

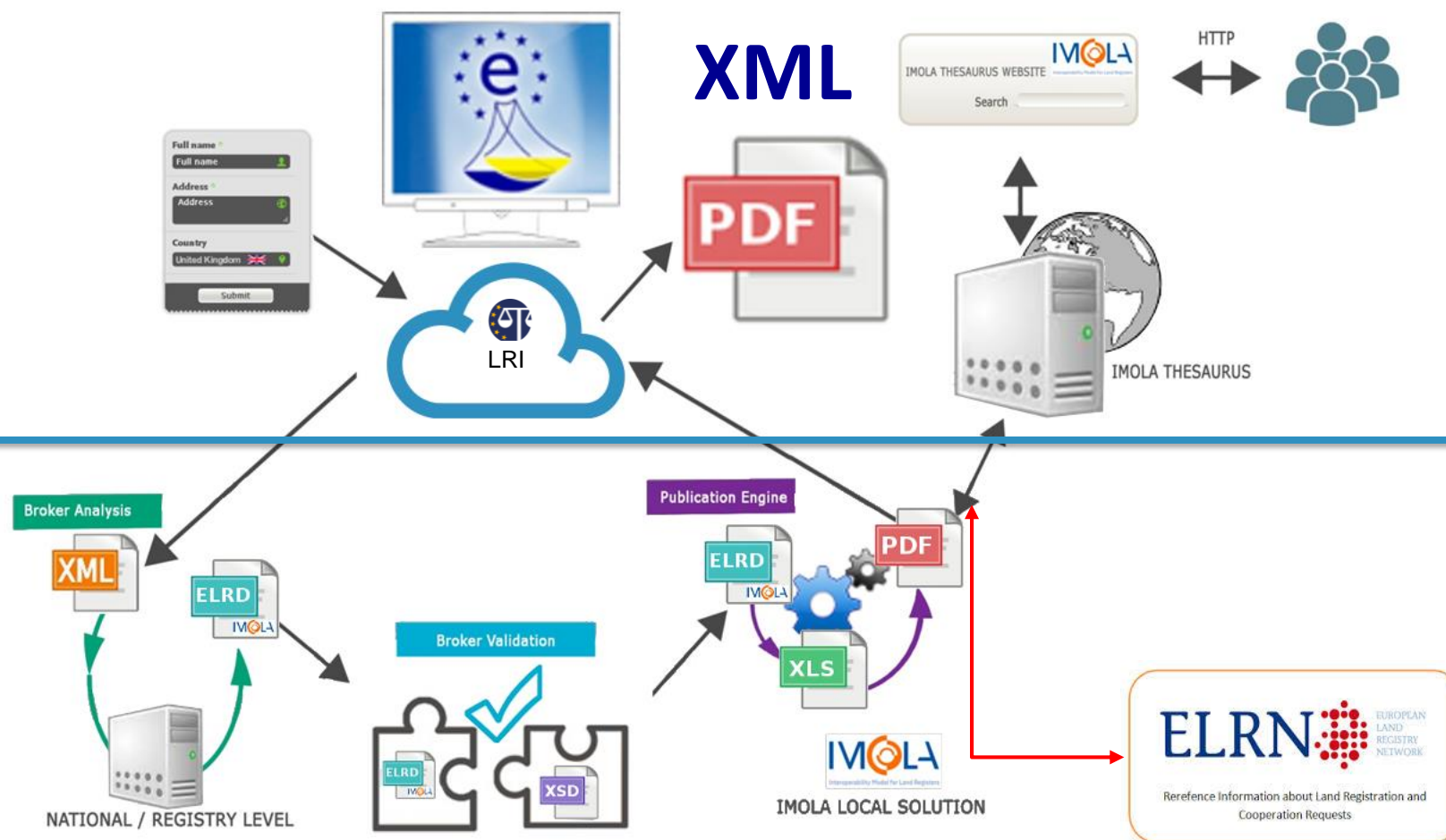


# Global Visión of IMOLA Project: objectives and results

Kick off Conference, Brussels 28th February 2018

Jesús Camy Escobar (Project Manager)

# LRI/LRS/IMOLA integration schema



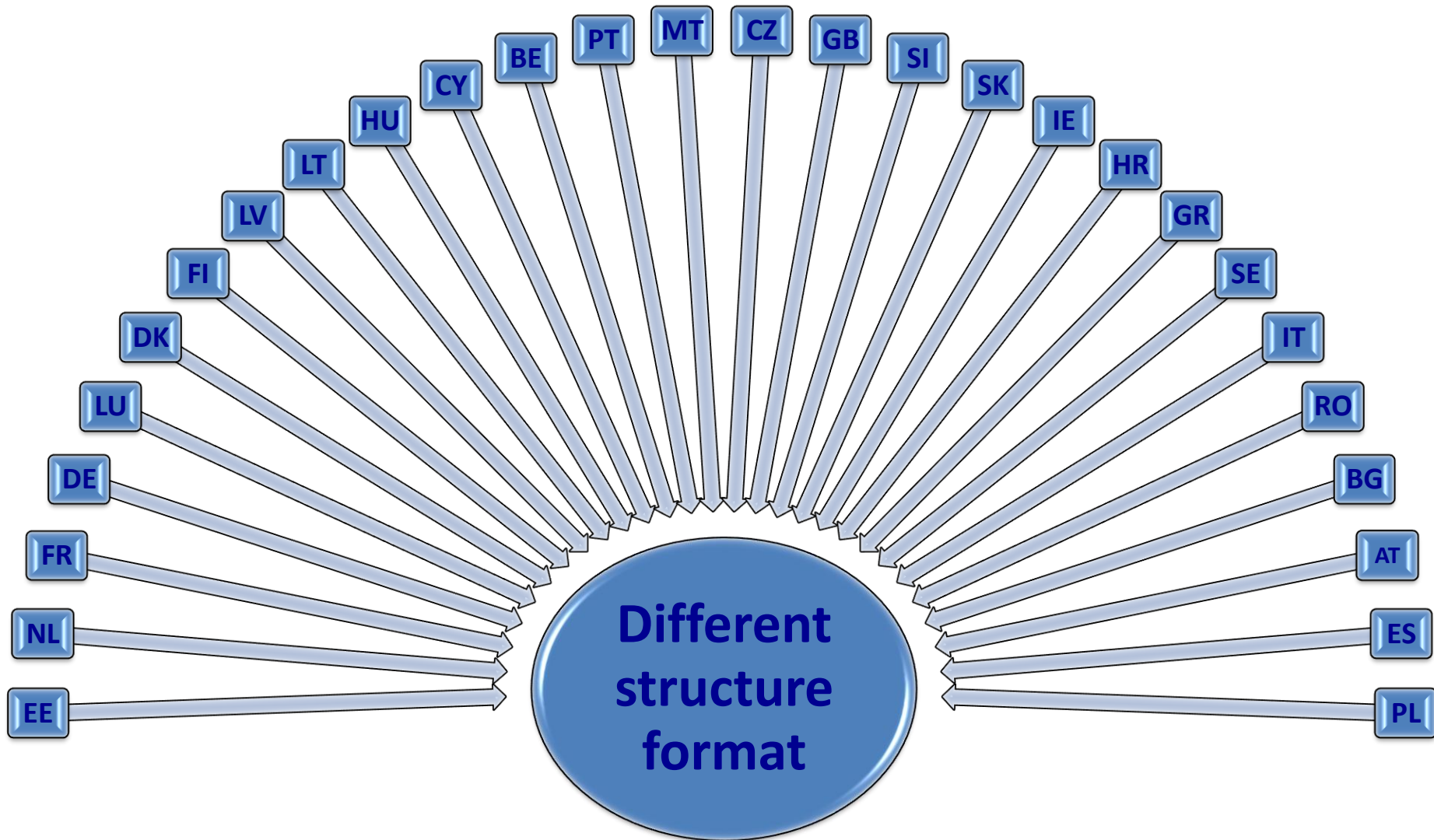
# Objectives

**Exchange information on the framework of LR systems, according to a shared data model integrated on e-Justice**

**Descriptive metadata to characterize the content of the information objects of the LR systems**

**Concept scheme to map European property rights systems**

# LR information: current situation



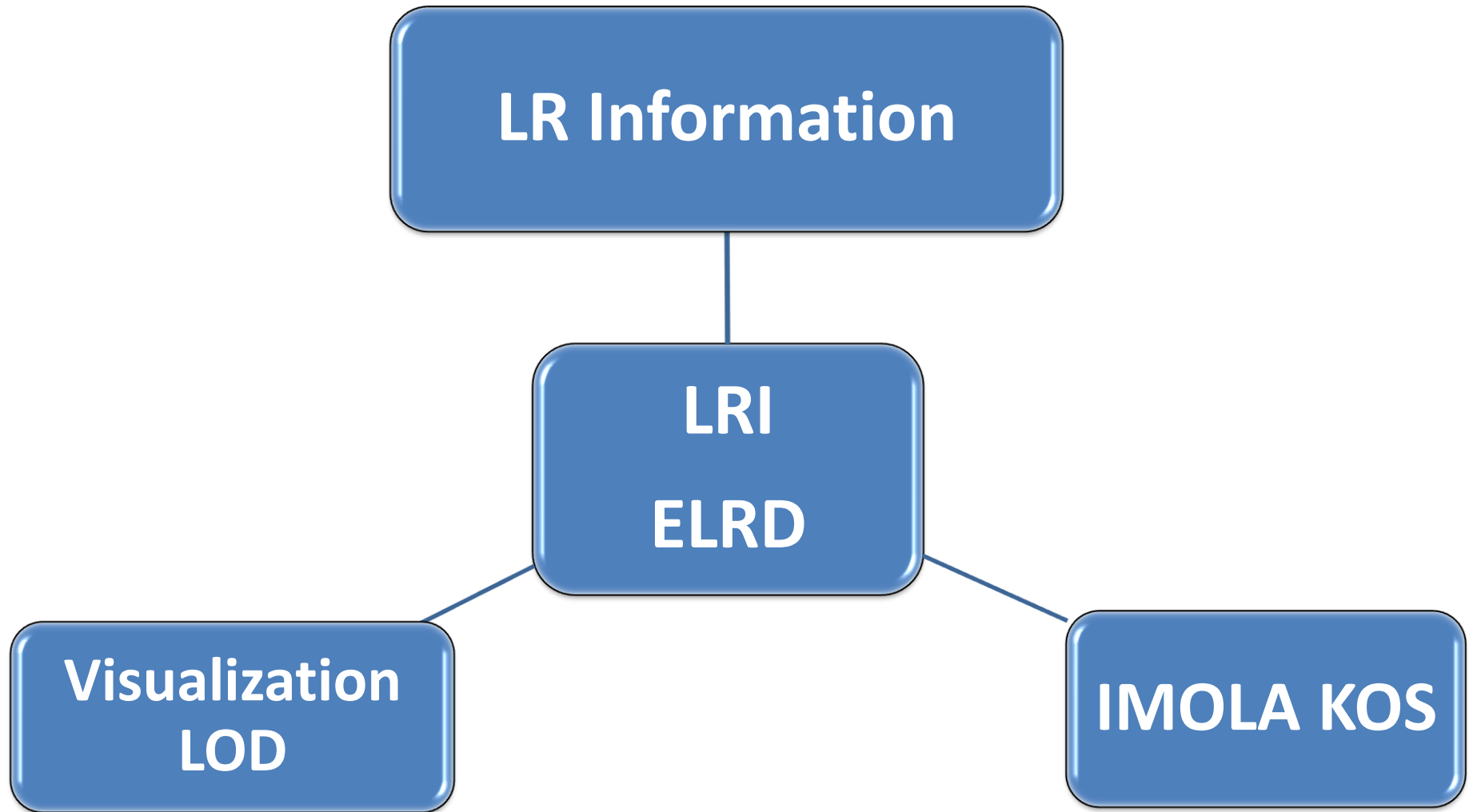
# Results

**ELRD XSD: common template**

**IMOLA KOS: reference information**

**IMOLA WS: data interoperability**

# LRI/ELRD common template + metadata



# LRI/IMOLA/LRS COMPARATIVE

## LRS

National  
connector

National interface

PAS

Payment

## LRI

Single access

Search Interfaces

Authentication

Payment/Tax  
Calculation

## IMOLA

ELRD

IMOLA KOS

Formal retrieval

ELRN/Input  
System

# ELRD Integration

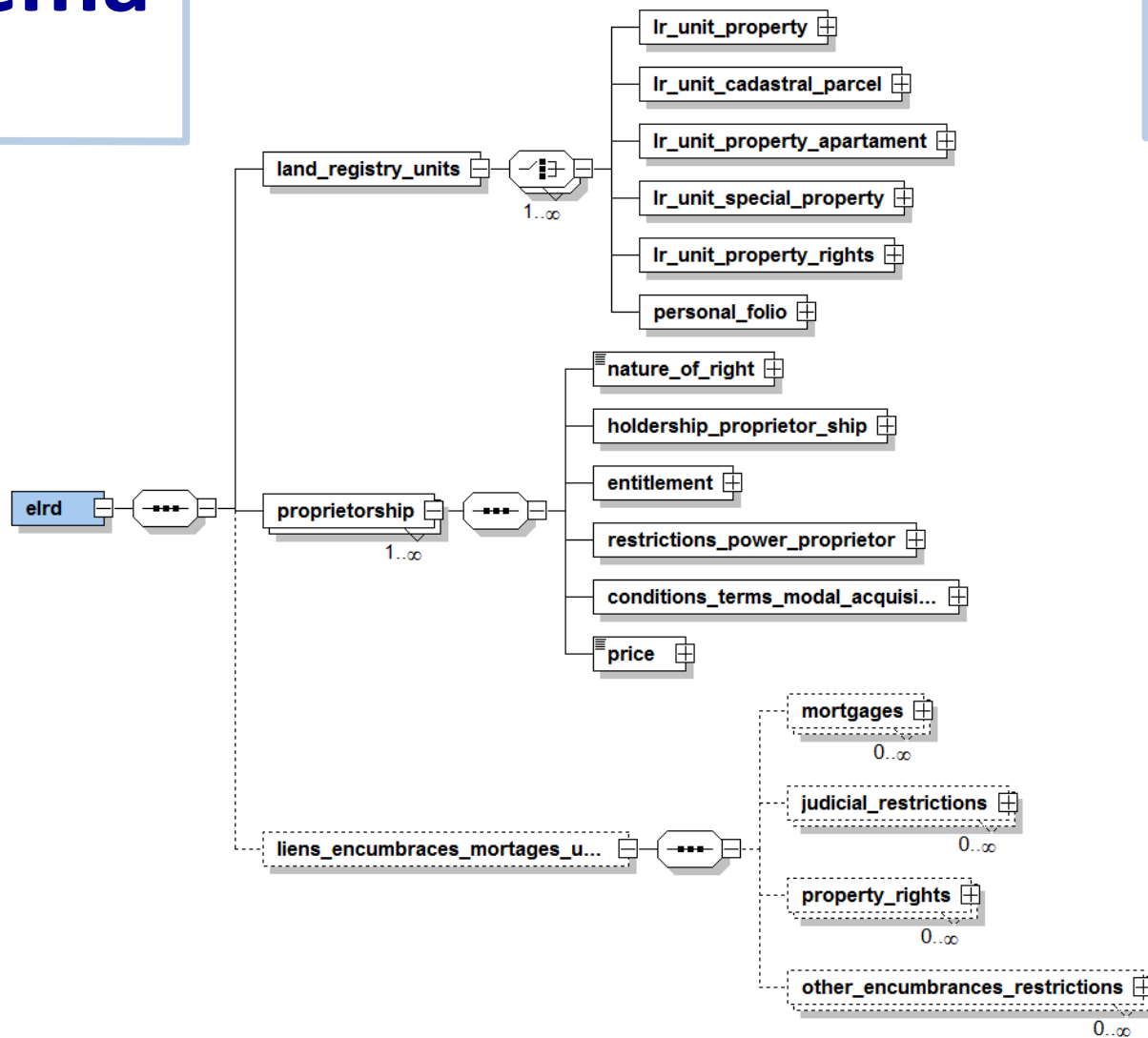
**LRI: ELRD definition on messaging and communication model. Different formats: PDF, XML, etc**

**LRS: integration XSD into national broker.**

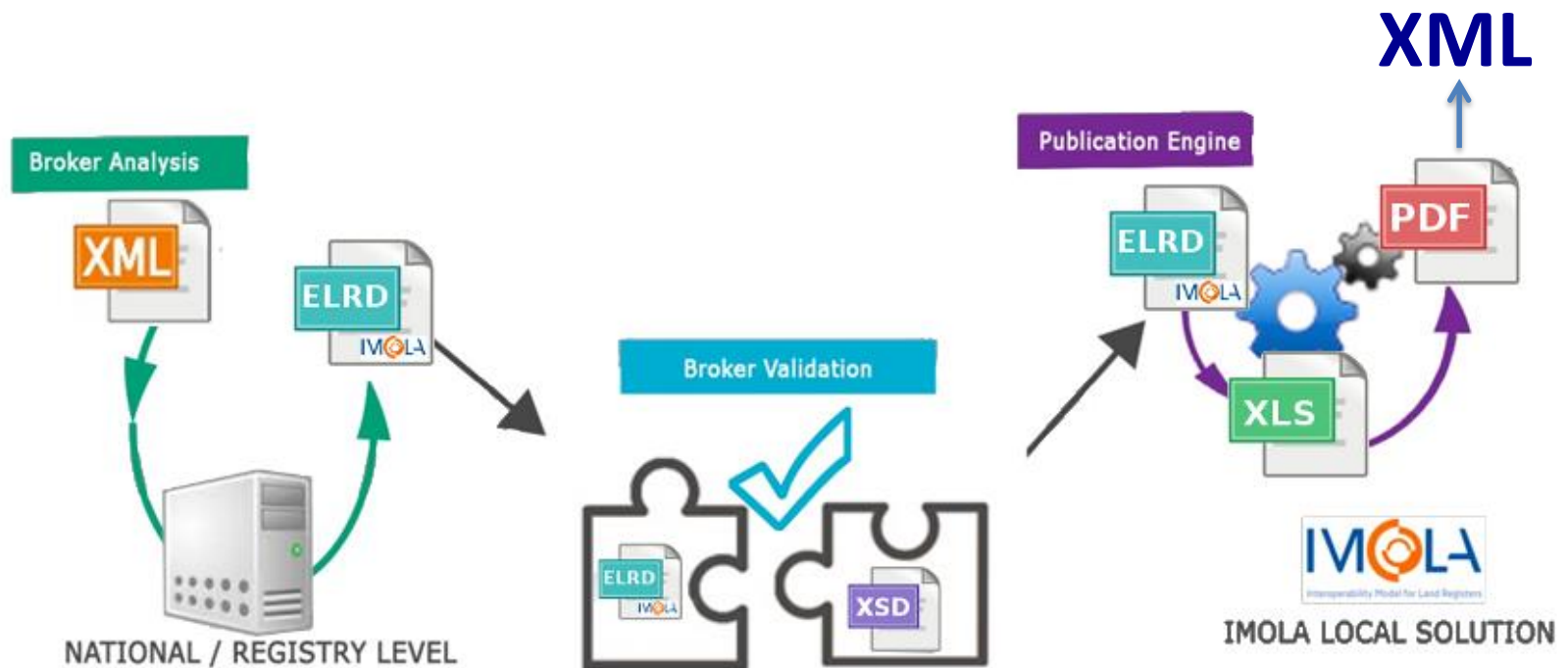
**LRS: adaptation internal interfaces. Configurable set of validation rules.**

**ISA alignment**

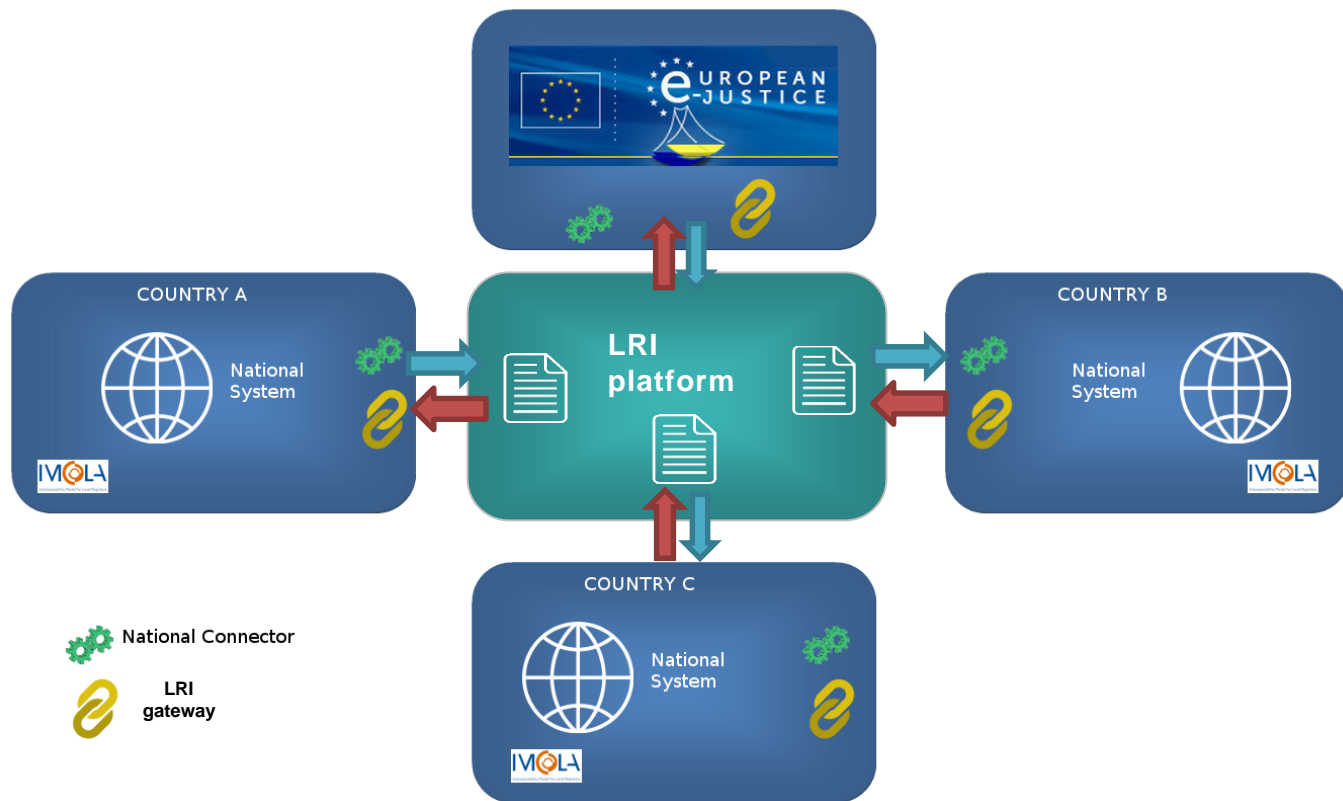
# XML Schema



# LRI/IMOLA GetDocument broker



# LRI/LRS/ELRD flow



# Interoperability

## Standard alignment with ISA and Core Vocabularies

### CORE PERSON V

- Name
- Gender
- Date of birth
- ...

### LEGAL PERSON V

- Identifier
- Activities
- ...

### CORE LOCATION

- Address
- A geographic name or geometry
- ...

### IMOLA CORE V

- LRI property rights
- Semantic model
- Thesaurus

### PUBLIC SERVICE V

- Service offered by a public administration

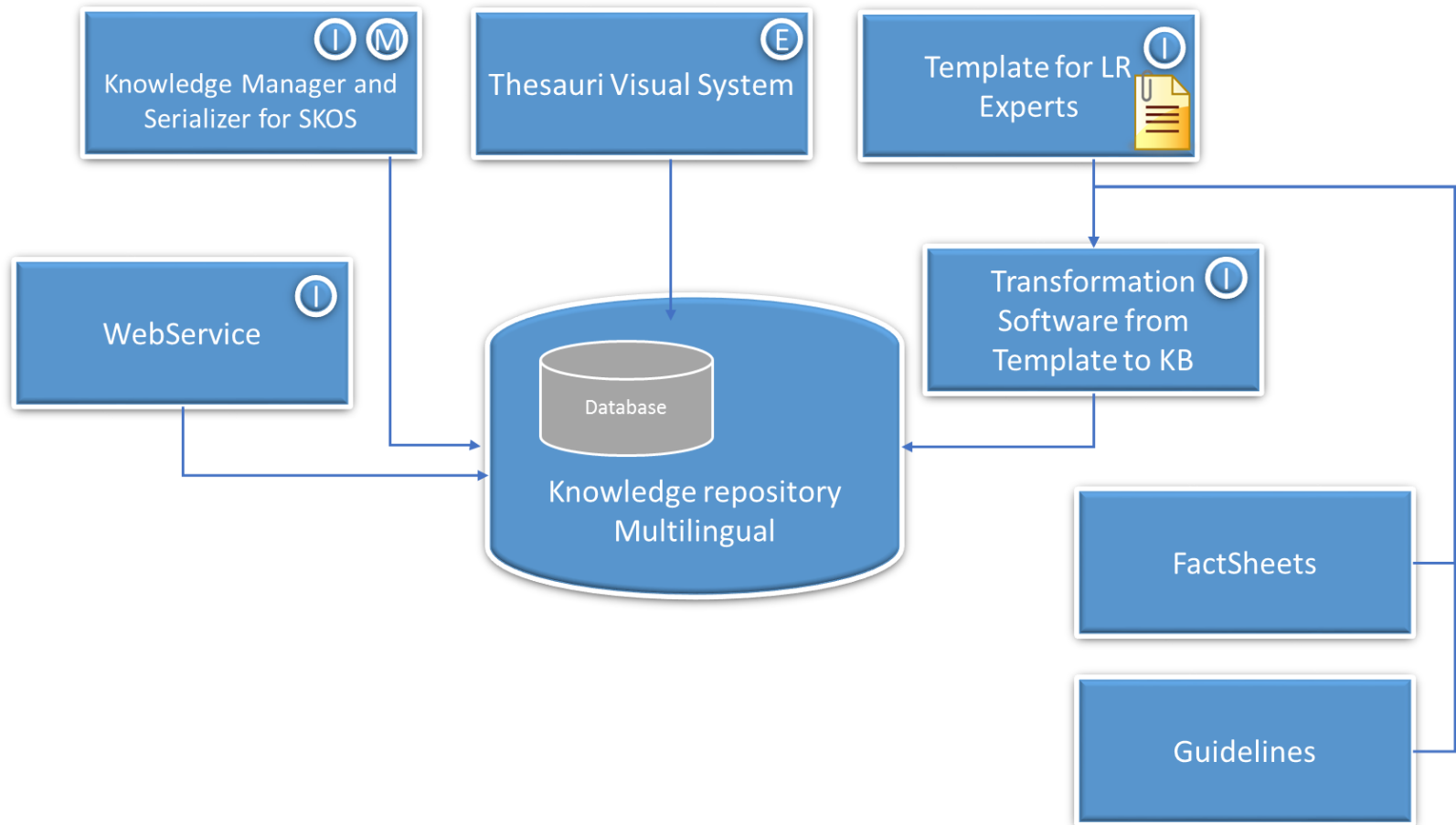
# IMOLA KOS Integration

**Creation KOS by means of input and transformation system**

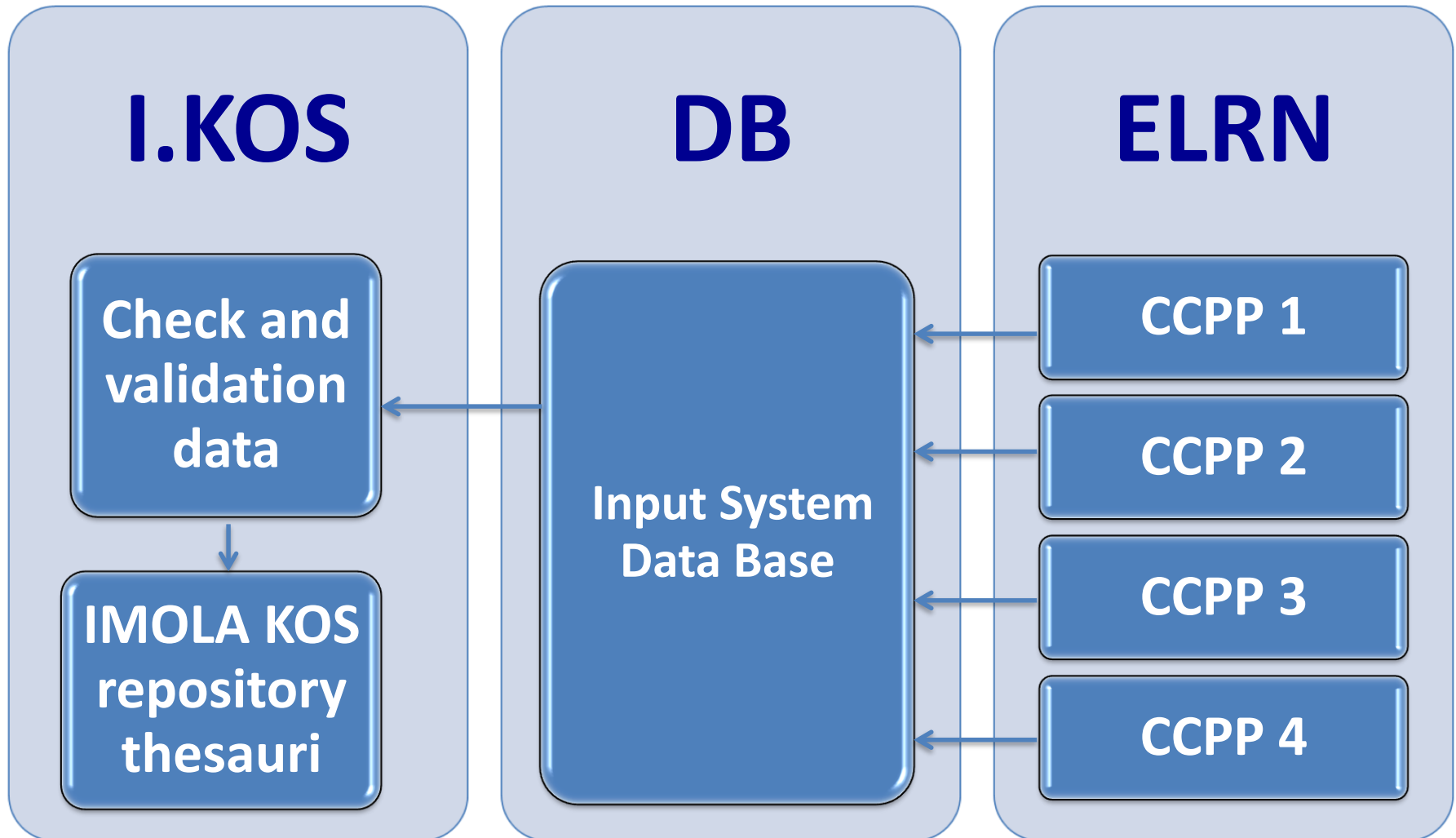
**KOS Customized to ELRD**

**Hosting and maintenance**

# ELRN Input system



# IMOLA KOS feedback



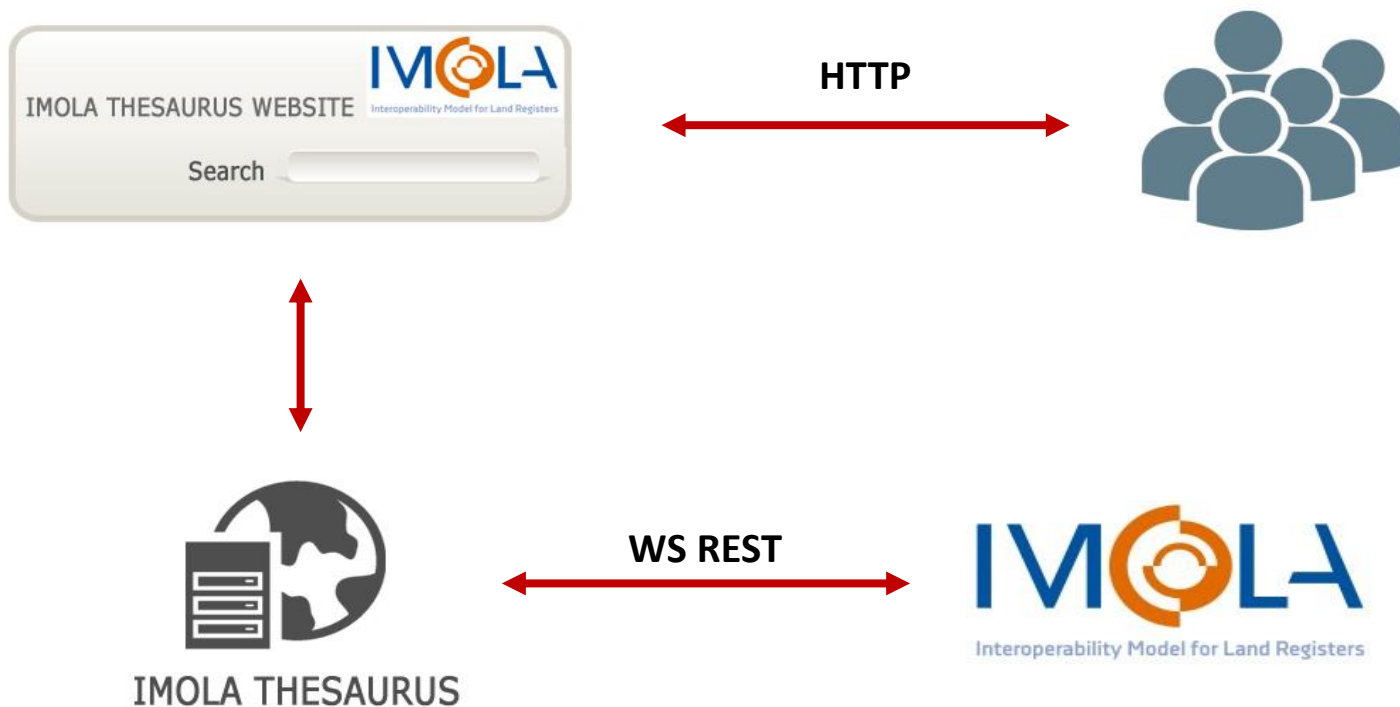
# WS Integration

**LRI: formal retrieval and visualization system**

**Definition of messaging and communication model**

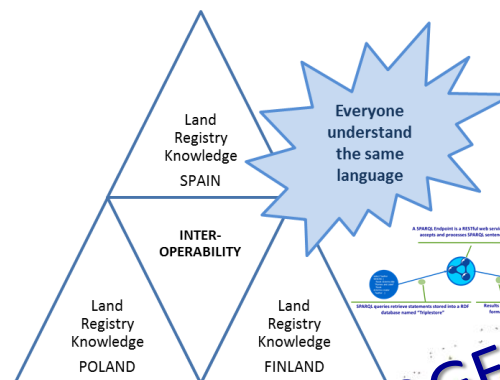
**Land Registers: Interface adaptation.**

# IMOLA KOS formal retrieval



# Glosary and Knowledge Repository

Placeholder	National synonym	Rules on national descriptions
Immovable property [1]*	Bien Inmueble	<p>Article 334 of the Spanish Civil Code.. The following are immovable property:</p> <ol style="list-style-type: none"> <li>1. Land, buildings, roads and constructions of all kinds which are joined to the ground.</li> <li>2. Trees and plants and pending fruits, while they are joined to the earth or form integral part of an immovable property.</li> <li>3. Anything which is joined to an immovable property on a fixed basis, so that it cannot be separated therefrom without breaking the material or impairing the object.</li> <li>4. Statues, reliefs, paintings or other objects of use or ornamentation, placed on buildings or on land by the owner of an immovable property, in such a way that reveals the purpose of uniting them to the land on a permanent basis.</li> <li>5. Machines, vessels, instruments or utensils 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.</li> <li>6. Animal farms, dove cotes, 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.</li> <li>7. Fertilisers destined for the cultivation of landed property, located in the land where it is to be used.</li> <li>8. Mines, quarries and dumps, while their matter remains joined to the source, and flowing or stagnant waters.</li> <li>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.</li> <li>10. Administrative concessions to perform public works, and easements and other rights in rem pertaining to immovable property.</li> </ol> <p>They are not considered immovable nor the boats, the planes or the wind mills neither the manufactured homes.</p>
Full ownership [replacing the English legal term Freehold ]	Pleno Dominio	<p><i>Pleno dominio</i> 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</p>



KNOWLEDGE STRATEGY  
INTEROPERABILITY

## Messaging model

- Document defining WS messaging and communication model
- Coordination among constructor, LRI developer and LR technical teams.

## LRI integration test

- Hosting and maintenance
- Integration test of ELRN input system
- Integration test of formal retrieval on LRI demo platform
- Integration test of IMOLA KOS visualization system on LRI interfaces

## LRS XSD adaptations

- Define a coordination framework with LRS, (AT/EE project)
- ELRD/XSD integration/adaptation at national level
- Integration test on LRI demo platform

# KCS activities

## Assessment

- IMOLA KOS and technical system requirements
- Integration with e.Justice and ELRD

## Design

- Input system for CCPP transformation software to KB
- Transformation software for input data (corpus) to KB
- Serialized KOS vocabulary into RDF formal serialization

## Construct

- Input system
- IMOLA KOS customized to ELRD
- IMOLA WS/visualization system





**Many Thanks**