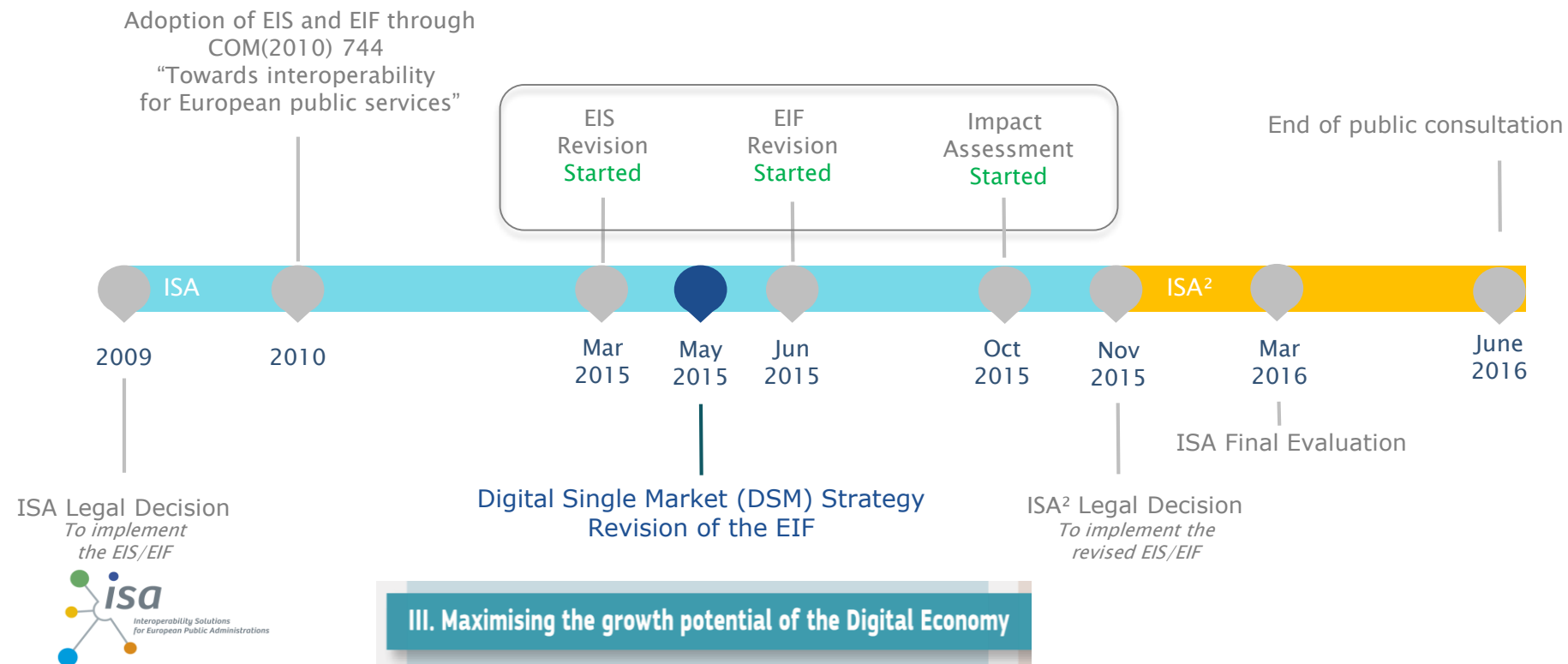# European Interoperability Framework (EIF) and common specifications

Ioannis Sagias, European Commission
Ignacio Boixo, CEN workshop on XBRL

Context &background

Adoption of EIS and EIF through
COM(2010) 744
"Towards interoperability
for European public services"

End of public consultation

EIS
Revision
Started

EIF
Revision
Started

Impact
Assessment
Started

ISA

ISA²

2009   2010   Mar   May   Jun   Oct   Nov   Mar   June
                    2015   2015   2015   2015   2015   2016   2016

ISA Legal Decision
*To implement
the EIS/EIF*

ISA Final Evaluation

Digital Single Market (DSM) Strategy
Revision of the EIF

ISA² Legal Decision
*To implement the
revised EIS/EIF*

III. Maximising the growth potential of the Digital Economy

Adoption of a **Priority ICT
Standards Plan** and extending
the **European Interoperability
Framework** for public services

EIF revision: why?

Alignment with policy development	Extend and align with emerging trends	More focus on EIF implementation
› Policies having a strong linkage with IOP have been either recently launched (e.g. DSM strategy) or revised (e.g. PSI Directive).	› Include the European Reference Interoperability Architecture (EIRA) and Cartography (EIC) › ICT (e.g. Cloud) › Information management (e.g. Big data, Open data) › Security › Organisational and governance structures	› NIFs aligned with EIF to a large extent (72%) › Application (implementation and monitoring) of NIFs still lags behind (28%)

EIF revision: what is in it

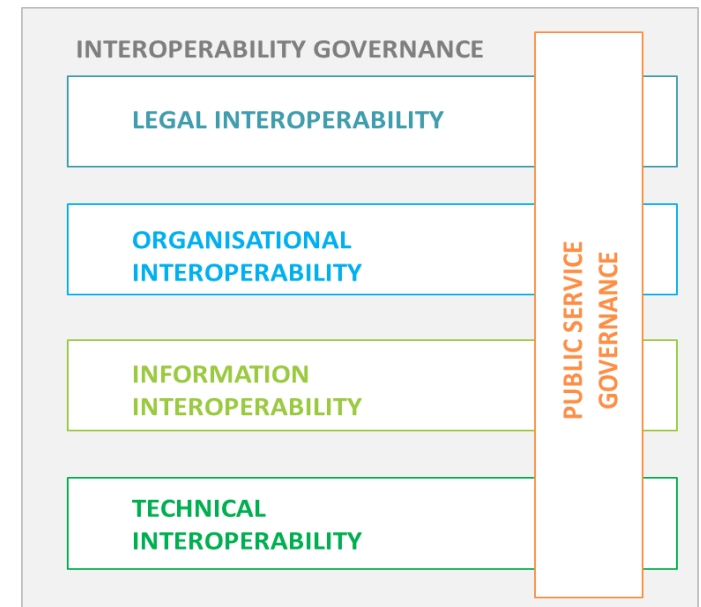**Updated IOP Recommendations**
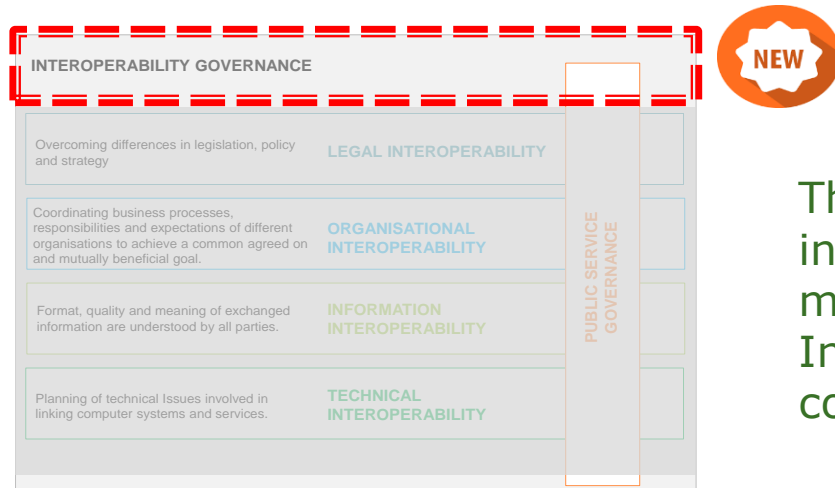
Recommendation 24.   example

Public administrations should publish the data they own as open data unless certain restrictions apply. Open data should be published in machine-readable, non-proprietary formats.
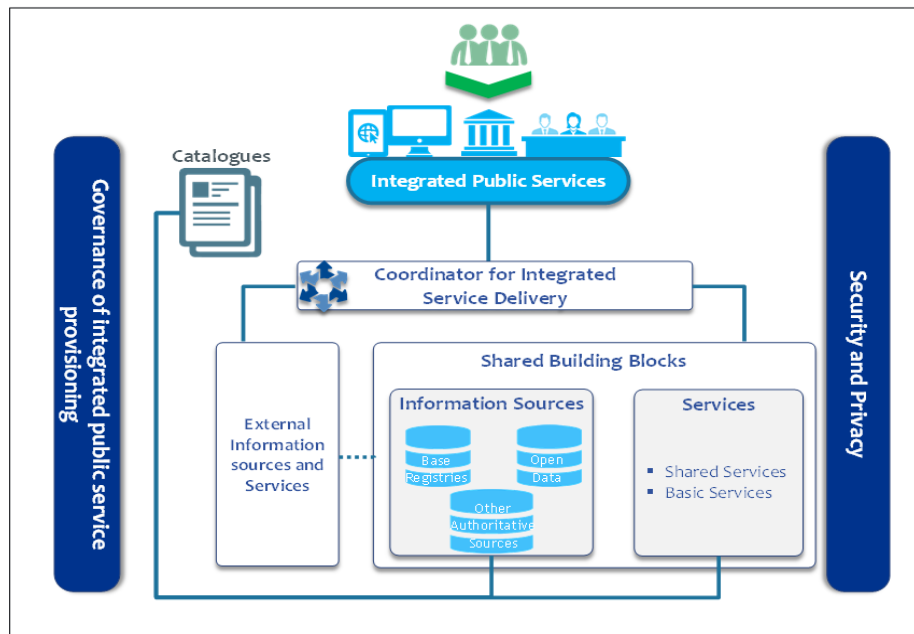
Updated IOP Models

EIF revision: interoperability governance

The Interoperability Governance has been included in the model with a bigger scope, with a more clear definition and new recommendations. In the previous EIF, it had neither enough content nor enough weight.

Added new recommendations in order to suggest the:

- Establishment of a NIF for the governance of interoperability across administrative levels

- Alignment of the NIFs with the EIF

- Establishment of organisational structures for the governance and monitoring of the interoperability activities

XBRL WEEK IN FRANKFURT 2016

EIF revision: information interoperability
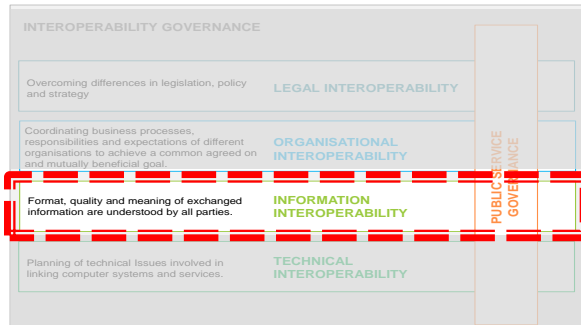
Semantic Interoperability has changed to Information Interoperability

🔍 **Recommendation 44.**

Public administrations should perceive data and information as a public asset which should be appropriately generated/collected, managed, shared, protected and preserved.
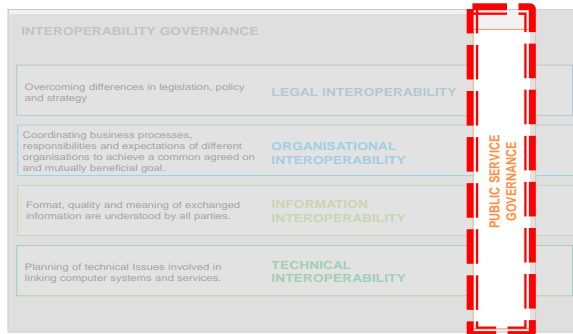
NEW

🔍 **Recommendation 45.**

Public administrations should put in place an information management strategy at the higher possible level to avoid fragmentation and duplication. Metadata, master data and reference data management should be prioritised.

NEW

XBRL WEEK IN FRANKFURT 2016

EIF revision: public service governance

Public Service Governance is the new crosscutting Layer added to the model, which includes:

- organisational structures and roles & responsibilities in governance
- interoperability agreements
- IT processes for the service management

It was included because there was a need to involve all the topics related to organizational aspects that are cross-cutting and influencing all the IOP layers.
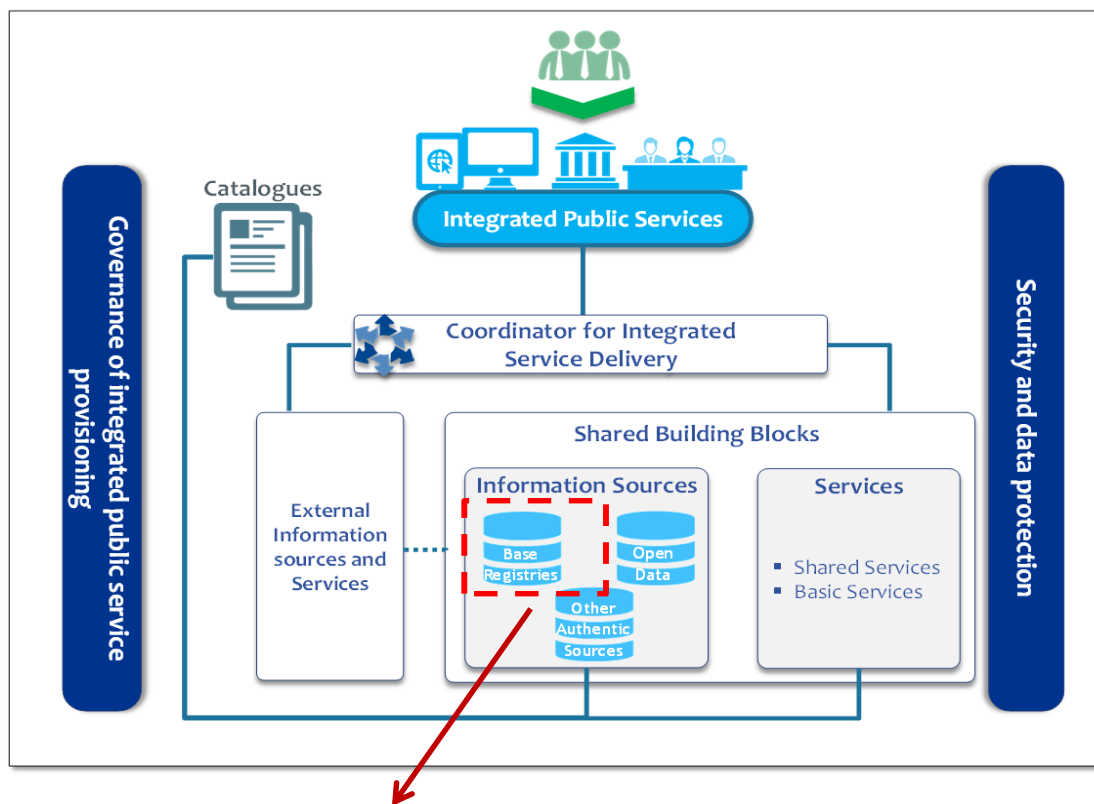
They were previously included in the Organizational Layer.

Recommendation 38.

Public administrations should ensure that interoperability is ensured over time when operating and delivering European Public Services.

EIF revision: base registries

Base registries are reliable sources of basic information on items such as persons, companies, vehicles, licences, buildings, locations and roads.

This type of information constitutes the master data for public administration and European Public Service delivery.

EIF revision: base registries

Make available

Recommendation 20.

Public administrations should make authoritative sources of information available to others while implementing access and control mechanisms to ensure security and privacy in accordance with the relevant legislation.

Interface with

Recommendation 21.

Public administrations, when working to establish European Public Services, should develop interfaces to base registries and authoritative sources of information, and expose the semantic and technical data needed for others to connect and reuse the information. These data should be aligned whenever possible.

Describe

Recommendation 22.

Each base registry should be accompanied by description of its content, service assurance and responsibilities, type of master data it keeps, conditions of access, terminology, glossary, as well as which master data it consumes from other Base Registries (if any).
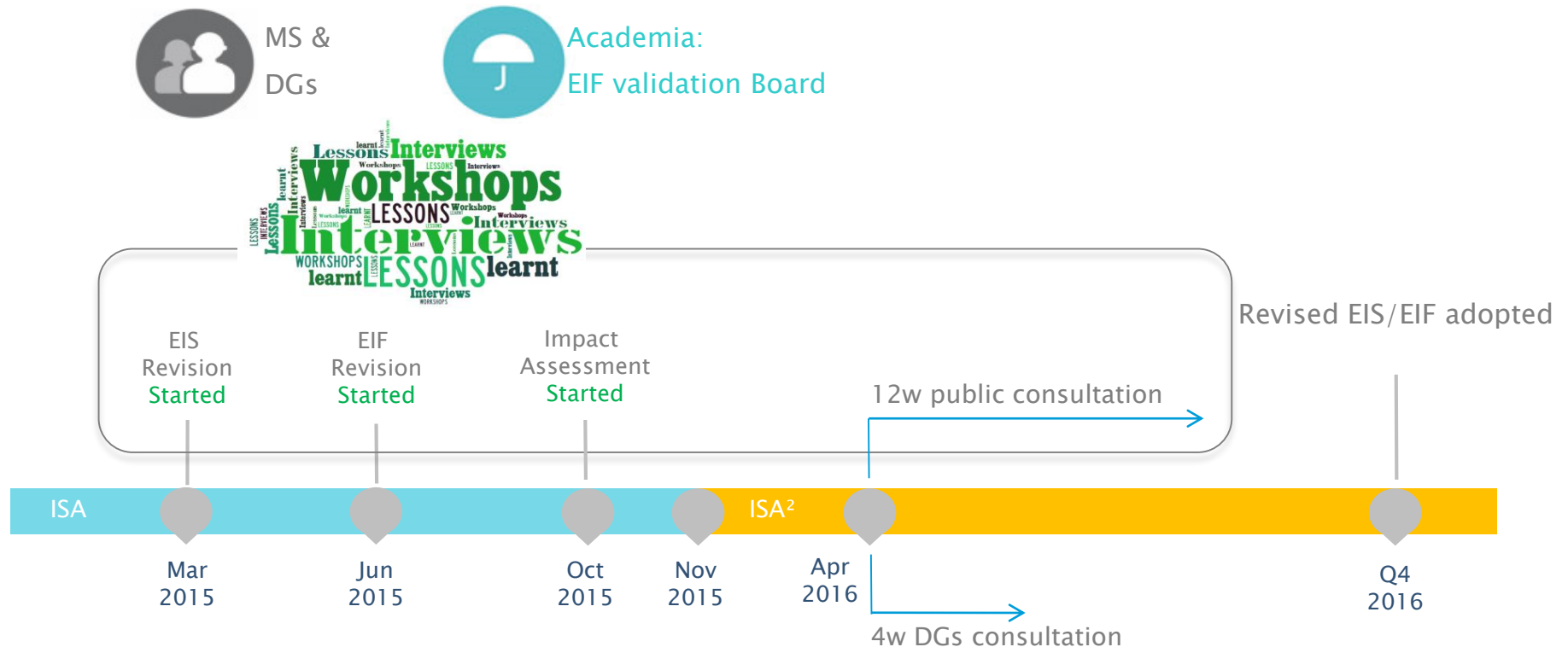
Plan & update

Recommendation 23.

Public administrations should create plans for base registries and related master data, and keep them updated.

XBRL WEEK IN FRANKFURT 2016

Consultation process – next steps

MS & DGs

Academia: EIF validation Board

Workshops Interviews Lessons LESSONS learnt

EIS Revision
Started

EIF Revision
Started

Impact Assessment
Started

Revised EIS/EIF adopted

12w public consultation

ISA

ISA²

Mar 2015

Jun 2015

Oct 2015

Nov 2015

Apr 2016

Q4 2016

4w DGs consultation

http://ec.europa.eu/isa/consultations/impact-assessment-for-the-revision-of-the-eis-eifl_en.htm
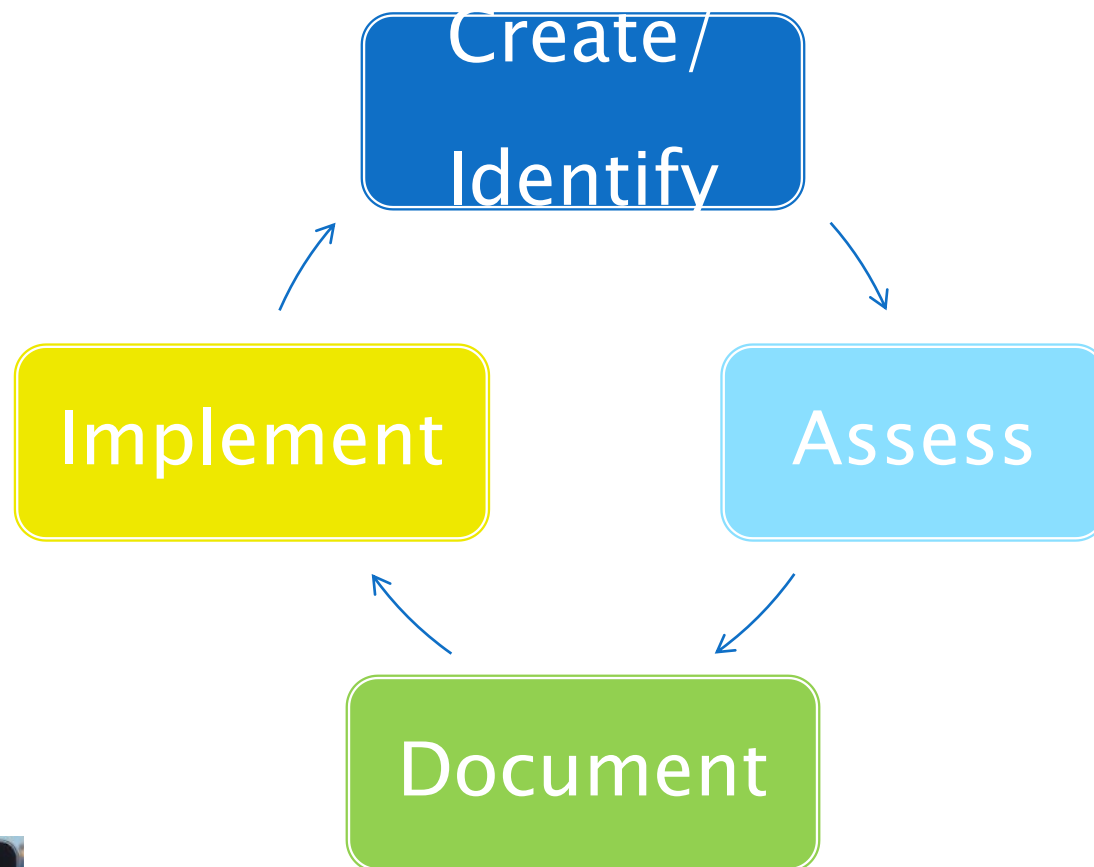
Data standards

What: Social agreements on how we describe the world

Problem statement: Data standards suffer from domain and country-based fragmentation

Our aim: We need universal data standards in a similar way we need universal technology standards
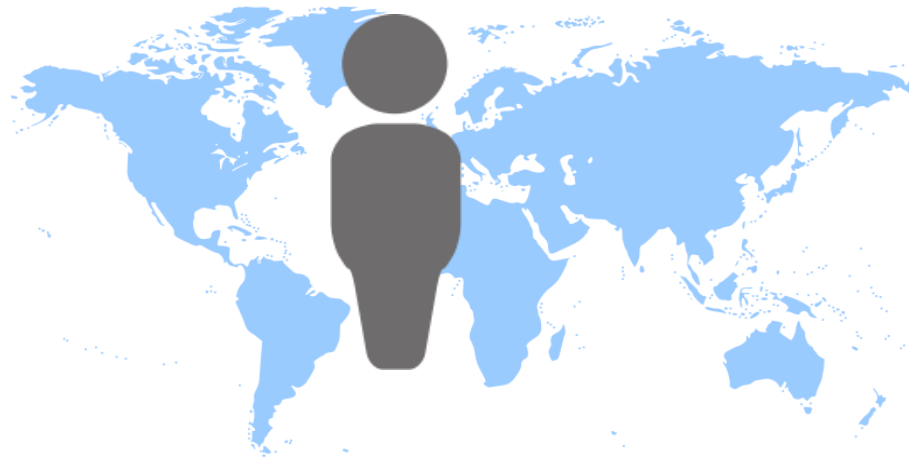
What organisations should do with Data Standards...

Create/Identify

Assess

Document

Implement

How ISA² can help you with Data Standards…
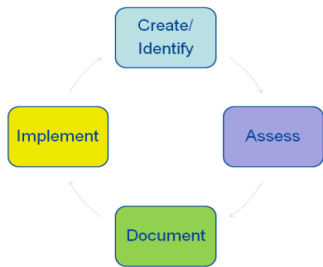
Create/Identify →
- Core Vocabularies and ISA specs
- European Interoperability Framework
- EU Cartography
- EU Catalogue of Standards

Assess →
- CAMSS
- Interoperability Maturity Model (IMM)

How ISA² can help you with Data Standards…

Implement
- European Interoperability Strategy (EIS)
- European Interoperability Framework (EIF)
- Methodologies & Tools

Document
- ADMS
- DCAT-AP, GEO/DCAT-AP, STAT/DCAT-AP
- EIRA
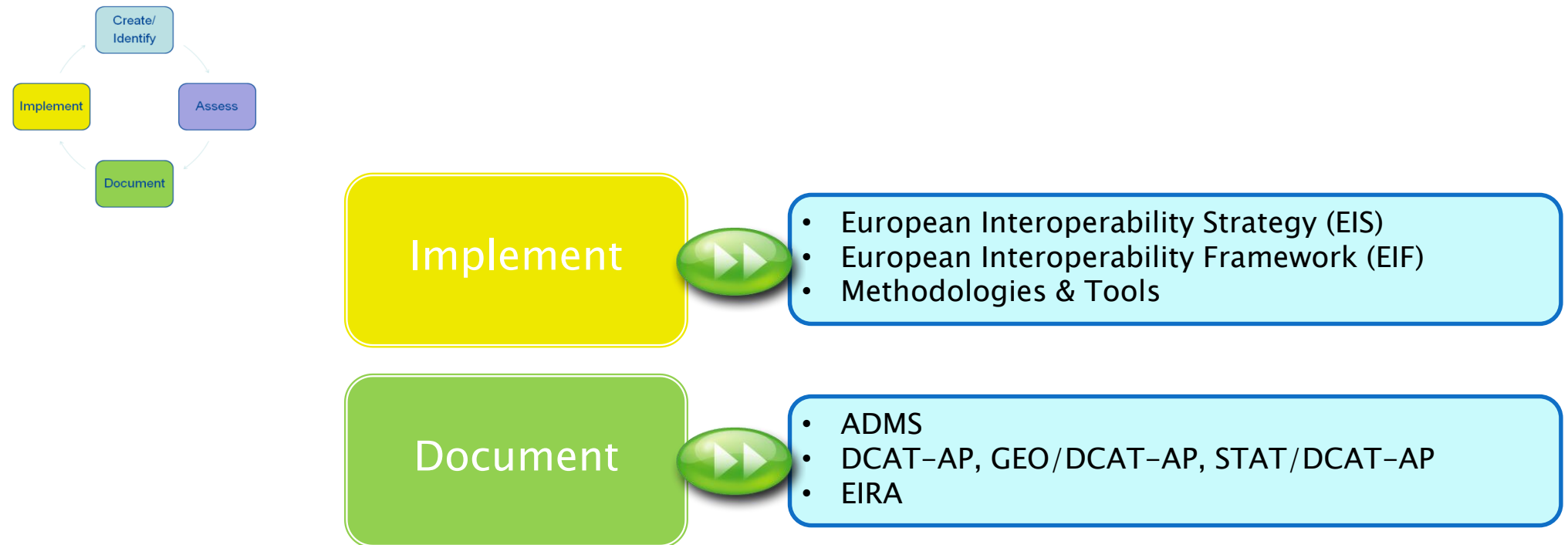
Available EC Data Standards and common specifications

DCAT
APPLICATION PROFILE FOR EUROPEAN DATA PORTALS

ADMS
ASSET DESCRIPTION METADATA SCHEMA

Pan-European Data portal

ODIPP
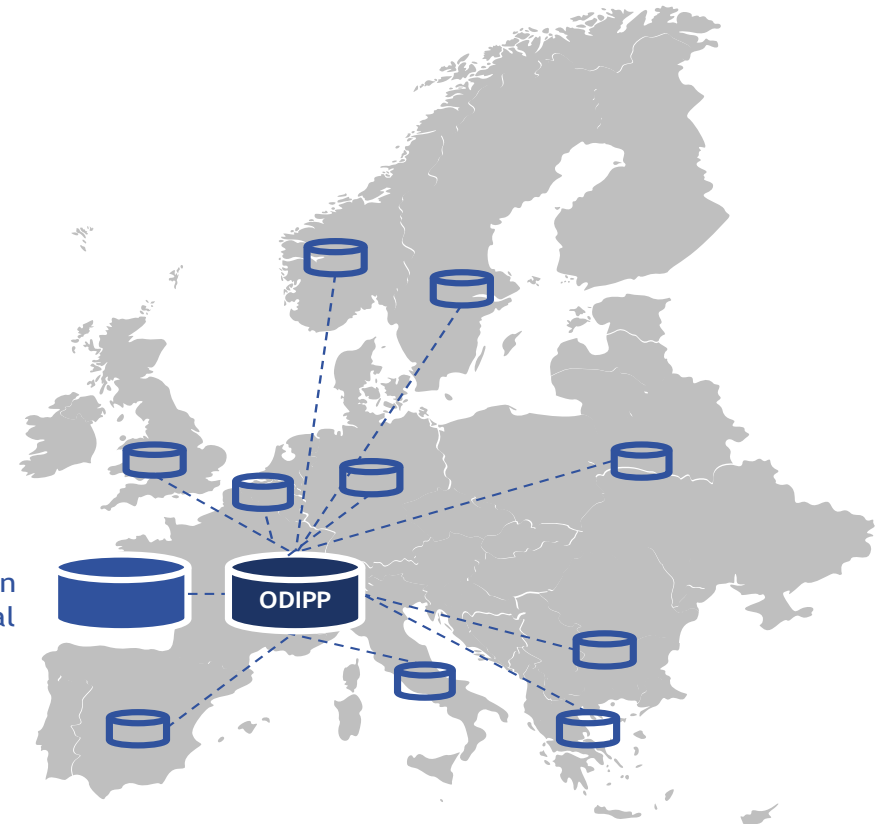
CORE LOCATION VOCABULARY

CORE BUSINESS VOCABULARY

CORE PERSON VOCABULARY

CORE PUBLIC SERVICE VOCABULARY

CORE PUBLIC ORGANISATION VOCABULARY

CORE CRITERION & EVIDENCE VOCABULARY

Identification of ICT technical specifications

▸ Legal basis: Regulation (EU) 1025/2012, Articles 13 and 14
▸ Scope: To support the public procurement of ICT product and services
▸ First assessment of their use and effects to be started soon in the MSP

Identified ICT technical specifications do not become European or international standards! They are only intended to help the public procurement in order to respond to the fast evolution in the field of ICT, facilitate the provision of cross-border services, encourage competition and promote interoperability and innovation.

Joint Initiative on Standardisation

▸ An action of the Single Market Strategy

▸ It sets out a shared vision for European standardisation in order to take steps to better prioritise and to modernise the current European standardisation system, as well as to strive for the timely delivery of standardisation deliverables

▸ To be signed on the 13 June in Amsterdam

ICTs for referencing in public procurement

- **28 January 2016: eXtensible Business Reporting Language 2.1**

  Article 1: The eXtensible Business Reporting Language version 2.1 is eligible for referencing in public procurement.
  For the Commission, the President:Jean-Claude JUNCKER

- **28 July 2015: Integrating the Healthcare Enterprise profiles**
- **31 October 2014: Universal Business Language version 2.1**
- **3 April 2014: ICT technical specifications**
  - *Internet Protocol version 6 ('IPv6')*
  - *Lightweight Directory Access Protocol version 3 ('LDAPv3')*
  - *Domain Name System Security Extensions ('DNSSEC')*
  - *DomainKeys Identified Mail Signatures ('DKIM')*
  - *ECMAScript-402 Internationalisation Specification ('ECMA-402')*
  - *Extensible Markup Language version 1.0 ('W3C XML')*

Full info at standards.eurofiling.info

Presentation towards Syntax

Semantics

Presentation → **Syntax**
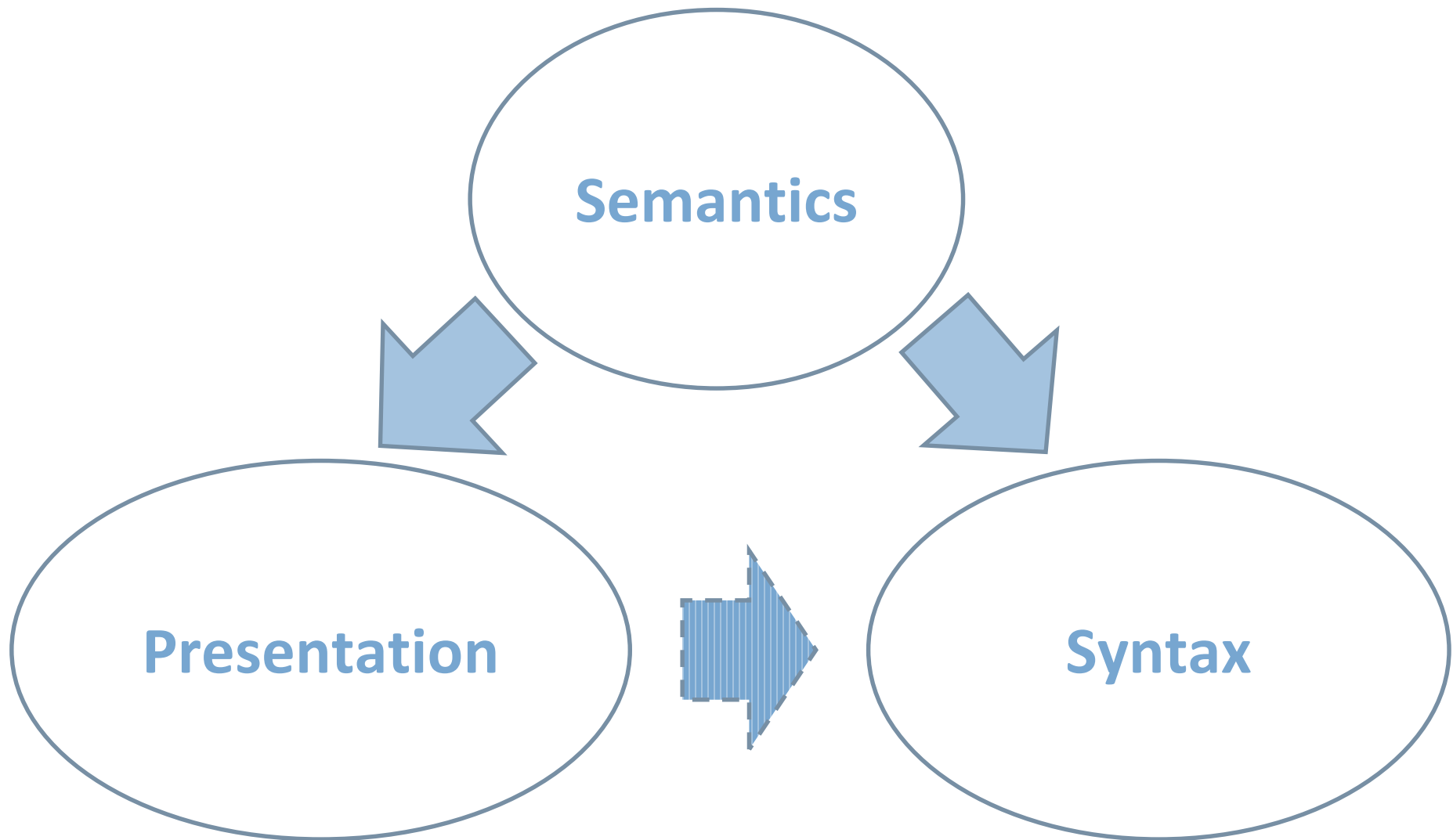
From paper-based / human reading to web-based / computerized analysis
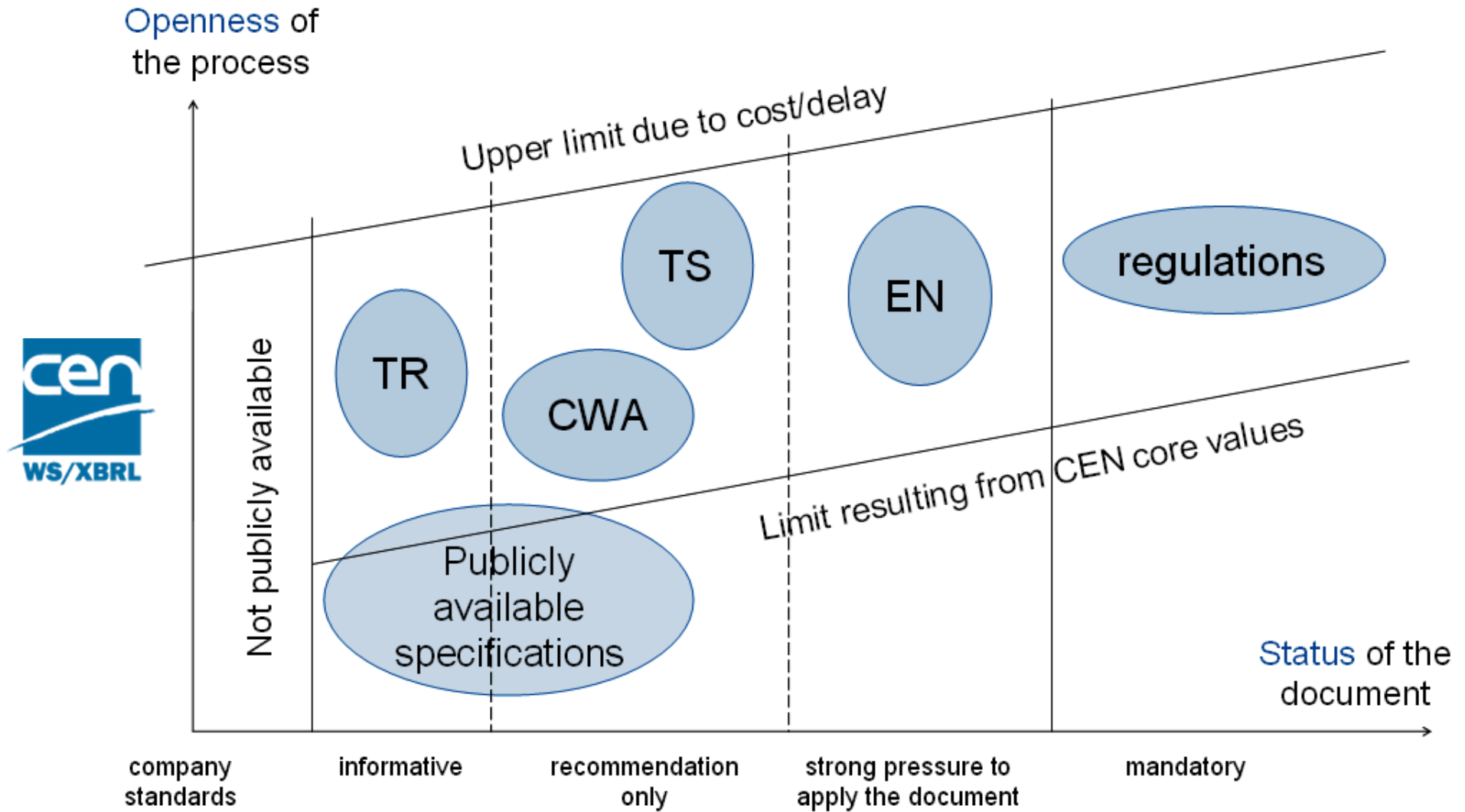
TR: Technical Report. CWA: CEN workshop Agreement. TS: Technical Specification. EN: European Standard.

Spain: 86 ICT standards

Legend:
- ISO
- IETF
- W3C
- Spain
- ETSI
- Microsoft
- CCN-CERT
- IETF-ETSI
- OASIS
- Adobe
- DLM Forum
- European Commission
- IANA
- Library of Congress
- Pkware
- Others

Pie chart values: 24%, 21%, 20%, 9%, 6%, 5%, 2%, 2%, 2%, 1%, 1%, 1%, 1%, 1%, 1%

Common EU standards
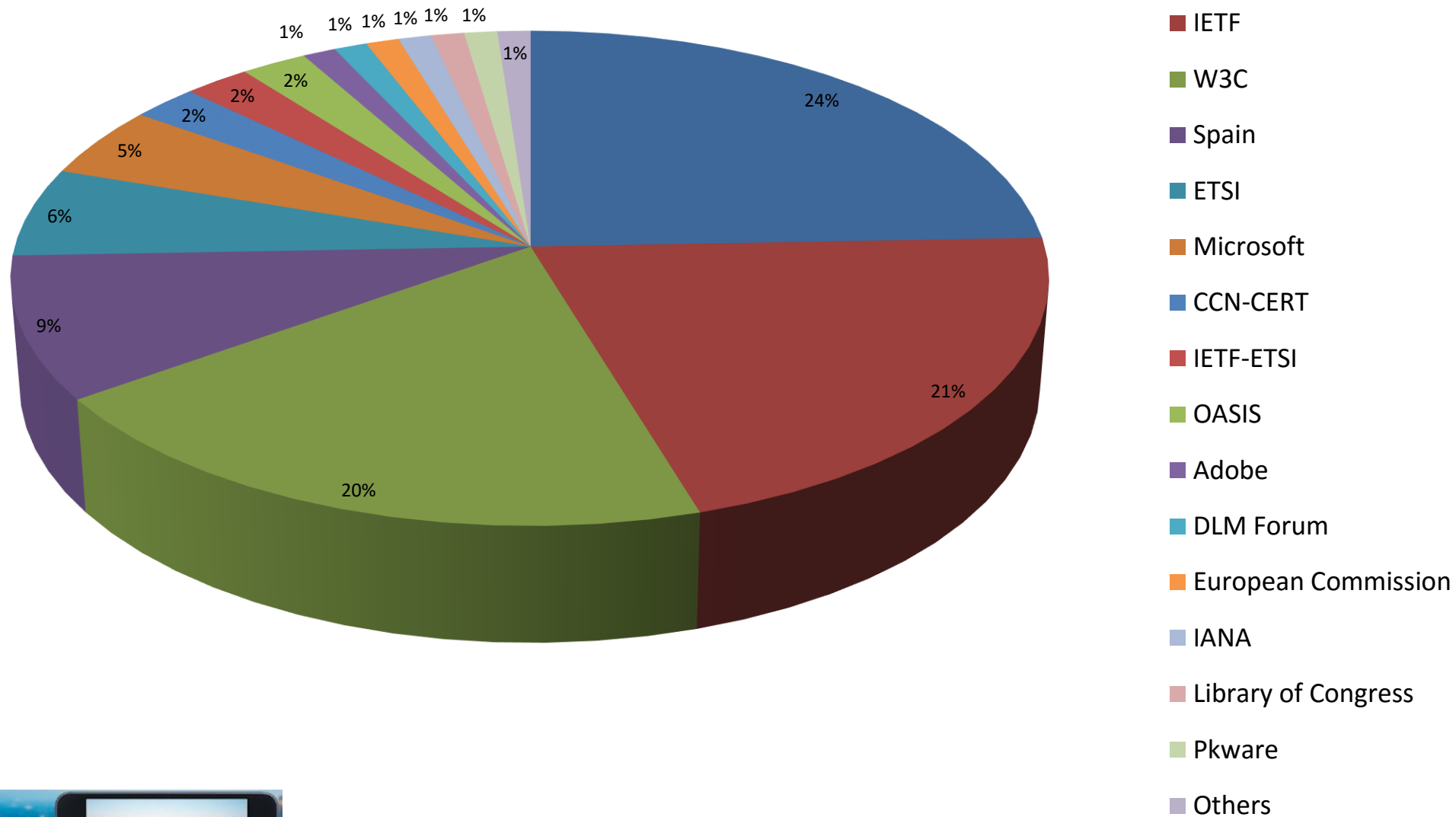
Number of standards listed in countries

2 standards, listed in 12 countries

2 standards, listed in 11 countries

5 standards, listed in 10 countries

5 standards, listed in 9 countries

7 standards, listed in 8 countries

Significant overlap

5 standards, listed in 7 countries

6 standards, listed in 6 countries

7 standards, listed in 5 countries

45 standards, listed in 2 countries

Relevant

21 standards, listed in 3 countries

13 standards, listed in 4 countries

Conclusion: Much room for sharing & reuse.

25

Join ISA initiatives at: http://ec.europa.eu/isa/index_en.htm
and @ http://joinup.ec.europa.eu
Open public consultation: http://ec.europa.eu/isa/consultations/impact-assessment-for-the-revision-of-the-eis-eifl_en.htm

http://goo.gl/eK1EY   @SEMICeu   http://joinup.ec.europa.eu