

 $ISA^2$ 

# ISA<sup>2</sup> solutions in public procurement

**October 17th 2019** 

**EUROPEAN COMMISSION** 

**Directorate-General for Informatics (DIGIT)** 





1	Introduction Workshop overview and scenario introduction
2	Assess current status Assess the interoperability maturity of my services and their supporting ICT solutions
3	<b>Define requirements</b> Define my requirements, the specifications to use and formulate for public procurement
4	Validate proposals Apply quality control validation to the request and received proposals.
5	Manage eligibility Facilitate the definition of tenderer eligibility criteria and the collection of certificates
6	Wrap-up and discussion Wrap-up and discussion on the illustrated ISA <sup>2</sup> solutions and considered scenario



# **Workshop introduction**



Describe how ISA<sup>2</sup> solutions can support **public procurement** Hands-on introduction to ISA<sup>2</sup> solutions

Approach

- Demonstration structured to follow a high-level fictional scenario
   Scenario based on procurement and the Single Digital Gateway
   The scenario actor is an officer of a National public administration
- ISA<sup>2</sup> solutions are first introduced, followed by a discussion and demo on how they are used to support our procurement scenario



### Scenario context

#### Legal background

**Regulation (EU) 2018/1724** establishes a Single Digital Gateway to provide access to information, to procedures, and to assistance and problem-solving services.

National administrations need to foresee solutions to **publish** their National public services on the Single Digital Gateway and facilitate their **cross-border use**.

#### Goals

As an officer of my administration I need new or adapted **IT solutions** to ensure my digital public services are **usable** in a cross-border context and to **publish** their metadata on the Single Digital Gateway.

My goals are to:

- ✓ Reuse existing work.
- Launch procurement as needed.



Introduction 123456

### **Scenario steps**





# **Supporting ISA<sup>2</sup> solutions**





Introduction 123456

### **Supporting ISA<sup>2</sup> solutions**





1	Introduction Workshop overview and scenario introduction
2	Assess current status Assess the interoperability maturity of my services and their supporting ICT solutions
3	<b>Define requirements</b> Define my requirements, the specifications to use and formulate for public procurement
4	Validate proposals Apply quality control validation to the request and received proposals.
5	Manage eligibility Facilitate the definition of tenderer eligibility criteria and the collection of certificates
6	Wrap-up and discussion Wrap-up and discussion on the illustrated ISA <sup>2</sup> solutions and considered scenario



### Scenario roadmap







1

#### **<u>Pusiness question</u>**

How to select the first digital public services to publish?

### **<u>Objective</u>**

Assess and understand the interoperability aspects of my digital public services before selecting those to publish through the Single Digital Gateway.

### Practical approach

Use the IMAPS to measure the interoperability of my digital public services and the IQAT to measure that of their supporting ICT solution(s).



A set of comparable interoperability assessments with identified gaps for improvement.



### **Interoperability assessment tools**



The Interoperability Maturity Assessment of a Public Service (IMAPS) is an **online survey** to assess the potential interoperability of a **digital public service** in terms of EIF conformance

Use survey <u>online</u> Download <u>v1.1.1</u>

IQAT© Interoperability Quick Assessment Toolkit The Interoperability Quick Assessment Toolkit (IQAT) is an **Excel survey** to assess the potential interoperability of a **software solution** supporting digital public services in terms of EIF conformance

Download v1.2.0



### **IMAPS and IQAT steps**

1	Prepare for assessment	Collect the information from the service or solution owner to prepare for the assessment
2	Complete the surveys	Fill the IMAPS survey and IQAT Excel tool using the information collected
3	Consult results	Consult the interoperability score and the recommendations provided by the tools
4	Identify IoP gaps	Identify the interoperability gaps of the solution as input to design the solution's requirements



### **IMAPS** assessment areas

#### What IoP areas does IMAPS assess?

✓ Service Delivery (B)

Delivery of a digital public service

✓ Service Consumption (C)

Consumption of services from other public administrations and businesses

Service Management (D)

Control and monitoring of the process flow related to service interactions with the external domain from trigger to outcome



#### Each area is assessed from a Legal, Semantic, Organisational and Technical point of view



### **IMAPS maturity levels**

Ad Hoc	<b>Poor interoperability</b> - the digital public service cannot be considered interoperable
Opportunistic	Fair interoperability - the digital public service implements some elements of interoperability best practices
Essential	<b>Essential interoperability</b> - the digital public service implements the essential best practices for interoperability
Sustainable	<b>Good interoperability</b> - all relevant interoperability best practices are implemented by the digital public service
Seamless	Interoperability leading practice - the digital public service is a leading interoperability practice example for others



### **IQAT** assessment areas

#### What IoP areas does IQAT assess?

- ✓ IoP Governance: Assesses the overall governance of IoP (e.g. policies, processes)
- Software Architecture: Assesses software architecture maturity and external interactions
- Human-to-Machine Interface
   Assesses interactions with users
- Machine-to-Machine Interface
   Assesses interactions with other ICT systems







### **IQAT** assessment criteria

**IoP Governance** 

Assess the overall IoP Governance of solutions that support the delivery of interoperable digital public services

e.g. IoP by design, IoP strategies and plans, IoP processes, ...

#### **Software Architecture**

Assess solution architecture and interactions with other solutions

e.g. architectural maturity, availability, solution documentation, conformance testing, ...

#### Human-to-Machine Interface

Assess interaction between user and machine interfaces (web, mobile, etc.)

e.g. user-centricity (multichannel delivery; device & platform independency), accessibility, open data, ...

#### Machine-to-Machine Interface

Assess interaction between software solution and other external services (provider and consumer roles)

e.g. data exchange types data formats, transfer types, protocols, ...



### Use in our procurement scenario



Start with a first set of digital public services and use the **online IMAPS survey** to assess their IoP maturity. From the results determine the services that are **bestin-class** in terms of IoP.

**Output:** The best-in-class public services to target for publishing on the SDG.



1

How can I detect the gaps to improve for my public services? Completing the IMAPS survey also provides the **proposals** to reach the next IoP maturity level. Evaluate these to identify **quick wins** and determine where investigating the **ICT support layer** is needed.

**Output:** A set of proposals on where to further investigate to improve my services' IoP.



### Use in our procurement scenario (2)



How can I detect the gaps to improve in my supporting ICT solutions? For the public services identified for improvement use the **IQAT self-assessment tool** on their supporting ICT solutions and analyse the tool's **proposals** to improve their architecture, interfaces and governance.

**Output:** A set of actionable proposals on the services' supporting ICT solutions.



# Demo

**Demo 1:** Using the IMAPS online survey to assess a public service

**Demo 2:** Using the IQAT to assess a supporting ICT solution



1	Introduction Workshop overview and scenario introduction
2	Assess the interoperability maturity of my services and their supporting ICT solutions
3	<b>Define requirements</b> Define my requirements, the specifications to use and formulate for public procurement
4	Validate proposals Apply quality control validation to the request and received proposals.
5	Manage eligibility Facilitate the definition of tenderer eligibility criteria and the collection of certificates
6	Wrap-up and discussion Wrap-up and discussion on the illustrated ISA <sup>2</sup> solutions and considered scenario



### Scenario roadmap





# Define requirements

2

#### Business question

How to identify and express the requirements for my request?

### **<u>Objective</u>**

Leverage existing work and methods in terms of solutions, specifications and assessments and formulate resulting requirements in an unambiguous and machine-processable manner.

### Practical approach

Use the CAMSS to evaluate National specifications and the ELIS to find existing proposals per building block. Use the EIRA<sup>©</sup> as a controlled vocabulary and model requirements in the CarTool.



One or more SATs representing the request's requirements in terms of required specifications.



### **Assessing specifications - CAMSS**

CAMSS

COMMON ASSESSMENT METHOD FOR STANDARDS AND SPECIFICATIONS CAMSS is the European guide to **assess** and select specifications, a **reference** when building an architecture and an **enabler to explain** choices in terms of interoperability needs and requirements





### **CAMSS** solutions



ASSESSMENT

TOOLS

Offline assessment tools (Excel, LibreOffice) for **doit-yourself** scenario-based specification assessments CAMSS SOLUTION

Public collection of **specification assessments** to be downloaded and reused (<u>on Joinup</u>)



CAMSSaaS

Request as a service a new assessment, or for an existing one a content or compliance review Library of proposed specifications per **EIRA**<sup>©</sup> **ABB** as best-in-class to support IoP (<u>on Joinup</u>)



## The EIRA<sup>©</sup>

EUROPEAN INTEROPERABILITY REFERENCE ARCHITECTURE The **European Interoperability Reference Architecture** (EIRA<sup>©</sup>) is a reference architecture for delivering interoperable digital public services across borders and sectors

- ✓ Focus is on **interoperability**
- ✓ Aligned to the EIF and TOGAF<sup>®</sup>, uses SOA and ArchiMate<sup>®</sup>

Structure

Defines concepts as Architecture Building Blocks (ABBs)

- ABBs organised in four views (Legal, Organisational, Semantic, Technical)
- Solution Architecture Templates (SATs) to model requirements
  - HL\*: IoP goals and principles
  - DL<sup>\*</sup>: Specifications per ABB

✓ Solution models



### The EIRA<sup>©</sup> and the EIF

EIF

**Framework and principles** 

### EIRA<sup>©</sup> v3.0.0

Implementation guidelines and specifications







### **EIRA<sup>©</sup> use cases**

#### Design

Accelerate the design of systems that support the delivery of interoperable digital public services (across borders and sectors)

#### Assess

Provide a reference model for comparing existing architectures in different policy domains and thematic areas, to identify focal points for convergence and reuse

### Communicate and share

Help documenting the most salient interoperability elements of complex systems and facilitate the sharing of reusable solutions

#### **Discover and reuse**

Ease the discovery and reuse of interoperability solutions through EIRA<sup>©</sup>-based Cartographies using the CarTool



# **Solution Architecture Templates (SATs)**

**SATs** are the EIRA<sup>©</sup> mechanism to represent **requirements** at two levels:

 High-level (HL) SATs provide an abstract view in terms of ABBs and their interoperability aspects and requirements

 Detail-level (DL) SATs are specific and can define existing solution building blocks (SBBs) as required components (e.g. a National eID service) or ABBs (i.e. at abstract level) with linked IoP specifications





Define requirements

123456

## The Cartography Tool (CarTool)

The **Cartography Tool** (CarTool) provides high level support for the EIRA<sup>©</sup> as a **plug-in** for the popular **ArchiMate modelling tool Archi**<sup>®</sup>.

It provides both modelling and querying features:

- Model: Model new solutions based on the EIRA<sup>©</sup>, SATs or existing solutions; or model new SATs based on the EIRA<sup>©</sup>.
- Search: Query Cartographies based on the EIRA<sup>©</sup> and consult SAT and specification libraries





123456

### **ELIS and CarTool integration**

The **EIRA**<sup>©</sup> **Library of Interoperability Specifications (ELIS)** lists standards and specifications proposed by the European Commission for each EIRA<sup>©</sup> ABB (see <u>v1.0.0 beta</u>).

It is populated using various **sources** including National standard lists, EU and International standards, SATs, CAMSS assessments and expert input

The EIRA<sup>©</sup>'s **CarTool** offers top-level support for the ELIS integrating it in the modelling process of solutions and SATs.

Models 🛛	Q 😓 🗆 🗆	Result Panel 🛛	X M 🗢 🛛
E SUAPSUE SAT HL Requiremen	ts Solution Template	EIRA Interoperability Specifications Library	
		Architecture Building Block	Specification Name
		Access Management Component	SAMI 20
		Access Management Component	SAME 2.0
		Access Management Component	SAMI 20
		Access Management Service	YACMI
		Configuration Management	
		Conformance Test Report	TDR
		Conformance Test Scenario	TDI
		Conformance Testing Component	GITB
		Conformance Testing Component	GITB
		Core Data Model	European Single Procurement Document v
		Data	ADMS
		Data	Alpha-3 code Interoperability Specification
		Data	CPSV-AP 2.2
		Data	Core Business Vocabulary v1 0
		Data	Core Criterion and Core Evidence Vocabula
		Data	Core Location Vocabulary v1.0
IRA 🛛 U Hints		Data	Core Person Vocabulary v1.0
		Data	Country Codes Interoperability Specification
		Data	DCAT
₩ EIRA v3.0.0		Data	DCAT-AP
EIRA Extension Library		Data	Date and Time Format (vvvv-mm-dd) Inter
🕆 🛅 European Interoperability Cartography	artography	Data	EIRA Interoperability Specification
EIRA Library of Interoperation	ability Specifications	Data	Registered Organization Vocabularv
ELIS		Data	UTF-16
> Solutions	(CAT.)	Data	UTF-8
Solution Architecture lempl	ates (SAIS)	Data Exchange Component	SOAP



### **ELIS ABB coverage**

The goal of the ELIS is to have complete coverage of all **Legal**, **Organisational**, **Semantic** and **Technical** ABBs. Current coverage of the ABBs in EIRA<sup>©</sup> v3.0.0 is as follows:

Metrics/View	Legal	Organisational	Semantic	Technical
Total number of ABBs	12	27	14	65
ABBs covered	3	10	6	55
% of coverage	25.00%	37.04%	42.86%	84.62%
Specs used in the view	3	4	31	127
ABBs covered with more than 1 spec	0	0	5	24
Specs assessed in the view	0	0	4	4
% of assessed coverage	0.00%	0.00%	28.57%	6.15%



## **EIRA<sup>©</sup> conformance - vision**

#### Completeness

Test a model to ensure the EIRA<sup>©</sup> guidelines, structure and modelling rules are respected

Test **solution** or **DL/HL SAT** vs the EIRA<sup>©</sup>

**IoP requirements** 

Test that a model respects prescribed **IoP requirements** 

Test DL SAT vs a HL SAT, solution vs a SAT, DL SAT specifications vs the ELIS

✓ Conformance testing organised in **conformance profiles** per **EIRA<sup>©</sup> version** 

- ✓ Each profile defines **conformance levels** ("basic", "complete")
- ✓ Target solution/SAT model used for **deterministic results**



# **EIRA<sup>©</sup> conformance - implementation**

EIRA<sup>©</sup> conformance testing implemented on the ISA<sup>2</sup> Interoperability Test Bed

Model to validate	Be Select file
Validate for	
	Uplead
/alidation res	sult
Overview	
Date:	2019-05-10709-43-49-960+02-00
File name:	CSBIC - SAT DL Requirements Solution Template.xml
Validation type:	EIRA v3.0.0 solution completeness (complete level) - BETA
Result	FALURE
Errors:	3
Warnings:	2
messages:	0
View annotated input	Download XML report Download PDF report
Details	
0 [ERA-011] 588 Th	s Swedish National Financial Management Authority (Legal Authority) is not present in the model's Legal view.
O [EIRA-013] SBB 'Fo	reign Business Register Data' (Data) is not present in the model's Semantic view.
C [EIRA-018] AI ABB	in the high-level overview must be defined. No "Exchange of Business Information" SBB is defined.
A [EIRA-005] S88 'Re [eira.interoperability_typ	gelverk (Regulation) - Infrastruktur för vidareförmedling av/ (Organisational Interoperability Agreement) is missing required attribute(s) e].
	ta Policy Access' (Data Policy) defines involid value 'Barl policy' for attribute 'era policy' hore'. Expected T information security policy ( Phyacy policy )

Public and anonymous validation via web UI and SOAP API

e Description Star EIRA, 2.1.0, solution, completeness, complete ITest case to validate a solution model for the EIRA 6 v2.1.0 completeness profile, complete level. The model needs to be expressed in the Open Group's ArchiMate® Model Exchange File Format and is provided for validation via upload. (TCT_EIRA, 2.1.0, solution, completeness, complete) - Execution User - Operator Test Engine	t cases to execute		Start
EIRA_2.1.0_solution_completeness_complete Test case to validate a solution model for the EIRA0 v2.1.0_completeness profile, complete level. The model needs to be expressed in the Open Group's ArchiMate® Model Exchange File Format and is provided for validation via upload.  (TC1_EIRA_2.1.0_solution_completeness_complete) = Execution User - Operator Test Engine	me	Description	Status
User - Operator Test Engine	LEIRA_2.1.0_solution_completeness_complete	Test care to validate a solution model for the ERAR V2.1.0 completeness profile, complete level. The model needs to be expressed in the Open Group's ArchiMate® Model Exchange File Format and is provided for validation via upload.	¢
Interact Model upload	User - Operator Test Eng	ine .	

Account-based access on <u>ISA<sup>2</sup> ITB</u> with full reporting and monitoring



### Use in our procurement scenario

How to define the requirements to improve my service's IoP? Consider the IMAPS and IQAT proposals and model the identified gap using the **EIRA**<sup>©</sup>. Define these either as a **HL SAT** (to model aspects and principles) or a **DL SAT** (to model specific requirements).

**Output:** An SAT modelling the requirements to implement identified gaps.

2

1

How can I reuse existing work when defining my requirements? Use the **CarTool** to inspect **existing SATs** that model requirements in given policy domains and deployment scenarios. SATs can be used for **inspiration** or be considered **as-is** as part of my overall requirements.

**Output:** Potentially one or more existing SAT(s) that complement my requirements.



### Use in our procurement scenario (2)



Where new development is needed how do I determine the specifications to use? Start in the **CarTool** by inspecting **existing SATs** and, using its **ELIS** integration, view proposals per identified ABBs. Consider also existing specification assessments from the **CAMSS library of assessments**.

**Output:** The best-in-class IoP specifications to use per ABB.



How can I evaluate and reuse my own National specifications? Use the **CAMSS assessment tool** to evaluate National specifications. Apart from identifying specifications that are **IoP enablers** this exercise also identifies points to improve towards **standardisation**.

**Output:** Assessed National specifications to potentially use in the request.



### Use in our procurement scenario (3)

5

How do I model my procurement requirements in a non-ambiguous manner? The request's combined requirements are modelled using the **EIRA**<sup>©</sup> as a **controlled vocabulary for procurement** by means of a **DL SAT**, including identified specifications and predetermined National solution building blocks. If applicable this can also be accompanied by other **SATs reused** from the CarTool.

Tenderers are expected to propose their solutions as models that conform to the latest **EIRA**<sup>©</sup> **version** and the **request's SAT(s)**.

**Output:** My request's requirements modelled as one or more DL SAT(s).



# Demo

**Demo 1:** Using the CAMSS toolkit to assess a National specification

**Demo 2:** Using the CarTool to model a DL SAT and leverage the ELIS



1	Introduction Workshop overview and scenario introduction
2	Assess current status Assess the interoperability maturity of my services and their supporting ICT solutions
3	<b>Define requirements</b> Define my requirements, the specifications to use and formulate for public procurement
4	Validate proposals Apply quality control validation to the request and received proposals.
4 5	Validate proposals         Apply quality control validation to the request and received proposals.         Manage eligibility         Facilitate the definition of tenderer eligibility criteria and the collection of certificates



### Scenario roadmap









3

#### <u>Business question</u>

How to validate the received proposals for my request?



Provide support to tenderers to validate their models before they submit and to the public administration to facilitate an initial quality control on received proposals.

### Practical approach

Use the ITB and its public EIRA<sup>©</sup> conformance testing services to validate proposed models against the EIRA<sup>©</sup>'s guidelines and the request's SAT(s).



The set of proposals that conform to my request and can be further evaluated.



## What is the Interoperability Test Bed?

ITB Interoperability Test Bed The ISA<sup>2</sup> Interoperability Test Bed is an online, intuitive and self-service platform for conformance testing of IT systems against semantic and technical specifications

Test Bed value proposition (<u>https://www.itb.ec.europa.eu/docs/guides/latest/valueProposition/</u>)



Powered by DIGIT ISA<sup>2</sup> Action 2016.25



Based on the GITB CEN Workshop Agreement



# What can it be used for?

### **Conformance testing**

- **API** simulation
- Content validation
- Protocol verification

- Self-service tests
- **Report exports**
- **Progress monitoring**  $\checkmark$
- Conversation validation  $\checkmark$  Conformance certificates

### **Interoperability testing**



### **Testing channels**





- Account-based
- Test scenarios

 $\checkmark$ 

 $\checkmark$ 

 $\checkmark$ 

- Complete Test Bed
- History, monitoring and reporting



-0

Messaging service API

### **Technical capabilities**

# Suilt-in support Messaging AS2, AS4 SOAP, REST Delivery, FLUX, HTTP, HTTPS Custom extensions

-0

Processing service API

-0

Validation service API

ValidationXML, RDFSHACL, XSDSchematron, XPath, RegExp





### How does it work?





## **Deployment models**

### **Cloud-based**

- ✓ Shared ISA<sup>2</sup> instance
- Private communities
- ✓ Publicly accessible
- ✓ Managed by ITB team

### **On-premise**

- Private instance
- ✓ Dockerised service
- Automated updates
- Managed by users



# **EIRA<sup>©</sup> - ITB synergy in procurement**

Quality assurance instrument

Ensures compliance to EIF and EU regulations

### Quality control instrument

Interoperability Test Bed

ITB

FUROPFAN

REFERENCE ARCHITECTURE

INTEROPERABILITY

✓ Tests conformance to EIRA<sup>©</sup> and IoP specs



### Use in our procurement scenario



How do I do a quality check on my requirements before publishing my request? Use the **ITB's EIRA<sup>©</sup> validation service** to validate the produced DL SAT in terms of **completeness** (i.e. that it is correctly modelled) and **IoP requirements** (that best-in-class specifications are indeed used).

**Output:** A validation report for my request's SAT ensuring it is correctly defined.



How can tenderers be supported in preparing their response? Tenderers can use the **CarTool** to inspect the request's **SAT(s)** and model their proposed **solution**. Before submission they can use the **ITB's EIRA**<sup>©</sup> **validation service** to validate their solution model.

Output: A proposal as a conformant solution model, validated as such by the ITB.



### Use in our procurement scenario (2)

How can I do a first quality control check on received submissions?

3

Use the **ITB's EIRA<sup>©</sup> validation service** to detect submissions where solutions are incorrectly modelled or where the request's SAT(s) are not respected. This acts as a first deterministic **quality control** check before proceeding with further evaluation.

**Output:** The set of received proposals that conform to my request's requirements.



# Demo

**Demo 1:** Using the EIRA<sup>©</sup> validation service to validate an SAT or solution

Demo 2: Using the ITB to validate a full message exchange linked to the SDG



1	Introduction Workshop overview and scenario introduction
2	Assess the interoperability maturity of my services and their supporting ICT solutions
3	<b>Define requirements</b> Define my requirements, the specifications to use and formulate for public procurement
4	Validate proposals Apply quality control validation to the request and received proposals.
5	Manage eligibility Facilitate the definition of tenderer eligibility criteria and the collection of certificates
6	Wrap-up and discussion Wrap-up and discussion on the illustrated ISA <sup>2</sup> solutions and considered scenario



### Scenario roadmap







### Manage eligibility

4

#### Business question

How facilitate the collection of tenderer eligibility proof for my request?

### **Objective**

Simplify the definition of selection and exclusion criteria, allowing the reuse of existing information and facilitating the certification process for tenderers across the EU.

### Practical approach

Use the ESPD to define the requested criteria and responses for tenderer eligibility certifications. Automatically use eCertis to lookup National certification mappings and templates.



An ESPD request to define the eligibility criteria for tenderers.



## **Introducing the ESPD**

### ESPD

European Single Procurement Document The European Single Procurement Document (ESPD) is a **self-declaration form** used in public procurement procedures to facilitate the definition of tenderer **eligibility criteria** and the provision of **certifications** 

- ESPD templates, certificate templates and data can be reused
- ✓ Can be streamlined by **integration** with National and EC services
- ✓ Only the tender winner needs to provide the actual documentation
- ✓ ESPD service software provided by EC and operated by Member States



### **ESPD** integrations and synergies

**eCertis** is an <u>online service</u> operated by the EC allowing buyers and bidders to identify and compare the **certificates** required as evidence of eligibility for public procurement procedures across the EU.

**Tenders Electronic Daily (TED)** is an <u>online service</u> operated by the EU Publications Office for the publication and consultation of procurement notices (also cross-border).

Vational level

European level

eCertis

LED

**Prequalification systems** are services that store information and documents about businesses. They can be linked to **National registers** to reduce the need to submit evidence multiple times.



### How does the ESPD work?

2

5

The buyer creates or reuses an **ESPD template**, defining bidder exclusion and selection criteria. The **ESPD** is included in the request. The procurement documents are published in the National procurement journal and automatically submitted to TED. The bidder finds the request in her National portal (updated through TED) and downloads its documents including the ESPD.

3

The buyer evaluates the bids and awards the contract to the bidder with **the best offer**. The **winner** provides the actual documents from the ESPD. The buyer evaluates all received **ESPDs** and uses **eCertis** to compare certification requirements from other Member States. The bidder fills in the **ESPD** manually or **automatically** through a **prequalification system**. When ready the bid (with the **ESPD**) is submitted.



### Use in our procurement scenario



How do I define the eligibility criteria for my request?

Create or reuse an **ESPD** as part of the request's documentation and included SAT(s). Define the use of the **EIRA**<sup>©</sup> and validation through the **ITB** as **National sub-selection criteria**.

**Output:** An ESPD capturing the request's eligibility criteria.



How can tenderers be supported in providing eligibility proof? Tenderers fill in the ESPD manually or automatically and provide the actual documentation only if awarded the contract.

**Output:** A completed ESPD per tenderer.



### Use in our procurement scenario (2)



How do I check the eligibility of the tenderers submitting proposals? Generate an overview for the request over all received ESPDs and check cross-border certification requirements in eCertis. This complements the quality control step by facilitating eligibility checks.

**Output:** A set of submissions that meet eligibility criteria that can be further evaluated.



# Demo

**Demo 1:** Using a National ESPD service to create a new ESPD

**Demo 2:** Using eCertis to lookup cross-border certification needs



1	Introduction Workshop overview and scenario introduction
2	Assess the interoperability maturity of my services and their supporting ICT solutions
3	<b>Define requirements</b> Define my requirements, the specifications to use and formulate for public procurement
4	Validate proposals Apply quality control validation to the request and received proposals.
5	Manage eligibility Facilitate the definition of tenderer eligibility criteria and the collection of certificates
6	Wrap-up and discussion Wrap-up and discussion on the illustrated ISA <sup>2</sup> solutions and considered scenario



Wrap-up and discussion 1 2 3 4 5 6

### **Steps and supporting ISA<sup>2</sup> solutions**





Wrap-up and discussion 1 2 3 4 5 6

## How did the ISA<sup>2</sup> solutions help?

Using **IMAPS** and **IQAT** as consistent tools to measure our services' IoP we identified bestin-class cases and the gaps to fill Using the **CAMSS** tools we assessed our National specifications and using the **ELIS** we identified the proposed specifications to use Using the EIRA<sup>©</sup> and the CarTool we modelled our request's requirements in an unambiguous manner supporting streamlined processing

Using the **ITB** we made a first filtering on the received proposals' content allowing more time to be focused on those of high quality Using the **ESPD** we allowed tenderers to spend more time on proposals' content and simplified our approach to verify eligibility



# ISA<sup>2</sup> solution overview





### **ISA<sup>2</sup> solution references**







### **Questions?**



**ISA<sup>2</sup> programme** *You click, we link.* 

Stay in touch

ec.europa.eu/isa2

9 @EU\_isa2



Run by the Interoperability 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.