

kadaster



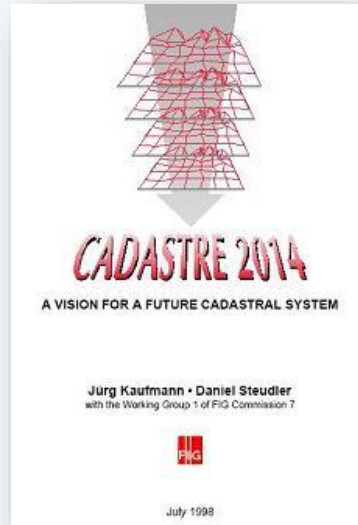
RRRs and FELA

What | Why | Where

UNGGIM Effective Land
Administration

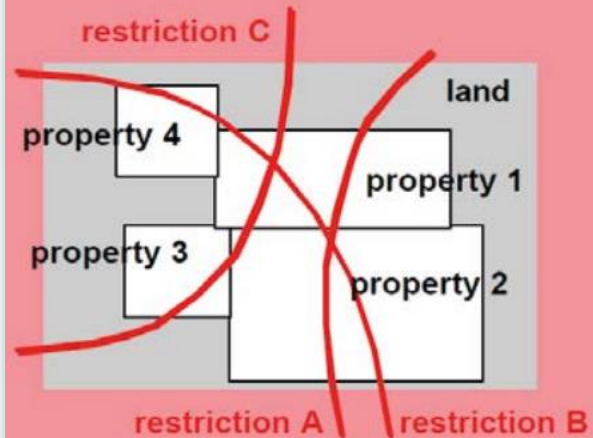
May 17 and 19

Rohan Bennett



Statement 1 on Cadastre 2014

Cadastre 2014 will show the complete legal situation of land, including public rights and restrictions!



Comment: The population of the world is growing. The consumption of land is increasing. The absolute control of the individual or of legal entities of land is increasingly being restricted by public interest. To provide security of the land tenure, all facts about land must be made obvious by the cadastral system of the future.

Consequences: A new thematic model is necessary. Surveyors must take into consideration public law.

Jurisdiction	Snapshot date	Total acts	Acts creating interests in land
Federal Government of Australia	23.08.2005	1427	514
State Government of Victoria, Australia	11.01.2006	1045	620
Moreland City Council	29.03.2006	11	9



Parcel based



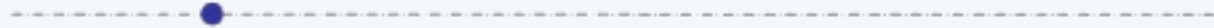
Non-parcel based



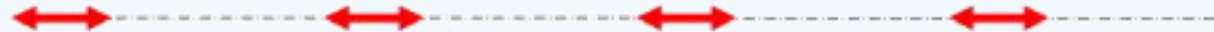
Time



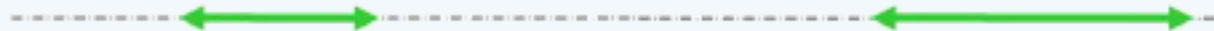
Once / Short term / Set Period



Repeat



Ad hoc



Indefinite



VOLUNTARY GUIDELINES ON THE

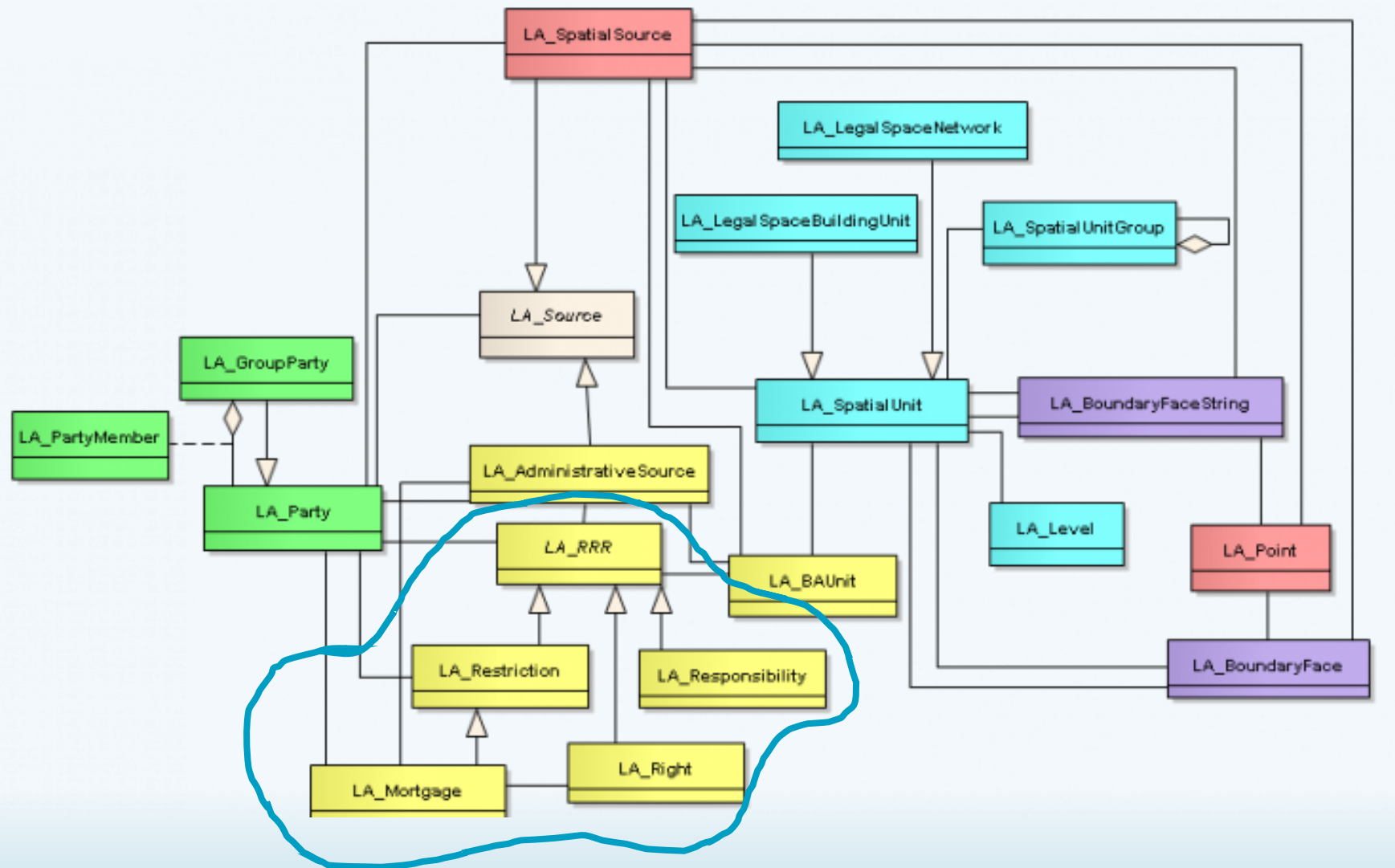
Responsible Governance of Tenure

OF LAND, FISHERIES AND FORESTS IN
THE CONTEXT OF NATIONAL FOOD SECURITY



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SUSTAINABLE DEVELOPMENT GOALS

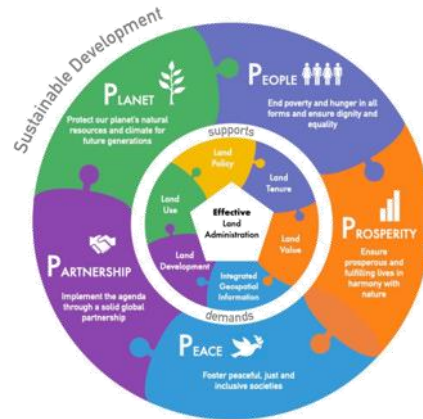
17 GOALS TO TRANSFORM OUR WORLD



Framework for Effective Land Administration

A reference for developing, reforming, renewing, strengthening, modernizing, and monitoring land administration

E/C.20/2020/29/Add.2



Expert Group on Land Administration and Management
United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM)
May 2020

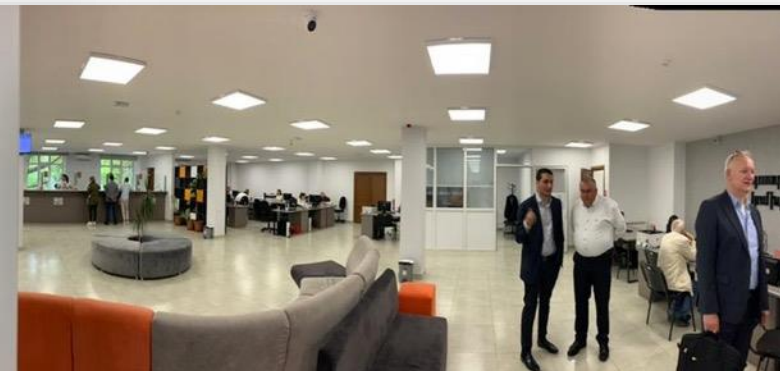
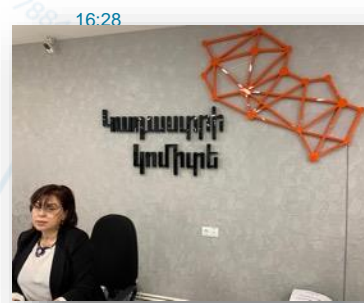


“The ability of governments to organize and integrate land information can be greatly improved if attributes relating to **rights, restrictions, and responsibilities** including spatial extent, duration, people involved, and purpose – are defined in a uniform fashion and stored in **authentic registers.**”



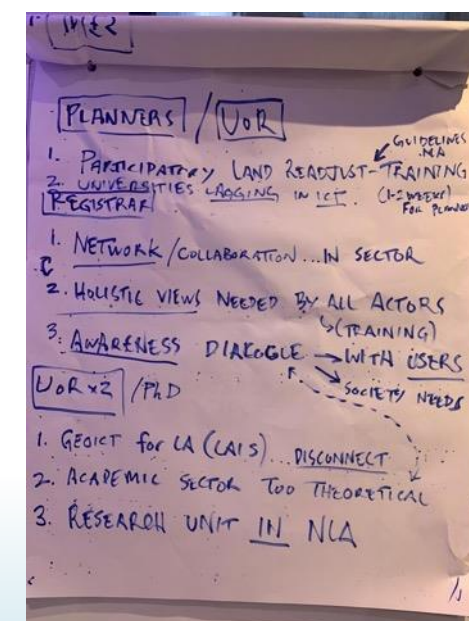
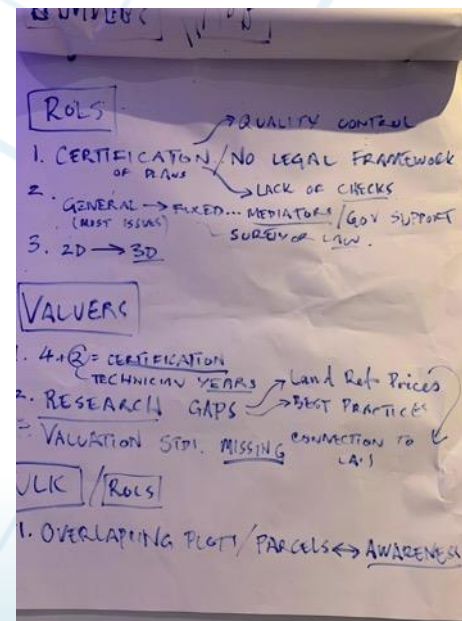
Armenia Cadastre Committee

Paper to Digital





Rwanda ICT Capacity Development



New ways to link data

Linked Data and Semantic Web

Business Rationale for Linked Data at Governments: a case study at the Netherlands' Kadaster Data Platform

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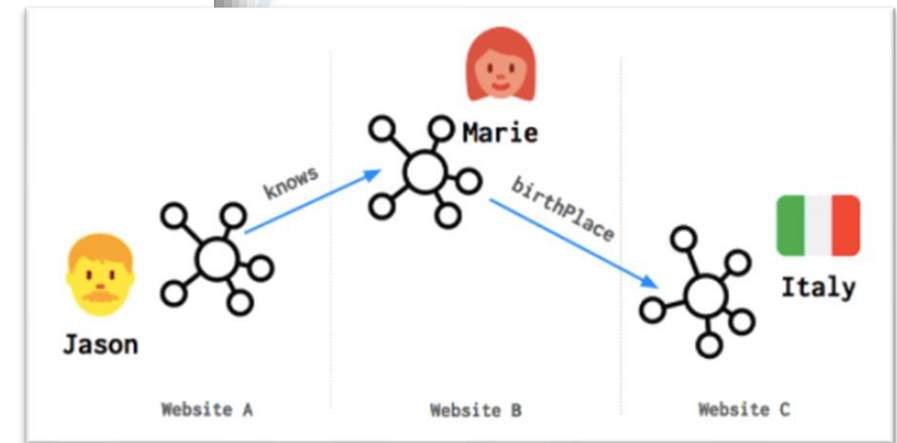
³Geo-Information Science and Earth Observation, University of Twente, Enschede, 7514 AE The Netherlands

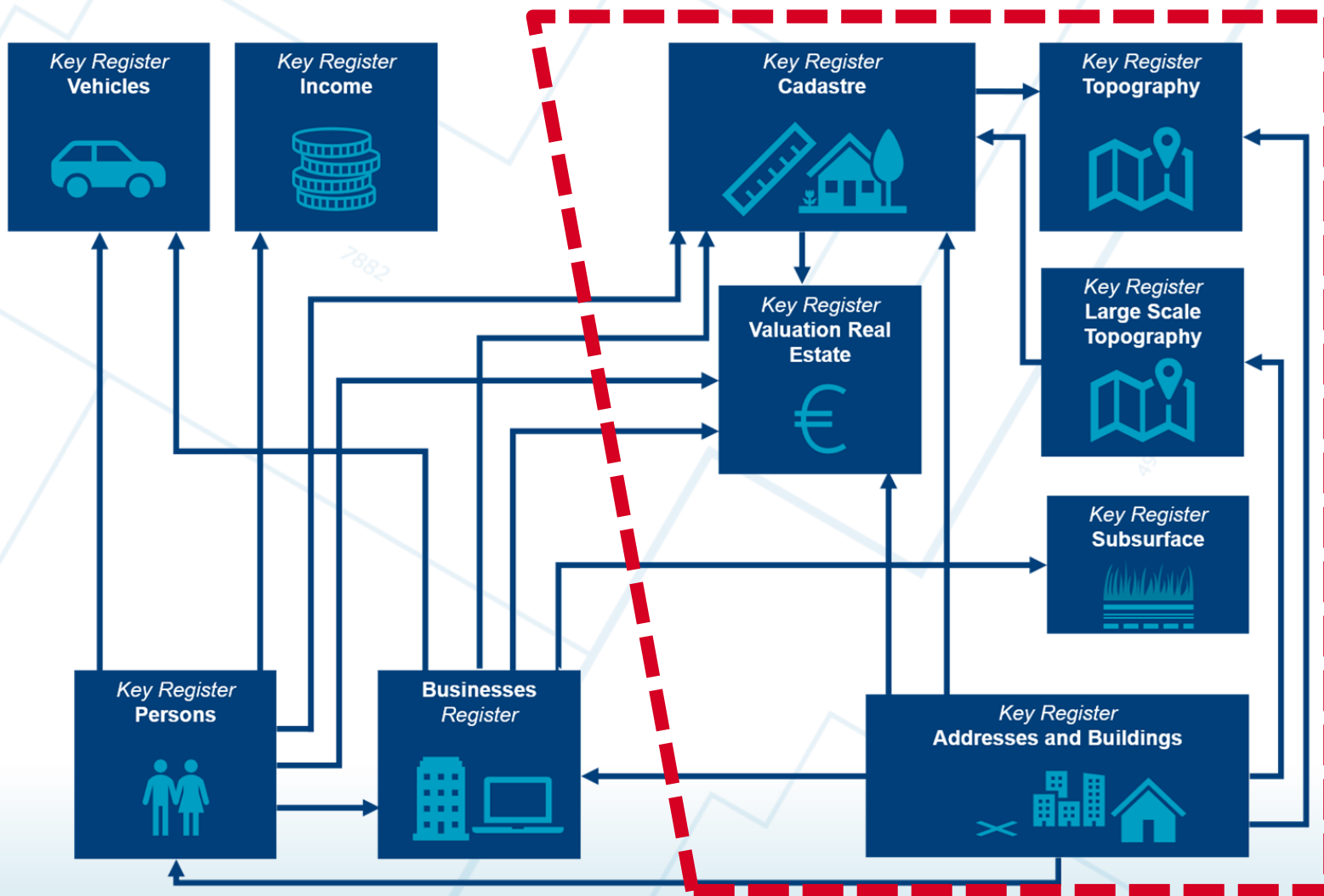
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ABSTRACT Linked Data is an innovative approach for publishing heterogeneous data sources on the web. As such, it can transcend the traditional confines of separate databases, as well as the confines of separate institutions. At the same time, businesses and governmental organizations alike are trying to cope with ever-increasing quantities of heterogeneous data that must be used across multiple departments, manufacturing locations, and governmental bodies. Linked Data would, therefore, be a great technological solution for today's organizational problems. However, we observe that a serious gap exists between Linked Data research and business research. While Linked Data research is almost exclusively technologically oriented, the business research literature has not devoted much attention to the use of Linked Data solutions yet. In this paper, we seek to bridge this gap, by introducing a real-world use case where Linked Data technologies are applied in large-scale government settings. We argue in detail that Linked Data provides a major contribution to the business vision of a modern governmental institution based on the experience of the Netherlands' Cadastre Land Registry and Mapping Agency (Kadaster), so far, the largest implementation of Linked Data in the governments of the Netherlands.

INDEX TERMS Government, Information management, Data systems







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- PDOK viewer
- Location Server
- Atomfeed and Zip files
- Standard format WFS, WCS, WMTS and WMS
- RESTful API's
- Linked data RDF

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 99,71% uptime

 5 interruptions (> 29 min)

Customers



Over 450 governments registered at PDOK



More than 15.000 websites use open GEO data from PDOK



PDOK leads GEO data community

Metadata



National GEO data register is the guide for geodata in the Netherlands

Data

3D
Aerial photo
Aim valuation
Building & Addresses
Cadastral parcels
Energy

Height
Hydrography
Municipalities
Nature & Environment
Provinces

New in 2019

- Introduction of services WFS 3.0 and vectortiling
- 27 new datasets
- National GEO data register update according to ISO standards
- International relations with Belarus, North-Macedonia and Saint Lucia

INSPIRE



European distribution of INSPIRE datasets

Availability 99.5 %
"INSPIRE proof"

Facts & Figures



Most popular dataset
'BRT achtergrondkaart'



192 datasets
505 services
103 INSPIRE services



PDOK datasets
14.4 billion hits



National GEO data register
32.9 million hits



46 Mentions on Twitter



459 Geoforum topics

PDOK factsheet 2019 - Version 1.0 - ENG

Thanks to Dick Ertink

New standards to support government data integration

LADM and Interoperability

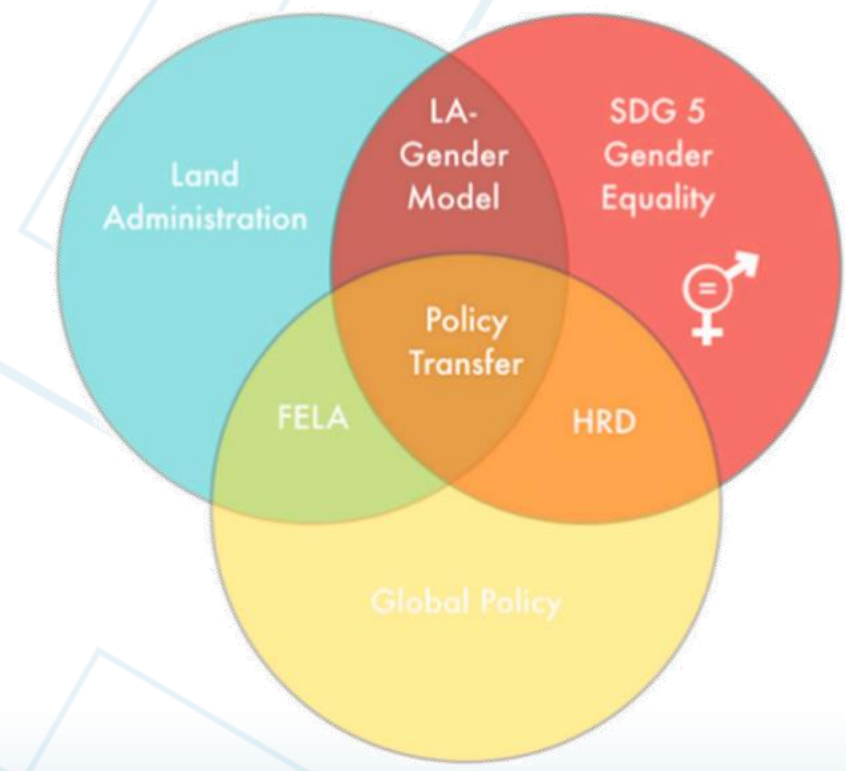


Fig. 8. LADM as a base to support SDG 5 'Gender Equality'.

Novel partnerships between new actors

PPPs and Corporate Social Responsibility

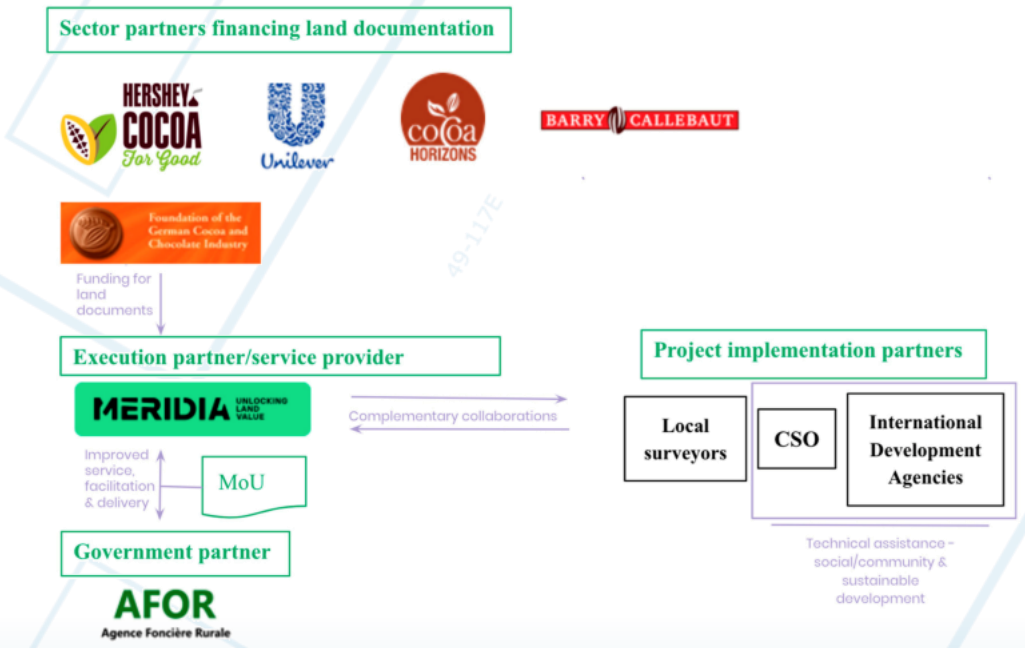
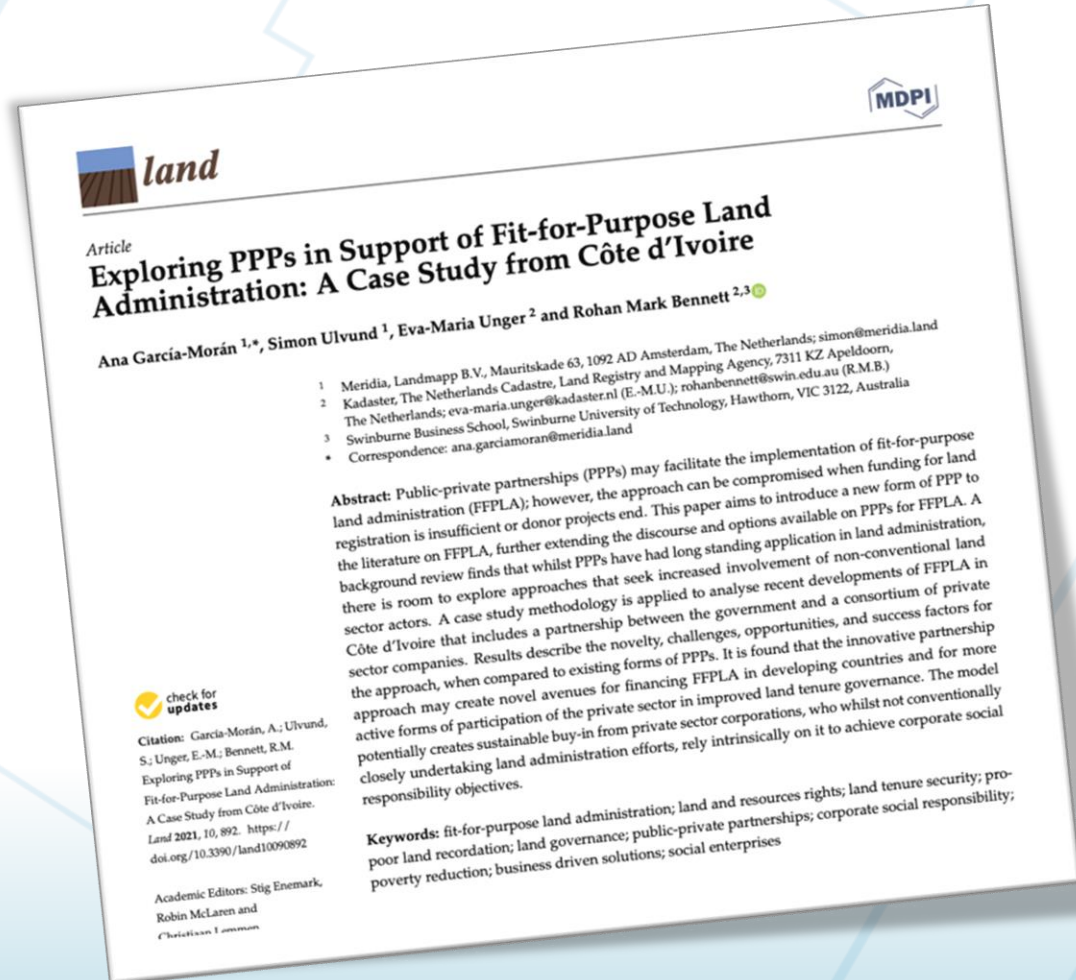


Figure 1. Partners in CLAP.

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Questions