Interoperability in the context of Public Administrations

Interoperability Frameworks and Solutions for European public Administrations, businesses and citizens (ISA^2)

IJU Conference

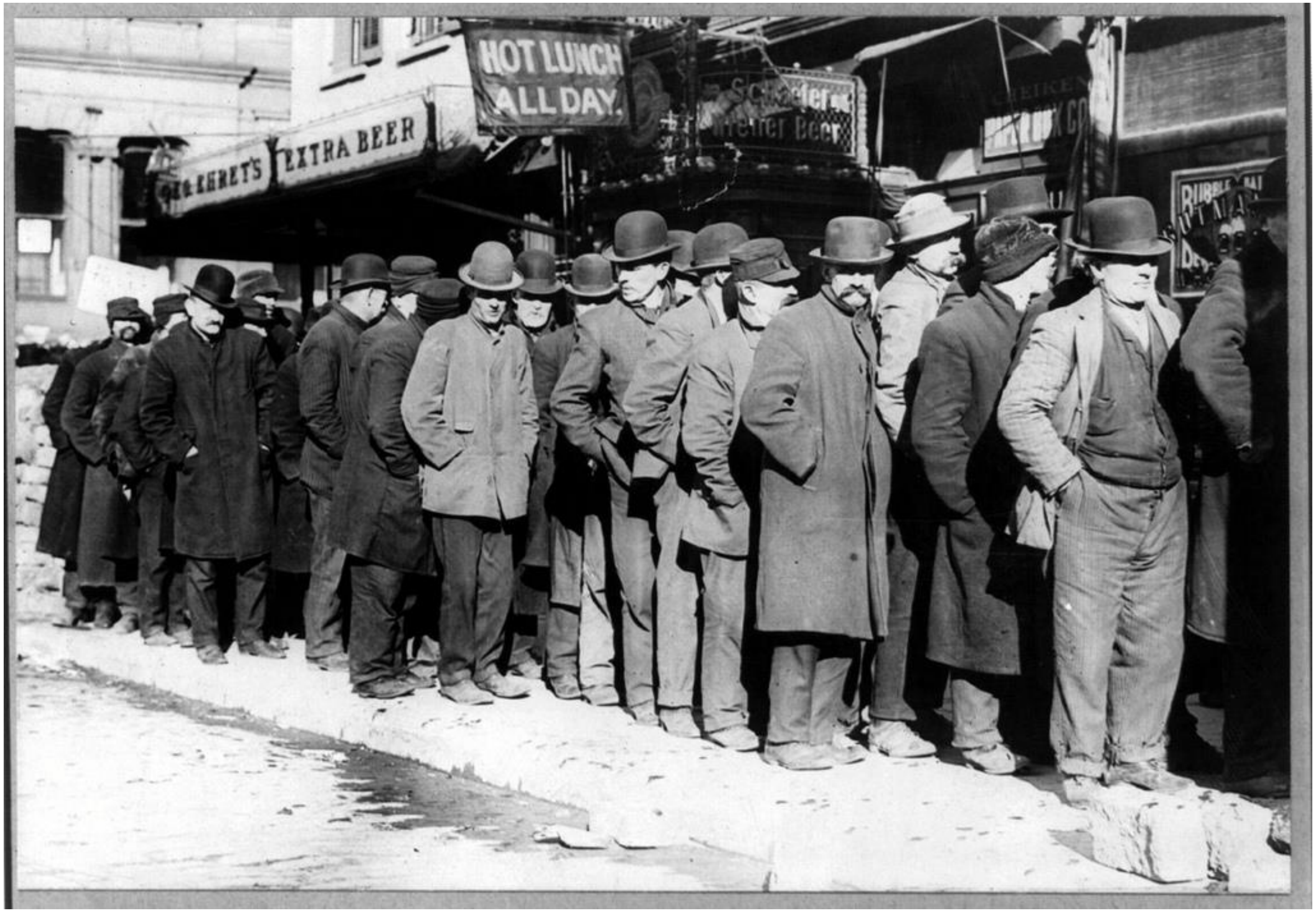
Brdo pri Kranju

6 December 2016

Peter Burian

European Commission

The Problem


HOT LUNCH
ALL DAY
EXTRA BEER
GEO. EHRET'S

The Question

- **What do we need to do in order to facilitate the lives of citizens?**

The Solution

How?

- **Provide easy-to-use and intuitive user-centric public services**

Digital Single Market
DSM

European
Commission

Interoperability

3 Creating an European Digital Economy and society with growth potential

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**

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

Unlocking e-commerce potential

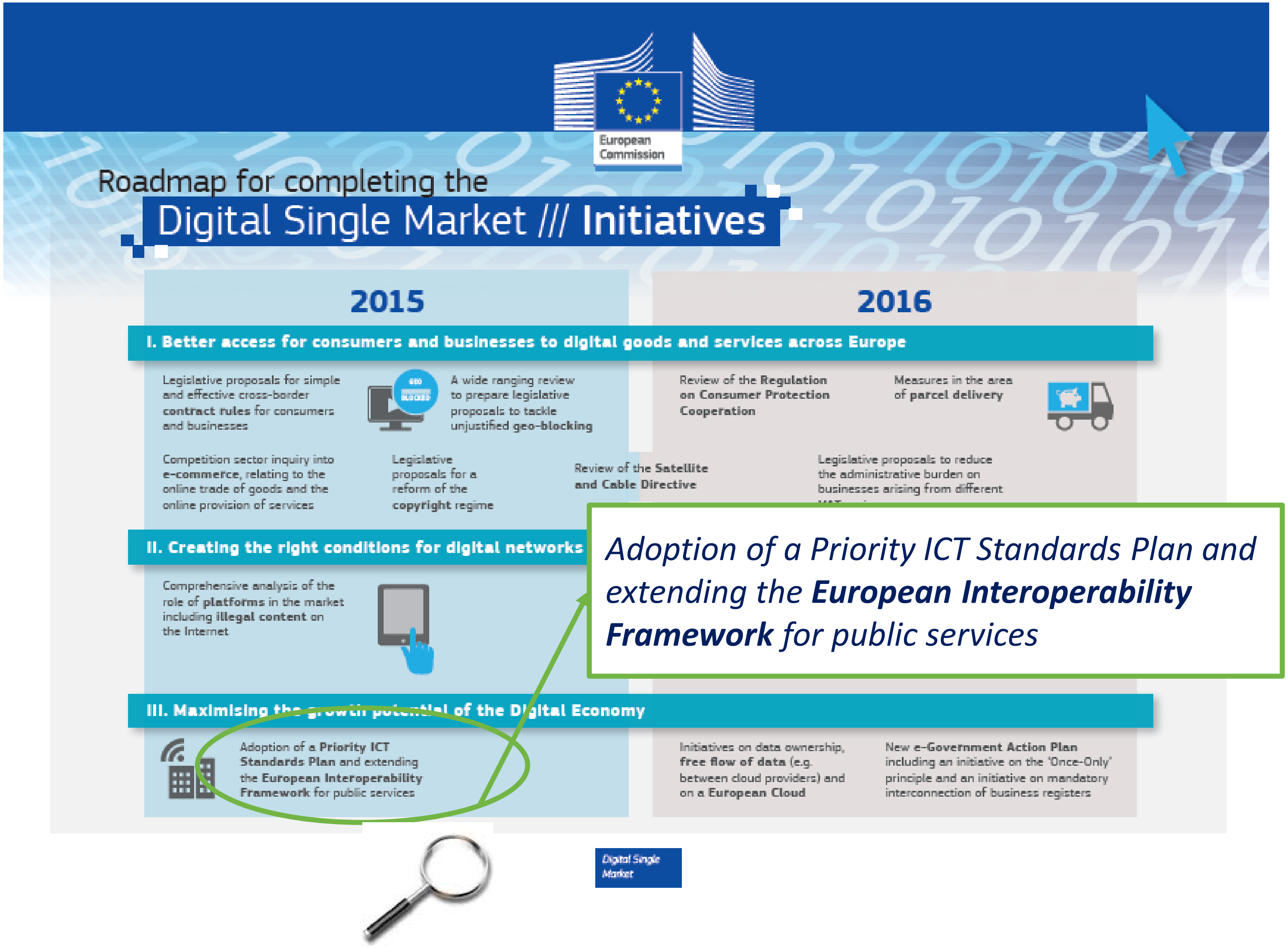
15% of consumers bought online from other EU countries in 2014 while **44%** did so **domestically**

2 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**

Interoperability in the DSM Roadmap



Roadmap for completing the

Digital Single Market /// Initiatives

2015 | **2016**

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

Legislative proposals for simple and effective cross-border **contract rules** for consumers and businesses

A wide ranging review to prepare legislative proposals to tackle unjustified **geo-blocking**

Review of the **Regulation on Consumer Protection Cooperation**

Measures in the area **of parcel delivery**

Competition sector inquiry into **e-commerce**, relating to the online trade of goods and the online provision of services

Legislative proposals for a reform of the **copyright** regime

Review of the **Satellite and Cable Directive**

Legislative proposals to reduce the administrative burden on businesses arising from different

II. Creating the right conditions for digital networks

Comprehensive analysis of the role of **platforms** in the market including **illegal content** on the Internet

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

Initiatives on data ownership, **free flow of data** (e.g. between cloud providers) and on a **European Cloud**

New e-Government Action Plan including an initiative on the 'Once-Only' principle and an initiative on mandatory interconnection of business registers

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

The importance of the public sector

Public sector

50% EU GDP

25% of total employment in EU

Public procurement 19% of EU GDP

e-procurement: 5%-20% of procurement expenditure (€100 - €400 bn annually)

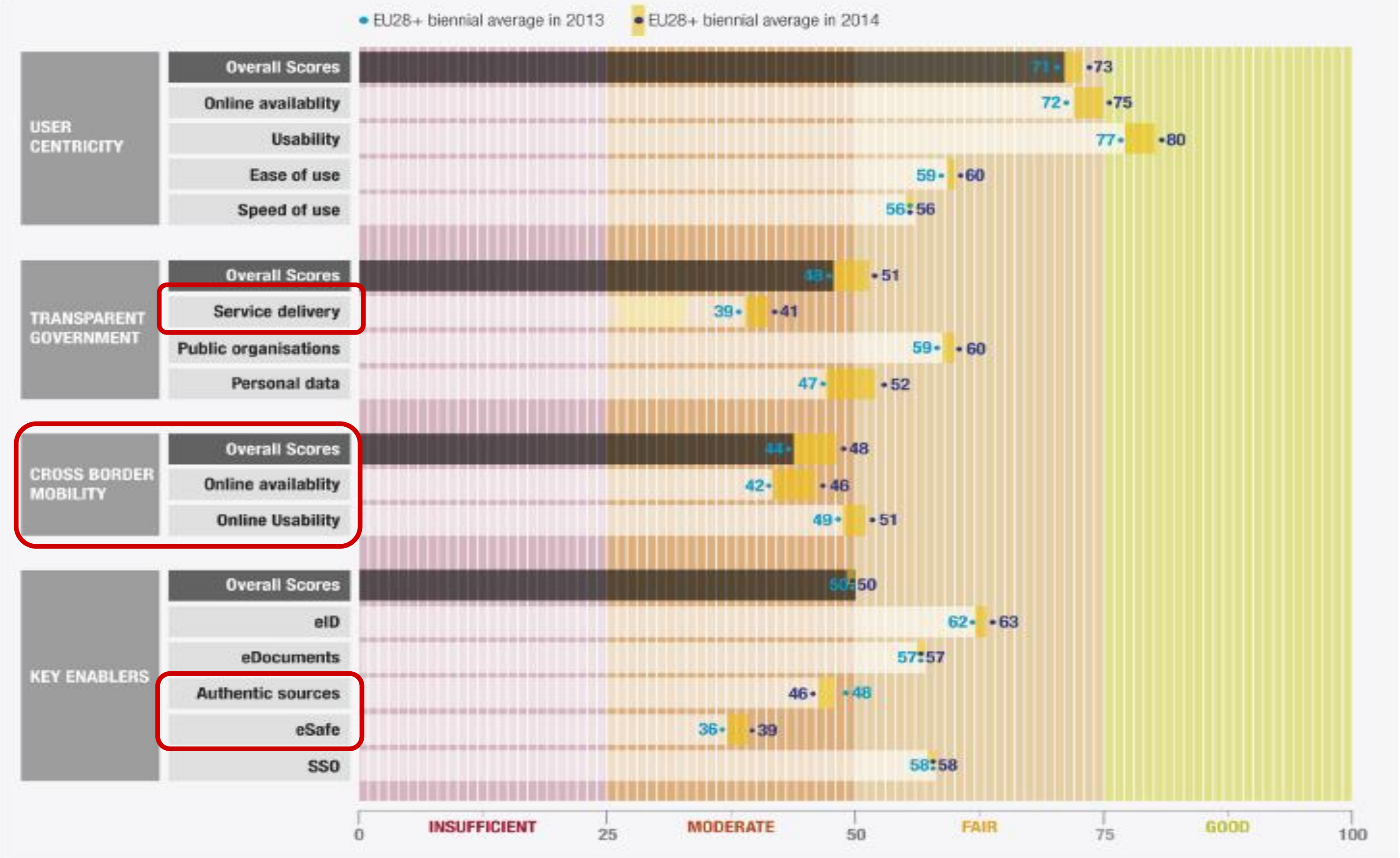
Modernisation of European public administrations

> *"The modernisation of public administrations should continue [...] Interoperability and the re-use of public sector information shall be promoted actively."*

(*) Council conclusions Oct 2013

Digital public services: actual situation

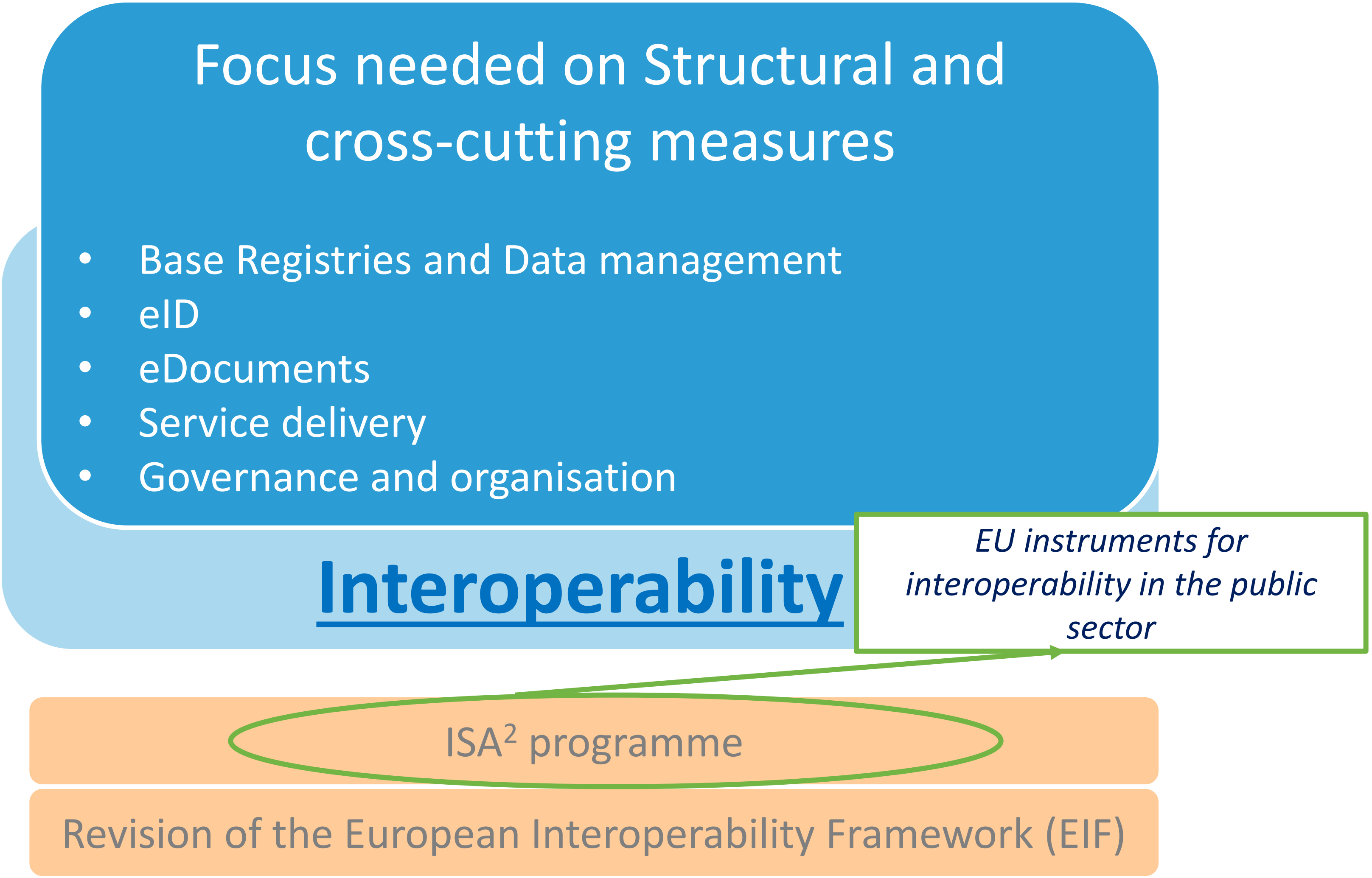
EU-28+ dashboard of Member States' overall performance



Interoperability in the public sector

European Commission

- 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



Focus needed on Structural and cross-cutting measures

- Base Registries and Data management
- eID
- eDocuments
- Service delivery
- Governance and organisation

Interoperability

EU instruments for interoperability in the public sector

ISA^2 programme

Revision of the European Interoperability Framework (EIF)

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

ISA² programme supporting Interoperability

European Commission

Holistic approach towards IOP in the EU

- Eliminating fragmentation in the IOP landscape
- Common understanding and global picture of IOP
- Instruments
  - Strategy
  - Framework
  - Architecture
  - Cartography
- Identify legislation Gaps

Scope

- Public administrations
- Business
- Citizens

Modernise PA at all levels

- EU and national level
- Drill down to regional and local

Links with other EU initiatives

- Connecting Europe facility (CEF)
- INSPIRE
- European Structural and Investment Funds
- H2020

Proposals from Member States and Commission services

~131M Euros
2016-2020

Execution by the European Commission

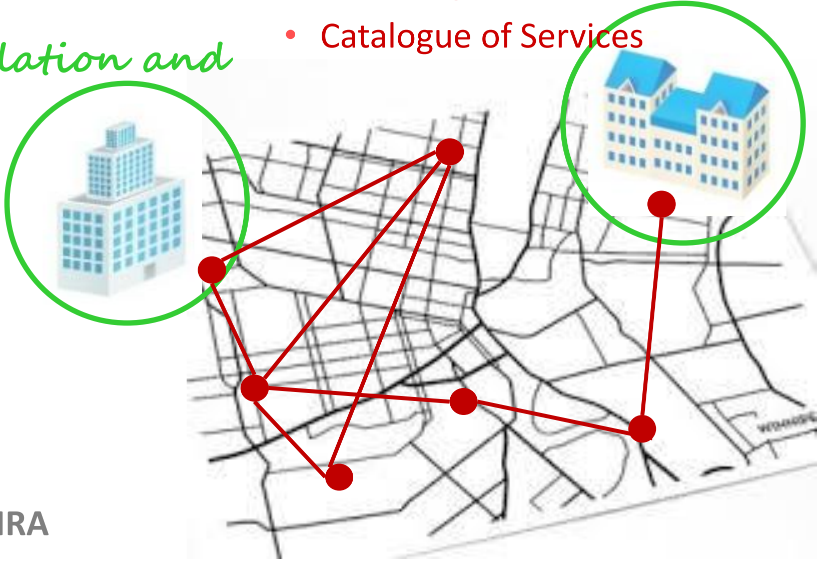
ISA^2
the holistic approach…

Holistic approach towards IOP in the EU

- Eliminating fragmentation in the IOP landscape
- Common understanding and global picture of IOP
- Instruments
  - Strategy
  - Framework
  - Architecture
  - Cartography
- Identify legislation Gaps

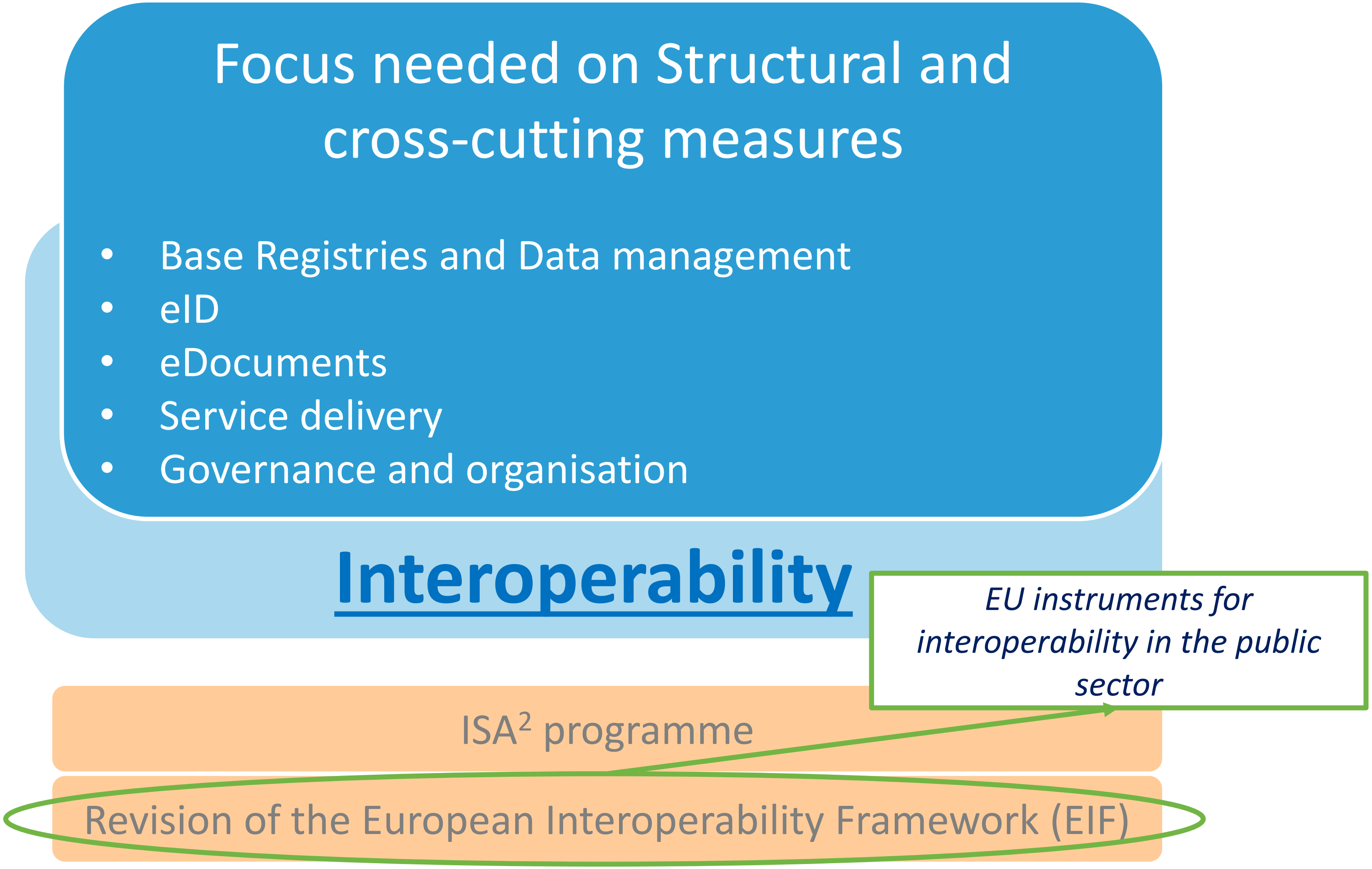
1. Supporting instruments ("City planning")
2. Key interoperability enablers ("City utilities")
3. Support EU legislation and initiatives

- Data exchange
- eID – eSignature
- Data management and semantic interoperability
- Base registries
- Catalogue of Services



- **European IOP Strategy & Framework (EIS and EIF)**
- **European Interoperability Reference Architecture – EIRA**
- European IOP Cartography – EIC

- **INSPIRE**
- **PSI**
- **FISMA**
- …



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Interoperability

EU instruments for interoperability in the public sector

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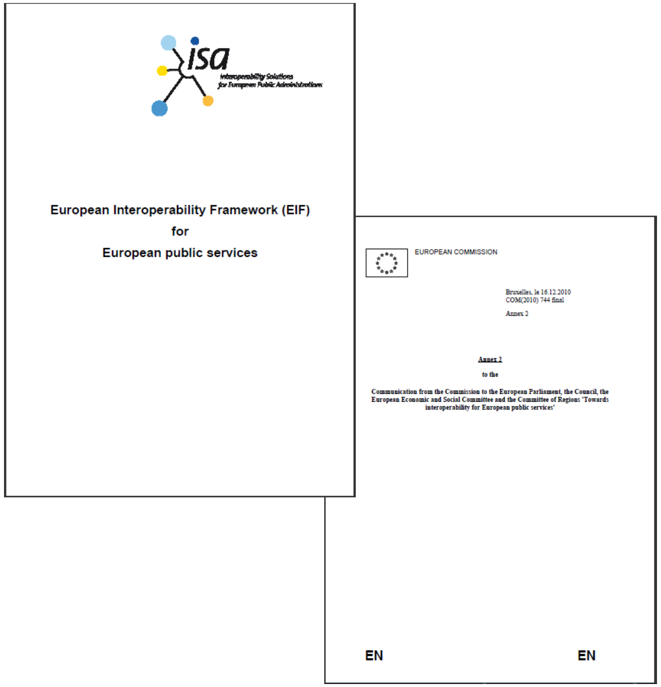
EIF: an EU instrument supporting IOP in the public sector

European Commission



isa
Interoperability Solutions for European Public Administrations

European Interoperability Framework (EIF)
for
European public services

EUROPEAN COMMISSION

Bruxelles, le 16.12.2010
COM(2010) 744 final

Annex 2

Annex 2

to the

Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of Regions 'Towards interoperability for European public services'

EN **EN**

In its Communication of 16 December 2010, the Commission introduced the European Interoperability Strategy (EIS) and the European Interoperability Framework (EIF)

European Interoperability Framework

- → Layered model on IOP
- → Conceptual model of public service
- → IOP principles
- → Recommendations

Maintained and supported by the ISA/ISA² programmes…

EIF revision
What is in it…

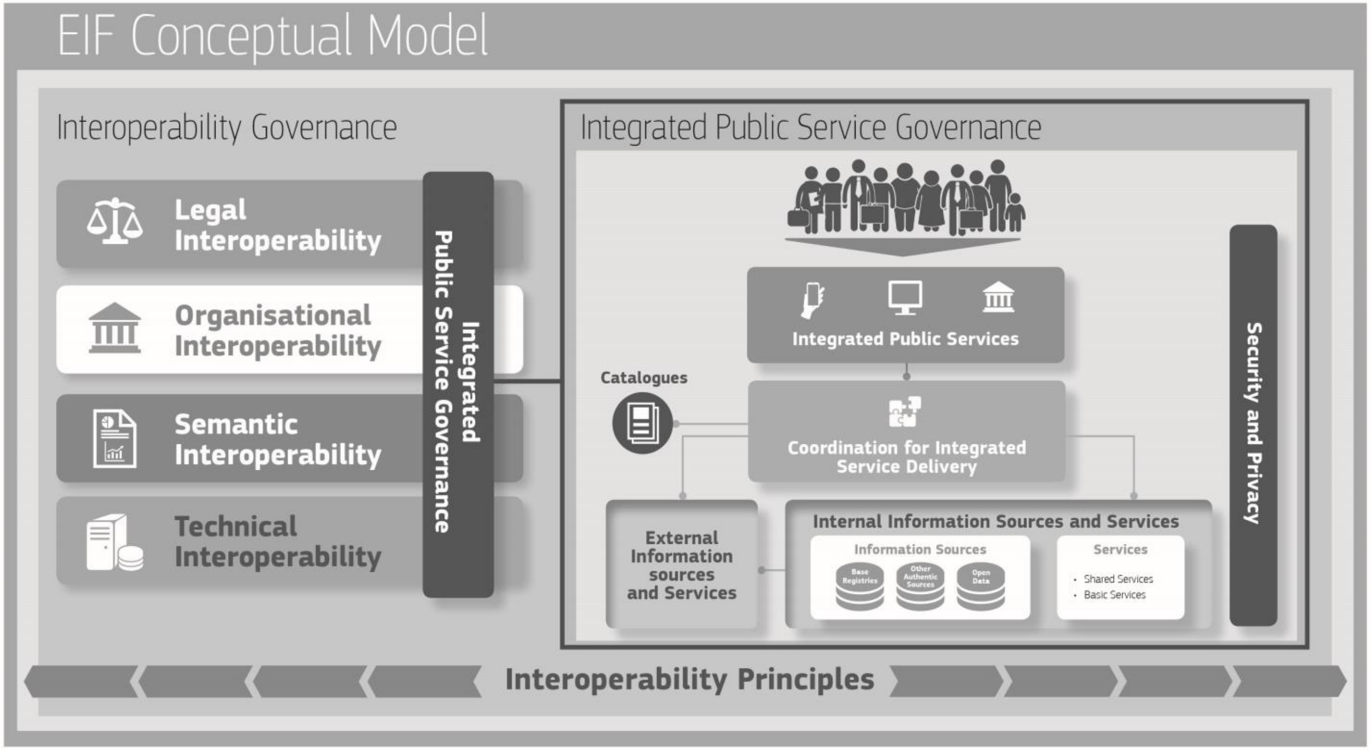
European Commission

example

Updated
IOP recommendations

Recommendation 41:

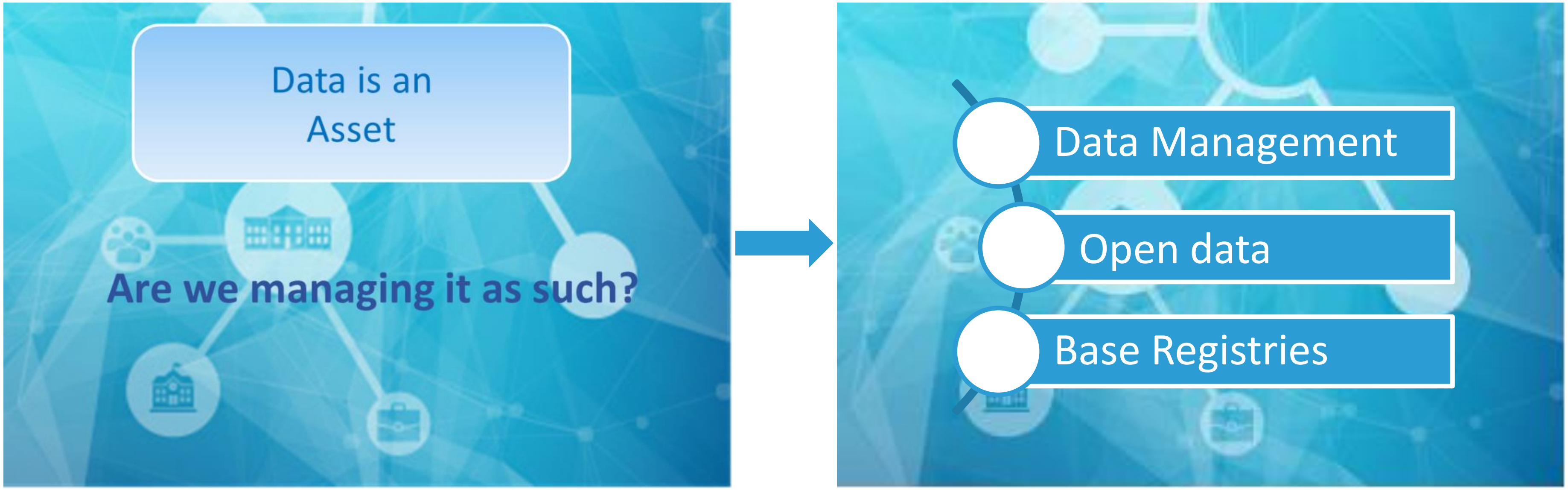
Establish procedures and processes to integrate the opening of data in your common business processes, working routines, and in the development of new information systems.


EIF Conceptual Model
Interoperability Governance
Legal Interoperability
Organisational Interoperability
Semantic Interoperability
Technical Interoperability
Integrated Public Service Governance
Integrated Public Service Governance
Integrated Public Services
Catalogues
Coordination for Integrated Service Delivery
External Information sources and Services
Internal Information Sources and Services
Information Sources
Base Registries
Other Authentic Sources
Open Data
Services
Shared Services
Basic Services
Security and Privacy
Interoperability Principles

Updated
IOP models

Vice-President Ansip in the U.S. March 10 & 11, 2016
"Data is the foundation of our digital future"
@Ansip_EU

Revised EIF dealing with Data

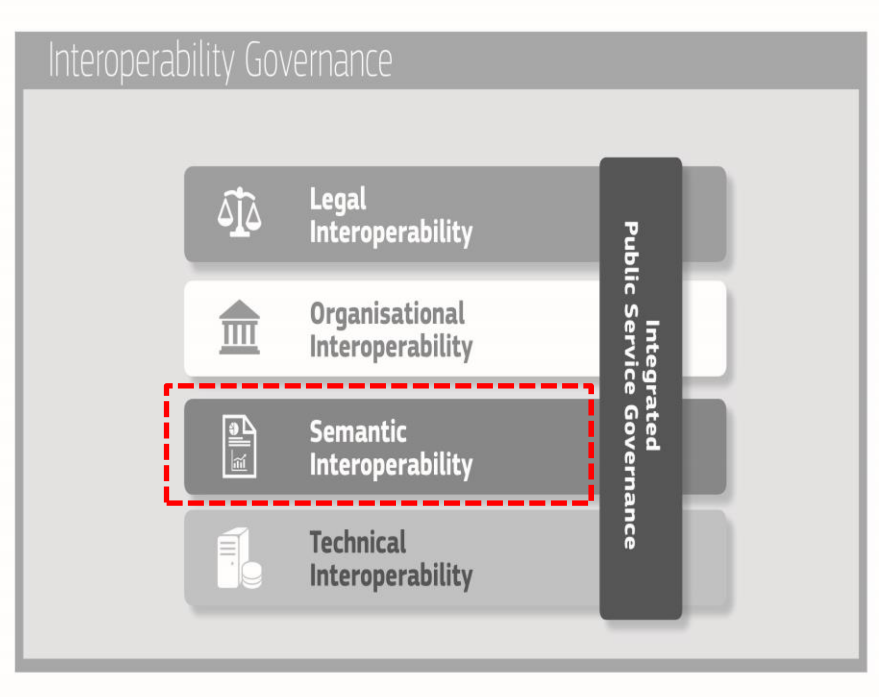


Data is an Asset

Are we managing it as such?

- Data Management
- Open data
- Base Registries

Data Management


Interoperability Governance
Legal Interoperability
Organisational Interoperability
Semantic Interoperability
Technical Interoperability
Integrated Public Service Governance

Recommendation 30:

Perceive data and information as a public asset that should be appropriately generated, collected, managed, shared, protected and preserved.

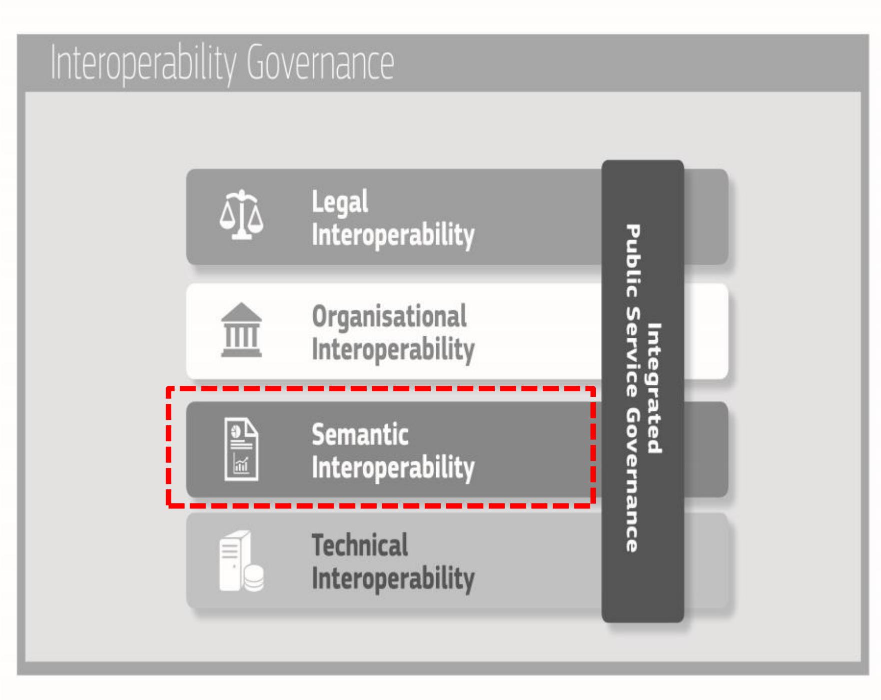
Recommendation 31:

Put in place an information management strategy at the highest possible level to avoid fragmentation and duplication. Management of metadata, master data and reference data should be prioritised.

Recommendation 32:

Support the establishment of sector-specific and cross-sectoral communities that aim to create open information specifications and encourage relevant communities to share their results on national and European platforms.

Open Data


Interoperability Governance
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__Recommendation 41:__

Establish procedures and processes to integrate the opening of data in your common business processes, working routines, and in the development of new information systems.

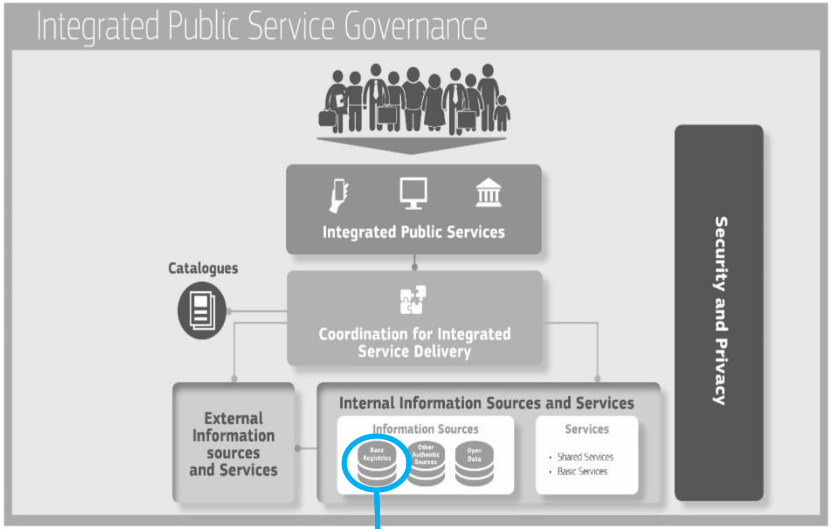
__Recommendation 42:__

Publish open data in machine-readable, non-proprietary formats. Ensure that open data are accompanied by high quality, machine-readable meta-data in non-proprietary formats, including a description of their content, the way data are collected and its level of quality and the licence terms under which it is made available. The use of common vocabularies for expressing metadata is recommended.

__Recommendation 43:__

Communicate clearly the right to access and reuse open data. The legal regimes for facilitating access and reuse, such as licences, should be standardised as much as possible.

Base Registries


Integrated Public Service Governance
Integrated Public Services
Catalogues
Coordination for Integrated Service Delivery
External Information sources and Services
Internal Information Sources and Services
Information Sources
Base Registries
Other Authentic Sources
Open Data
Services
Shared Services
Basic Services
Security and Privacy

Base Registries

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.

Recommendation 37:

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 38:

Develop interfaces to base registries and authoritative sources of information, publish the semantic and technical means and documentation needed for others to connect and reuse available information.

Recommendation 39:

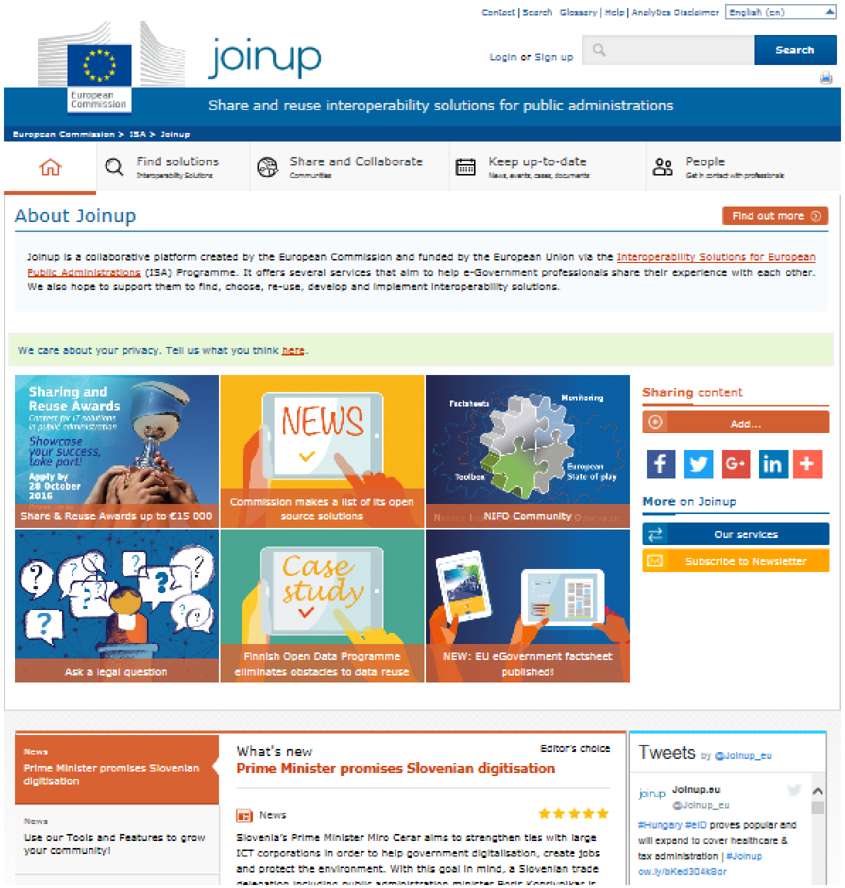
Accompany each base registry with appropriate metadata including the description of its content, service assurance and responsibilities, type of master data it keeps, conditions of access and associated licenses, terminology, glossary, as well as information about which master data it uses from other base registries, if any.

Recommendation 40:

Create and follow data quality assurance plans for base registries and related master data.

Join ISA initiatives at:
http://ec.europa.eu/isa/index_en.htm
and at http://joinup.ec.europa.eu

Q&A



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Share and reuse interoperability solutions for public administrations

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People

About Joinup

Find out more

Joinup is a collaborative platform created by the European Commission and funded by the European Union via the Interoperability Solutions for European Public Administrations (ISA) Programme. It offers several services that aim to help e-Government professionals share their experience with each other. We also hope to support them to find, choose, re-use, develop and implement interoperability solutions.

We care about your privacy. Tell us what you think here.

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Commission makes a list of its open source solutions

NIFO Community

Ask a legal question

Finnish Open Data Programme eliminates obstacles to data reuse

NEW: EU eGovernment factsheet published!

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What's new Editor's choice

Prime Minister promises Slovenian digitisation

News ★★★★★

Slovenia's Prime Minister Miro Cerar aims to strengthen ties with large ICT corporations in order to help government digitalisation, create jobs and protect the environment. With this goal in mind, a Slovenian trade

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@Joinup_eu
#Hungary #eID proves popular and will expand to cover healthcare & tax administration | #Joinup
ow.ly/bKed304k8or

ISA

Interoperability Solutions for European Public Administrations

ISA² – Developing and sharing IT solutions for less bureaucracy

Supporting the modernisation of public administrations

News

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Andrus Ansip, Vice-President of the European Commission in charge of the Digital Single Market

"Getting rid of complex, paper-based and duplicated processes will help to make the single market a reality in the digital age. It will make it easier for everyone to interact with governments, based on openness and transparency. I'm a strong advocate of open government."
Digital and Open Government conference, [illegible] June 2016

More information

Günther Oettinger, Commissioner for Digital Economy and Society

"The ISA² programme will have an instrumental role to play in the development of interoperability in the next 5 years (...)."
From ISA to ISA² conference, [illegible] March 2016

More information

Collaborate!

Stay tuned

eGov factsheets

Archive

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