



JOINING UP GOVERNMENTS



Smart government means being interoperable

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Challenges facing Public Administrations

- A strong, deep and integrated Single Market creates growth, generates jobs and offers opportunities for the European citizens.
- More than ever, we need a Single Market that strengthens citizens' and businesses confidence and delivers concrete day-to-day benefits to them.

BUT

The Europe-wide market is still too fragmented



Challenges facing Public Administrations

Striving for a Single Market means guaranteeing labour mobility, reducing barriers for the entry and exit of companies and eliminating unjustified restrictions for business and professional services.

For EU public administrations:

- improving digital exchanges between administrations and enterprises as well as citizens,
- rolling-out e-procurement EU wide,
- promoting the use of Public Sector Information and open public data,
- implementing Trans European services,
- developing EU-wide on-line services,
- **→ modernising Public Administrations,**
- ...



Challenges facing Public Administrations

- The quality of public administration at EU, national, regional and local level is a determining element of competitiveness, and an important productivity factor.



Challenges facing Public Administrations

→ Working together....

- Coping with today's complexity and pace of changes (social, technological, economic, ...) in a context of constrained resources requires integration of diverse insights, experience and expertise, cooperation from different organisations, involving citizens and businesses ...
- Simplification and optimisation cross ministerial boundaries. Structural reorganisations involve multiple Public Administrations.
- Tailoring workflows to citizens and businesses needs extensive process overhauls across Public Administrations.



Challenges facing Public Administrations

Efforts to modernise public administrations are not new:

- making available the information on-line,
- delivering on-line services,
- implementing sectorial services at EU level, interoperability among Member States on a per sector basis,
- ...

Necessary and positive steps but not sufficient



Challenges facing Public Administrations

- Instead of physical barriers, we still have e-barriers
- Citizens and businesses
 - faced with thousands of completely different Web sites
 - with no one-stop shop for one single service
- Locked data, multiplication of data, information provided in different formats
- Loss of value, inefficiency in using resources
- Multiplication of costs
- No cross-sector interoperability
- ...

No structural interoperability between EU public administrations



ISA: Interoperability Solutions for Public Administrations

→ Interoperability is the key enabler

Efficient

... and effective electronic cross-border and cross-sector interaction between European public administrations.

European public administrations

... share and re-use existing successful Interoperability solutions.

Flexible and interlinked

...IT systems allow smooth implementation of Community policies and activities.

ISA Programme objectives



Interoperability between Public Administrations: join the pieces of a big puzzle

European and national interoperability activities are aligned and complementary

Reusable solutions are described and their conditions of use are fully established

Identify missing cross-sector services and solutions and promote their implementation

Regularly map and update the current and future EU interoperability environment

Means to facilitate the sharing of components of public services are identified, developed and promoted

Assess and develop the means to facilitate the sharing of components of public services

Public administrations develop services and solutions with interoperability in mind ('interoperability by design')

Adopt a 'business case' approach to new PA services and including to cross-sector services

Missing cross-sector services and solutions are identified and their implementation promoted and supported

Public Administrations have access to base registry data and a catalogue of services

Appropriate governance models are in place covering the life span of the PA services and interoperability solutions

Public services building blocks and common infrastructure services are available

Domain-related specifications are identified and have a sector leader assigned to them

IT services and solutions support new policies and are included in legislative proposals

Support development and implementation of cross-sector solutions

Public Sector Information is available in common formats



Interoperability between Public Administrations: joining the pieces

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- European Interoperability Strategy (EIS) (currently under revision)

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Support development and implementation of cross-sector solutions

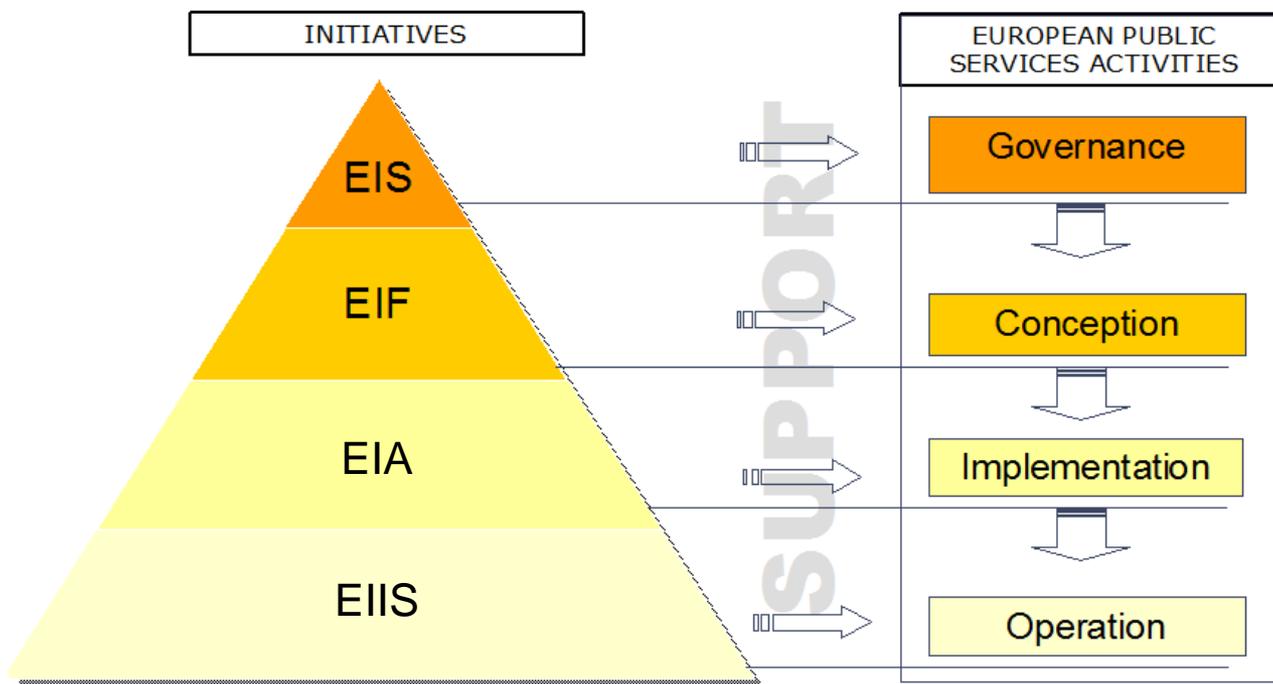
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Interoperability between Public Administrations

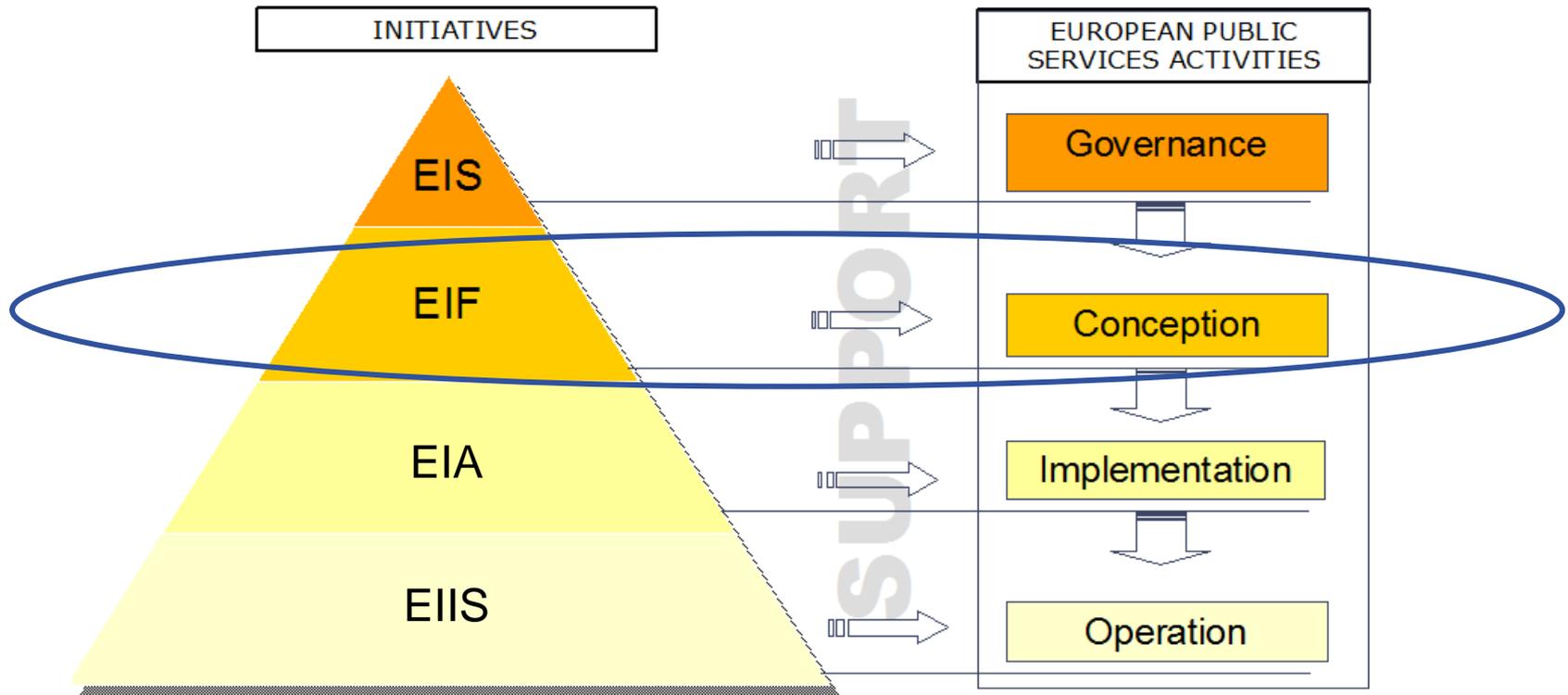
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Interoperability between Public Administrations

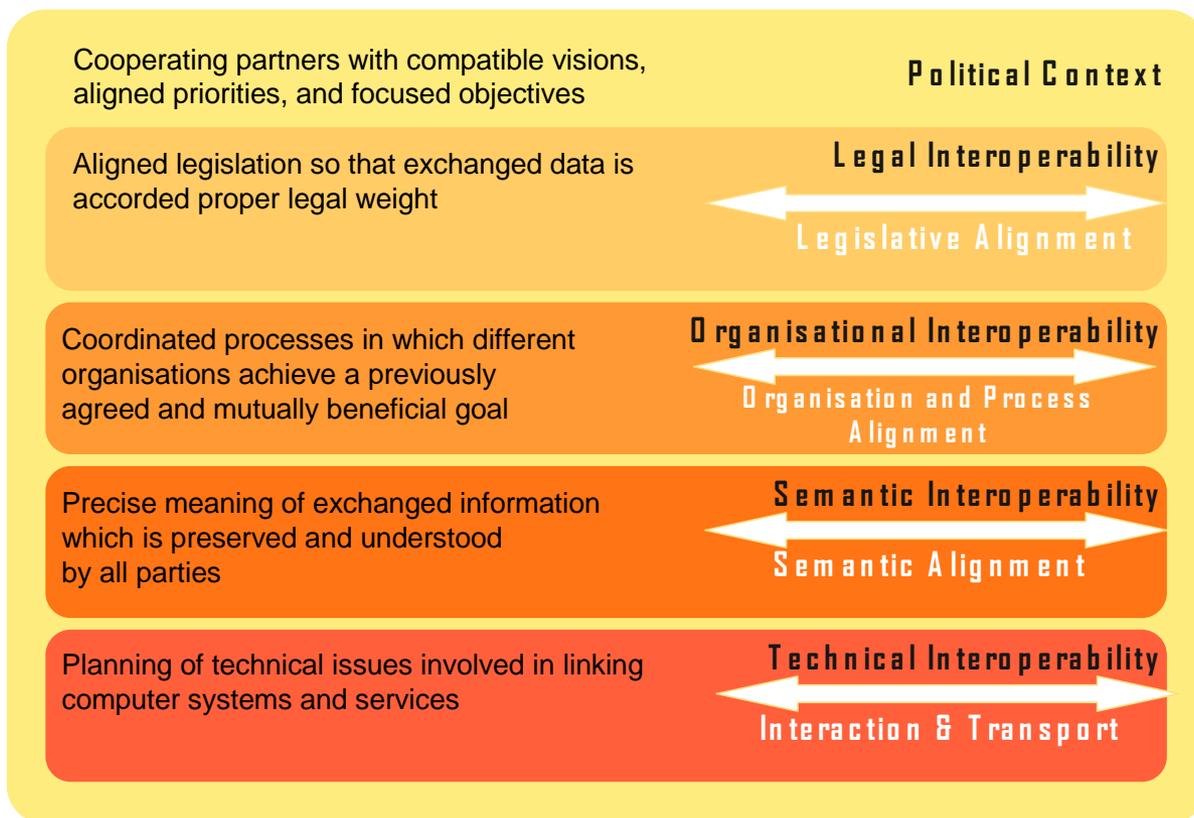
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European Interoperability Framework (EIF)

European and national interoperability activities are aligned and complementary





EIF: Interoperability Governance

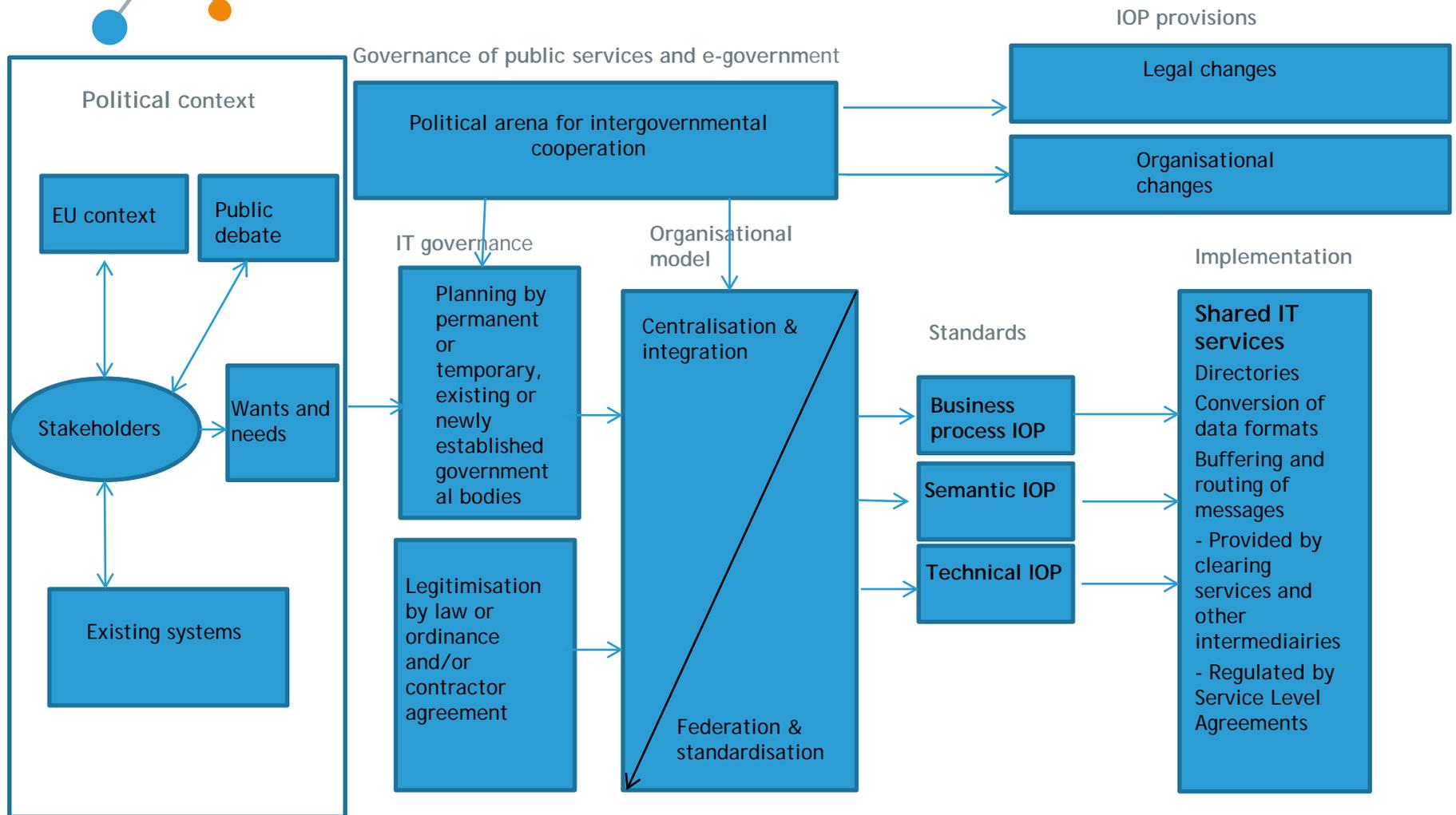
European and national interoperability activities are aligned and complementary

Appropriate governance models are in place covering the life span of the PA services and interoperability solutions

- Interoperability and **sustainability** (technical, operational and financial) over time when operating and delivering a European Public Service
- Framework for the governance of interoperability activities across administrative levels.

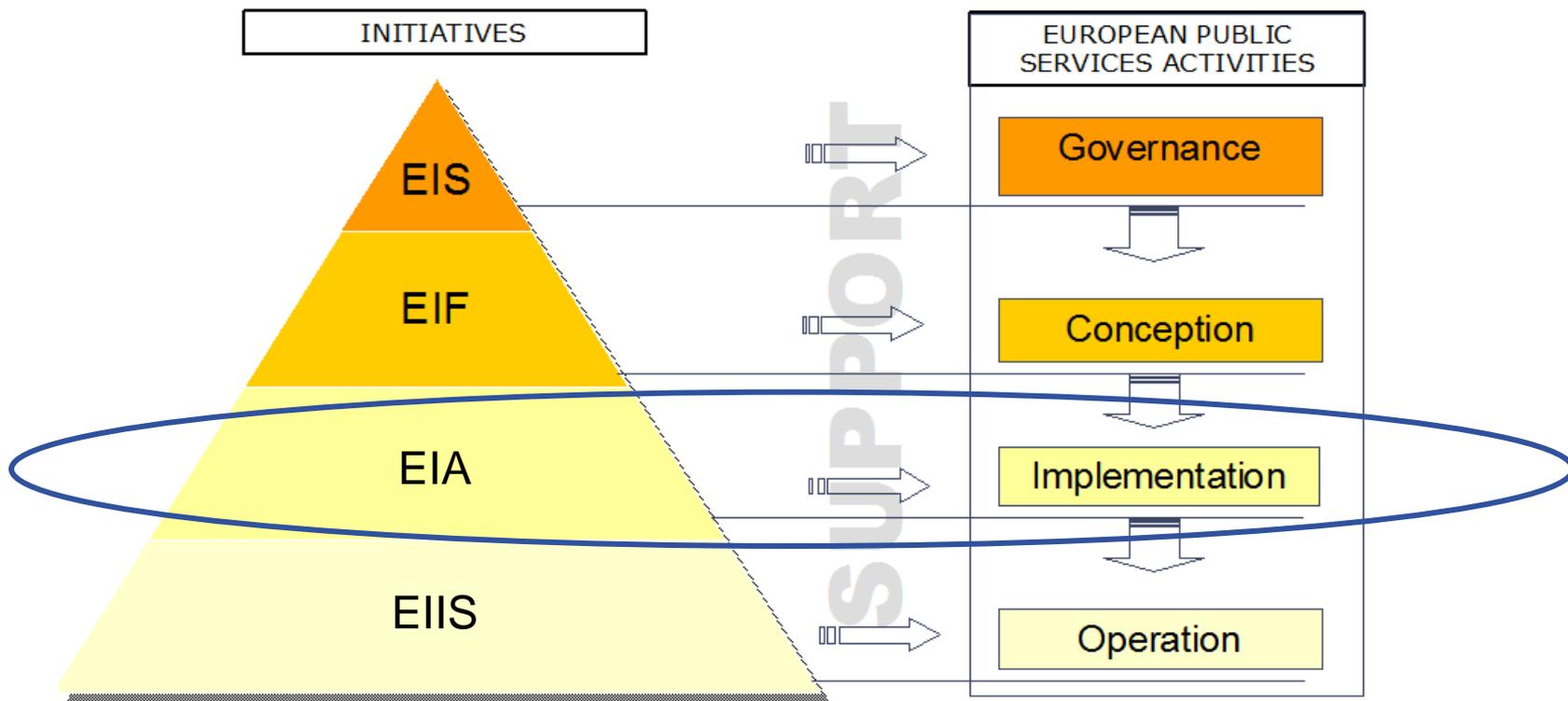


Interoperability between Public Administrations: Governance



From « Organisational Interoperability in E-government », Herbert Kubicek, Ralph Cimander, Hans Jochen Scholl

European and national interoperability activities are aligned and complementary





European Interoperability Architecture

European and national interoperability activities are aligned and complementary

Identify missing cross-sector services and solutions and promote their implementation

Regularly map and update the current and future EU interoperability environment

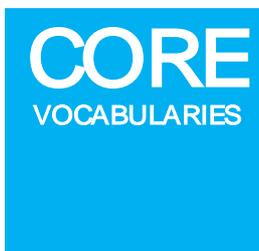
- Establish architecture models
- Develop EU interoperability cartography
- Implement the European Federated Interoperability Repository (EFIR)



Defining semantic specifications

European and national interoperability activities are aligned and complementary

Domain-related specifications are identified and have a sector leader assigned to them



23 May 2012:
Endorsement by
the ISA
Coordination
Group



Acknowledge and
support the
achieved results



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(<https://joinup.ec.europa.eu/category/licence/isa-open-metadata-licence-v11>)

ADMS and the three Core Vocabularies specifications entered the W3C standardization process to become global standards





ISA supporting cross sector common services

Identify missing cross-sector services and solutions and promote their implementation

- ➔ Data communication network service (sTESTA):
 - Secure data exchange between European and national administrations

- ➔ Machine Translation Service by the European Commission



Support development and implementation of cross-sector solutions

→ Internal Market Information System

Cross-border exchange of information between public authorities

- Professional Qualifications directive
- Services directive
- Posting of Workers directive

→ European Citizens Initiative

→ Common Information Sharing Environment for the surveillance of the EU maritime domain

Interoperable and trusted cross-sector data exchange between public administrations within the EU maritime domain. Several policy areas (Maritime safety and security, maritime environment and pollution preparedness and response, fisheries control, border control, law enforcement, customs)



Legal interoperability: the EUCARIS example

European Vehicle and Driving Licence Information System

→ Proposal for a Regulation on a simplified registration procedure for motor vehicles previously registered in another Member State.

Concretely, last proposal covers:

→ technical interoperability

- the system to be used and the network for the exchanges (sTESTA - building block)

→ semantic interoperability

- EU harmonised attributes Directive 1999/37/EC

→ organisational interoperability

- processes

→ governance aspects

- changes: delegated acts and comitology
- sustainability (technical/operational and financial)
 - EUCARIS owned by the EUCARIS community (Member State consortium)
 - maintenance and support assured by the Dutch registration authority
 - costs shared by Member States

IT services and solutions support new policies and are included in legislative proposals

Appropriate governance models are in place covering the life span of the PA services and interoperability solutions



ISA supporting sharing and re-use of solutions

Barriers to sharing and re-use of solutions:

→ Legal (intellectual property, public procurement, mis-use and liability)

- Common standard clauses
- European Open data licence

→ Administrative and financial

- Cost benefits evaluation
- Business models
- Financial support and other incentives

→ Organisational and communication

- Description of federated assets
- Guidelines and templates for implementing agreements
- Identification of government models
- Service modalities

→ Technical and architectural

- Semantic standards
- Cartography

Reusable solutions are described and their conditions of use are fully established

Assess and develop the means to facilitate the sharing of components of public services

Appropriate governance models are in place covering the life span of the PA services and interoperability solutions



Interoperable Public Administrations: the key to Smart government!

- ➔ Interoperability between Public Administrations is the key to face today's challenges and increase efficiency, transparency and quality of public services.
- ➔ Interoperability requires harmonisation, adoption of common standards and frameworks.

Effective cooperation between European Public Administrations at the European, national, regional and local levels will be achieved by developing interoperability and motivating and supporting the sharing and re-use of solutions.

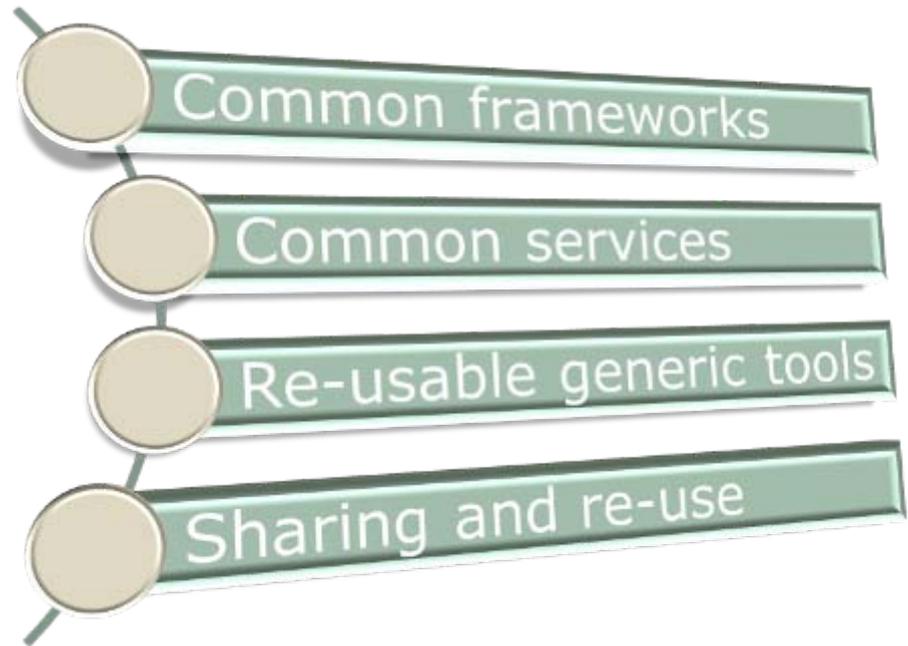


ISA: Interoperability Solutions for Public Administrations

interoperability is the key...



*Interoperability solutions
for European public
administrations*



*ISA defines the architecture for
information systems supporting
Europe 2020.*



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Get involved: Join ISA Initiatives on the Joinup platform

References:

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Defining semantic specifications: core vocabularies

A Core Vocabulary is a simplified, reusable, and extensible data model that captures the fundamental characteristics of an entity in a context-neutral fashion

Multi disciplinary working group

67 participants

21 Member States and the US,
South Africa and Croatia
EU institutions
Standardisation bodies
External experts/academia

Core Vocabularies Working Group

W3C methodology

CORE
LOCATION
VOCABULARY

Core Location TF: chaired by EC Joint Research Centre/H6 (INSPIRE Directive)

CORE
BUSINESS
VOCABULARY

Core Business TF: chaired by DG MARKT (European Business Registry project)

CORE
PERSON
VOCABULARY

Core Person TF: chaired by EUROJUST
Eurojust promotes the interoperability in the judicial domain amongst MSs