



# Digital Public Sector —



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European Commission

European Parliament  
Council of the European Union  
European Commission

**DIGITEC**  
2018



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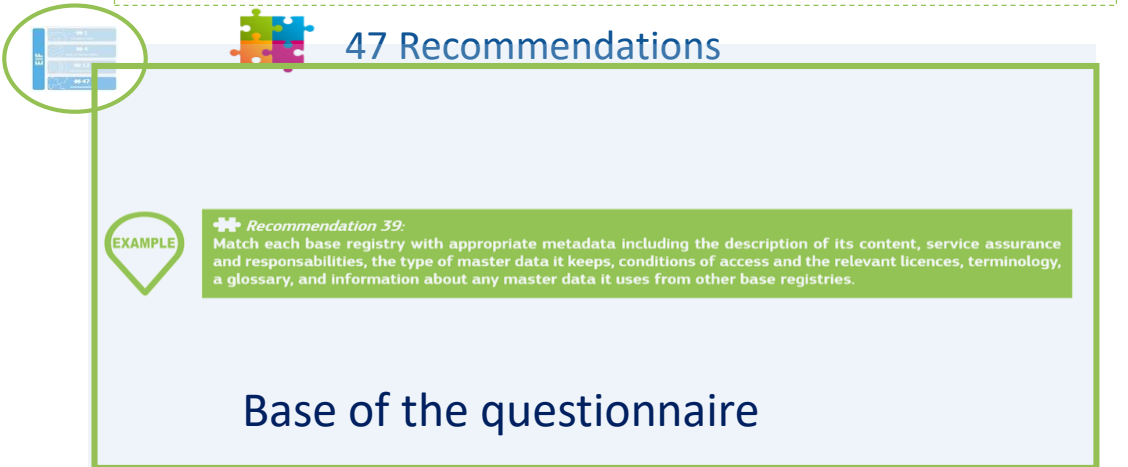
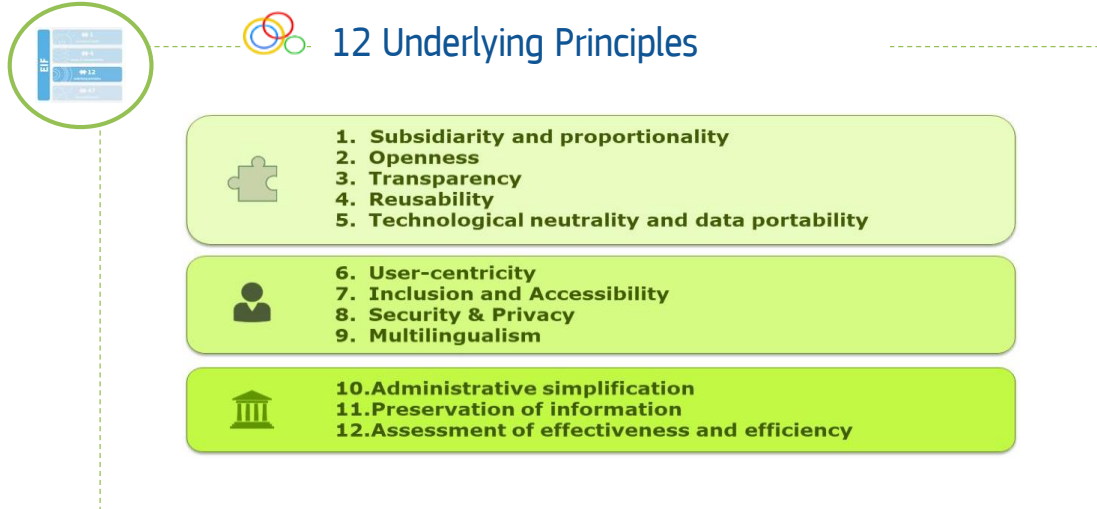
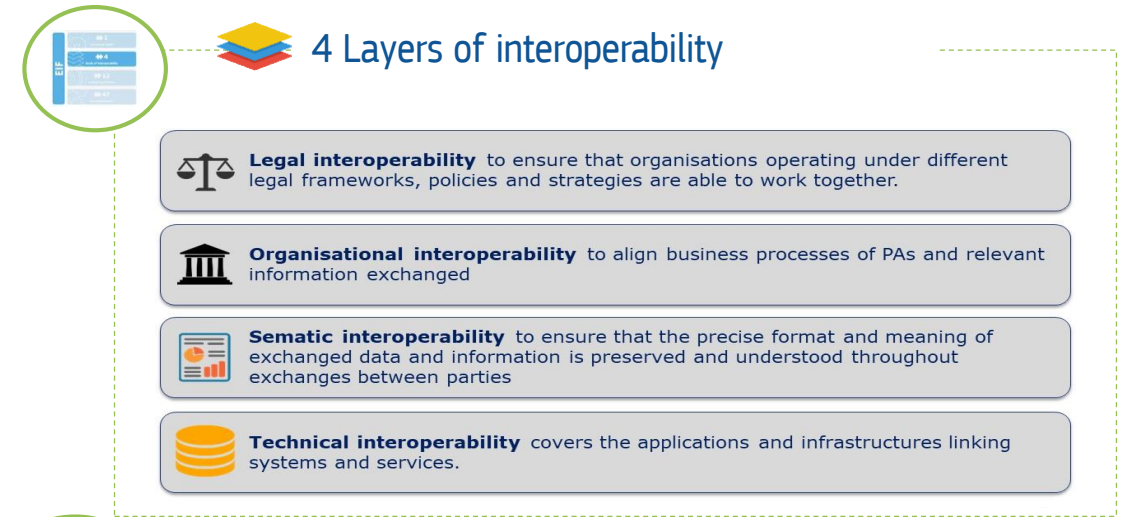
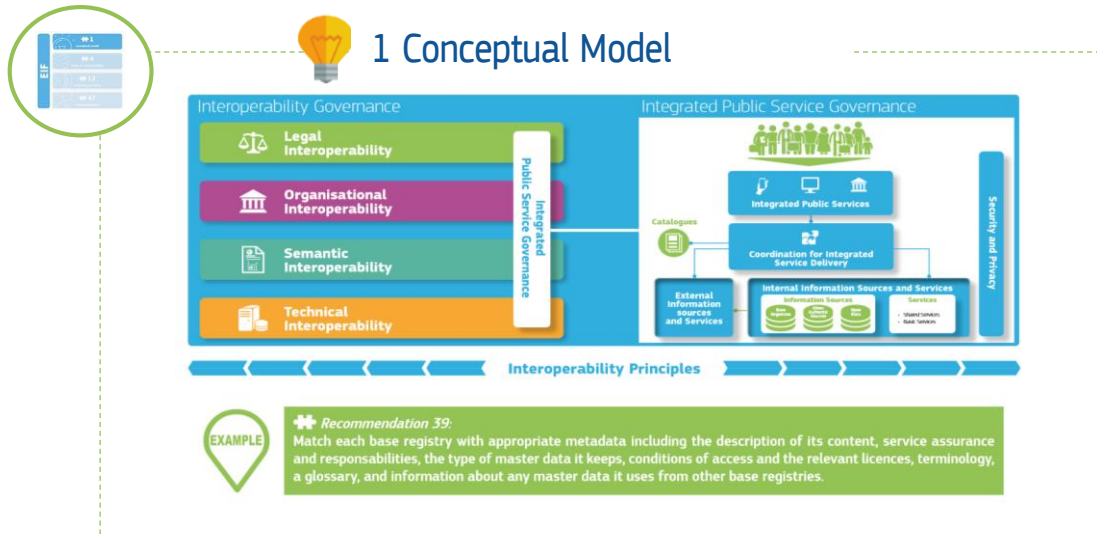
# The European Interoperability Framework (EIF)

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**Adrian Dusa**

Deputy Head of Interoperability Unit  
Directorate General of Informatics  
European Commission

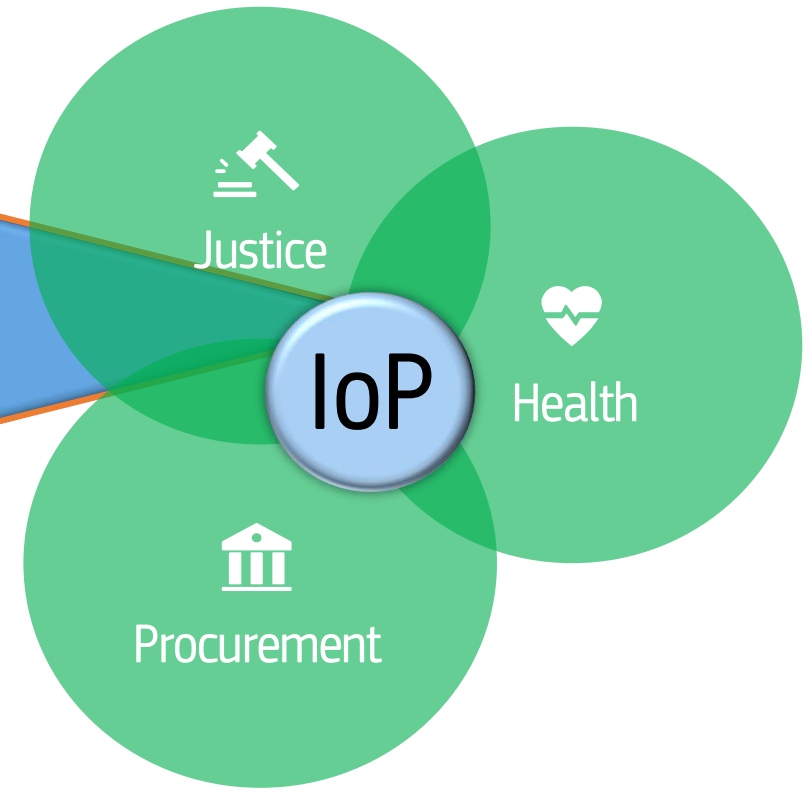
# Detailed view of the EIF structure:



# The political context: Tallinn Declaration

The Tallinn Declaration recognised that the digital transformation of public administration can be greatly facilitated by interoperability (IoP)

1. Digital-by-default
2. Once-only
3. Trustworthiness and Security
4. Openness and transparency
5. Interoperability by default
6. Horizontal enabling policy steps
7. Cross-border by default



## The political context:

# Tallinn Declaration

“The EU institutions to implement the European Interoperability Framework and the Interoperability Action Plan (including within all Commission services), especially for cross-border services within the Single Market – by the end of 2021”

Ministerial Declaration on eGovernment  
The Tallinn Declaration, Friday 6 October  
2017

THE EUROPEAN INTEROPERABILITY REFERENCE ARCHITECTURE SUPPORTS THE IMPLEMENTATION OF EIF (\*)

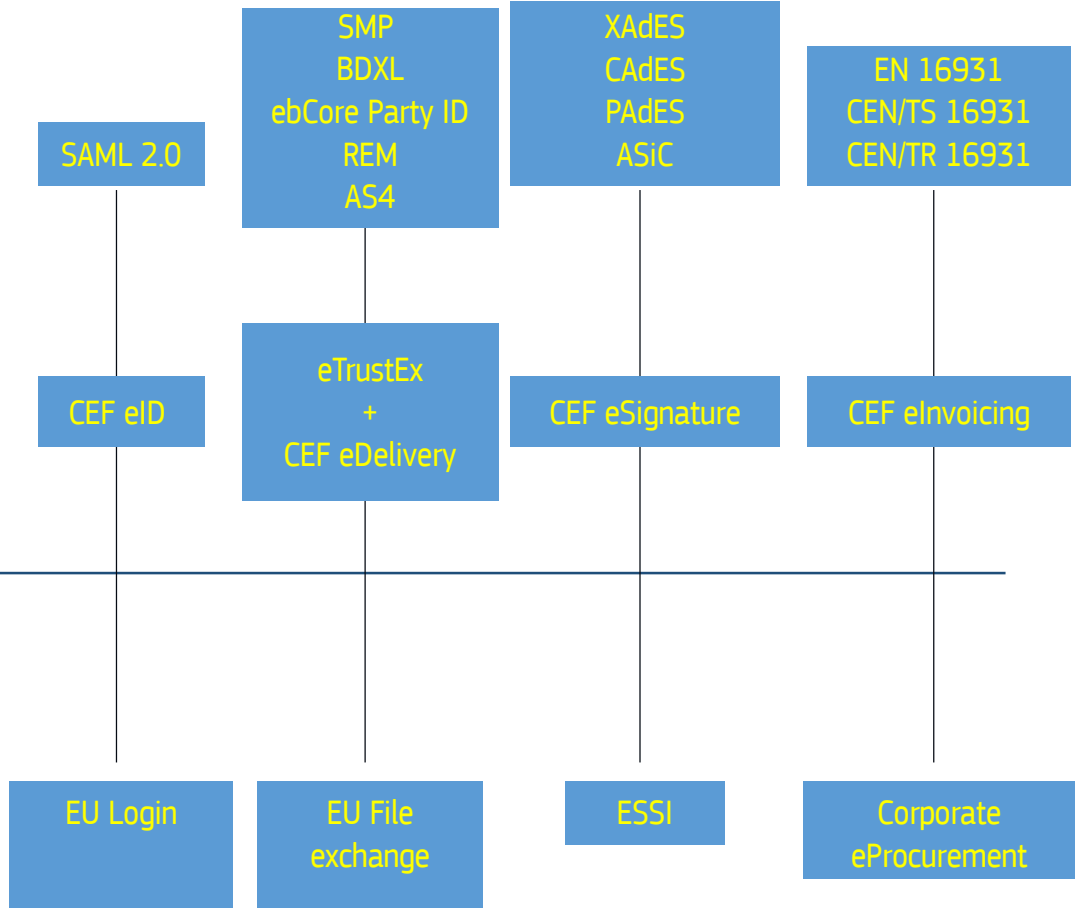
# Standards & technical specifications

*Profile standards and technical specifications for use in the EU  
Create sample software  
Create testing services  
Create promotion services*

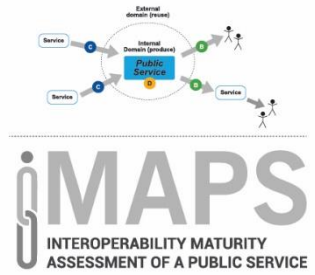
# Building Blocks

*Provide Hosting (infrastructure)  
Set SLAs  
Provide dedicated Ops teams*

# Common Services



# ISA2 Interoperability Maturity Assessment of a Public Service (IMAPS)



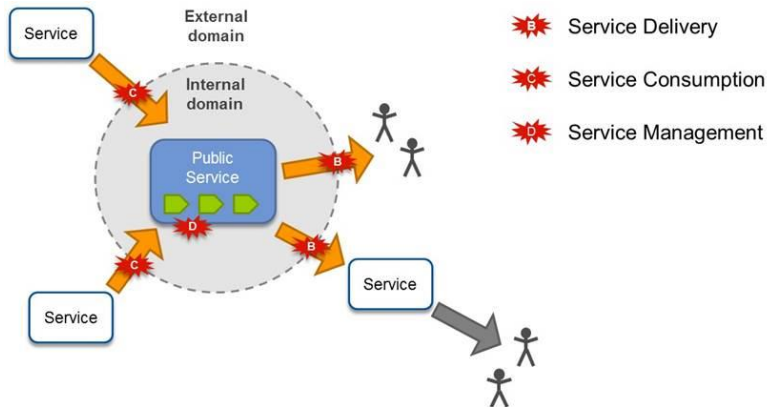
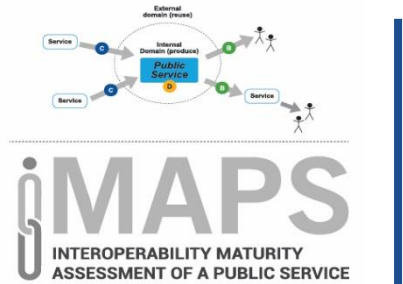
The IMAPS v1.1.1 is an online self-assessment tool that allows public service owners to measure the Interoperability Maturity of their Digital Public Services.

## Features

- Helps public service owners evaluate, improve and consider all key interoperability aspects of their public service, looking at the context of their service and assessing how the service is delivered, how it consumes existing services in order to be delivered, and how it is managed
- Fully compliant with the 2017 version of the European Interoperability Framework (EIF)
- Covers interoperability across all four EIF interoperability views (Legal, Organisational, Semantic and Technical)
- A compact and highly user-friendly online self-assessment survey

## Expected Benefits

- ✓ Provides **immediate insight** into a public service's interoperability and tailored recommendations on how to improve its interoperability where necessary
- ✓ Measures how well a digital public service is **able to interact with other organisations** to realise mutually beneficial and agreed common goals through the exchange of information and reuse of services
- ✓ Provides an opportunity to know and improve the interoperability of a public service **at any point in time** throughout the lifecycle of the public service
- ✓ Provides **on-demand peer comparisons** with other public services' interoperability maturity
- ✓ Applicable to **any national digital public service** in the European Union across any domain from open data portals, to eVoting platforms, to public procurement services, and more



For further information, please visit:  
<https://joinup.ec.europa.eu/solution/imaps>

Also, see the latest edition of the [IMAPS report](#)



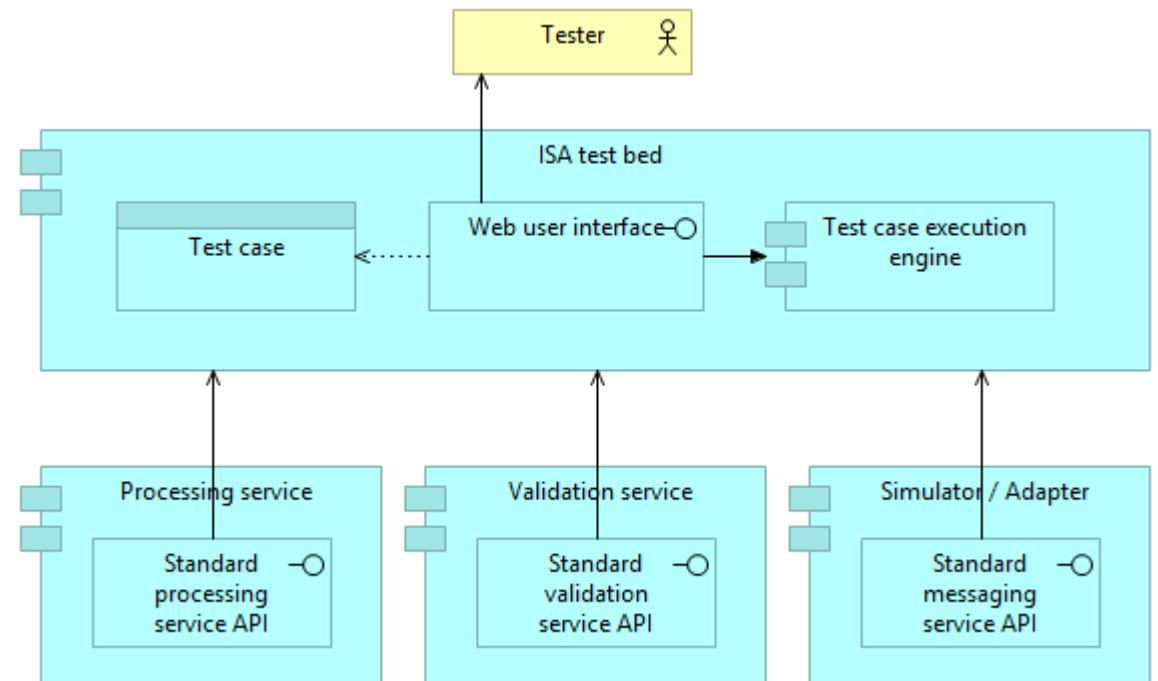


# EIF and Interoperability Testing

- Interoperability requires conformance to specifications on all EIF layers
- Various EIF principles imply requirements regarding technical systems, e.g.
  - Openness, Transparency, Reusability
  - Technological neutrality and data portability

## ISA<sup>2</sup>'s test bed

is one element in our suite of assessment tools (along with CAMSS, IMAPS etc.) allows you to test conformance of your systems to specifications provides both generic and custom-made testing services





# Catalogue of Public Services Project

***A data model and a IT toolbox that the Institutions can use to digitalise and automate the info related to public services. Thus,***



Managing portfolios of public services at Institutional level *(EIF recomm. 44 and 45)*



Building user-centric EU catalogues of public services with the MS (example: Single Digital Gateway Regulation) *(EIF conceptual model for integrated public services )*



For the users, finding information about public services more easily based on life and business events *(EIF user-centricity principle)*

# EIF in joinup

Joinup is the ideal platform for delivering your EIF

Joinup provides a proven online collaborative structure to host and promote your EIF efforts.

European  
public  
institutions



European  
public  
administrations



National Interoperability Framework Observatory (NIFO) uses Joinup for monitoring the latest Interoperability Initiatives at national level across Europe.



## The monitoring mechanism of the EIF in the EC. State of play

- ***Adapted from the EIF monitoring proposal for the MS, composed of primary and secondary indicators***
- ***Monitoring will be part of the EC ICT governance***
- ***Govis2 will introduce key and fundamental questions to measure the level of implementation of EIF for any IT Systems developed in the EC (“quantitative data”)***
- ***The Commission digital strategy will provide more “qualitative” data***

# ISA<sup>2</sup> MID-TERM CONFERENCE

*Linking public administrations,  
businesses and citizens*

*29 November 2018 – Brussels*

**#ISA2CONF18**

 ISA<sup>2</sup> Programme

 @EU\_isa2

 ISA<sup>2</sup> Programme



Kelly **Liljemo**

Project Officer at Trans-European  
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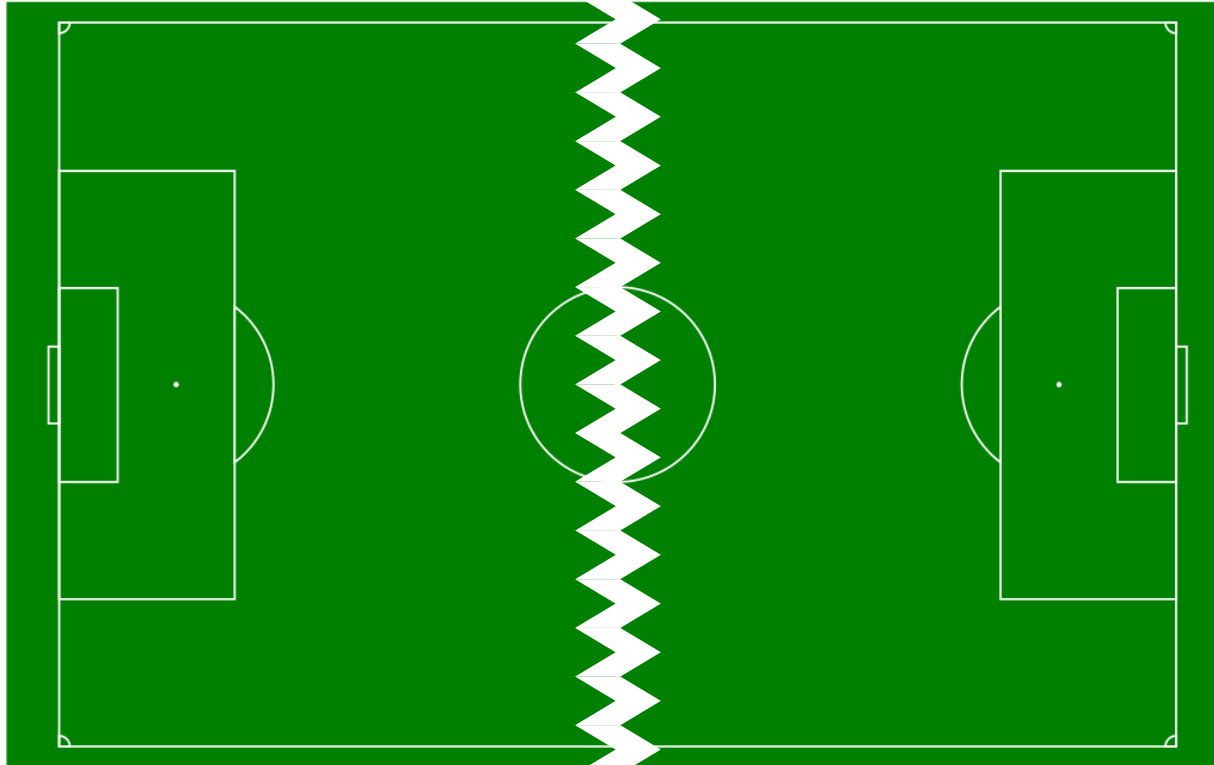
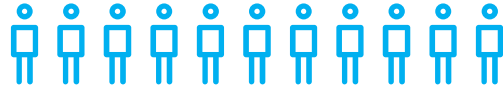
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# Secure Data exchange in the EU

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# Which problem are we trying to solve?



Pan-European digital public services rely on a **level playing field**

The European Commission is working on this by promoting common **standards and specifications**

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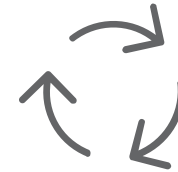
# When it comes to **Data Exchange**, what is the Commission doing?



**Invests** in the mass adoption of the same common technical standards

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EU Programmes  
*ISA<sup>2</sup>, Connecting Europe Facility*



Leads by example by **reusing** solutions based on the same common standards

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European Commission



# When it comes to **Data Exchange**, what is the Commission doing?



**Invests** in the mass adoption of the same common technical standards

Connecting Europe Facility



## **CEF eDelivery**

Supporting electronic registered delivery of data and documents



**AS4**

Message exchange



**SMP**

Capability lookup



**ebCore**

party id party identification



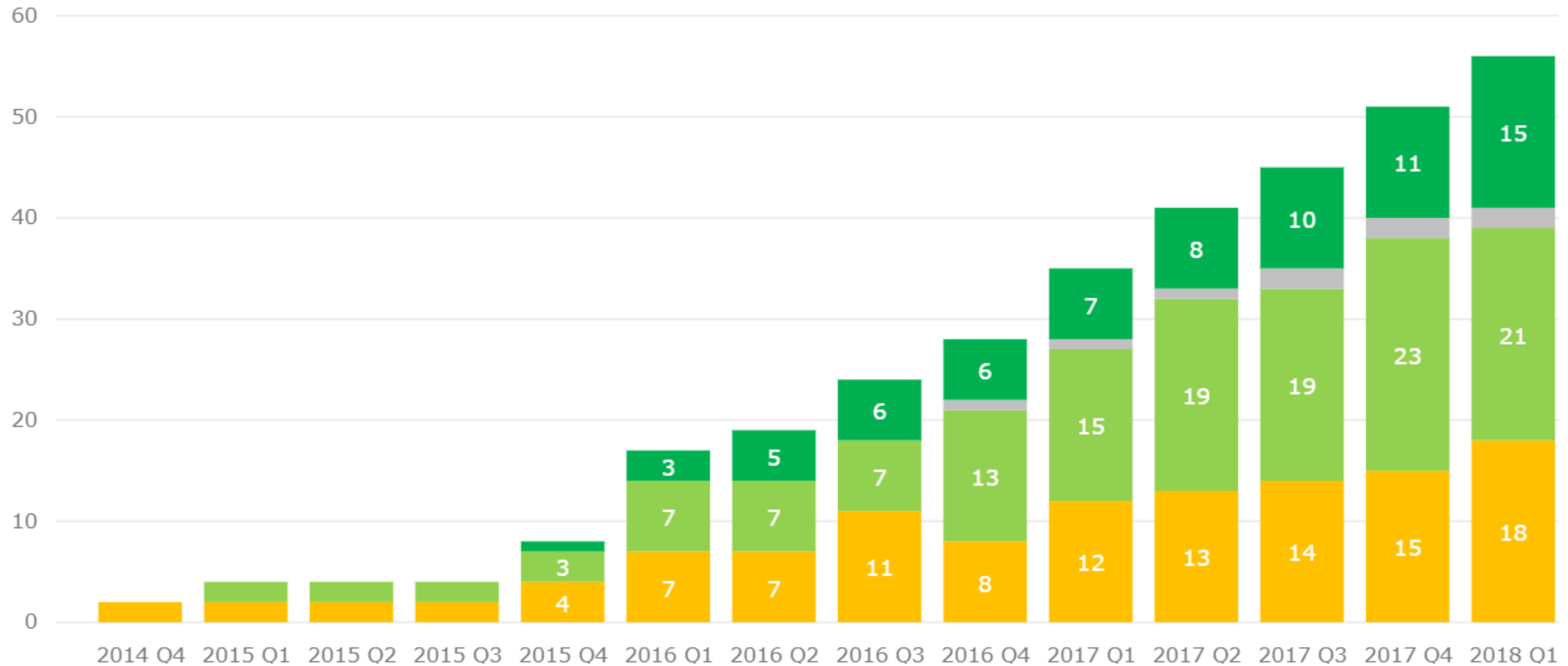
**BDXL**

Service location

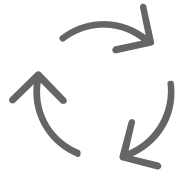
*Data Exchange technical specifications*

# When it comes to **Data Exchange**, what is the Commission doing?

Reuse state ● Commitment to analyse ● Commitment to reuse ● Not going to reuse ● Reuse



# When it comes to **Data Exchange**, what is the Commission doing?



Leads by example by **reusing** solutions based on the same common standards

**CEF eDelivery**

+

**ISA<sup>2</sup> eTrustex**

+

*Hosting  
SLAs  
Dedicated Ops Teams*

=

**EU Send**

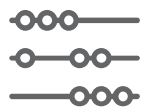
a managed service for sending and/or receiving files in a secure way, between EU Institutions and any private or public entity in the Member States.

# What are the benefits of EU Send?



## **Saves time**

Time to go-live is reduced by 40% to 50% as custom developments are reduced \*



## **Saves money**

Costs are cut by 20% to 40% by centralising the provision of 'generic' functions \*



## **Improves User Experience**

More consistent and user-friendly, with positive impact on end-users



## **It's easy**

Allows you to send:

- **any file format** – up to 5GB per transmission
- **securely** - Sensitive non-classified level of confidentiality (limited-high), possible to encrypt messages
- **with evidence** – know when files are delivered, received and read



## **It's flexible**

Possible to set-up:

- **Machine interaction**, via interoperable components
- **Human interaction**, through web interface

(\*) Gartner Research: The Advantages, Economics and Value of Reuse



**Esther Makaay**  
eID specialist

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# EU Send

Secure Data exchange in the EU

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# QUESTIONS?

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Grab the microphone!





**Thank you very  
much!**