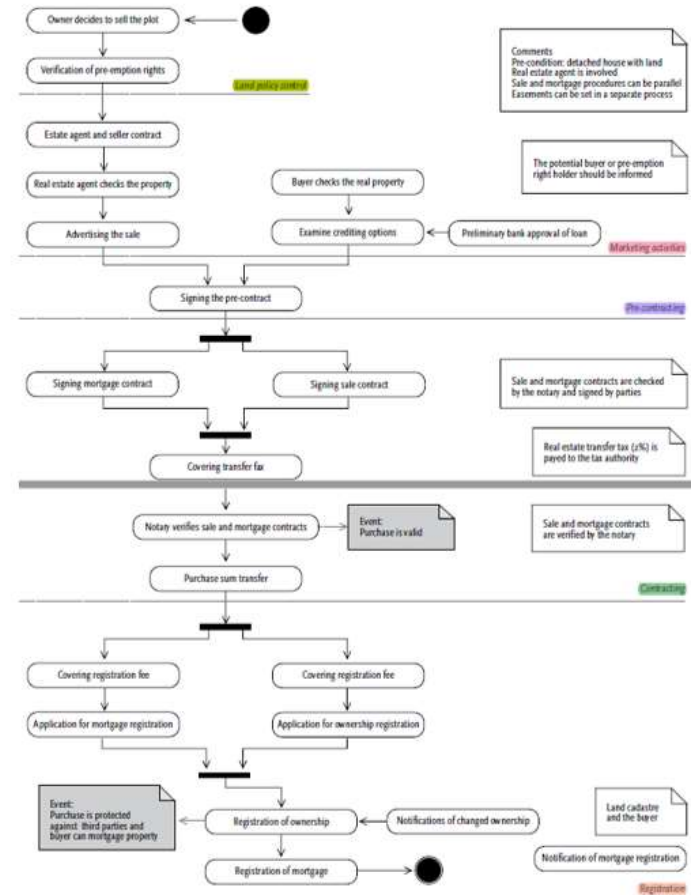
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Processes

- Transactions
- Blockchain
- Access to Imagery



Example (Zevenbergen)

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Thank You!

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Smart Surveyors for Land and Water Management

