

Framing Interoperability in Europe (EIF and ISA²)

7th International eDemocracy Conference

Athens – 14 December 2017

Pedro das Neves Moreira

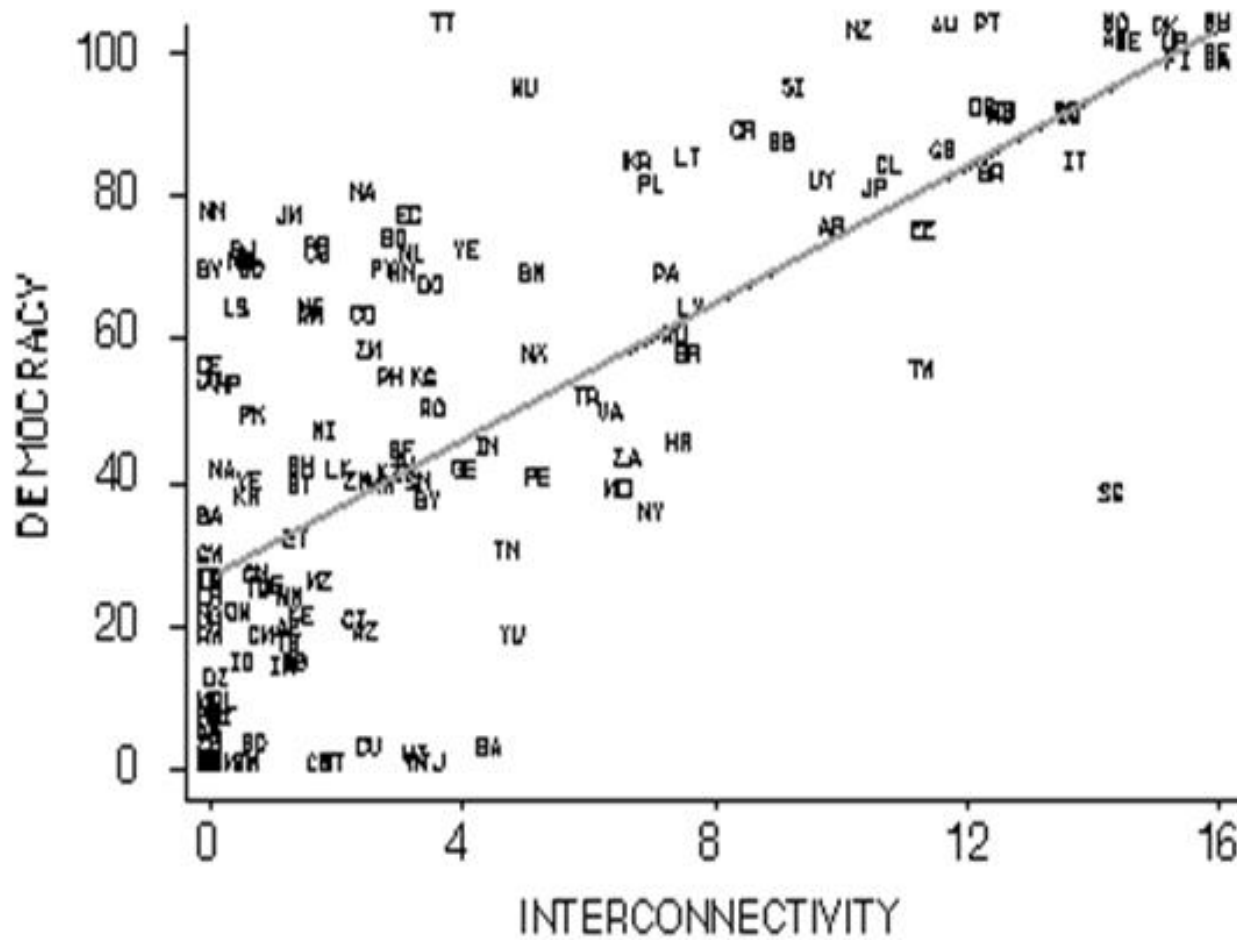
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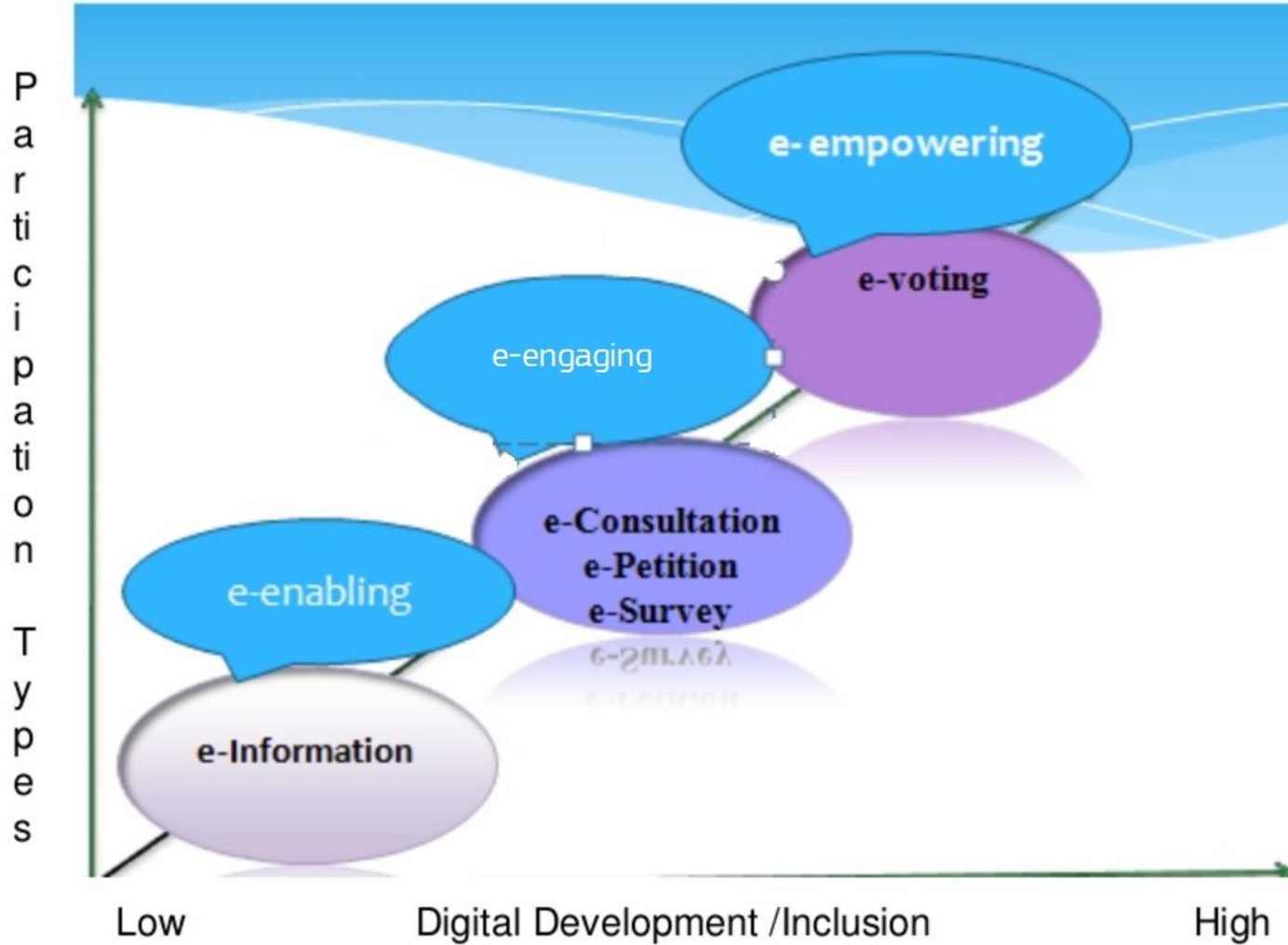
European Commission

Back in 1995



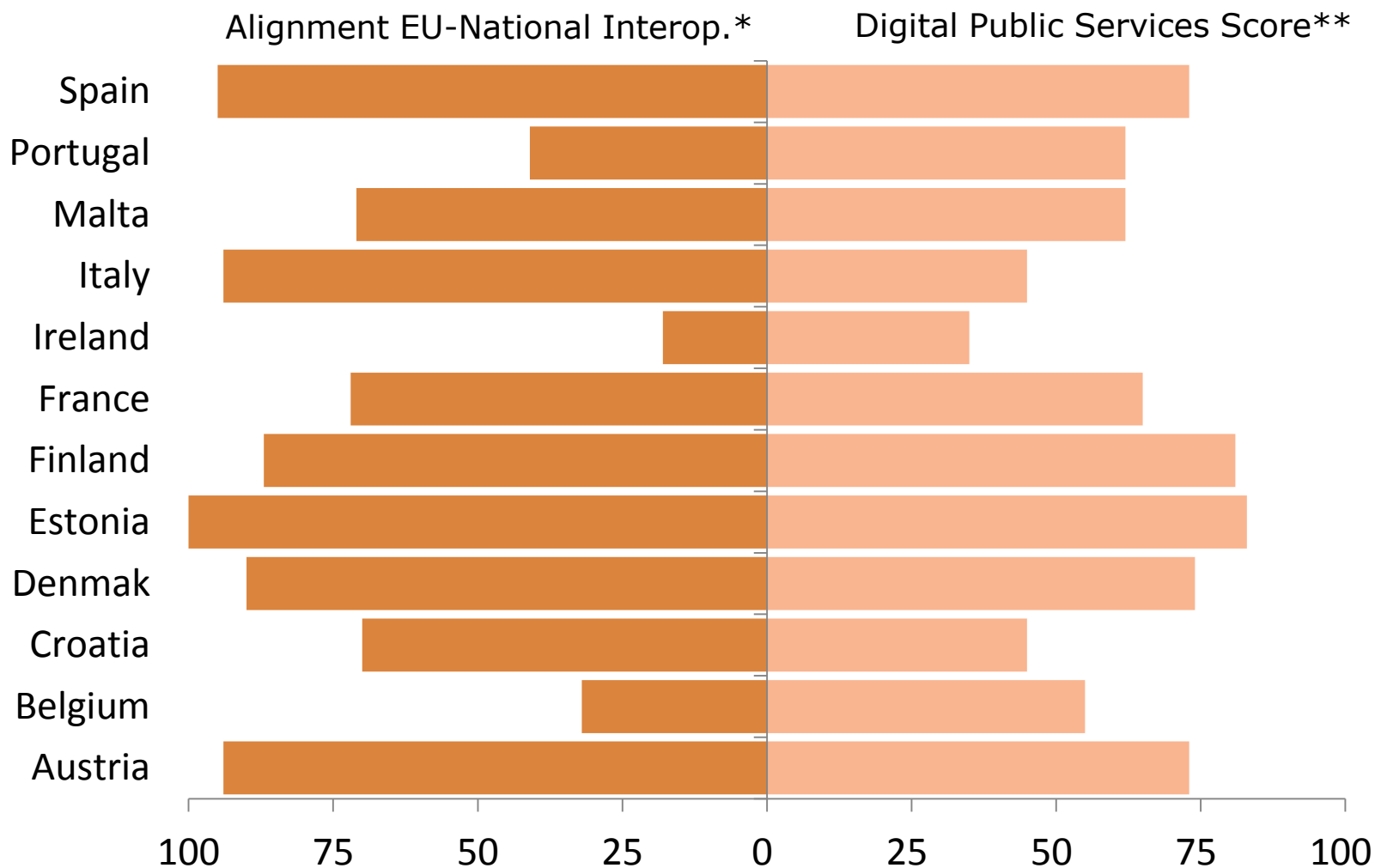
Source: The Internet Society - Democracy and Network Interconnectivity

In 2015



Digital Public Services & Interoperability

Self Reinforcing



ISA²

Source:

* National Interop. Framework Observatory - 2016

** Digital Economy and Society Index - 2016

Citizens & businesses on the move, Cross-border on the rise!



EU CITIZENS in another Member State

Workers	7.1 million (2013)
Residents	18.5 million (2014)
eConsumers	20% of online shoppers (2015)

SMEs active in another Member State

Exporters	5.5 million (2010)
Investors	0,5 million (2010)

Estimated demand for cross-border Online Services

> 2 million/p.a.

European Digital Ministers Tallinn Declaration on eGovernment – 6.10.17



Full adoption of the **principles of the EU eGovernment Action Plan** including the **interoperability by default**;

National interoperability frameworks based on the European Interoperability Framework (EIF), and adhere to EIF for cross-border digital public services.



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**

(mainly) supported by ISA²



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 trends

- Interoperability governance
- Integrated service delivery
- Data/Information management
- 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



1
conceptual model



4
levels of interoperability



12
underlying principles



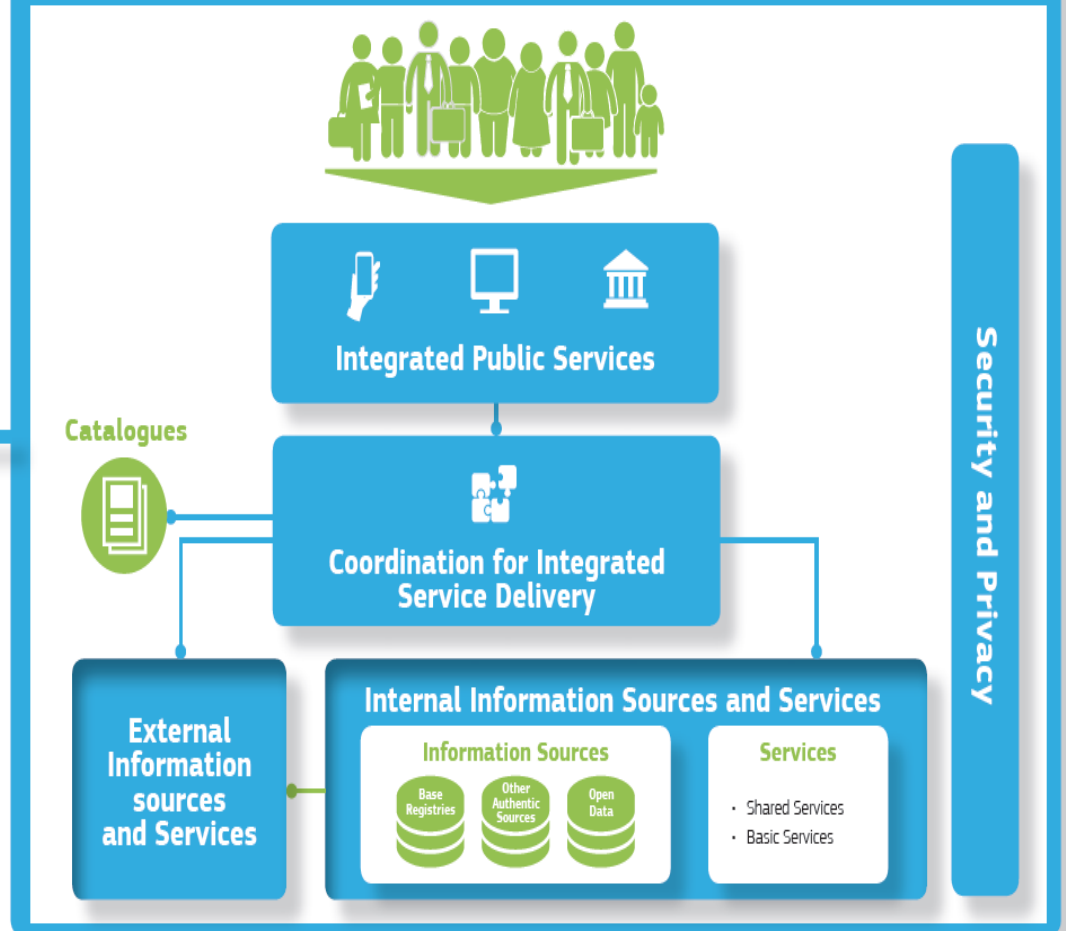
47
recommendations

EIF Conceptual Model

Interoperability Governance



Integrated Public Service Governance



Interoperability Principles



Underlying Principle 2: Openness

Recommendation 2:

Publish the data you own as open data unless certain restrictions apply.

Recommendation 4:

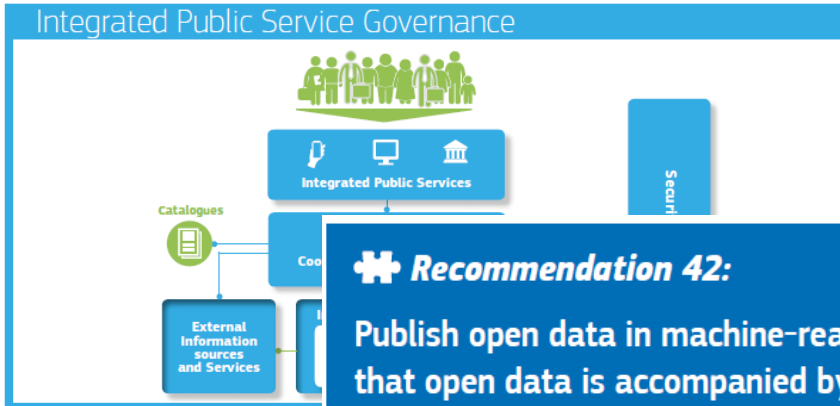
Give preference to open specifications, taking due account of the coverage of functional needs, maturity and market support and innovation.

EIF 2017 – Conceptual model & Recommendations example



European
Commission

Conceptual model for integrated public services



+ 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.

Use specs such as
DCAT-AP (or extensions i.e. GeoDCAT-
AP), Core Public Services Vocabulary,
public services and interoperable
solutions



National Interoperability Framework Observatory - NIFO

Scope

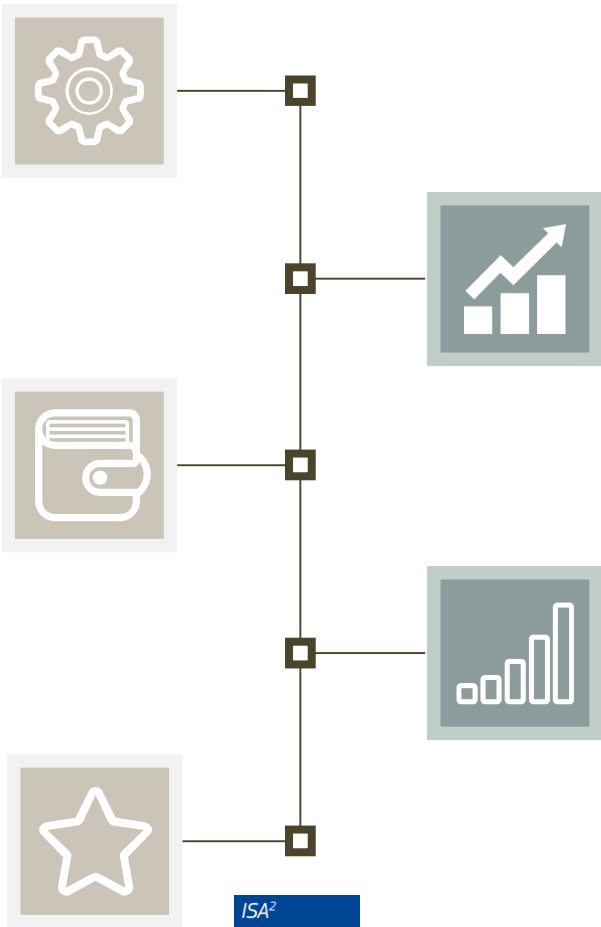
- 28 EU Member States and EFTA countries for NIF
- eGovernment factsheets for 28 EU Member States, EFTA countries, Turkey, FYROM as well as for the EC

Analytical Capabilities

- Users can find best practices.
- View NIFO and eGovernment factsheets.
- Find and share their own news and events items.

End-users

- EU public administrations.
- National experts and policy officers.
- European Commission.
- ICT industry.



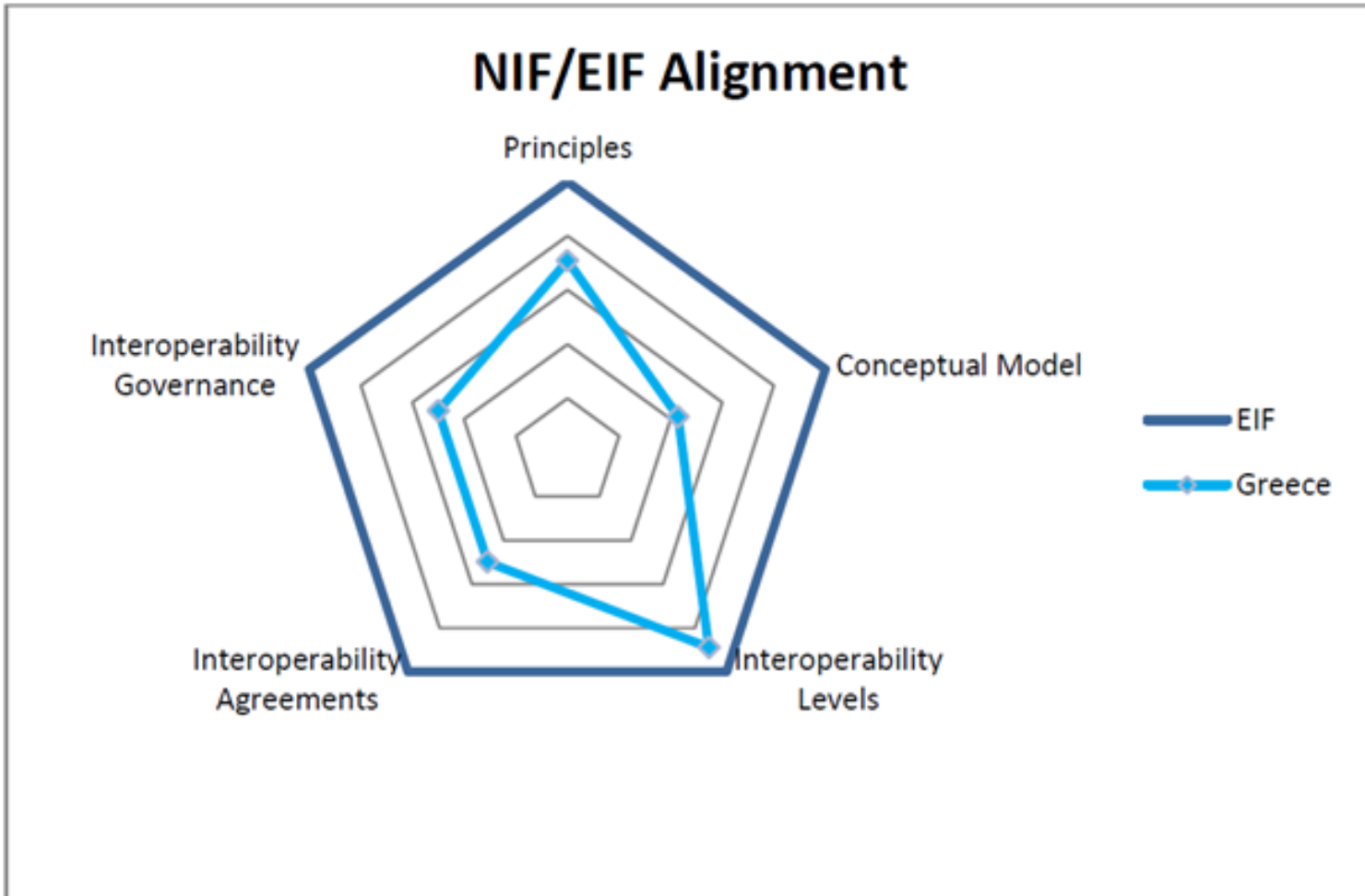
Data Sources

- NIFs are updated by the responsible national authorities.
- NIFO and eGovernment factsheets - data supplied by the national contact points.

Main Outputs

- Yearly updates to the Analytical Model;
- Annual report on the State of Play on Interoperability in Europe.

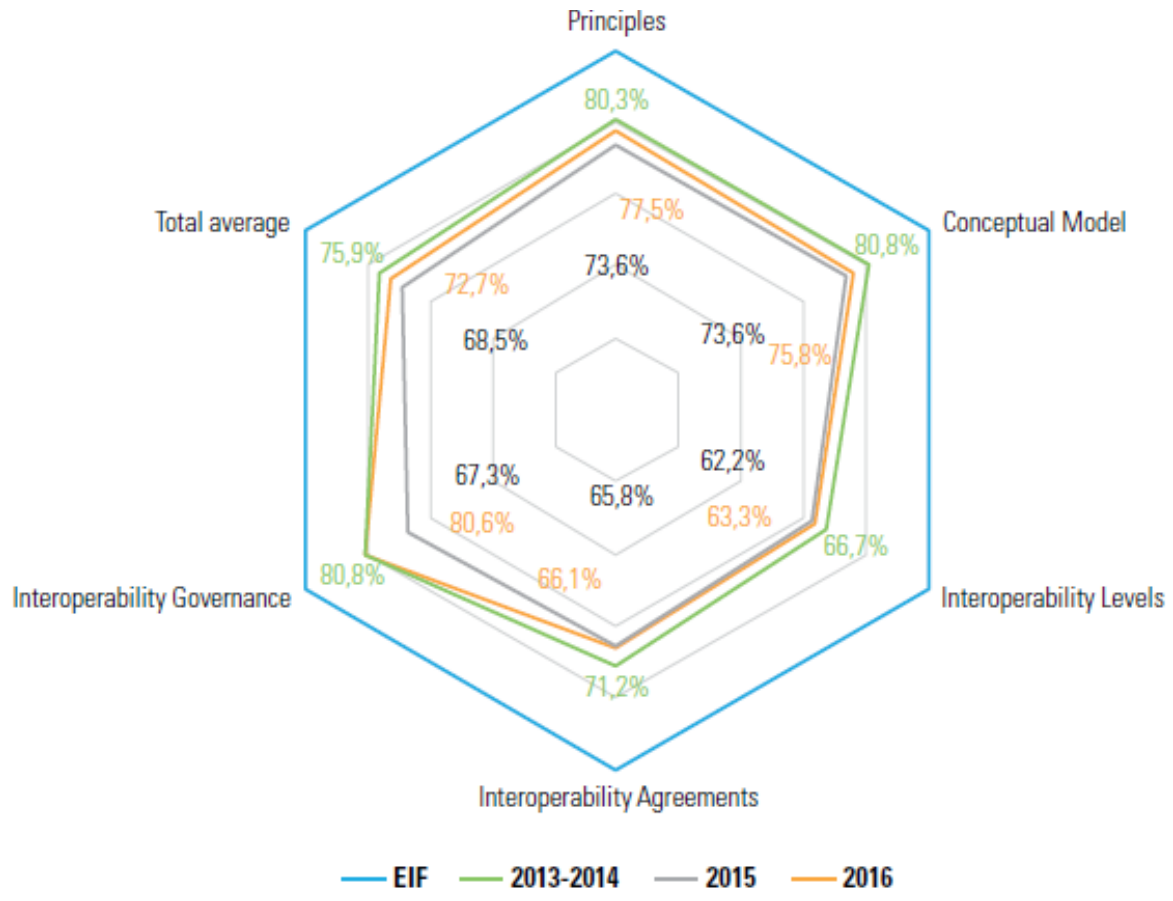
Interoperability and EIF (previous version) Greece



EU Landscape



There is an overall excellent NIF-EIF alignment across countries for 2016, with slight increase if compared with previous years



Support by

ISA/ISA² programmes

CEF programme

ISA² Programme

Check out our more than 20 interoperable and open source solutions to cut red tape.

More to come!

Key and generic interoperability enablers

Secure document exchange platform

e-TrustEx



Semantic interoperability

ArchMate diagrams visualising e-Document lifecycle

e-Docs



Decision making and legislation

Tool facilitating the editing of legislative texts

LEOS



EU policies -Supporting instruments

To gather statements of support online

OCS for ECIs



e-Procurement/ e-Invoicing

e-Procurement system for Public Administrations

Open ePrior



Tool facilitating participation in public procurement across the EU

ESPD



Geospatial solutions

Communication and Information Resource Centre for Administrations, Businesses and Citizens

CIRCABC



Supporting instruments for public administrations

National Interoperability Framework Observatory

NIFO



Data model for describing public services and the associated life and business events

CPSV-AP



Data communication network service

TESTA



EU Interoperability Reference Architecture and EU Interoperability Cartography

EIRA & EICart



Open Project Management Methodology

PM²



Metadata standard

DCAT-AP



To share your own semantic assets

Core Vocabularies



Tool for mapping certificates necessary in public procurement

e-Certis



Tool to manage and share reference codes

Re3gistry



Tool for creating, managing and analysing online surveys and public consultations

EUSurvey



Open source licence

EUPL



Government metadata management

ADMS



Multilingual platform for collaborative thesaurus management

VocBench3



Common assessment method for standards and specifications

CAMSS



Platform for sharing and reuse of IT solutions for public administrations

Joinup



Interoperability Maturity Model

IMM



Interoperability and conformance testing platform

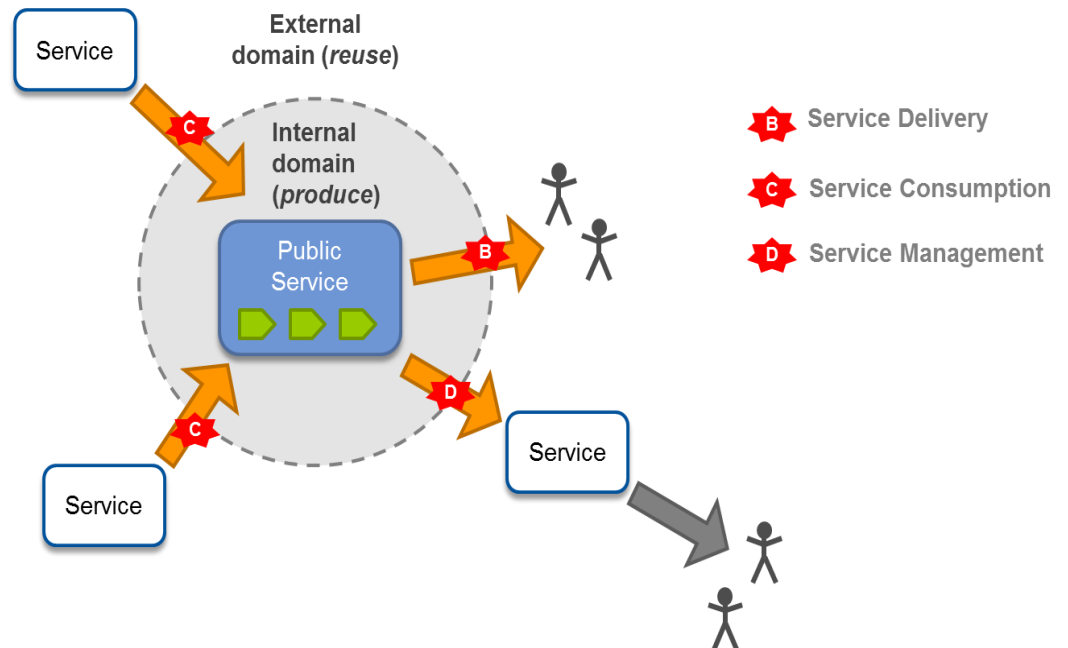
Interoperability TestBed



Interoperability Maturity Model (IMM)



Maturity level	Maturity stage
1	Ad Hoc
2	Opportunistic
3	Essential
4	Sustainable
5	Seamless



- Online Self-assessment – Measure Interoperability Maturity of their Digital Public Services (based on EIF 2017)
- Already used for 17 Trans European Systems e.g. (ePRIOR, Support for pre and post award phase of Public Procurement; IMI, International Market Information system; ECRIS, European Criminal Records Information System...)

ONLINE COLLECTION SOFTWARE FOR EUROPEAN CITIZENS INITIATIVES

When is this solution for you?

You are the organiser of a European Citizens' Initiative (ECI) and wish to gather statements of support online.

Key facts and figures

Four of the initiatives have collected more than 1 million signatures:

Stop vivisection (1,173,130 signatures)

One of us (1,721,626 signatures)

Water and sanitation are human rights! Water is a public right and not a commodity! (1,659,543 signatures)

Ban glyphosate and protect people and the environment from toxic pesticides (1,070,865 signatures)

USER TESTIMONIAL

OCS for ECIS

A solution by ISA² Programme

"OCS allows CTIE to foster certify ECI online collection systems and to validate more efficiently the signatures of citizens supporting an ECI, saving us time and efforts"



Gilles FEITH

Luxembourg Government CIO and CTIE Director,
Luxembourg's Government IT Center (CTIE)



EU Survey

A tool for creating, managing and analysing online surveys and public consultations

When is this solution for you?

You would like to create and conduct multilingual online surveys or consultations with easy analysis of results.

Key facts and figures:

In 2016, more than 5,400 surveys were created with the tool, resulting in more than 1.7 million contributions.

EUSurvey is available in 23 EU languages.

USER TESTIMONIAL

EU Survey

A solution by ISA² Programme

"In DG EAC we manage Erasmus+, programme that has been changing lives and opening minds for 30 years. Since 2014, Erasmus+ uses EUSurvey tool to collect feedback from participants - over 1 million to date! With EUSurvey Erasmus+ participants who study, train, teach or volunteer have the unique opportunity to give opinion on their experience and provide suggestions on how it can be further improved - all that in their own language. Data collected through the EUSurvey are used by the beneficiaries of the programme such as Higher Education Institutions, schools, NGOs not only to monitor the impact of the programme but also to improve the quality of the programme. National Agencies and the European Commission also use this feedback to closely monitor the performance of the programme and the satisfaction of its users - more than 95% participants are satisfied with the programme and over 96% improved their language skills. Thanks to EUSurvey, we can further shape and develop the Erasmus+ programme to meet changing needs."



Barbara NOLAN


Head of unit of EAC.B.4 – Erasmus+ Coordination
European Commission

Take Aways



- The EIF can give guidance to design your public digital services
- ISA² tools can help adhere to the EIF and can provide concrete solutions – Share & Reuse
- EC continues supporting & monitoring the EIF (New monitoring mechanism is being built);
- Ongoing reflection around 'digital public administrations' support into the post 2020 MFF

More about the EIF: <https://ec.europa.eu/isa2/eif>
More about the ISA² solutions: https://ec.europa.eu/isa2/solutions_en



The screenshot shows the top section of the ISA2 website. It features the European Commission logo on the left, the text 'ISA² Interoperability solutions for public administrations, businesses and citizens' in the center, and a search bar on the right. Below this is a navigation menu with links for 'ABOUT ISA²', 'EIF', 'ACTIONS', 'SOLUTIONS', 'S&R AWARDS', 'DASHBOARD', 'CONSULTATIONS', 'LIBRARY', 'EVENTS', 'NEWS', and 'BLOG'. A large blue banner below the menu contains the text 'ISA² - IT solutions for less bureaucracy' and 'You click, we link.' with a network diagram background.

News



Interested in Core Public Event Vocabulary? 05/12/2017

All news

Events



Webinar: What's new on Joinup? 13/12/2017

All events

Video



New Joinup: what are the new functionalities? (7/7) 05/10/2017

All videos