

IMOLA: Objectives and evolution

IMOLA III results

Conclusions and next steps

Summary



Objectives

Common template The ELRD a semantic and interoperable artifact

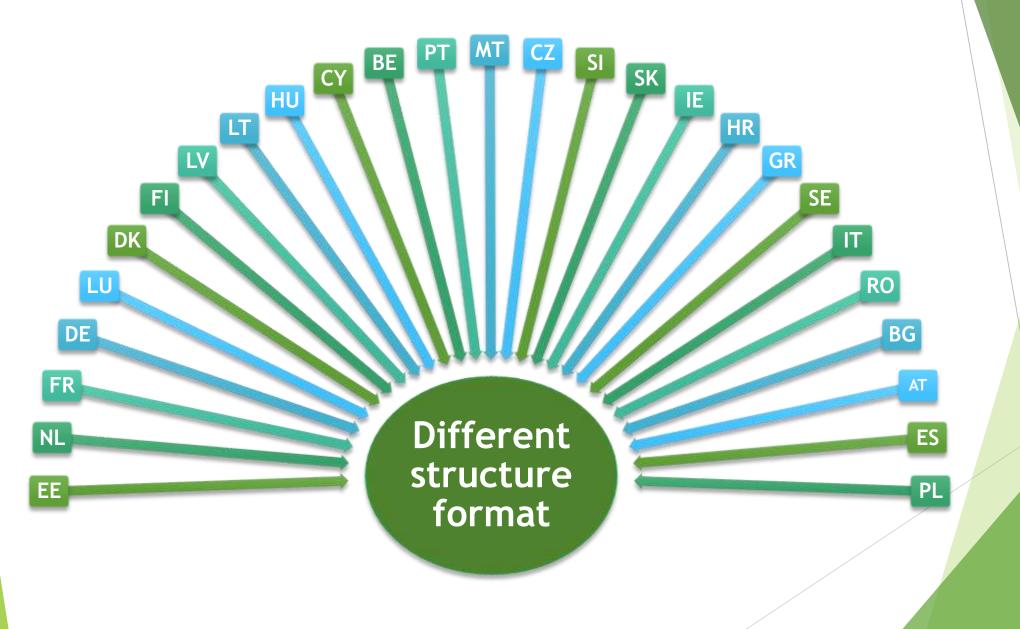
Land Registry Core Vocabulary (Corpus) Land Registers juridical ecosystem I.KOS

> IMOLA web multiuser platform Formal retrieval system



LR Information current situation

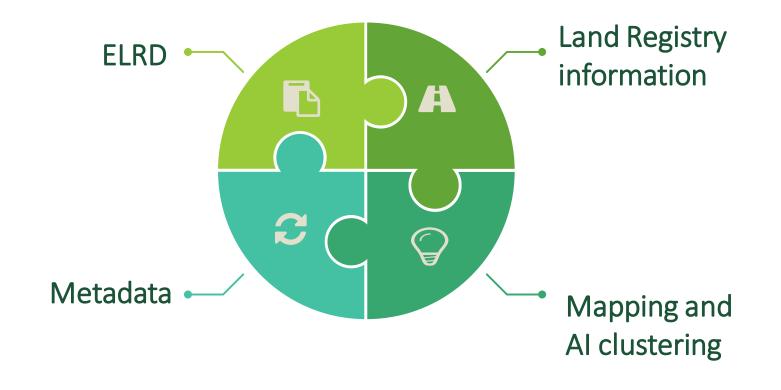
on Diversity





Harmonized and interoperable LR information

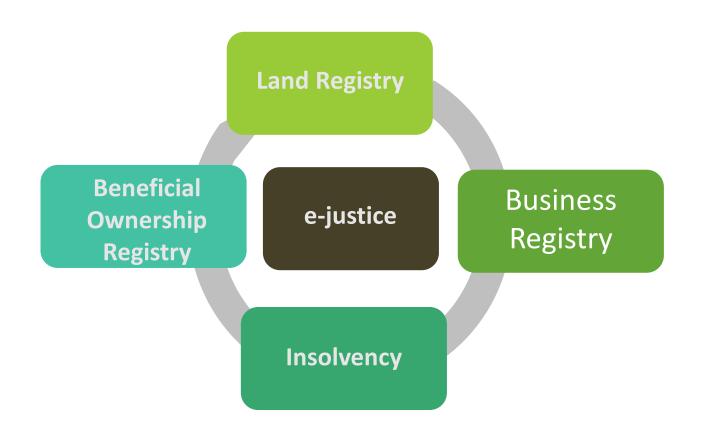
Harmonization

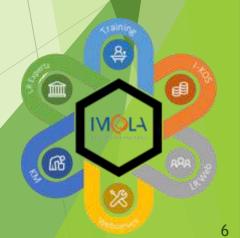




Juridical Registers Interconnection scheme

Interoperability
Circle of trust





Evolution

IMOLA I

• Consensus: A-B-C structure and glossary (bottom up project)

IMOLAII

ELRD ontology and first XSD/XML schema reusing ISA2 CVs

IMOLA III

- The consolidation
- Last stage of IMOLA approach...by the moment



Results

IMOLA I.KOS extended Corpus semantic Land Registers Core Vocabulary

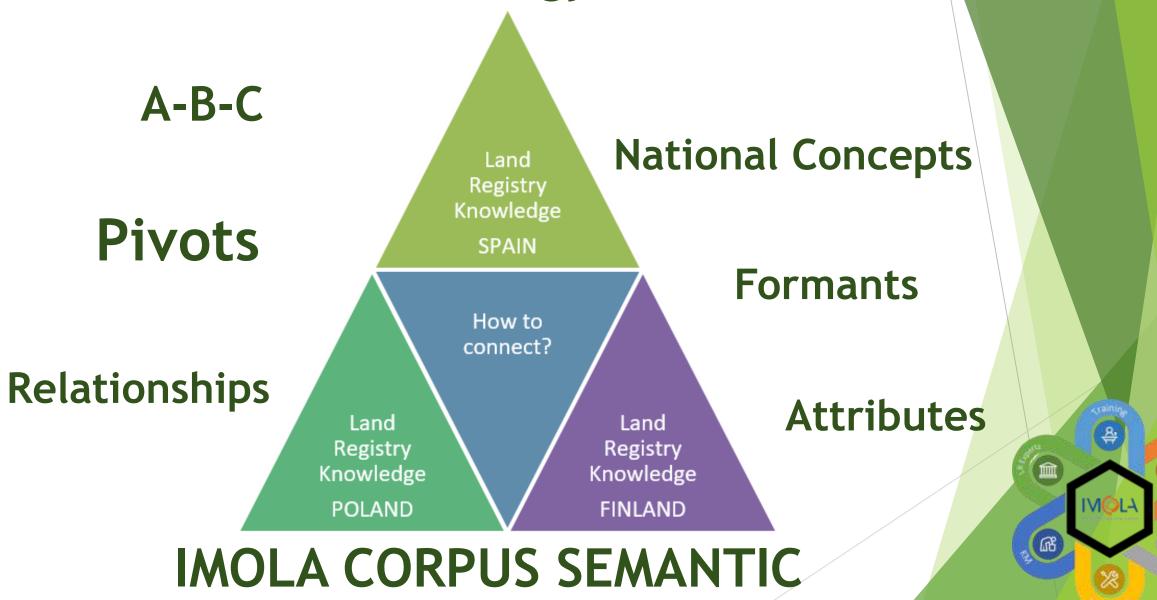
ELRD a semantic and interoperable artifact

IMOLA multiuser web platform and web services



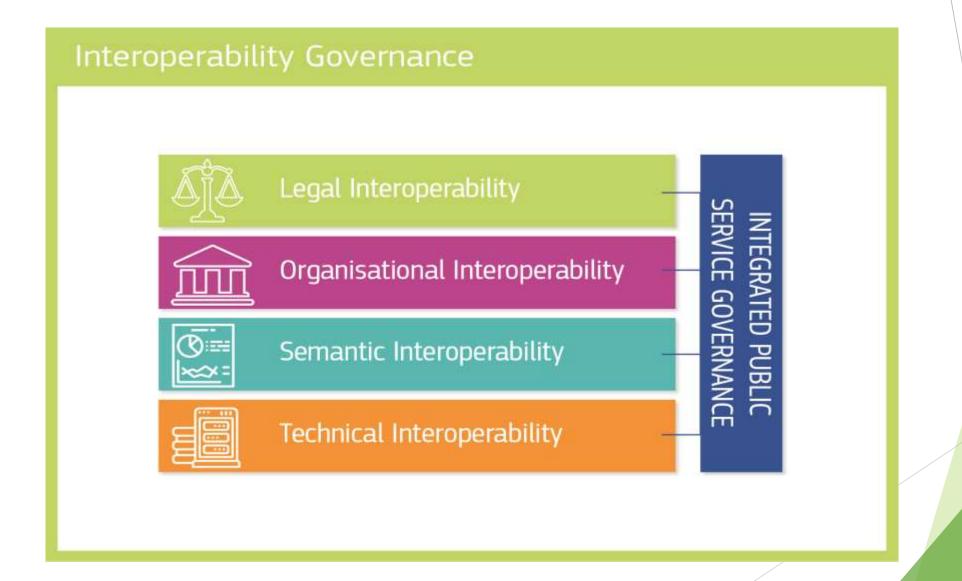
Bridging the diversity

ELRD: ontology structure



ELRD/EIF interoperability layers

ISA2 (EIF)





Land Registers Juridical ecosystem

Digital unique Gateway EU Regulation 2018/1724

European Land Registry Network

E-Justice Portal

Formants

Fact sheets

European Judicial Network

SEMIC ELRD community

Case Law

Semantic web

Comparatives

Adaptation principle

Attributes

INSPIRE glossary

Al clustering

Legislation

Vocabularies

ISA2 Core

ELRD I.KOS

European Interoperability Framework EIF

AML patterns

Environmental and public limitations

ELRD Semantic Structure Pattern

ELRD and National DB consolidation

Attributes assignation using Formants methodology

Mapping/Clustering

Trento University
Universidad Carlos III
Madrid

CASE METHOD

QUESTIONNAIRES

Yes/No ANSWER

FORMANTS

ATTRIBUTES

Land Hegistry formant

Legislative formant

Case loss (or judiciol) formant

Doctrinal formant

Pivot Terms

Identifier

Description

LR Domain

ISA2

INSPIRE

DOT (Document Operative Terms)

Relationships

Hierarchical

Associative

Synonym

National Concepts

Identifier

Description: English and Native Language

Mapping to Pivot Terms The Question

Identifier

Title

Usage Note

Meaning

The Answer: Attributes and formants

Answer

nes No

N/A

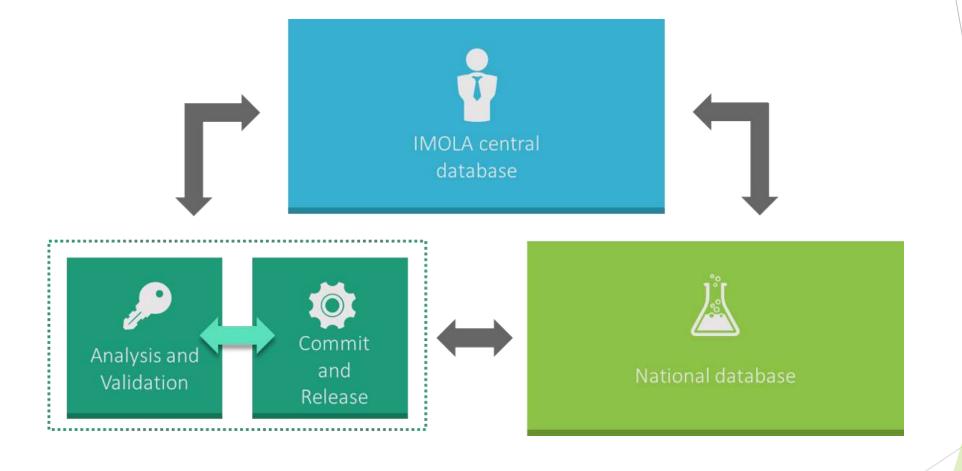
Formants rationale:

Legislative (ELI)
Judicial (ECLI)
Doctrine
LR Range

(Factsheets)

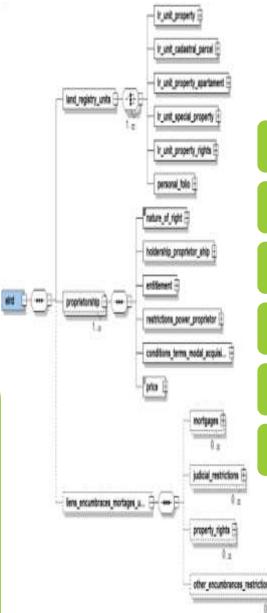
IMOLA RAPA RAPA

Quality of data





ELRD semantic artifact



ELRD and the interoperability layers

Pivots terms bridging the diversity

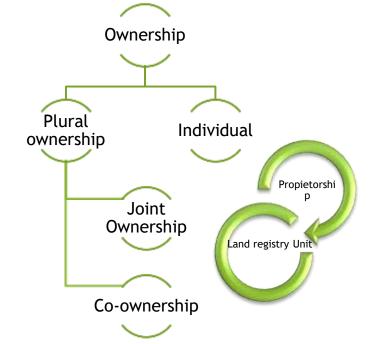
Reusing the European semantic building blocks

Connecting information stemming from different sources

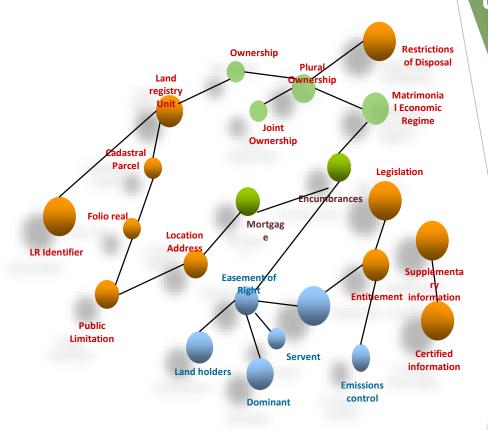
Interoperability and quality a trusted relationship

ELRD supporting Digital Transformation EU policy

Placeholder	National synonym	Rules on national descriptions
Immovable property	Bien Inmueble	Article 334 of the Spanish Civil Code. The following are immovable property: 1. Land, buildings, roads and constructions of all kinds which are joined to the ground. 2. Trees and plants and pending fruits, while they are joined to the earth or form integral part of an immovable property on a fixed basis, so that it cannot be separated therefrom without breaking the material or impaining the object. 4. Statues, reliefs, paintings or other objects of use or ornamentation, placed on buildings or on land by the owner of the immovable property, in such a way that reveals the purpose of uniting them to the land on a permanent basis. 5. Machines, vessels, instruments or utensits destined by the owner of the property to the industry or undertaking performed in the building or landed property, and which are directly destined to satisfy the needs of the undertaking itself. 6. Animal farms, dovecotes, beehives, fish tanks or analogous hatcheries, when the owner has placed or preserved them for the purpose of keeping them joined to the property or forming part thereof on a permanent basis. 7. Fertilisers destined for the cultivation of landed property, located in the land where it is to be used. 8. Mines, quarries and dumps, while their matter remains joined to the source, and flowing or stagnant waters. 9. Docks and constructions which, even if they float, are destined, as a result of their purpose and conditions, to remain in a fixed point of the river, lake or coast. 10. Administrative concessions to perform public works, and easements and other rights in rem pertaining to immovable property. They are not considered inmovable nor the boats, the planes or the wind milds neither the manufactured homes.
Full ownership (replacing the English legal term Freehold)	Pleno Dominio	Pleno dominio means full ownership related to real estates, notwithstanding in case of condominium of apartments, owners are subjected by important legal limitations, obligations and duties which condition the right of disposal, given the specific legal features of this special community.

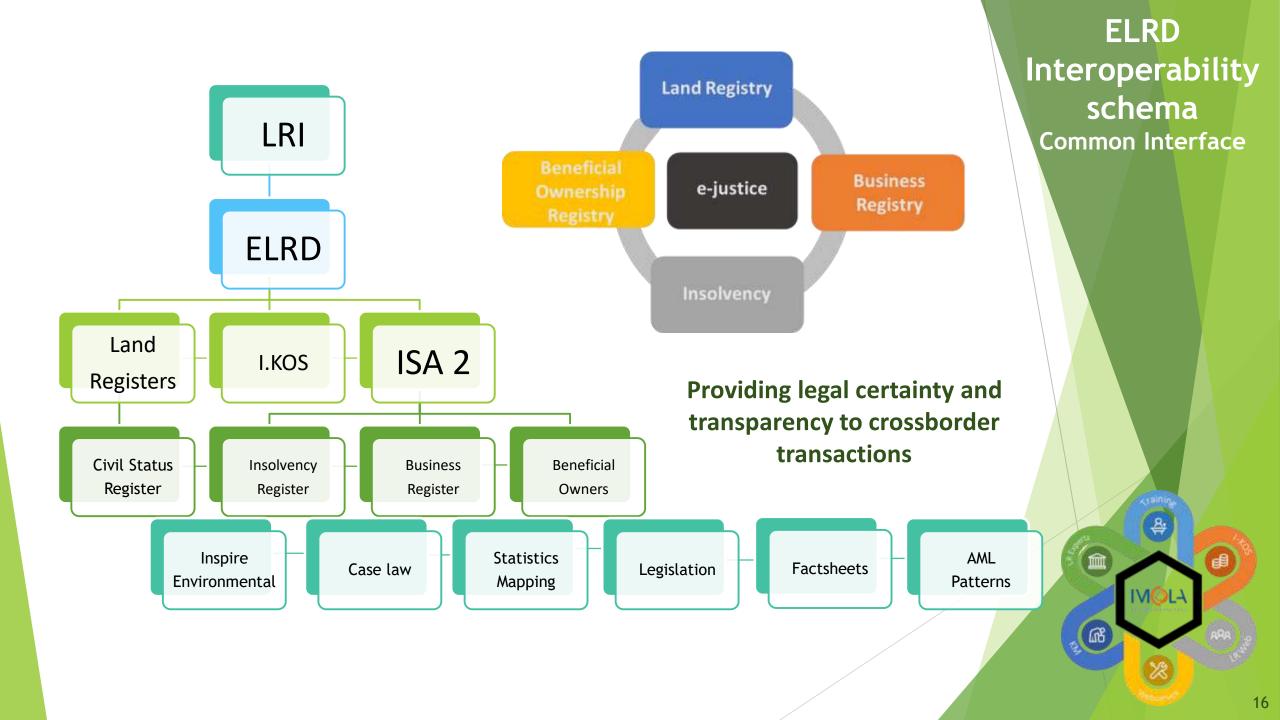


Digital Justice transformation



- Retrieval and visualization
- Adaptation principle
- Cross border decision support
- Mapping EU property rights













Diverse stakeholders

- -Languages
- -Legal systems
- -Culture

New domain

- -Previous background in Systems Engineering
- -Experience from legal sentences processing

Interconnection challenges with diverse legal systems

- -Payment
- -Gateways
- -Authorization
- -New paradigm

Keeping the net active

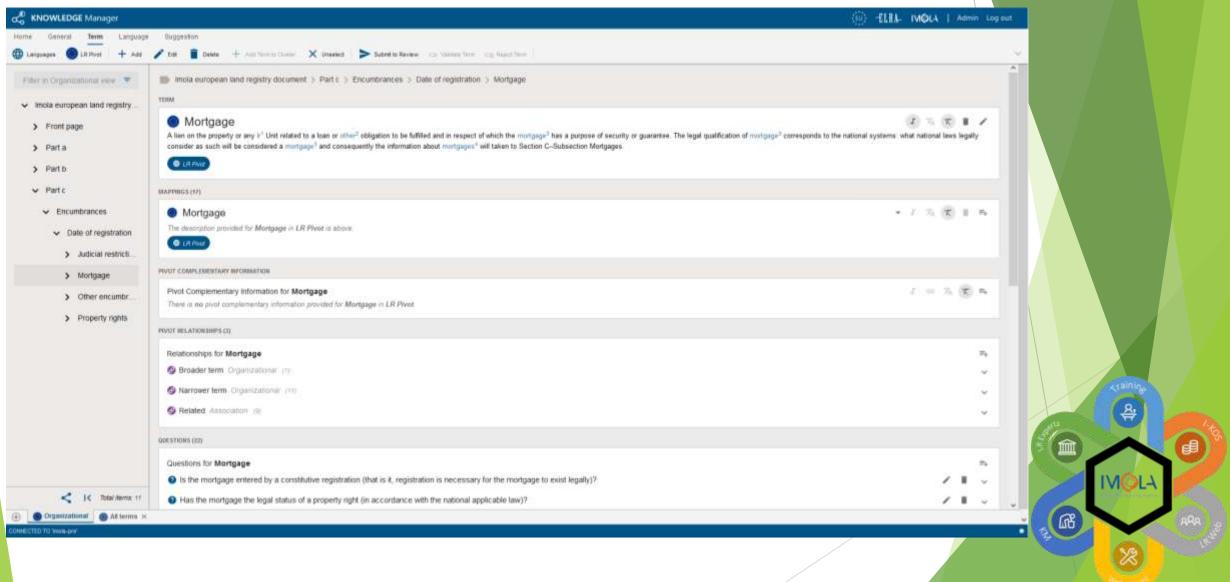
- -Commitment
- -eLearning
- -Breakouts





ELRN input system

I-KOS Knowledge Manager



Automatic Al Indexing

Clustering Mapping



As the matter of Part C, encumbrances¹ generally are burdens, constraints or impediments falling on the properties or ir² Units. encumbrances¹ can mean restrictions³ on the use, on the proprietor's powers of transfer, on the possession, or involve liabilities to which the properties are subject. They can be property rights⁴ or rights in rem, mortgages, judicial or administrative⁵ restrictions³ and any other⁶ type of constraints or limitations related to the properties. Strictly speaking encumbrances¹ can be considered a synonym of burdens.



Land registry unit

A entity to which a ir¹ system grants a register number² or title number³ for creating a specific registry history and organizing the registrations related to it. It may include those cases of provisional or transitional registrations admitted in a given registration⁴ system as long as they have a specific register number² and registry history.

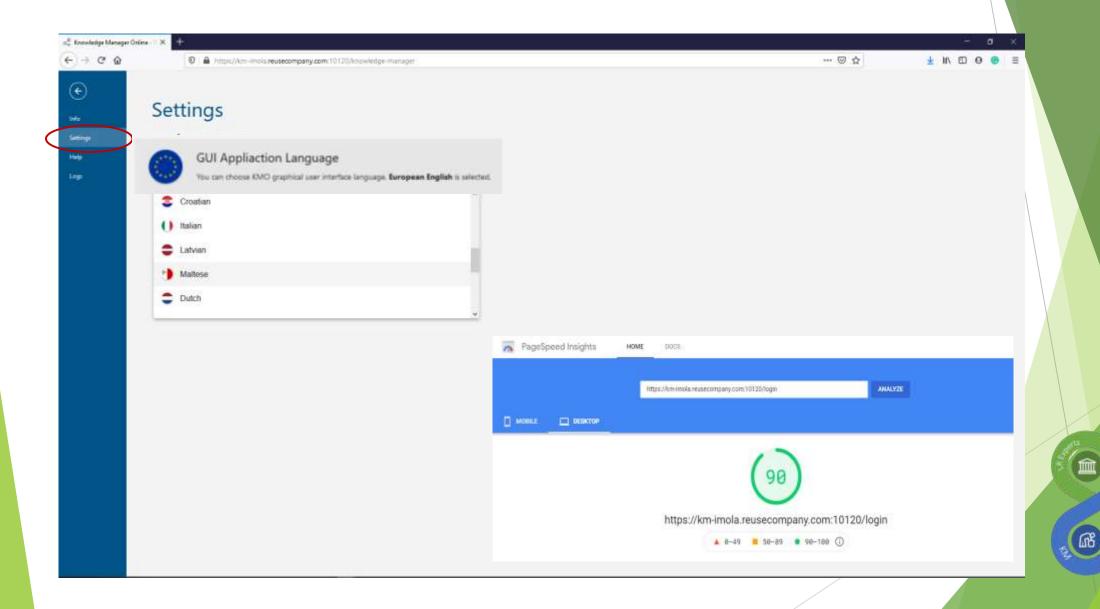




Regulation (EU) No 650/2012 — succession¹ and the European Certificate of succession¹ — Scope — Immovable property located in a Member State in which legacies 'per vindicationem' do not exist — Refusal to recognise the material effects of such a legacy. JUDGMENT OF THE court² (Second Chamber). C-218/2016 Aleksandra Kubicka. RESULT: Article 1(2)(k) and (l) and Article 31 of Regulation (EU) No 650/2012 of the European Parliament and of the Council of 4 July 2012 on jurisdiction, applicable law, recognition and enforcement³ of decisions and acceptance and enforcement³ of authentic instruments in matters of succession¹ and on the creation of a European Certificate of succession¹ must be interpreted as precluding refusal, by an authority⁶ of a Member State, to recognise the material effects of a legacy 'by vindication', provided for by the law governing succession¹ chosen by the testator in accordance with Article 22(1) of that regulation, where that refusal is based on the ground that the legacy concerns the right of ownership⁵ of immovable property located in that Member State, whose law does not provide for legacies with direct material effect when succession¹ takes place.

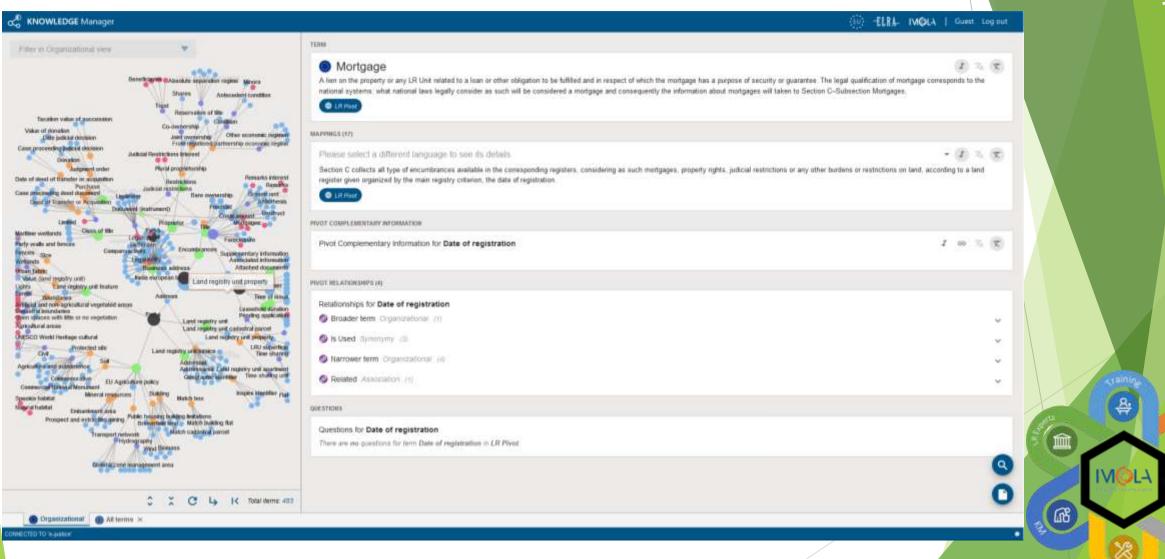






I-KOS eJustice entry point

Legal certainty



AML patterns

Reusing ELRD pivots applying AI:

- Tax heavens
- Suspicious transactions
- Mortgages



AML patterns: ELRD pivots

Tax heavens

- Natural person nationality
- Natural person residence
- Natural person representative nationality
- Natural person representative residence
- Registration country
- Legal entity representative nationality
- Legal entity representative residence
- Transferor nationality
- Transferor residence
- Trustor nationality
- Trustor residence
- Trustee nationality
- Trustee residence
- Beneficiary nationality
- Beneficiary residence
- Trust applicable law
- Country of fund's origin
- Legal entity Legal name
- Legal entity Legal identifier
- Natural person full name
- Natural person identifier
- Natural Person date of birth
- Deed of transfer
- Governmental act
- Judgement order

Suspicious Transactions

- Value
- Taxation value
- Price
- Payment
- Cash
- Money
- Transfer
- Bank order
- Bank check
- Compensation
- Electronic money
- Virtual currencies
- Date
- Deferred payment (months)
- Credit amount
- Call option
- Preemptive right

- - Credit amountDeadline of credit
 - Deadline of mortgage

Mortgages

- Mortgage deed date
- Mortgagee
- Mortgagor
- Notary







AML patterns triggered XML

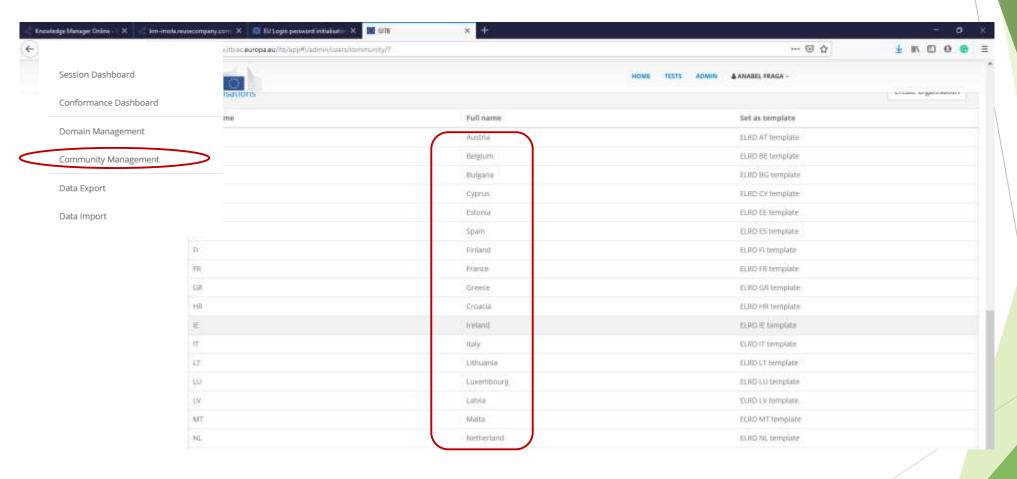
AML warning

```
<?xml version="1.0" encoding="UTF-8"?>
<ArrayOfAMLWarning xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <AMLWarning>
   <type>Tax Heavens</type>
   <message>Element: registrationCountry contains country: Bahamas which is registered as a Tax Heaven/message>
   <landRegistryUnitIdentifier>100</landRegistryUnitIdentifier>
 </AMLWarning>
 <AMLWarning>
   <type>Tax Heavens</type>
   <message>Element: registrationCountry contains country: Andorra which is registered as a Tax Heaven</message>
   <landRegistryUnitIdentifier>100</landRegistryUnitIdentifier>
  </AMLWarning>
  <AMLWarning>
   <type>Tax Heavens</type>
   <message>Element: trustorCountryResidency contains country: Greenland which is registered as a Tax Heaven</message>
   <landRegistryUnitIdentifier>100</landRegistryUnitIdentifier>
 </AMLWarning>
  <AMLWarning>
   <type>Tax Heavens</type>
   <message>Element: trusteeCountryResidency contains country: HongKongSAR which is registered as a Tax Heaven</message>
   <landRegistryUnitIdentifier>100</landRegistryUnitIdentifier>
 </AMLWarning>
  <AMLWarning>
   <type>Tax Heavens</type>
   <message>Element: trusteeCountryResidency contains country: Iraq which is registered as a Tax Heaven</message>
   <landRegistryUnitIdentifier>100</landRegistryUnitIdentifier>
 </AMLWarning>
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```



Test Bed improvements (Community)

ELRD community







ELRN

Multidisciplinary Collaborative environment

LRI digital transformation commitment

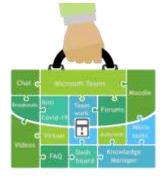
Team up together



Methodology: Facilitated vs self-paced

Online discussions









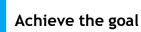
Virtual classes

A virtual classroom is the instructional method most similar

to traditional classroom training,

as it is led

completely by an



Get the knowledge needed and the skills to perform the I-KOS management.

Mentoring

Human and social

dimensions offered

for learning to

learners to support

them through the

learning experience.

Collaborative activities range from discussions and knowledge-sharing to working together on a common project. Social software, such as chats, discussion forums and blogs, are used for online collaboration among

Collaborative

learners.

Synchronous

- > Chat and IM
- > Video and audio conference
- > Live webcasting
- > Application sharing

Asynchronous

- > E-mail
- > Discussion forum
 - > Wiki
 - > Blog
 - > Webcasting

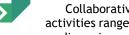


Training

e-Learning



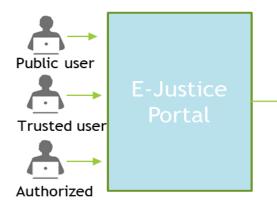
content, videos.



instructor. > Whiteboard > Polling

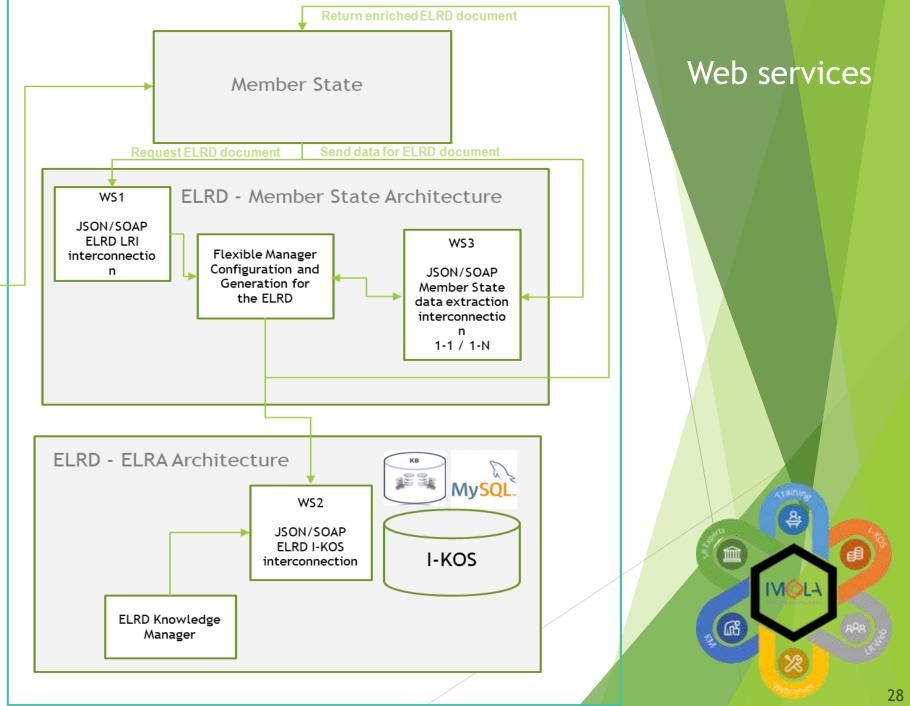
Collaboration

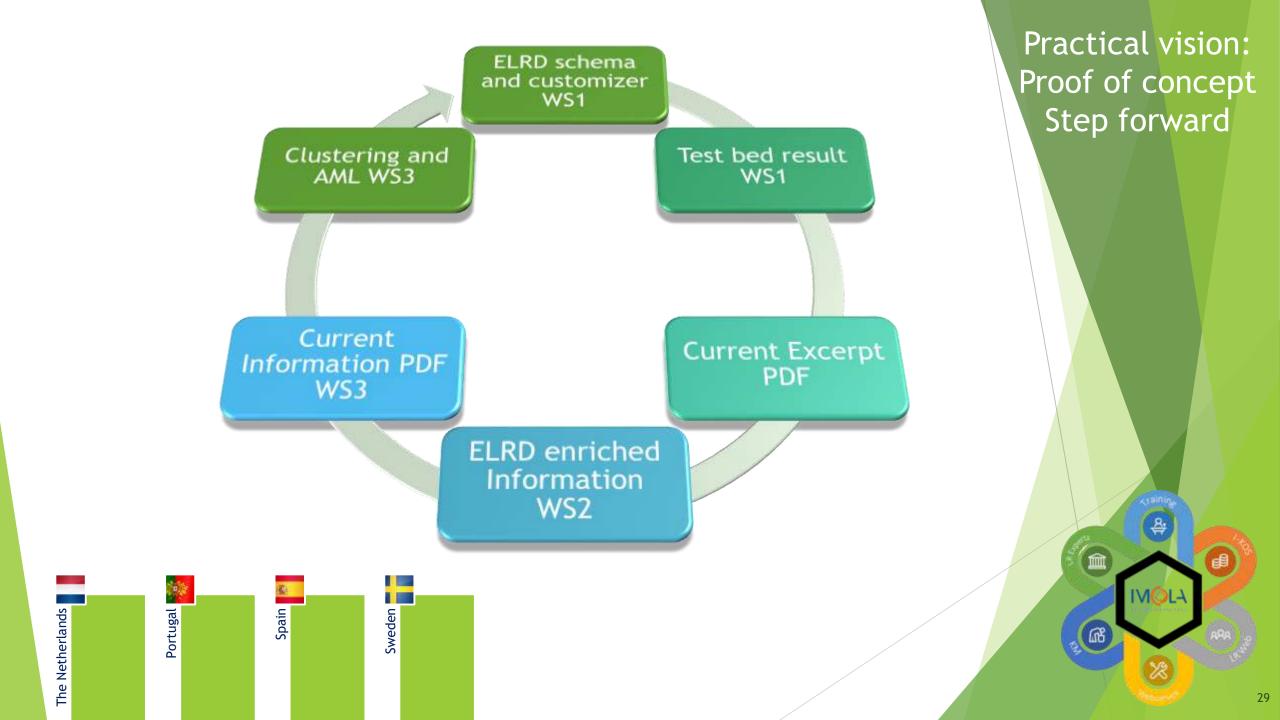
WS1: ELRD-LRI Interconnection request and customizer



WS2: ELRD-I.KOS
Interconnection and
metadata enrichment

WS3: ELRD-data extraction interconnection and AML patterns





Conclusions

Mirroring

Neutrality

Transparency

Interoperability

Scalability



IMOLA III

- Keep updated ELRD schema and I.KOS metadata: ELRN and ELRA back-office
- Member States technical adaptation: Matching methodology and integration of data
- EU Commission: LRI legislative background:
 - Legal framework and common set of data
 - Digital identity and attributes (e.IDAS)
 - Digital wallet
- EU/MSs: Digital transformation uptake: E-learning and training
- EU/MSs: Cooperation: Converging objectives on LRI

Next steps

Digitalisation of Justice communication 2/12/2020











Team up together! Together we are Europe!