

# ISA<sup>2</sup> Programme

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General view of ISA<sup>2</sup> Programme

EIF: European Interoperability Framework

EIRA: European Interoperability Reference
Architecture

**CEF: Building Blocks** 

**DPA: Digital Public Administration** 



# ISAZ

INTEROPERABILITY SOLUTIONS FOR PUBLIC ADMINISTRATIONS, BUSINESSES AND CITIZENS



#### ISA<sup>2</sup>

Anticipate needs, develop and pilot concrete solutions

#### **CEF**

Large scale deployments in key domains

#### EIF

Convergence & understanding

**High value added Services for everybody** 

# **CHECK OUT AND DOWNLOAD ISA<sup>2</sup> SOLUTIONS**

ec.europa.eu/isa2



#### **EU Survey**

Multilingual online surveys

More than 5,400 surveys in 2016



Metadata management and reuse of semantic assets

83,000 datasets from 15 national data portals



#### OCS for ECIs

Gather statements of support online

33 out of 41 European Citizens Initiatives launched in 2016



#### **JOINUP**

Collaborative platform to share and reuse IT solutions

Single access point to 2830 IT solutions 72 communities 30,219 users



#### CPSV-AP

A data model for describing public services and the associated life and business events 1,100 times downloaded until January 2017

#### e-TrustEX

A secure document exchange platform

500,000 electronic messages in 2014 Used by:



7 National Parliaments

European Commission & EU bodies

8 Permanent Representations

#### **TESTA**

A data communication network service, operated by the European Commission

80 applications in various EU policies domains 10 services at Member State level





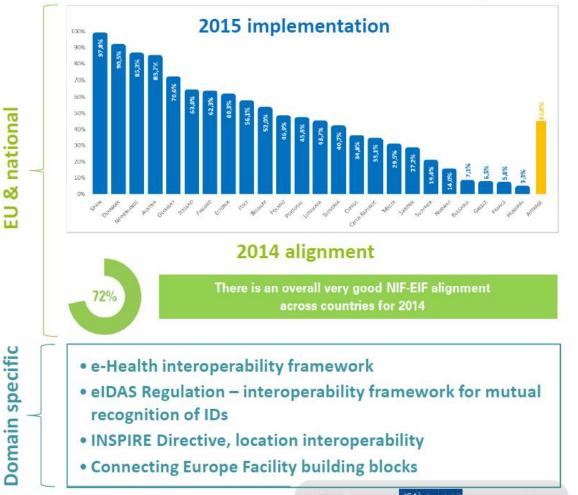
# EUROPEAN INTEROPERABILITY FRAMEWORK

Connecting public administrations, businesses and citizens

# Baseline - EIF 2010



# So far so good





#### **New EIF?**



### ... but still some way to go



# Alignment with policy development

- Digital Single Market (EIF revision in the Roadmap)
- Revised Directive on Public Sector Information
- eIDAS Regulation
- e-Government Action Plan 2016-2020



# Alignment with emerging technological trends

- Interoperability governance
- Integrated service delivery
- Information Management (big & open data)
- European Interoperability Reference Architecture
- Security & privacy



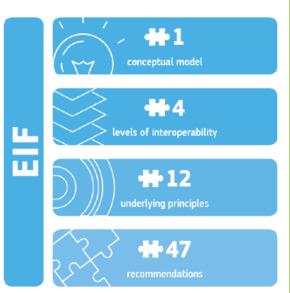
# More focus on EIF implementation

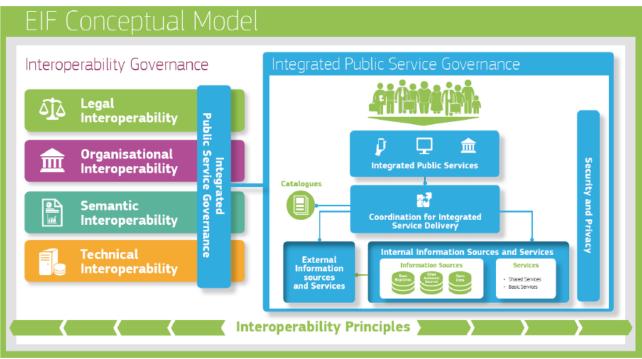
- More concrete recommendations
- Point to specific solutions that can facilitate implementation
- Interoperability Action
   Plan

## **EIF** overview



## Revised ... and more complete







#### Reuse & share at the core

There are some key challenges that limit the sharing and reuse of IT solutions, at technical, organisational, legal and communication levels. **The ISA<sup>2</sup> sharing and reuse framework for IT solutions**<sup>12</sup> **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.<sup>13</sup>

#### **Recommendation 6:**

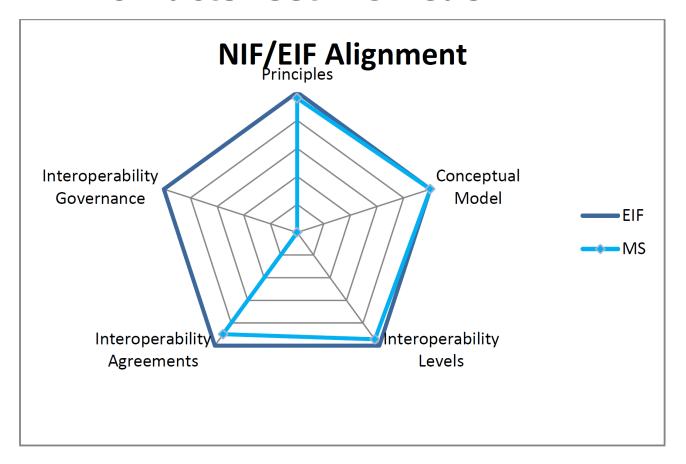
Reuse and share solutions, and cooperate in the development of joint solutions when implementing European public services.

#### **Recommendation 7:**

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



#### **NIFO Factsheet - Sweden**



# **EC** proposes



# EU Institutions and Member States to implement



Communication, COM(2017) 134, 23 Mar 2017

"European Interoperability Framework – Implementation Strategy"

Annex 1: Interoperability Action Plan (5 focus areas, 22 actions)

Annex 2: The European Interoperability Framework

Support by ISA<sup>2</sup> (131 M€, 2016-2020)



# 

**European Interoperability Reference Architecture** 

**Building efficient digital public services** 



## **EIRA.** Why EIRA? (\*)

".... The ISA<sup>2</sup>programme 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





ANNEX 2

European Interoperability Framework (EIF)
Framework and principles

YON

European Interoperability Reference Architecture (EIRA)

Implementation Guidelines and Specifications

http://eur-lex.europa.eu/resource.html?uri=cellar:2c2f2554-0faf-11e7-8a35-01aa75ed71a1.0017.02/DOC 1&format=PDF http://eur-lex.europa.eu/resource.html?uri=cellar:2c2f2554-0faf-11e7-8a35-01aa75ed71a1.0017.02/DOC 2&format=PDF http://eur-lex.europa.eu/resource.html?uri=cellar:2c2f2554-0faf-11e7-8a35-01aa75ed71a1.0017.02/DOC 3&format=PDF

#### **EIRA. Use Cases**









Designing



Assessing

- Design solution architectures
- **Create Cartography**

- Assessing solution architectures
- Portfolio mgmt decision support
- Support Impact Assessment on ICT



Communicating and Sharing

Document interoperability solutions



Discovering and Reusing

Search for interoperability solutions

#### **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.

# EIRA. How EIRA & CarTool support IOP in e-Government?



Decoupling functionalities in Architectural Building Blocks

Facilitating the identification of IOP specifications

Providing the key interoperability enabler ABBs

Accelerating development cycle

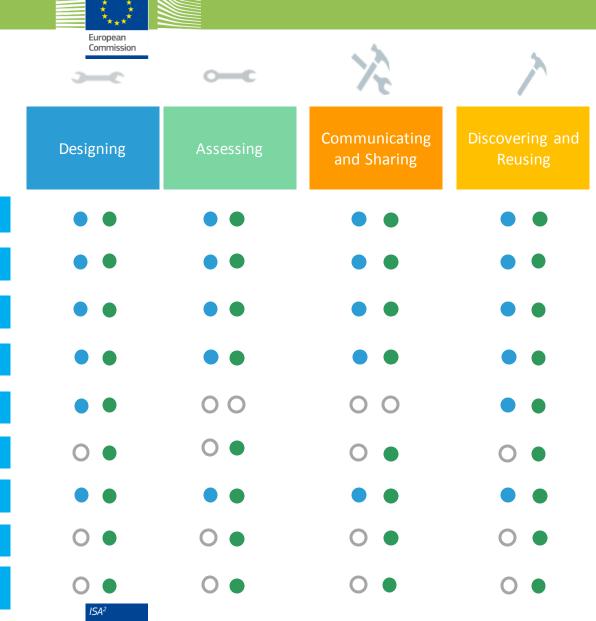
**Enabling cartographies** 

Promoting discovery/reusability

Supporting Portfolio Mgmt Decision

Making

Supporting Public Policy formulation



## **EIRA.** Deployment state of play



- ✓ EIRA/CarTool downloads: +1600
- ✓ Pilots/Workshops in European Institutions: EC, Council, Committees
- ✓ Pilots/Workshops in Member States: EE, NL, DK (2), ES, CZ, BE, LUX
  - ✓ In EE EIRA was used to model *EESTI* (High level model of all the public services)
  - ✓ In DK was used to model *e-Prescription* (Patient treatment Public Service) and in September it will be used to compare reference architectures

#### **EIRA.** Next priorities



- ✓ Workshops in 3 Member States in 2018
- ✓ Release of EIC v1.0.0 with a focus on EC highly Reusable & interoperable solutions (i.e. CEF)
- ✓ Support Member States:
  - ✓ in the creation of their national cartographies using CarTool
  - ✓ Promotion of the common guidelines to assess reusability and interoperability in the Member States
  - ✓ Sharing national solutions in the EIC
- ✓ Further understanding/identification of <u>key</u> interoperability enablers (\*)
- Further understanding on interoperability specifications

(\*) 'key interoperability enablers' means interoperability solutions that are necessary to enable the efficient and effective delivery of public services across administrations DECISION (EU) 2015/2240 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 25 November 2015 http://eur-lex.europa.eu/legal-content/EN/TXT/? uri=CELEX%3A32015D2240



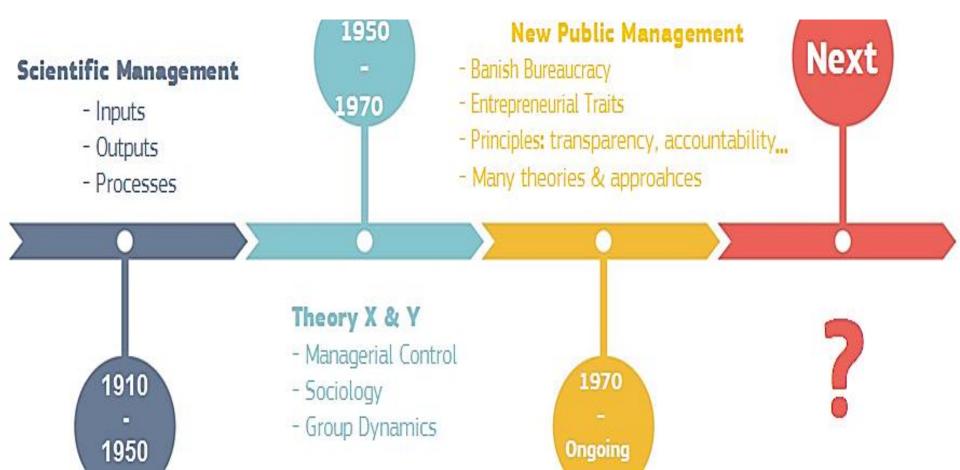
# DPA Digital Public Administrations



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



# THE PUBLIC SECTOR HAS BEEN TRANSFORMING SINCE THE BEGINNING





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

How could we harness such a DIGITAL reality for Public Administrations?



For convergence and efficiency?

- in our Infrastructures for example -



For streamlining Digital Public Services & scaling-up Innovation?



For mutual recognition by design, via cross-border interoperability?



For providing trusted digital consultancy when really needed?



# Digital Public Administration Programme

#### DPA- Consultancy Hub

Technical assistance

#### DPA- Innovation Hub

Networks of excellence

#### **DPA- public services**

Expansion of the services provided by CEF and ISA2, focus on data services

#### **DPA-Infrastructure**

Secure cloud platform/rationalisation of investments

# DPA- Inter-operability and reuse of services





**Questions?** 



# ISA<sup>2</sup> programme You click, we link!

Run by the ISA Unit at DIGIT (European Commission) with 131€M budget, the ISA<sup>2</sup> programme provides public administrations, businesses and citizens with specifications and standards, software and services to reduce administrative burdens.



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