ISA² Programme & EIF

Natalia

ARISTIMUÑO PEREZ

Head of Interoperability Unit,
DG DIGIT European Commission

European Commission

INTEROP SUMMIT 2018, Brussels, Belgium
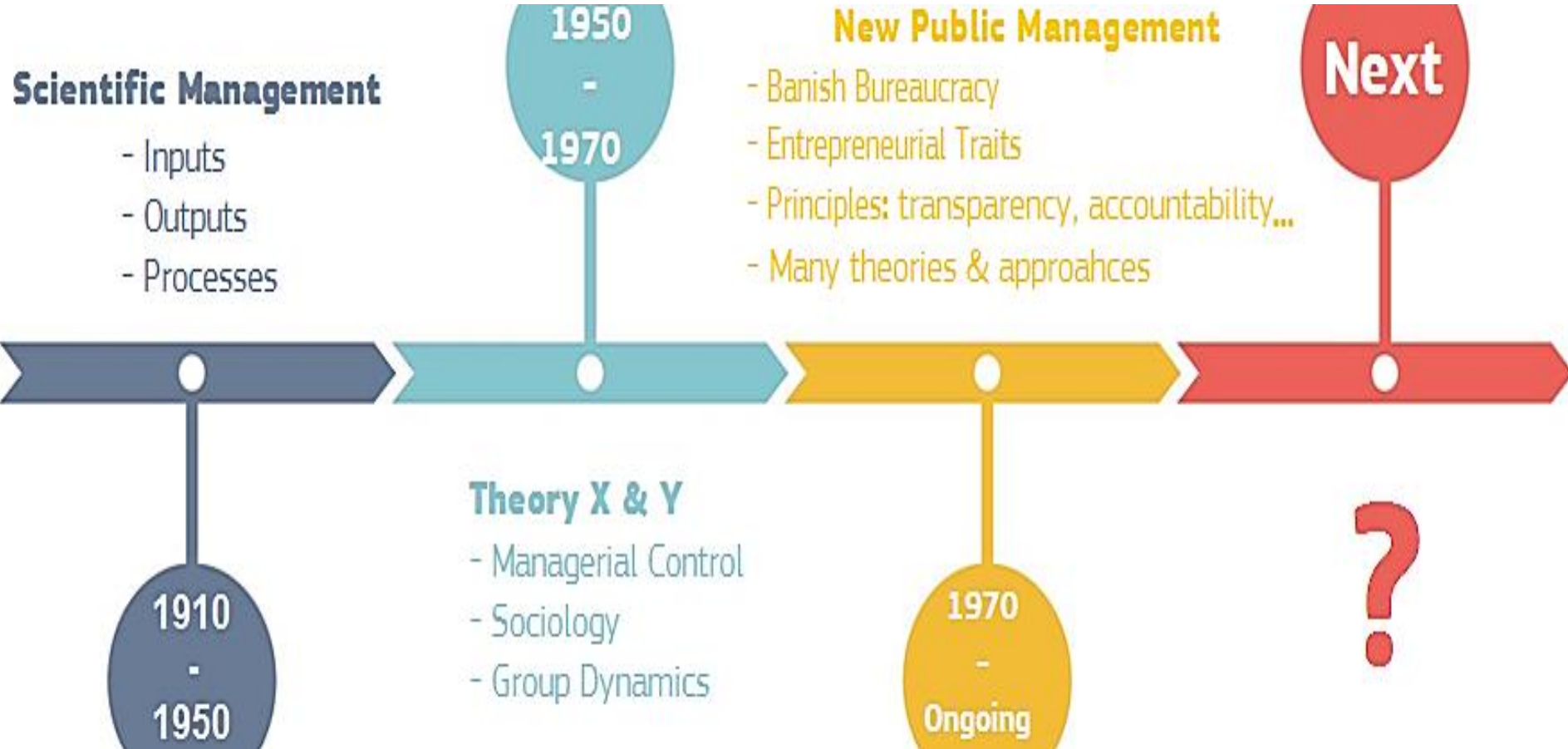23rd February 2017

ISA²

TABLE OF CONTENTS

Connecting public administrations, businesses and citizens

DIGITAL is everywhere.
It should be used as a key enabler in
any Public Service

THE PUBLIC SECTOR HAS BEEN TRANSFORMING SINCE THE BEGINNING

By 2025, everyone on Earth is expected to have internet access.

European Commission

ISA² PROGRAMME

More than 30 years digitising public administrations across the EU

| 1985-1992 | 1995 | 1999 | 2005 | 2010 | 2016 | 2020 |

CADDIA PROGRAMME

IDA Programme

Interchange of Data between Administrations

IDAII Programme

Follow-on programme of IDA

IDABC Programme

Interchange of Data between Administrations, Businesses and Citizens

ISA Programme

Interoperability Solutions for Public Administrations

ISA² Programme

Interoperability Solutions for Public Administrations, Businesses and Citizens

ISA² Programme solutions

Check out our interoperability and open source solutions to cut red tape. More to come!

Key & generic interoperability enablers	Semantic interoperability	Decision making & legislation	EU policies –Supporting instruments	e-Procurement/ e-Invoicing	Geospatial solutions	Supporting instruments for public administrations

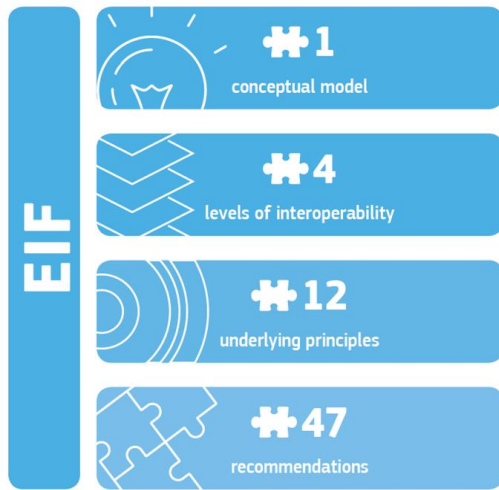|						
Secure document exchange platform **eTrustEx**	ArchiMate diagrams visualising e-Document lifecycle **e-Docs**	Data model to describe public services & associated life & business events **CPSV-AP**	Data communication network service **TESTA**	Metadata standard **DCAT-AP**	Share your own semantic assets **Core Vocabularies**	Government metadata management **ADMS**	Multilingual platform for collaborative thesaurus management **VocBench3**
Facilitate the editing of legislative texts **LEOS**	Gather statements of support online **OCS for ECIs**	e-Procurement system for Public Administrations **ePrior**	Facilitate participation in public procurement across the EU **ESPD**	Map certificates necessary in public procurement **e-Certis**	Manage & share reference codes **Re3gistry**	Common assessment method for standards & specifications **CAMSS**	Platform for sharing & reuse of IT solutions for public administrations **Joinup**
Communication & Info Resource Centre for Administrations, Businesses & Citizens **CIRCABC**	National Interoperability Framework Observatory **NIFO**	EU IOP Reference Architecture & EU Interoperability Cartography **EIRA & EICart**	Open Project Management Methodology **PM²**	Create, manage and analyse online surveys & public consultations **EUSurvey**	Open source licence **EUPL**	Interoperability Maturity Model **IMM**	Interoperability & conformance testing platform **IOP TestBed**

You click, we link!

ISA²

Learn more:

EIF (European Interoperability Framework)

EIF from abstract to practical
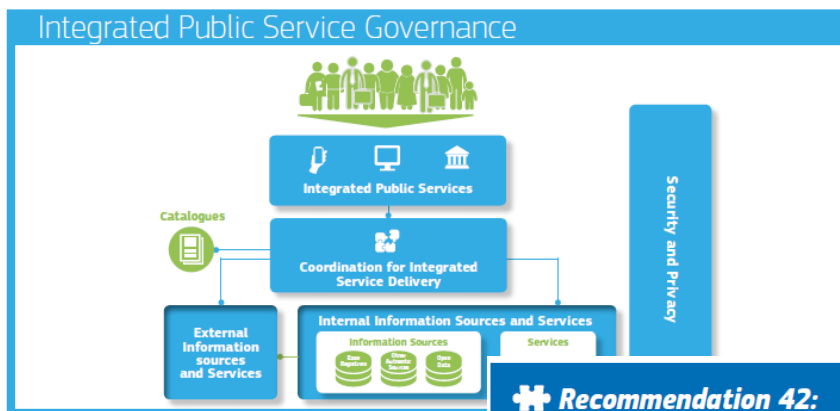
Use specs such as DCAT-AP (or extensions i.e. GeoDCAT-AP), CPSV, ADMS to describe open data, public services and interoperable solutions

Recommendation 42:

Publish open data in machine-readable, non-proprietary formats. Ensure that open data is accompanied by high quality, machine-readable metadata in non-proprietary formats, including a description of their content, the way data is 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 44:

Put in place catalogues of public services, public data, and interoperability solutions and use common models for describing them.

New EIF benefits

Public administrations

- More data and of good quality for better decision making
- Sharing and reuse to avoid vendor lock-in
- More credibility and trust

Citizens

- Easy to identify and use the needed public service
- Submission of data once-only
- Tracking progress and giving feedback
- More participation

Businesses

- Easy access to public services
- Easy to fulfil reporting obligations
- New opportunities by using open public data

Cost and time savings

European Commission

ISA²

Interoperability principles

1: Subsidiarity and proportionality
1 recommendation

2: Openness
3 recommendations

3: Transparency
1 recommendation

4: Reusability
2 recommendations

5: Technological neutrality and data portability
2 recommendations

6: User-centricity
4 recommendations

7: Inclusion and accessibility
1 recommendation

8: Security and privacy
1 recommendation

9: Multilingualism
1 recommendation

10: Administrative simplification
1 recommendation

11: Preservation of information
1 recommendation

12: Assessment of Effectiveness and Efficiency
1 recommendation

Reuse and EIF

Reuse & share at the core

**Underlying principle 4:
reusability**

There are some key challenges that limit the sharing and reuse of IT solutions, at technical, organisational, legal and communication levels. **The ISA² sharing and reuse framework for IT solutions**[12] **provides recommendations for public administrations** to help them overcome these challenges and share/reuse common IT solutions. Reuse and sharing can be effectively supported by collaborative platforms.[13]

Recommendation 6:
Reuse and share solutions, and cooperate in the development of joint solutions when implementing European public services.

Recommendation 7:
Reuse and share information and data when implementing European public services, unless certain privacy or confidentiality restrictions apply.

Sharing and Reuse of IT solutions Framework

- Advises public administrations on how they can create reusable IT solutions and how they can benefit from reusing already existing ones

- Should be used at all development stages of IT solutions & all levels of public administrations

4

Identifies 4 main types of barriers

10

10 key recommendations

13

13 recommended measures for central bodies

16

16 supporting instruments

ISA²

joinup

Share and reuse Interoperability solutions for public administrations, businesses and citizens

🔍 Start typing to search...

92
Collections
Collaborate around thematics

2706
Solutions
Interoperability solutions ready to use

16204
Events, discussions, news ...
To keep you up to date

Joinup is a collaborative platform created by the European Commission and funded by the European Union via the Interoperability solutions for public administrations, businesses and citizens (ISA²) 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.

PM² presentation
Joinup Moderator
13/10/2017

I will have the honour to present PM² and the Open PM² initiative during the "Rencontres du Management de Projet"

news 📄

EIRA
EUROPEAN INTEROPERABILITY REFERENCE ARCHITECTURE

EIRA

0 ⬦ solution ☑

Brand new Joinup
Joinup Moderator
04/10/2017

Welcome to the brand new Joinup! Joinup, the European Commission's collaboration platform for digital government
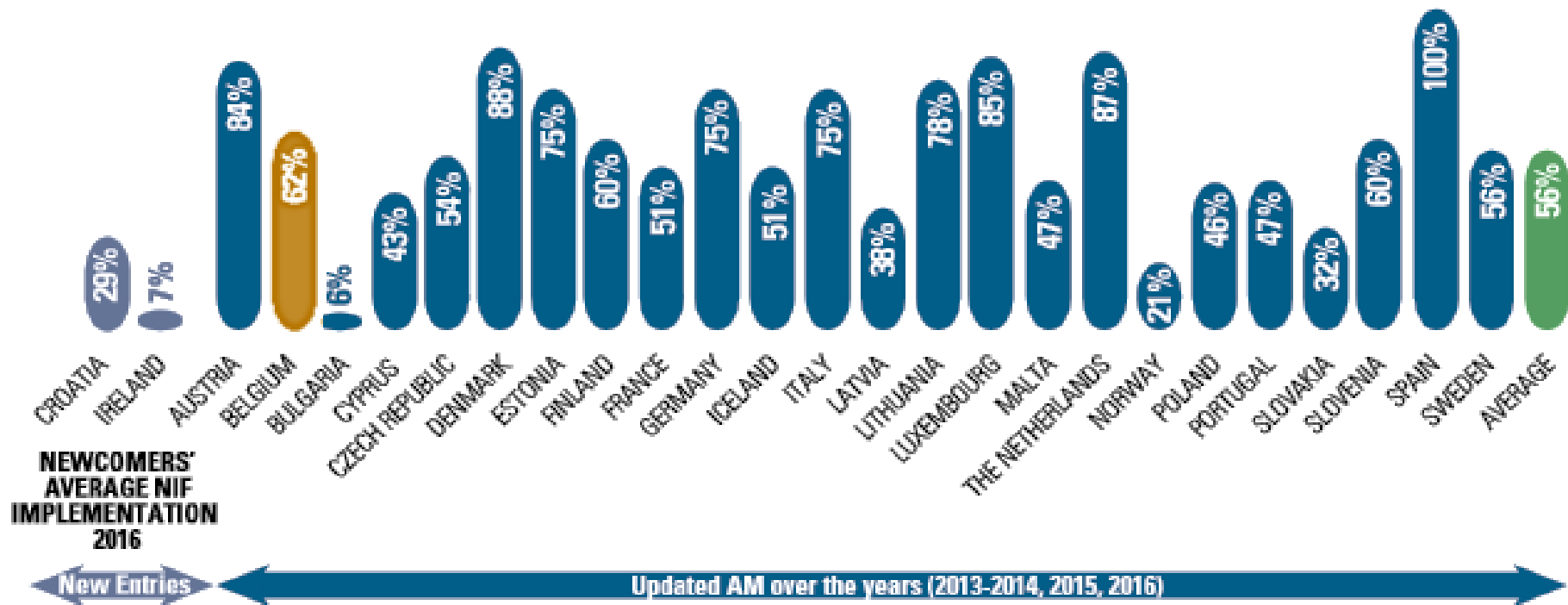
new joinup launch

news 📄

Licensing

EUPL

108 👤 collection ⬑

AVERAGE NIF IMPLEMENTATION 2016

NEWCOMERS'
AVERAGE NIF
IMPLEMENTATION
2016

Country	Value
CROATIA	29%
IRELAND	7%
AUSTRIA	84%
BELGIUM	62%
BULGARIA	6%
CYPRUS	43%
CZECH REPUBLIC	54%
DENMARK	88%
ESTONIA	75%
FINLAND	60%
FRANCE	51%
GERMANY	75%
ICELAND	51%
ITALY	75%
LATVIA	38%
LITHUANIA	78%
LUXEMBOURG	85%
MALTA	47%
THE NETHERLANDS	87%
NORWAY	21%
POLAND	46%
PORTUGAL	47%
SLOVAKIA	32%
SLOVENIA	60%
SPAIN	100%
SWEDEN	56%
AVERAGE	56%

New Entries

Updated AM over the years (2013-2014, 2015, 2016)

EIRA

European Interoperability Reference Architecture

Building efficient digital public services

EIRA. Why EIRA? (*)

(art 3) "…. *The ISA²programme shall support and promote:*

f) the mapping and analysis of the overall interoperability landscape in the Union **through the establishment, maintenance and improvement of the EIRA and the EIC as instruments to facilitate the re-use of existing interoperability solutions and to identify the areas where such solutions are still lacking**;

(g) **the maintenance, updating, promotion and monitoring of the implementation of the EIS, the EIF and the EIRA**"

EIRA benefits

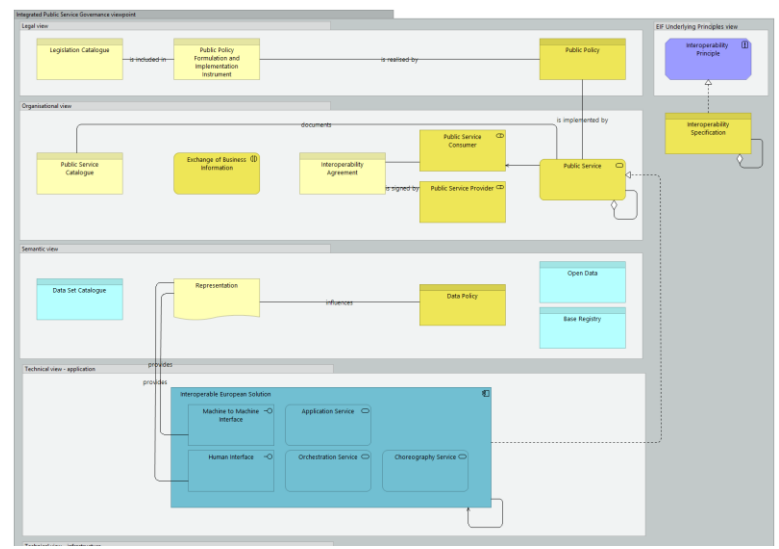|		
	Designing	Accelerate the design of systems that support the delivery of interoperable digital public services (across borders and sectors).
	Assessing	Provide a reference model for comparing existing architectures in different policy domains and thematic areas, to identify focal points for convergence and reuse.
	Communicating and Sharing	Help documenting the most salient interoperability elements of complex systems and facilitate the sharing of reusable solutions.
	Discovering and Reusing	Ease the discovery and reuse of interoperability solutions through the TES Cartography using the CarTool.

European Commission

ISA²

EIF - EIRA alignment

EIF
Framework and principles

EIRA
Implementation guidelines and specifications

Legal Interoperability

Organisational Interoperability

Semantic Interoperability

Technical Interoperability

Integrated Public Service Governance

ISA²

Always with they eye on the users

"EIRA© is particularly useful in tackling this. In particular, as a European model it could promote the enterprise architectural alignment between different institutions and regions in Belgium".

"As FPS BOSA DT's main mission is to promote Digital transformation, most of their recommendations to other public administration are based on EIRA© and CEF building blocks –e.g. eDelivery, Electronic Registered Delivery Services (ERDS)".

Arnaud REPER

Domain Architect
Digital Transformation Office
FOD Beleid en Ondersteuning
SPF Stratégie et Appui

HAPPY USER OF EIRA

FPS BOSA DT was first introduced to EIRA© within the ISA² programme's action 'European Interoperability Architecture (EIA)'. As part of the activities performed under this action, the team of FPS BOSA DT participated in workshops held from July to September 2016 with the objective to promote the use of EIRA© by EU Member States. During these workshops the team of FPS BOSA DT learned and tested EIRA© in a real-life case to better understand the benefits it can offer to their organisation. In the context of these workshops, their solution 'Ecosystem' was mapped to EIRA©/ CarTool© and specific architectural model was prepared.

Furthermore, FPS BOSA DT uses CarTool© together with EIRA© to model solutions. The main challenge encountered while using EIRA© was getting consensus between business and technical people as well as aligning their understanding and objectives. This challenge was most pronounced when validating architecture models between top-management and IT operational staff. In addition, another challenge in Belgium was the variety of laws between the regions making it difficult to have one common approach when developing a solution. EIRA©/ CarTool© is particularly useful in tackling this. In particular, as a European model it could promote the enterprise architectural alignment between different institutions and regions in Belgium.

FPS BOSA DT uses the following areas of support:
- Decoupling functionalities in Architectural Building Blocks;
- Providing the key Interoperability enablers Architectural Building Blocks;
- Accelerating development cycle.

EIRA©/ CarTool© enables FPS BOSA DT's to:

- Reuse EU Building blocks;
- Promote interoperability between different level of administrations;
- Use the EU experience to speed up the transition to digital government;
- Provide guidance for the digital agenda for digital Belgium;
- Support the digital agenda of Belgium.

As FPS BOSA DT's main mission is to promote Digital transformation, most of their recommendations to other public administration are based on EIRA©/ CarTool© and CEF building blocks (e.g. eDelivery, Electronic Registered Delivery Services (ERDS)). They highly recommend the use of EIRA© to other administrations, as it helps to save money in developing solutions, and enables the collaboration with public administrations across the EU.

Once FPS BOSA DT began using EIRA©, at first they found it complex to use due to its multiple views. Thus, to understand every block they required a lot of interaction and feedback within the organisation. However, following this initial learning phase, FPS BOSA DT found the architecture blueprint provided by the European Commission to be very useful. FPS BOSA DT now shares the blueprint with their partners within the Belgian federal and regional government. Currently, they find it faster and easier to setup different solutions, reusing building blocks from the EU and are currently using EIRA©/ CarTool© in the development of the 'eBox' solution.

SEMIC 2018

Semantic Interoperability Conference

Linked Digital Public Administrations

14 June 2018 – Sofia, Bulgaria

#SEMIC2018
@EU_isa2

Initiative supported by the ISA^2 Programme

Questions?

ISA² programme
You click, we link

Run by the ISA Unit at DIGIT (European Commission) with 131€M budget, the ISA² programme provides public administrations, businesses and citizens with specifications and standards, software and services to reduce administrative burdens.

@EU_ISA2

isa2@ec.europa.eu

ec.europa.eu/isa2