

European Commission

# From ISA to ISA<sup>2</sup>

# > The EIF revision

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# From ISA To ISA<sup>2</sup>



**ISA** Interoperability Solutions for European public Administrations

**Objectives** 

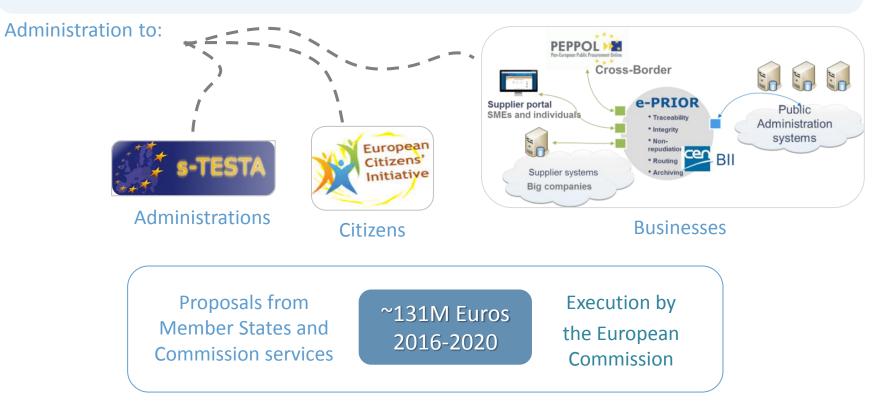




# ISA<sup>2</sup> in brief

### **Extended scope**

Programme on interoperability solutions and common frameworks for European public administrations, businesses and citizens as a means for modernising the public sector





## ISA<sup>2</sup> updated focus: Objectives

- Develop, maintain promote a holistic approach to IOP
- Implement the EIF
- Monitor EIF's implementation

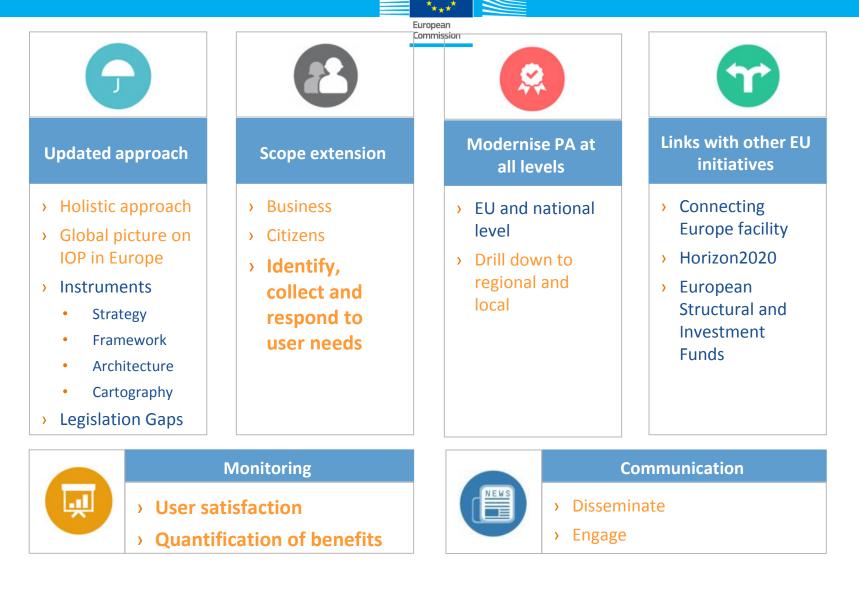
- IOP cross-border or cross-sector
- Administrations, businesses and citizens
- Go down to regional and local administrations





 Identify, create and operate IOP solutions to support EU policies • Facilitate re-use of IOP solutions by the EU public administrations

### ISA<sup>2</sup> updated focus: extended scope



# **ISA<sup>2</sup> updated focus**



- Build new interoperability services and tools
- Maintain and operate existing ones
- Maintain, update, promote and monitor implementation of the EIS, the EIF and the EIRA
- Put in place a European Interoperability cartography (EIC) based on a European Interoperability Reference Architecture (EIRA) to ease reuse and identify gaps
- Monitor and evaluate progress
- Assess, update and promote existing common specifications and standards
- Develop new common & open specifications
- Collaborate with European and international standardisation bodies



# Activities (2/2)

- Assess the ICT implications of existing and proposed EU legislation
- Identify legislation gaps hampering interoperability
- Develop a mechanism to measure and quantify the costs

#### and benefits of interoperability

- Identify and promote best practises, develop guidelines to coordination on interoperability and facilitate community building
- Put in place a platform to disseminate interoperability solutions, allow exchange of best practises and raise awareness
- Develop a communication strategy to raise awareness targeting businesses, SMEs and citizens

# ISA<sup>2</sup> updated focus

### **Chosen actions shall ...**

•

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be guided by principles:

be based on utility and driven by identified needs and programme objectives

- subsidiarity & proportionality;
- user-centricity;
- inclusion and accessibility;
- prevent digital divide;
- security, privacy & data protection;
- multilingualism;
- administrative simplification and modernisation;
- transparency;

- preservation of information;
- openness;
- re-usability and avoidance of duplication;
- technological neutrality, solutions which, insofar as possible, are futureproof, and adaptability;
- effectiveness and efficiency;

- be flexible, extensible and applicable to other business or policy areas;
- demonstrate financial, organisational and technical sustainability

# **ISA<sup>2</sup> updated focus**



Contribution to

**IOP** landscape

Scope of

### **Prioritisation**



Link with other EU initiatives

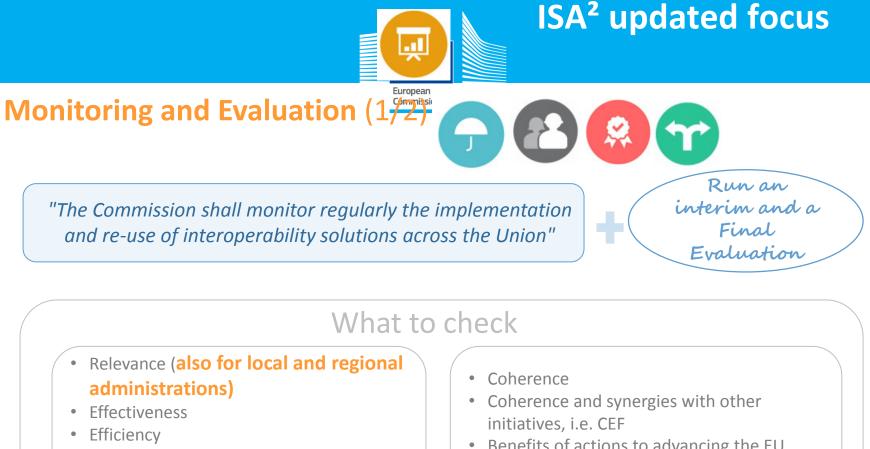
Reusability



 Actions fulfilling more criteria are given higher priority

Urgency Geographical reach

**Priority check** 



- Utility including business & citizens satisfaction
- Sustainability

Benefits of actions to advancing the EU policies



# **ISA<sup>2</sup> updated focus**

Monitoring and Evaluation (2

How to check



The achievement of the objectives shall be measured in particular in terms of the **number of key interoperability enablers** and through the **number of supporting instruments** delivered to and used by European public administrations

# **Evaluation should contain**



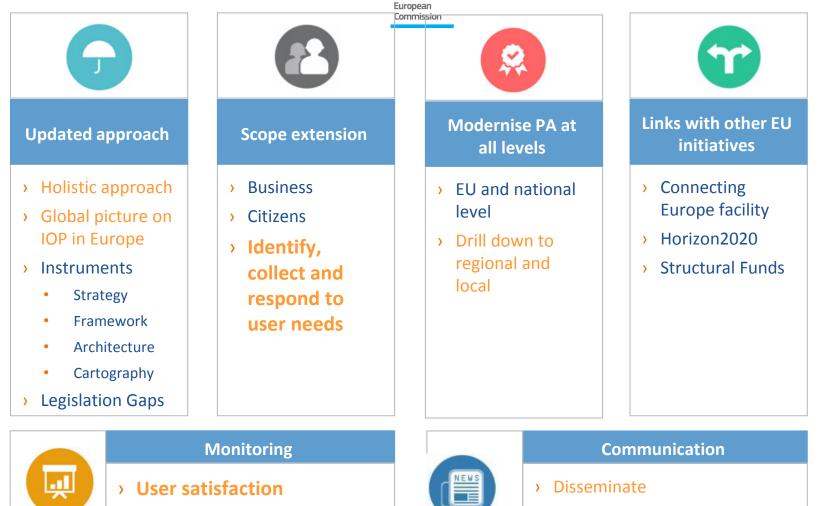
**1.** Quantifiable and qualifiable benefits that the interoperability solutions deliver by linking ICT with the needs of end-users;

2. the quantifiable and qualifiable impact of the interoperable ICT-based solutions.

Completed or suspended actions shall remain subject to the overall programme evaluation and evaluated in terms of user uptake, utilisation and re-usability.

# **Updated focus**





> Engage

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# Work under ISA

- European IOP Strategy & Framework (EIS and EIF)
- European Interoperability Reference Architecture EIRA
- European IOP Cartography EIC
- ICT impact of EU legislation ("Digital check")
- Share and reuse framework



2 Key interoperability enablers ("City utilities")

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Support EU legislation and initiatives

- Data exchange
- eID eSignature
- Data semantics
- Base registries
- Catalogue of Services

- Digital Single Market
- INSPIRE







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# Work under ISA



Cost savings for users Increased revenue for owners Reduced operational costs for owners Vendor lock-in avoidance for owners Facilitate reuse, sharing and adoption of future solutions



Owner time savings User time savings



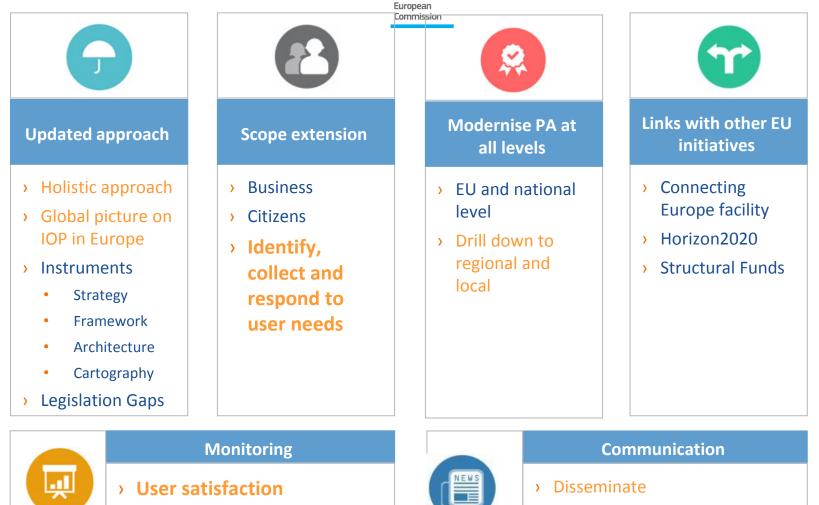
Higher services satisfaction for users Improved compliance for owners Better data quality for owners Better data availability for users Improved security for owners



Foster innovation
Increase transparency
Impact on growth and competitiveness
Protection of fundamental rights for users and society
Reduced CO<sub>2</sub> emissions
Better decision making
Furthering public and private policy goals

# **Updated focus**





> Engage

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# **Revision of**

# European Interoperability Framework &

**European Interoperability Strategy** 

# **Digital Single Market - DSM**





#### Big data and cloud



Digital data stored in cloud: 2013: 20% - 2020: 40%

The use of big data by the top 100 EU manufacturers could lead to **savings worth €425 billion** 

Better access for consumers and businesses to digital goods and services across Europe

#### Unlocking e-commerce potential



**15% of consumers** bought online from other EU countries in 2014 while **44%** did so **domestically** 

# Shaping the right environment for digital networks and services to flourish

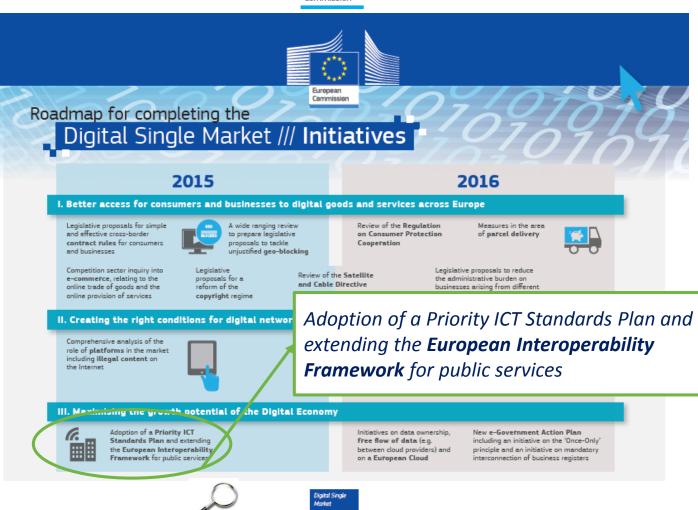
#### Strong European data protection rules to boost the digital economy



**72% of Internet users** in Europe still worry that they are being asked for too much **personal data online** 

### **DSM Roadmap**





# **EIF Revision**



# Guidance

Support

# **Best practices**

Avoiding the creation of new electronic barriers or silos when modernising public administrations in Europe

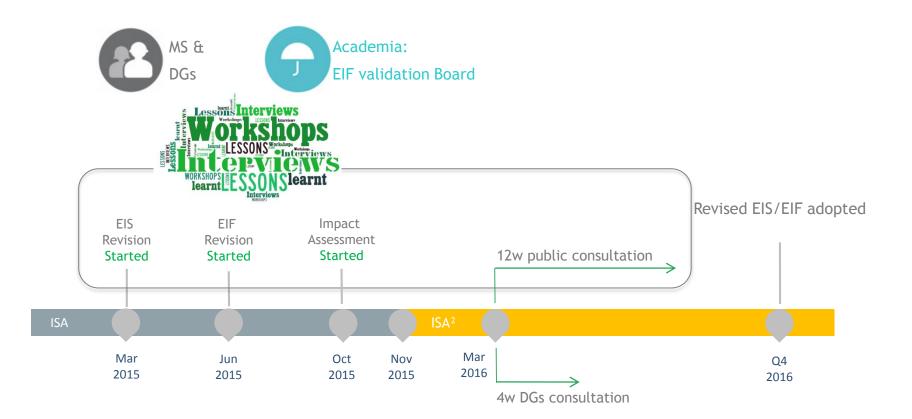
Facilitating the interconnection of public services for citizens and businesses at national and EU level

Improving quality of public services and transparency

Coherence of open data from various sectors and countries

# **Consultation process**





# EIF revision what is in it

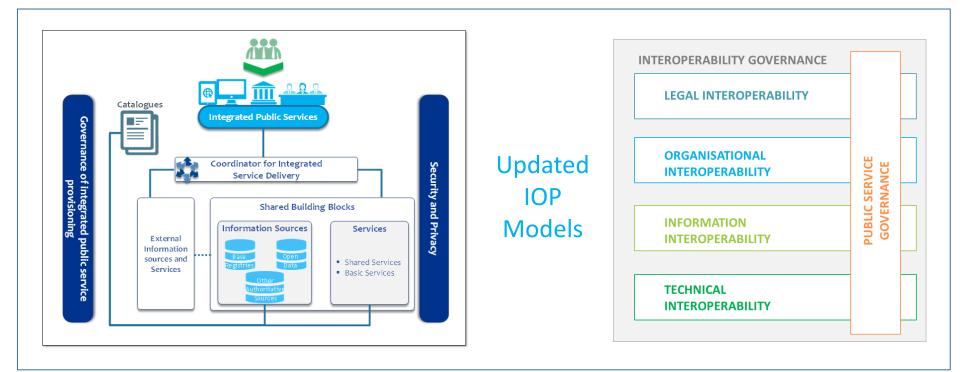


Recommendation 24.

### Updated IOP Recommendations

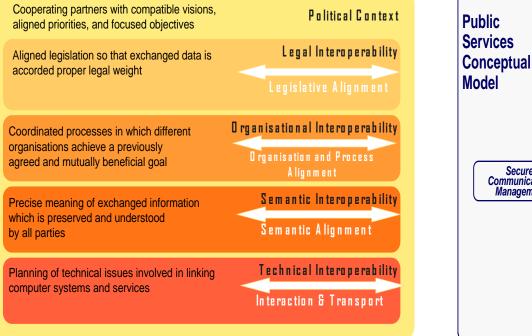
Public administrations should publish the data they own as open data unless certain restrictions apply. Open data should be published in machine-readable, non-proprietary formats.

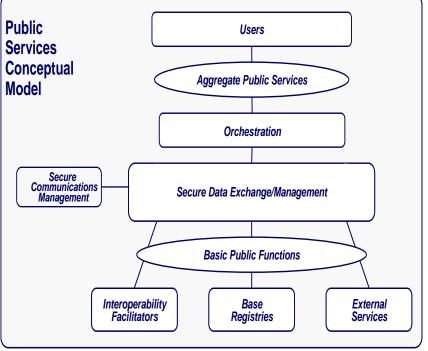
example



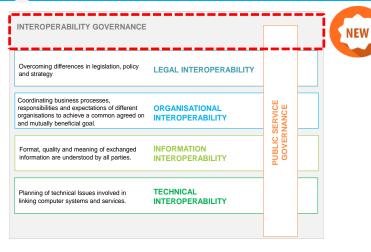
# **EIF models**







### EIF revision: interoperability governance



European Commission

Interoperability Governance has been included in the model with a bigger scope, with a more clear definition and new recommendations.

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

### EIF revision: information interoperability



Overcoming differences in legislation, policy and strategy		
Coordinating business processes, responsibilities and expectations of different organisations to achieve a common agreed on and mutually beneficial goal.		ANCE
Format, quality and meaning of exchanged information are understood by all parties.	INFORMATION INTEROPERABILITY	PUBLICS
Planning of technical Issues involved in linking computer systems and services.	TECHNICAL INTEROPERABILITY	

# Semantic Interoperability has changed to Information Interoperability

<u>Recommendation 40.</u> Public administrations should perceive data and information as a public asset which should be appropriately generated/collected, managed, shared, protected and preserved.

<u>Recommendation 41.</u> Public administrations should put in place an information management strategy at the higher possible level to avoid fragmentation. Metadata, master data and reference data management should be prioritised.

NEW

NEW

### EIF revision: public service governance



 INTEROPERABILITY GOVERNANCE

 Overcoming differences in legislation, policy
 LEGAL INTEROPERABILITY

 Coordinating business processes,
 INFORMISATIONAL

 responsibilities and respectations of different
 ORGANISATIONAL

 and mutually beneficial goal.
 ORGANISATIONAL

 Format, quality and meaning of exchanged
 INFORMATION

 IntercoPERABILITY
 INFORMATION

 Planning of technical lesues involved in
 TECHNICAL

 InterOPERABILITY
 INTEROPERABILITY

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

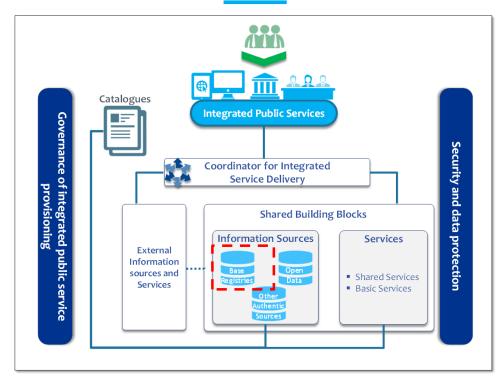
It was included because there was a need to involve all the topics related to organizational aspects that are cross-cutting and influencing all the IOP layers.

They were previously included in the Organizational Layer.

<u>Recommendation 28</u>. Public administrations should ensure that interoperability is ensured over time when operating and delivering a given European public service.

# EIF revision: Base registers







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 registers



#### 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.

#### 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.

#### 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).

#### Recommendation 23.

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



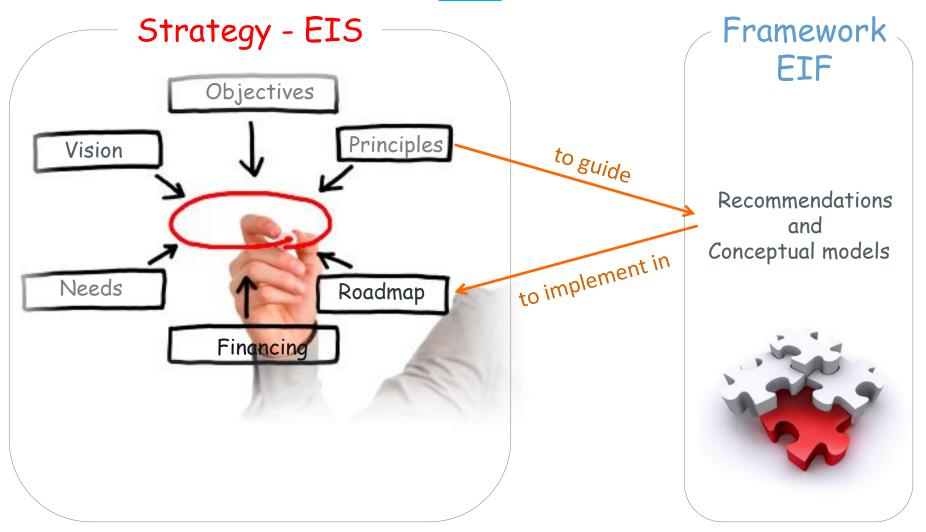






# EIS & EIF link up





# EIS what is in it





EIS should be more "concrete" with a clear shift towards "implementation". Definitions, objectives and clusters of the EIS should be simplified and clarified.



# EIS focus areas



FOCUS AREA	FOCUS AREA	FOCUS AREA	FOCUS AREA	FOCUS AREA
N° 1	N°2	N° 3	N°4	N° 5
Governance & Coordination	Organisational interoperability	Engagement/ Raising awareness	Key enablers	Supporting instruments

Include also actions coming from the ISA<sup>2</sup> legal basis

All actions should be user centered and needs driven

Proposed actions at both national and EU levels

# Consultation process + next steps









Commission



Join ISA initiatives at: <u>http://ec.europa.eu/isa/index\_en.htm</u> and (a) <u>http://joinup.ec.europa.eu</u>

