



Interoperability Model for Land Registers

IMOLA IV KICK OFF CONFERENCE Work Package 3: Technology & Services

5th November 2024 - Residence Palace, Brussels



Meet the Technical Team



Pedro Pernas
Project Manager



Paulo Vieira
WP 3 Coordinator



Paula Galhardas
Team Member



Lorenzo Marcolla
Team Member



Alessandro De Gaetano
Team Member



ELRA Board of Directors
Alicia Giménez et all
ELRA Support

Anabel Fraga et all
Outsourced Services by
Universidad Carlos III de Madrid (UC3M)
Knowledge Centric Solutions, SL (KCS)



Co-funded by the
European Union

Tip of the Iceberg

In this context there are at least three EU initiatives to consider



Single access point intended to make **LR information** available on the e-Justice portal, covering topics such as authentication and authorization, search criteria and eventual fees, including the interface for request and provide the information.

In line with the Interoperable Europe Act, the SEMIC community stands for co-creation and sharing **best practices** to enhance **data sharing and interoperability across public administrations** strategic areas.

The Once Only Technical System (OOTS) **enables the sharing of information between public administrations** across borders of EU countries. It is cross-sectorial and can be expanded beyond the scope of life events set out in the Single Digital Gateway Regulation.

Something Else Matters

For instance, SEMIC community helped international working groups to obtain agreement on the following e-Government Core Vocabularies



Visit the Core Vocabularies page on Joinup for more information



Co-funded by the European Union

Draft of the Concept



English EN

Search

Menu

[Advanced search](#)

Home > Registers - business, insolvency & land > Search for property rights

Search for property rights



Search for properties (step 2 - All countries)

This page allows you to search for properties in all countries

Property owner data

Search as:

- Individual Company

Company ID:

Company name:

Legitimate interest

Legitimate interest claimed(required in Estonia, Belgium, Italy, Austria) : *

- Legal/economic investigation on credit, insolvency or responsibility
- Legal investigation on object, ownership or limitations
- Investigation for contracting or mediation of shares
- The applicant is the registered owner
- Other

Terms and Conditions

- I read, understood and agree to the terms of service, the disclaimer for this system, and the rules, limitations and conditions applicable to accessing data coming from LRI *



English EN

Search

Menu

[Advanced search](#)

Home > Registers - business, insolvency & land > Search for property rights

Search for property rights



Search for properties (step 2 - Specific country)

This page allows you to search for properties in a specific country

[Expand all](#) | [Collapse all](#)

Search in:

LV Form

A search by property address data: At least two search criteria are required.
A search by Property ID: Cadastre ID is a unique and constant combination of 11 digits has been given to the entire real estate.

Property address data

Municipality:

Street Name:

House Number:

Building Name:

Apartment Number:

Province:

Property ID

Cadastre ID:

Terms and Conditions

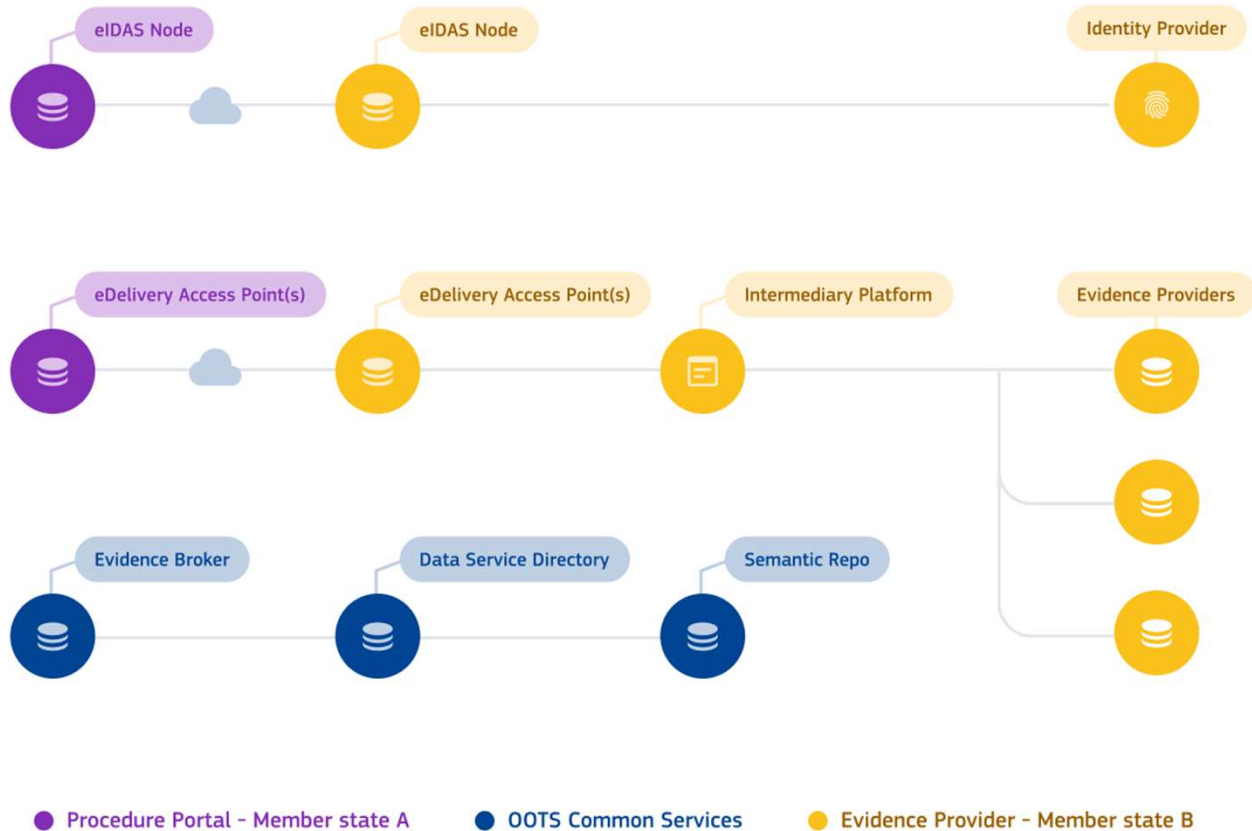
- I read, understood and agree to the terms of service, the disclaimer for this system, and the rules, limitations and conditions applicable to accessing data coming from LRI *

Back

Reset

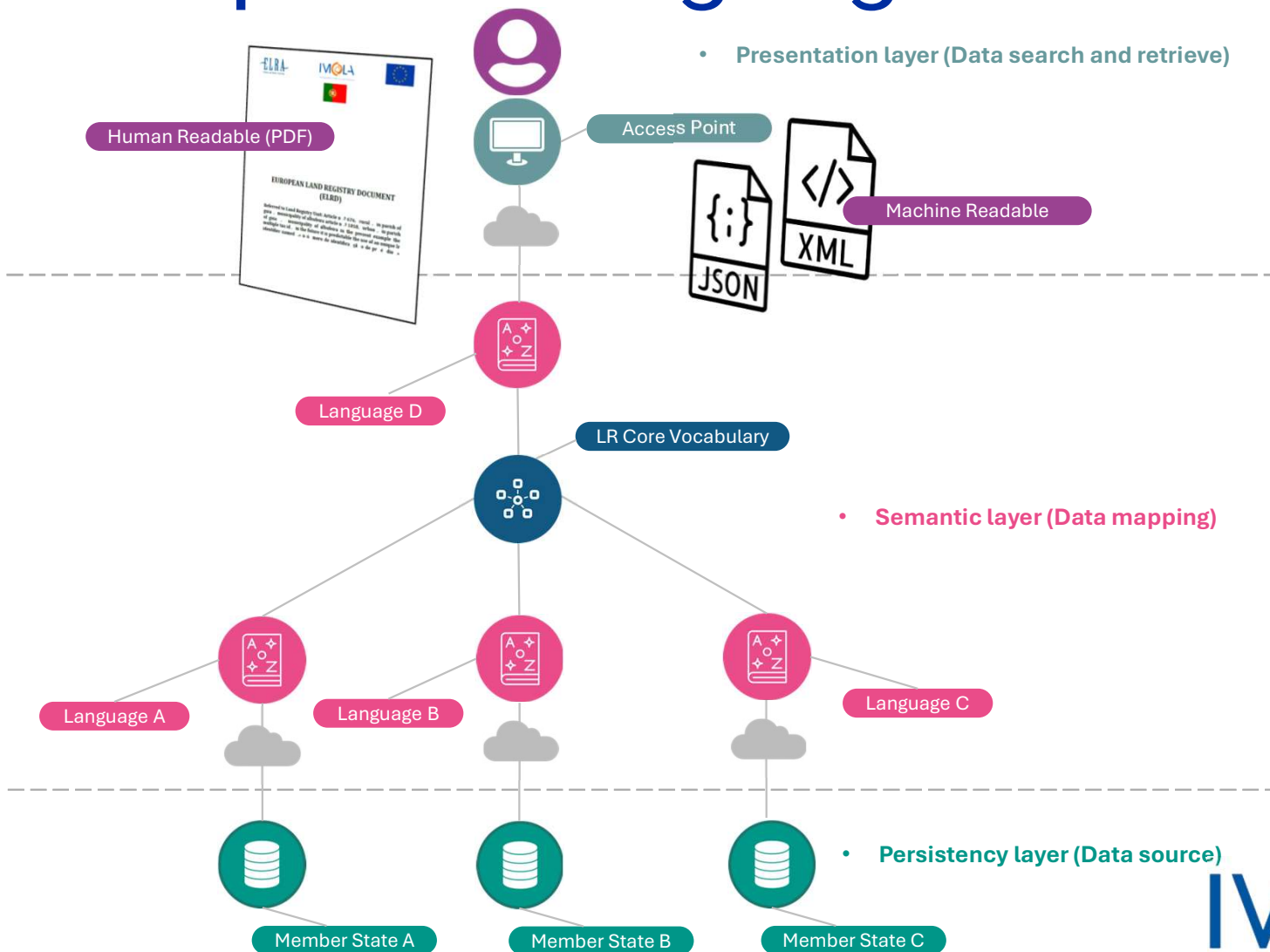
Search

Glimpse of Possible Synergy



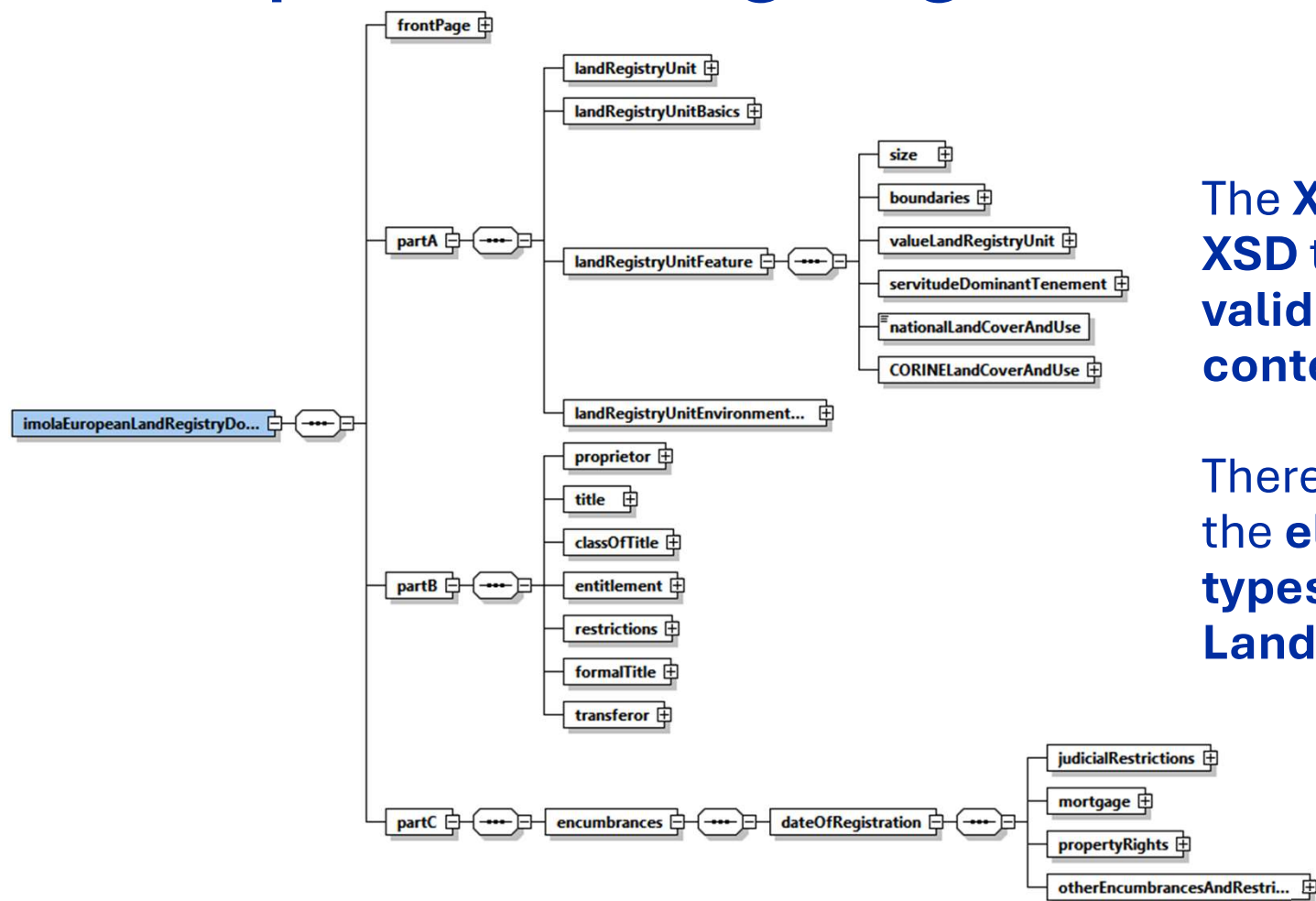
This single entry point is intended to help citizens and businesses who wish to exercise their rights in other Member States, e.g. to travel, live, work, study, and do business.

Snapshot of Ongoing Work



The vocabulary hub form the common language to enable semantic interoperability. A **glossary** that is a list of pivot terms and their definition at national level in the domain of Land Register organized in a database.

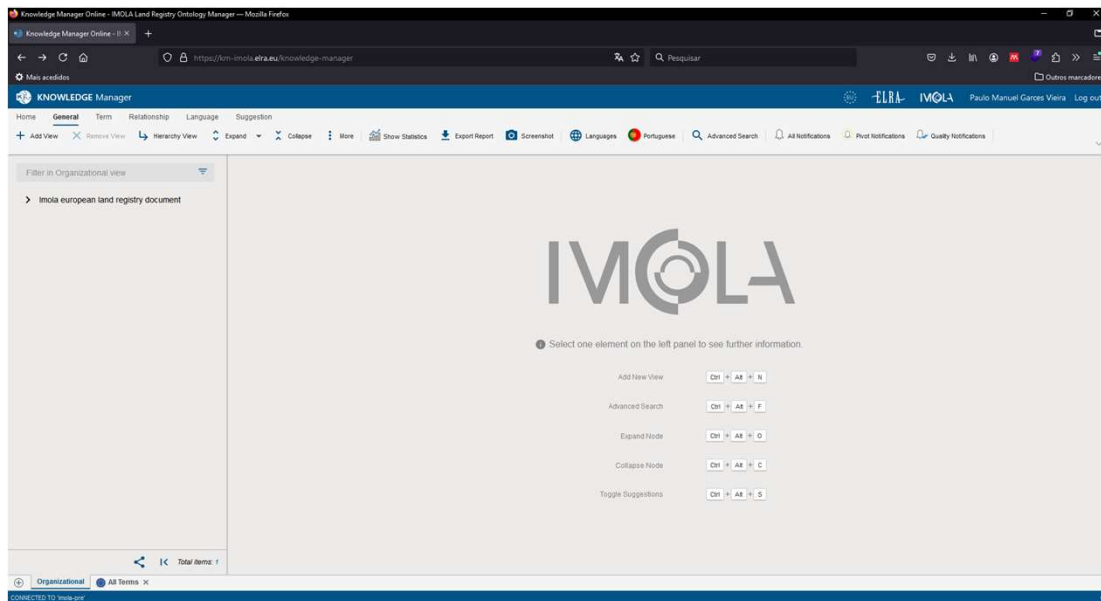
Snapshot of Ongoing Work



The **XML Schema Definition or XSD** that is used to **describe and validate the structure and content** of an XML document.

Therefore, primarily used to define the **elements, attributes and data types** contained in the **European Land Registry Document (ELRD)**.

Snapshot of Ongoing Work



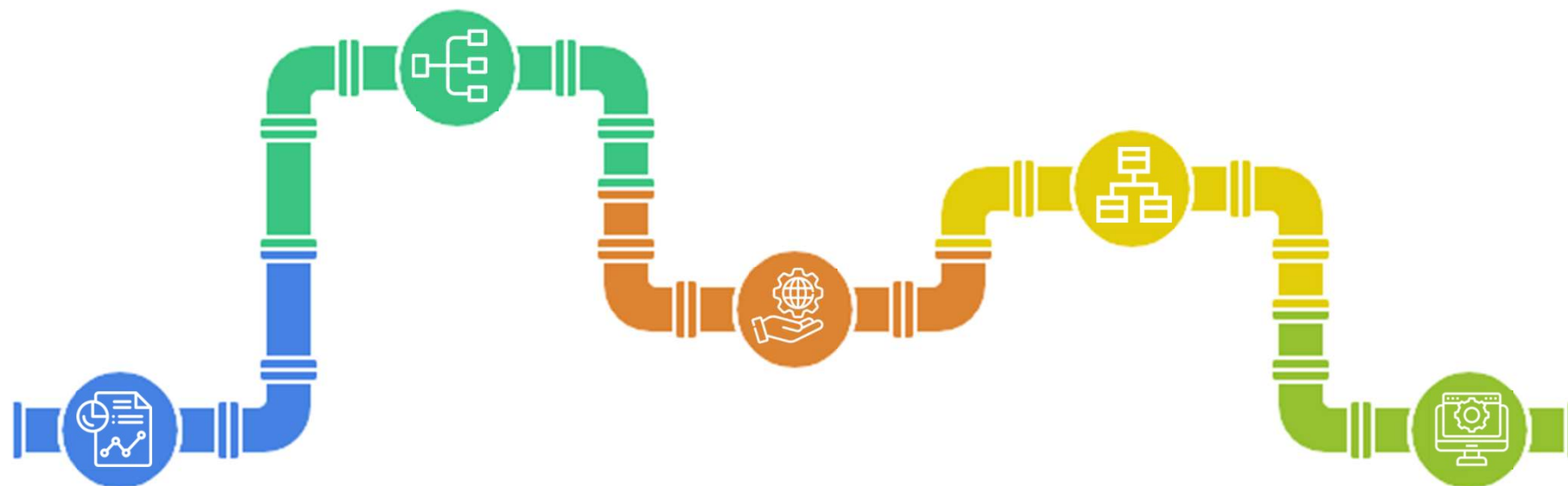
It's about **more than a glossary**. Is a formal representation of a knowledge domain (**ontology**), that **defines a set of concepts, their properties, and the relationships between them**.

Those **specifications include for instance legal formants** (e.g. legislation, case law, legal doctrine) very important for comparative law.



Co-funded by the
European Union

Pipeline of the Action



01

JAN25

Technical report
on the changes

02

FEV26

Upgrade and
consolidation of
the XSD Schema
related to ELRD

03

FEV26

Improvement
and development
of webservice

04

APR26

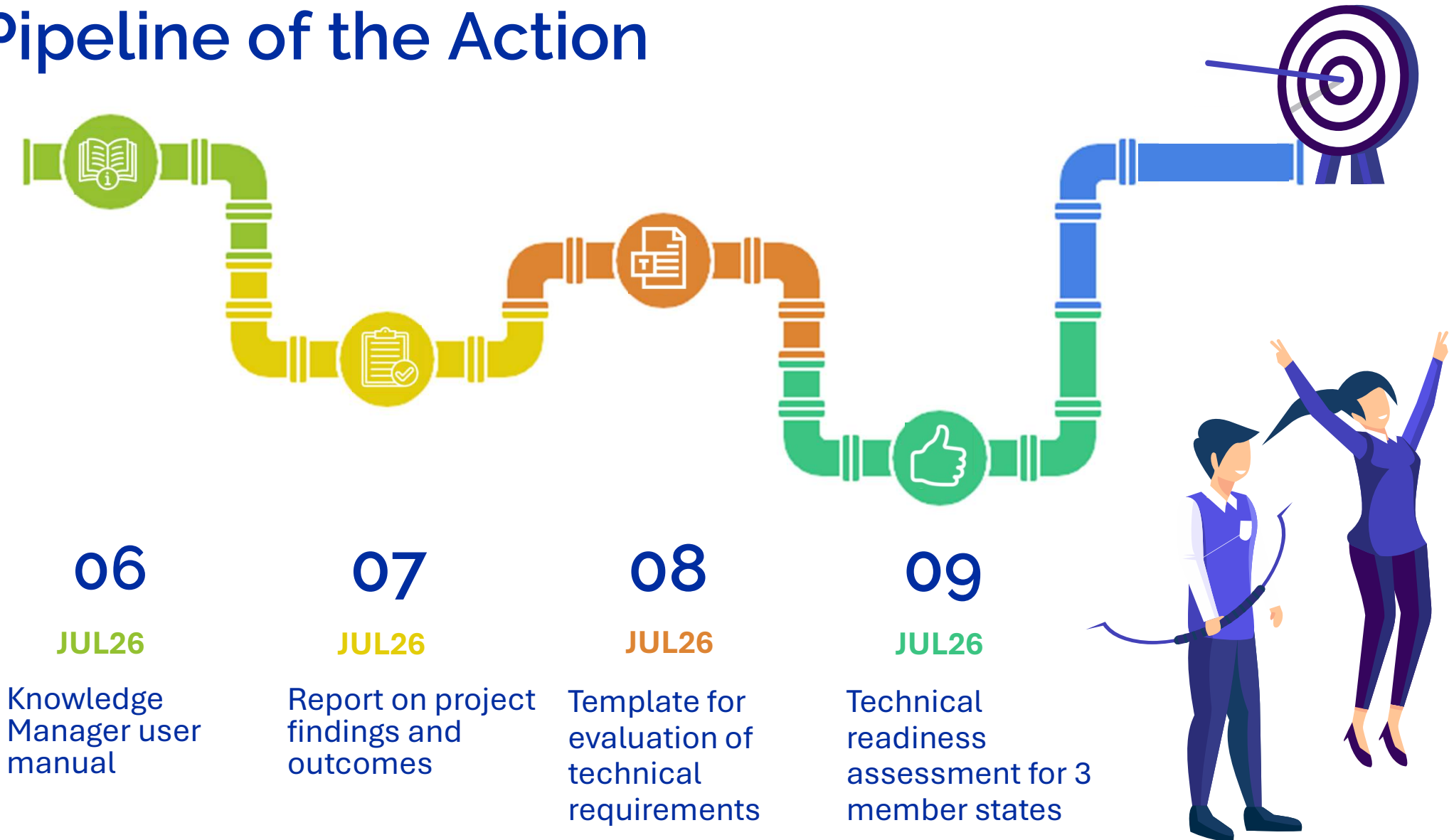
Conceptual
model for LR
Core Vocabulary

05

MAY26

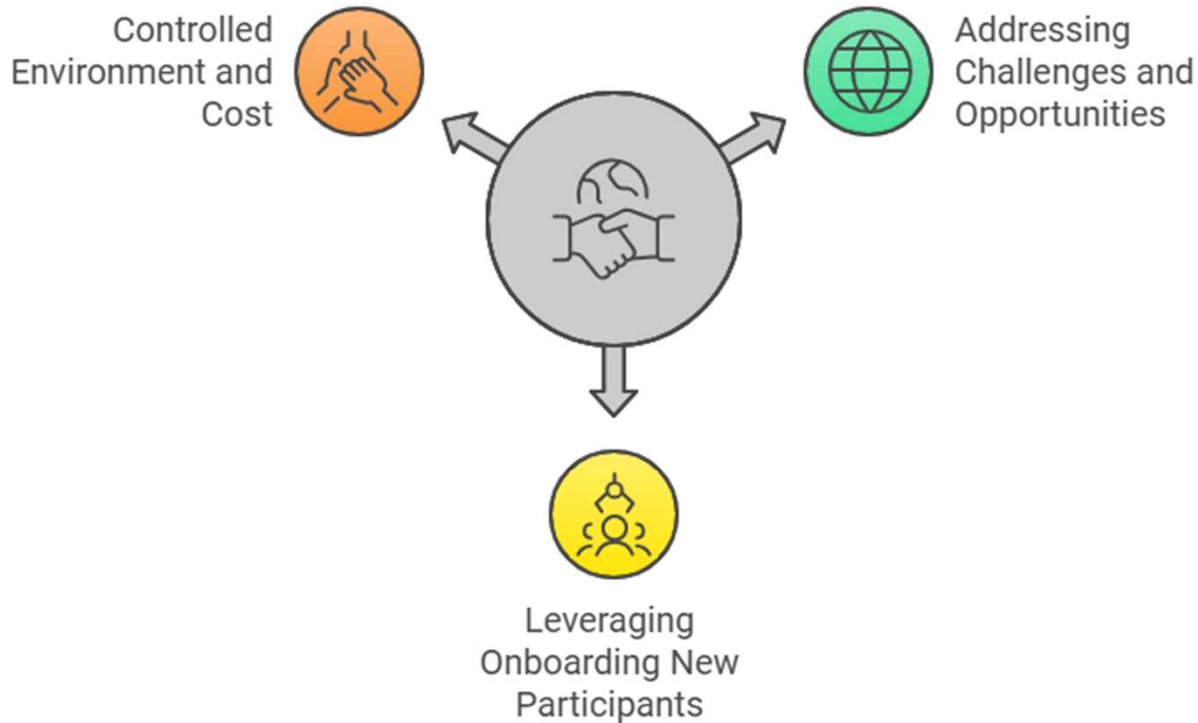
Update of the
Knowledge
Manager web
platform

Pipeline of the Action



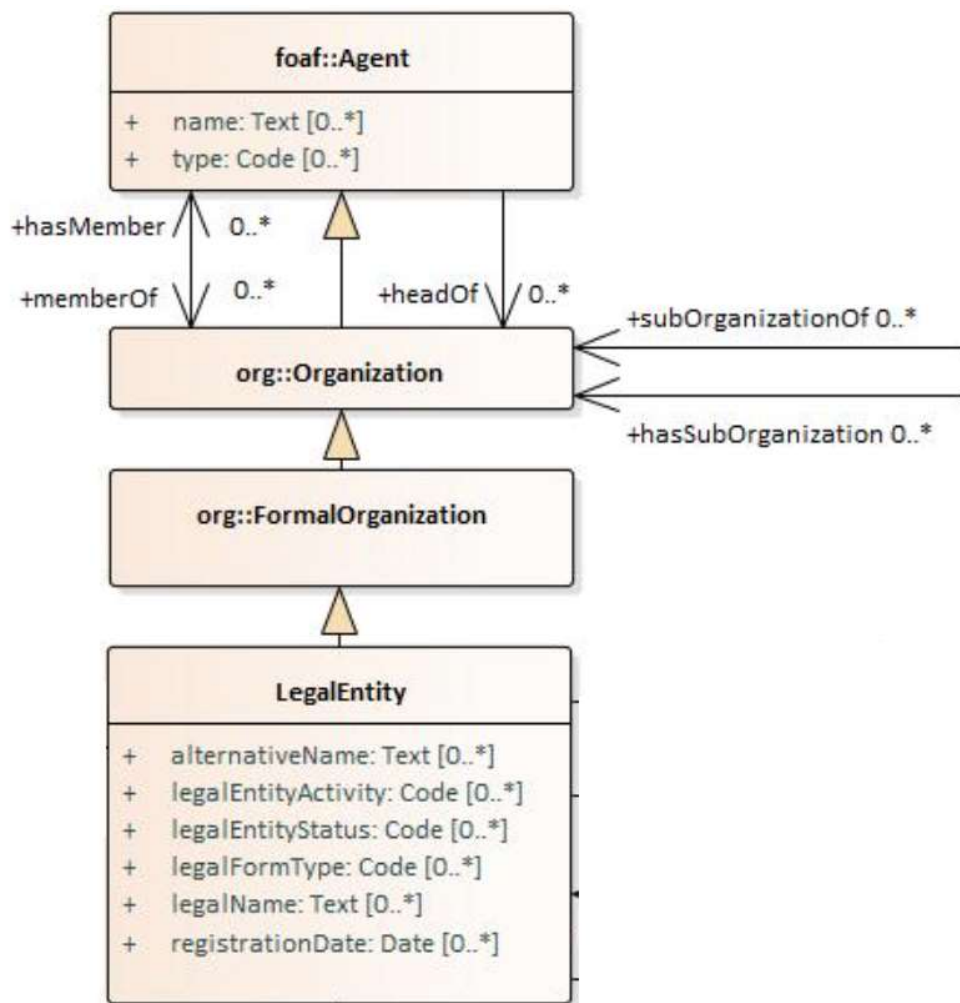
Double Cornerstone Deliverables

Collaborative Framework



A Proof of Concept (PoC) is a valuable tool for validating design concepts and assessing feasibility. Some of its key advantages are risk mitigation and potential issues identification. By testing the concept between at most three countries, we will uncover potential legal, technical or procedure hurdles.

Double Cornerstone Deliverables



By establishing a **well-defined shared Core LR Vocabulary**, we can safeguard semantic interoperability.

It ensures that different systems and applications can understand and interpret data in the same way, which facilitates the exchange of that data between different systems and organizations.

Also, it promotes consistent data modeling, reducing errors and improving data quality, so it enables seamless integration and collaboration.

The Final Word

The IMOLA project represents a **significant step towards overcoming the complexities associated with cross-border land registry interoperability** within the EU.

By establishing a **standardized document**, a **shared understanding of land register domain**, and **providing training materials and webservice**s, the project will streamline real estate transactions across member states.

The main technical challenges still lies in achieving a **common core vocabulary** widely used in this data space and a **tangible real-world application**.



Co-funded by the
European Union



Interoperability Model for Land Registers

Thank You!

<https://www.elra.eu>

<https://irn.justica.gov.pt>



Co-funded by the
European Union