



Webinar on the Catalogue of Services tools and technical support

February 03-02-2021

10:00-11:30 (GMT+1)

Organised by the Catalogue of Services Action of the ISA² programme



ISA²



Webinar practicalities

 Click on « connect audio » but please mute your microphones.

 You can share your questions and comments via the chat at any time during the webinar.

 The webinar will be recorded.

1. Welcome

Speaker: Miguel Alvarez Rodriguez

Key objectives

- Introduction to the **ISA² Programme** actions: **Catalogue of Services (CoS)** and **Test Bed**
- Tackle the **supporting needs of the Member States** related to the description and exchange of information related to public services by showcasing tangible use cases.

Agenda

1. Welcome 10'
2. Introduction to the Catalogue of Services tools and Test Bed services 15'
3. Use cases 40'
 - Creation of a national catalogue of services
 - Validation of your services in compliance with a common model
4. Q&A 25'

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Poll question

**What do you know already about the
Catalogue of Services tools?**

[OPEN QUESTION]

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Poll question

Check the tools of which you know what they can do (main functionality)

- CPSV-AP Description Editor
- CPSV-AP Harvester
- CPSV-AP Validator

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Poll question

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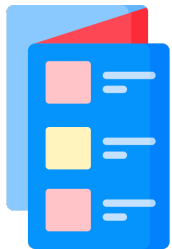


What would you like to have learnt at the end of this webinar about the tools?

[OPEN QUESTION]

2. Introduction to Catalogue of Services tools and Test Bed services

Speaker: Florian Barthélemy and Costas Simatos



“ The Catalogue of Services Action supports **public administrations** in building **digital catalogues** of **public services** allowing the exchange of information between citizens, businesses and public administrations across Europe.

Make your
service
descriptions fit
for exchange

Help you
create your
catalogue of
services

Exchange
knowledge

Test and
validate your
solutions

Advise you in
adopting
standards and
technologies

Catalogue of Services overview



Data model



**Controlled
Vocabularies**

[CPSV-AP](#), [SDG data model](#), [taxonomy of public services](#)



Tools



Pilots

[Harvester](#), [Editor](#), [pilot activities](#)



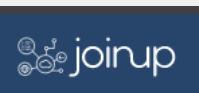
**Raising
awareness
activities**



**Studies &
reports**

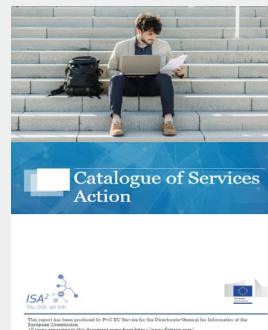
[Webinars](#), [workshops](#), [studies](#), [Joinup](#), [GitHub](#)

New Joinup Collection!



<https://joinup.ec.europa.eu/collect ion/catalogue-services/about>

Catalogue of Services handout

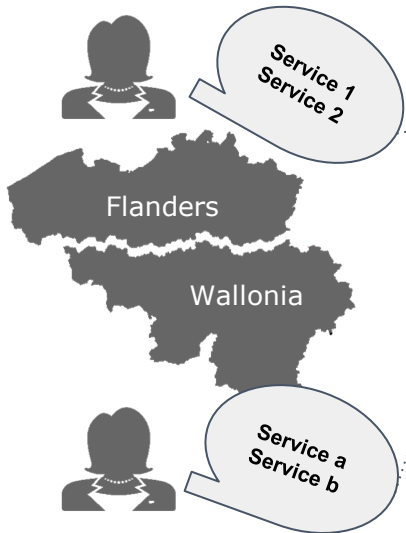


<https://joinup.ec.europa.eu/col lection/catalogue-services>

Introduction of the tools

STEP 0

Describing the
public services



STEP 1

Harvesting



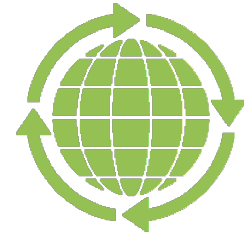
STEP 2

Validating



STEP 3

Manage and
Publish





“The Interoperability Test Bed is an online, intuitive and self-service platform for **conformance testing** of IT systems against semantic and technical specifications

Test specification
conformance

Validate
content

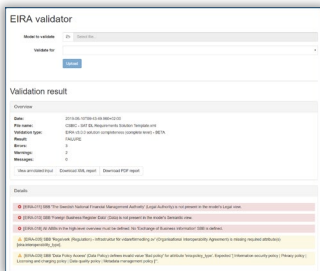
Test message
exchanges

Simulate APIs

Based on EU
standards

Main services

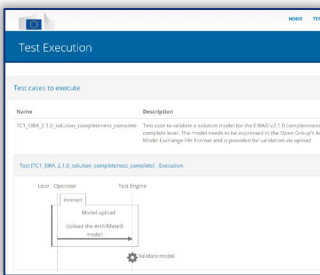
Validators



- ✓ Standalone validation
- ✓ Multiple input channels
- ✓ Anonymous
- ✓ Simple reporting



Complete Test Bed



- ✓ Scenario-based testing
- ✓ Extensible capabilities
- ✓ Account-based
- ✓ Monitoring & reporting



Flexible usage models

Cloud-based

- ✓ Hosting of public validator instances
- ✓ Shared (multi-tenant) Test Bed platform
- ✓ Configuration managed by users
- ✓ Operated by DIGIT

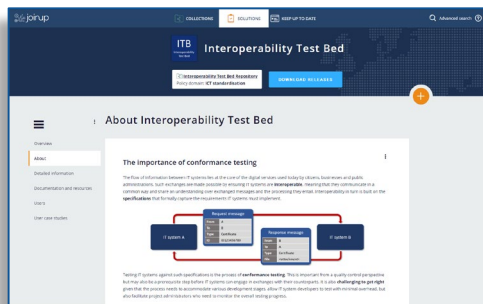


On-premise

- ✓ Components publicly shared (via Docker)
- ✓ Hosted and operated by users on-premise
- ✓ Allows access restrictions
- ✓ Allows internal resource usage



Rich documentation

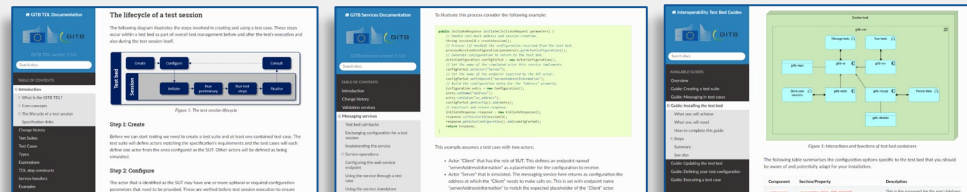


Test Bed **documentation hub** in [Joinup](#)

- ✓ Introduction and details
- ✓ Releases and news
- ✓ User stories

Extensive guides

- ✓ User and developer guides
- ✓ Documentation and tutorials



Actions - ISA² Programme

Catalogue of Services Action

The Catalogue of Services Action supports **public administrations** in building **digital catalogues** of **public services** allowing the exchange of information between citizens, businesses and public administrations across Europe.

Test Bed Action

Tailored validation services, taking into account on the semantics and specifications of the catalogues of services

The Interoperability Test Bed is an online, intuitive and self-service platform for **conformance testing** of IT systems against semantic and technical specifications.

3. Use cases

**Speakers: Maxime Pittomvils, Florian Barthélemy and
Costas Simatos**

Use case 1

'I am a national authority, creating a national catalogue of services.'

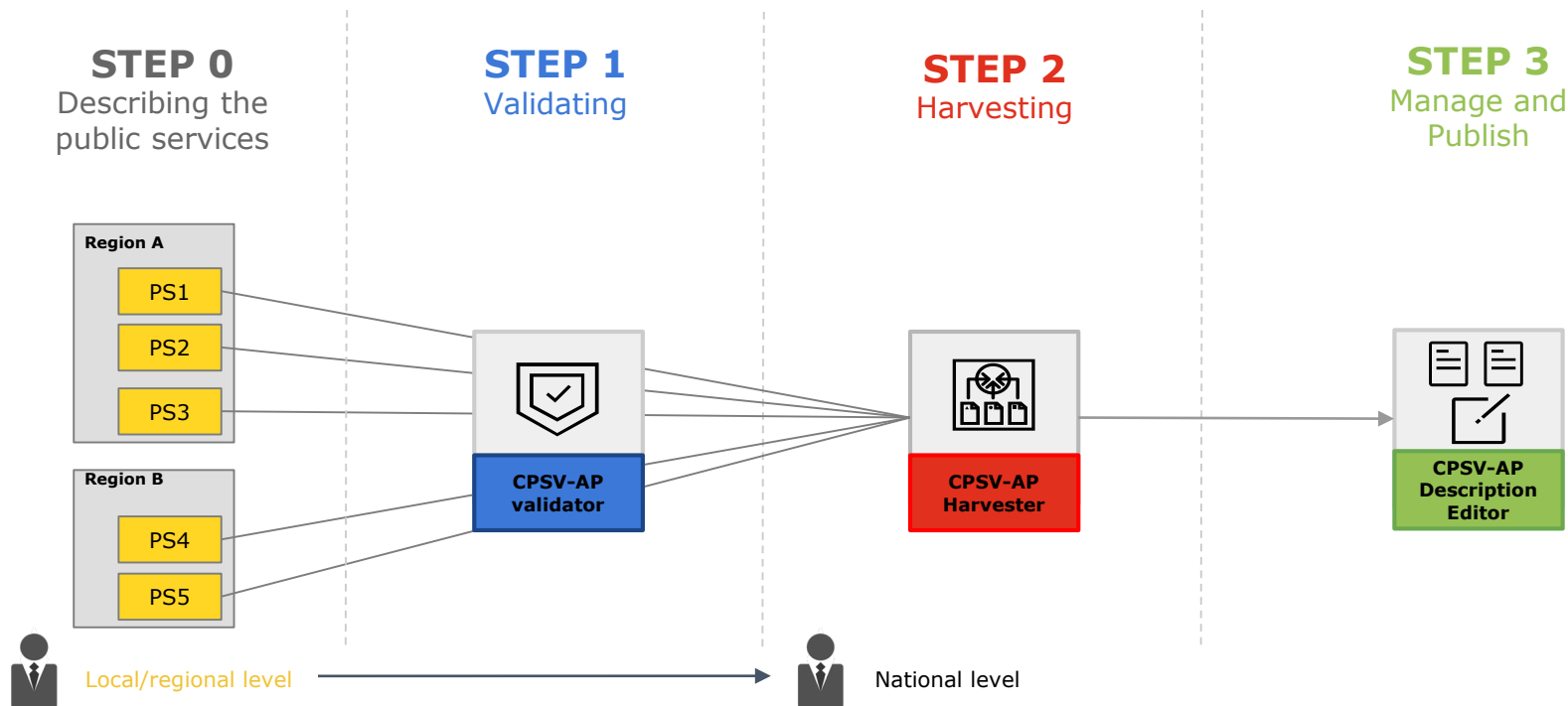
Creation of a federal/cross-border catalogue of public services

Example of Finland and Estonia, collecting data from two different countries into a single catalogue.

Which technologies were used to build this catalogue?



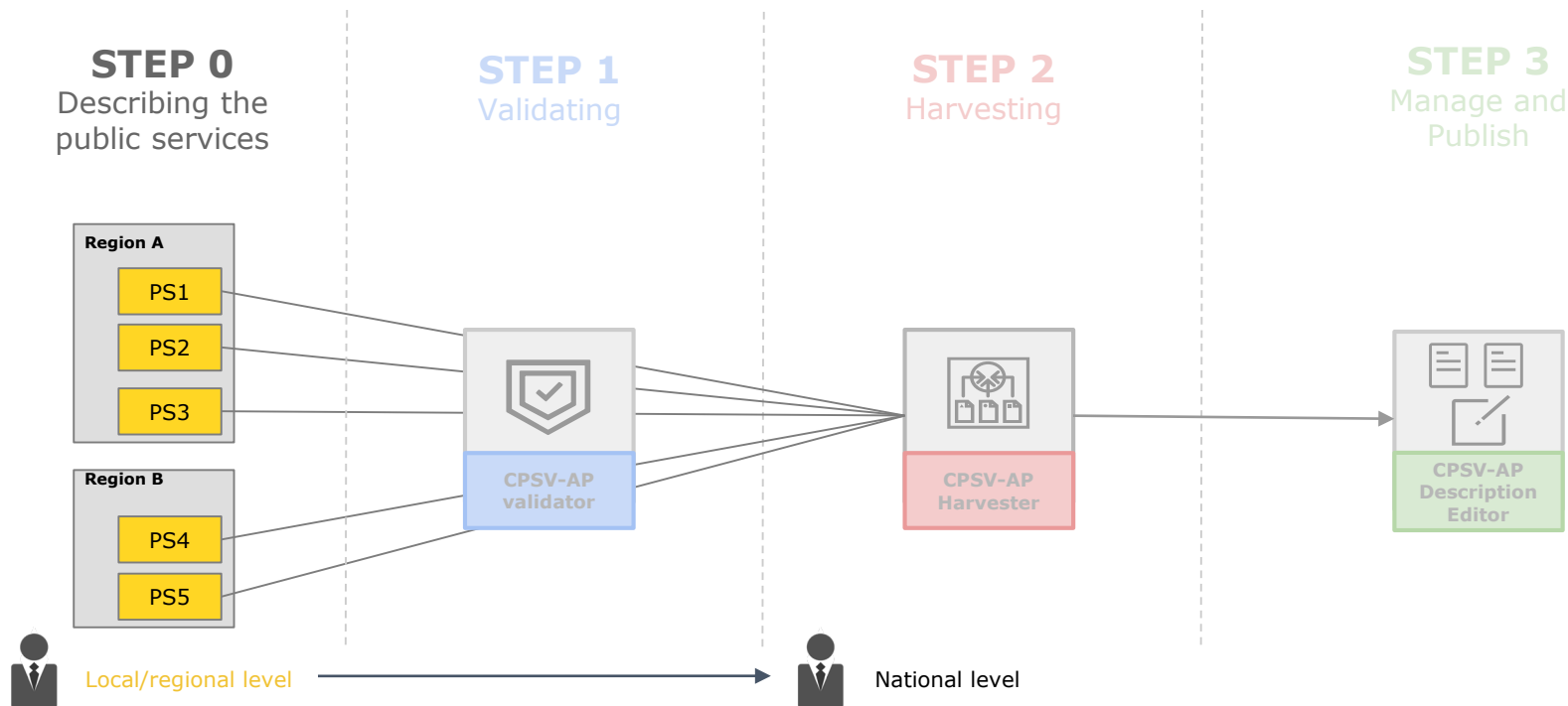
'I am a national authority, creating a national catalogue of services.'



Demo

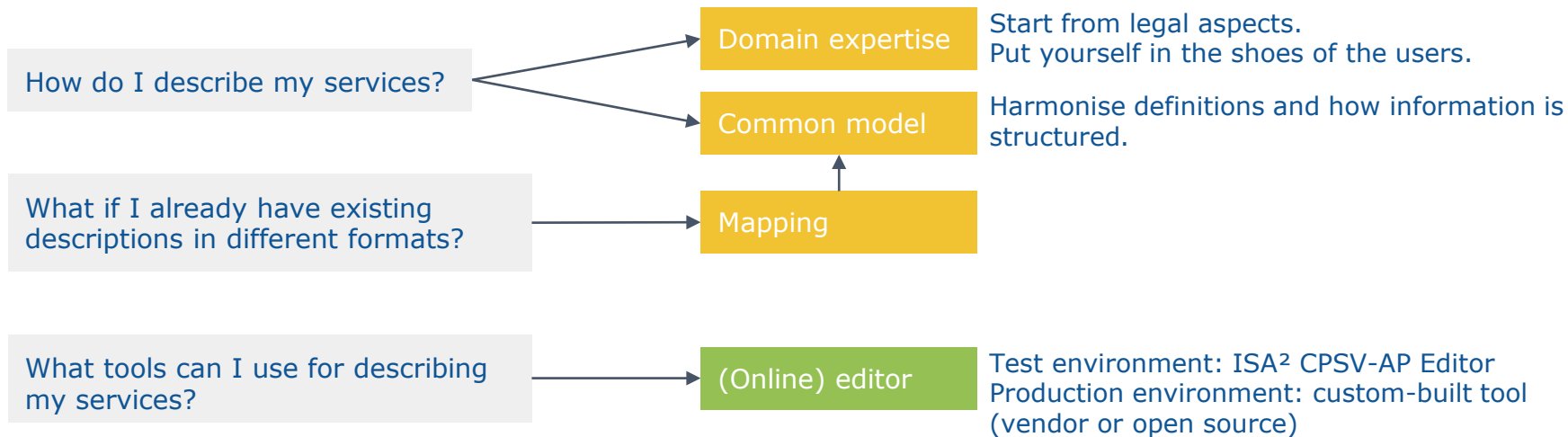
'I am a national authority, creating a national catalogue of services.'

STEP 0: Describing the public services



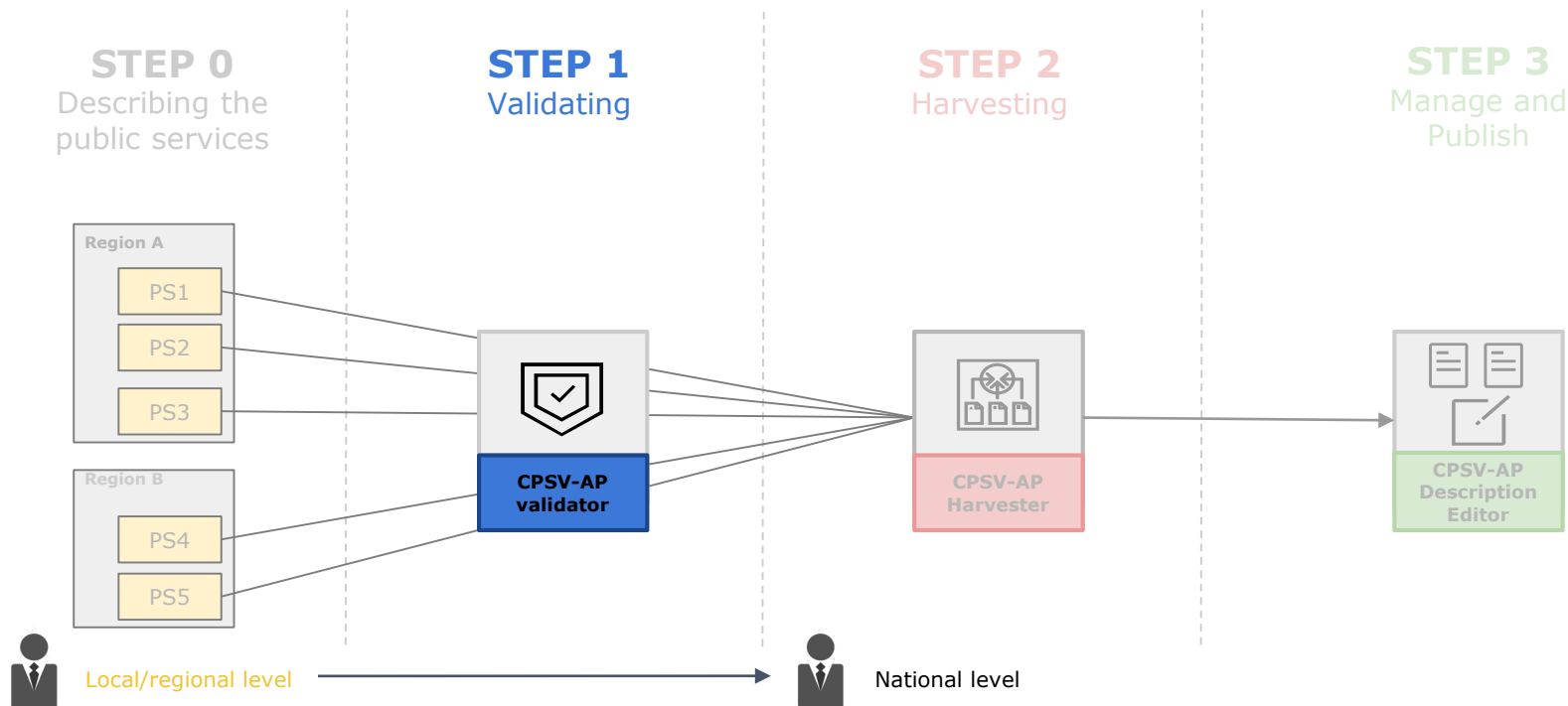
'I am a national authority, creating a national catalogue of services.'

STEP 0: Describing the public services (local/regional/national level)

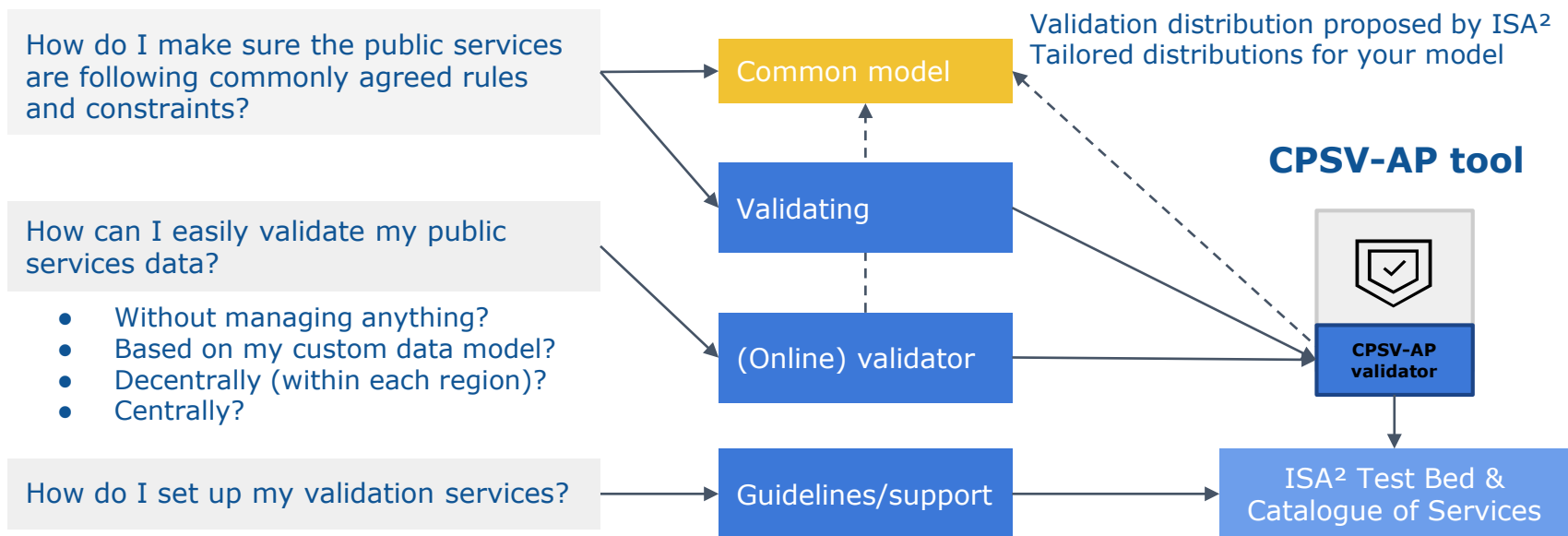


'I am a national authority, creating a national catalogue of services.'

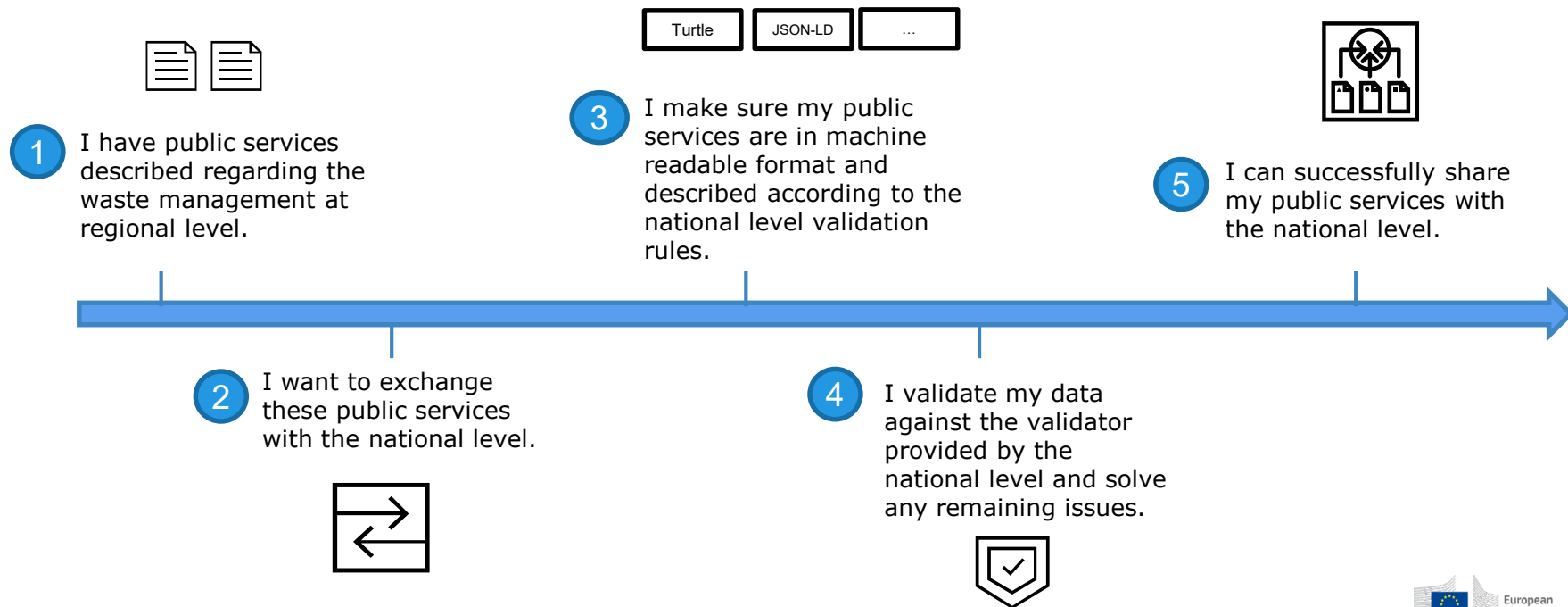
STEP 1: Validating



STEP 1: Validating



STEP 1: Validating – EXAMPLE validation from regional to national level



'I am a national authority, creating a national catalogue of services.'

STEP 1: Validating – EXAMPLE on the rules

Additional checks on the format (is it a text, is it a number, etc) are also in place.



CPSV-AP
validator

Public service:
Waste management

Identifier: ID_Waste_
Management

Name: Waste management

Description: The guidelines for
managing waste

Sector: Agriculture

Is Grouped By: doing a business

Has A Competent Authority:
Economic development

Identified as '**Public service**'.

A public service **must** have **one identifier**.

A public service **must** have **one name**.

A public service **must** have **one description**.

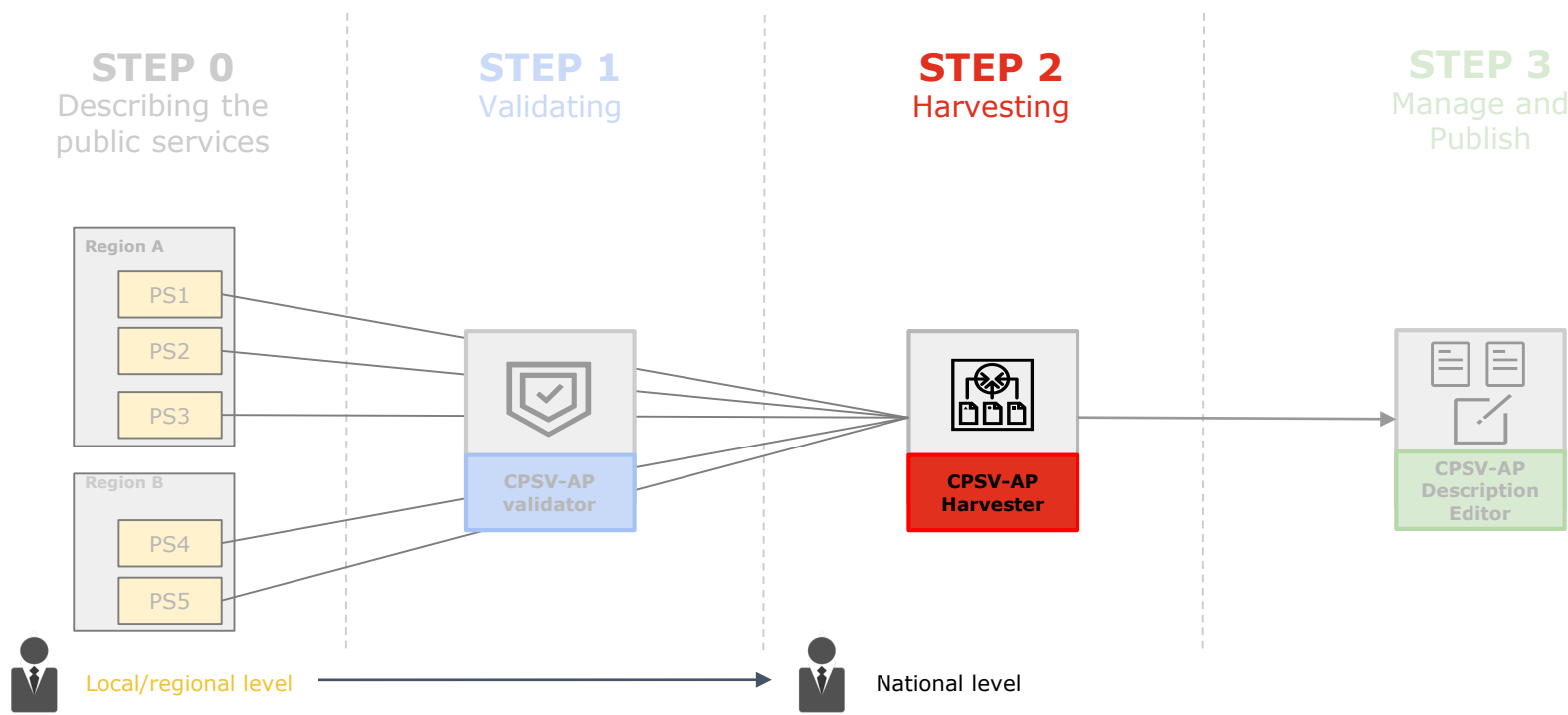
A public service **can** have **one or multiple sectors**.

A public service **can** be grouped by **one or multiple business or life events**.

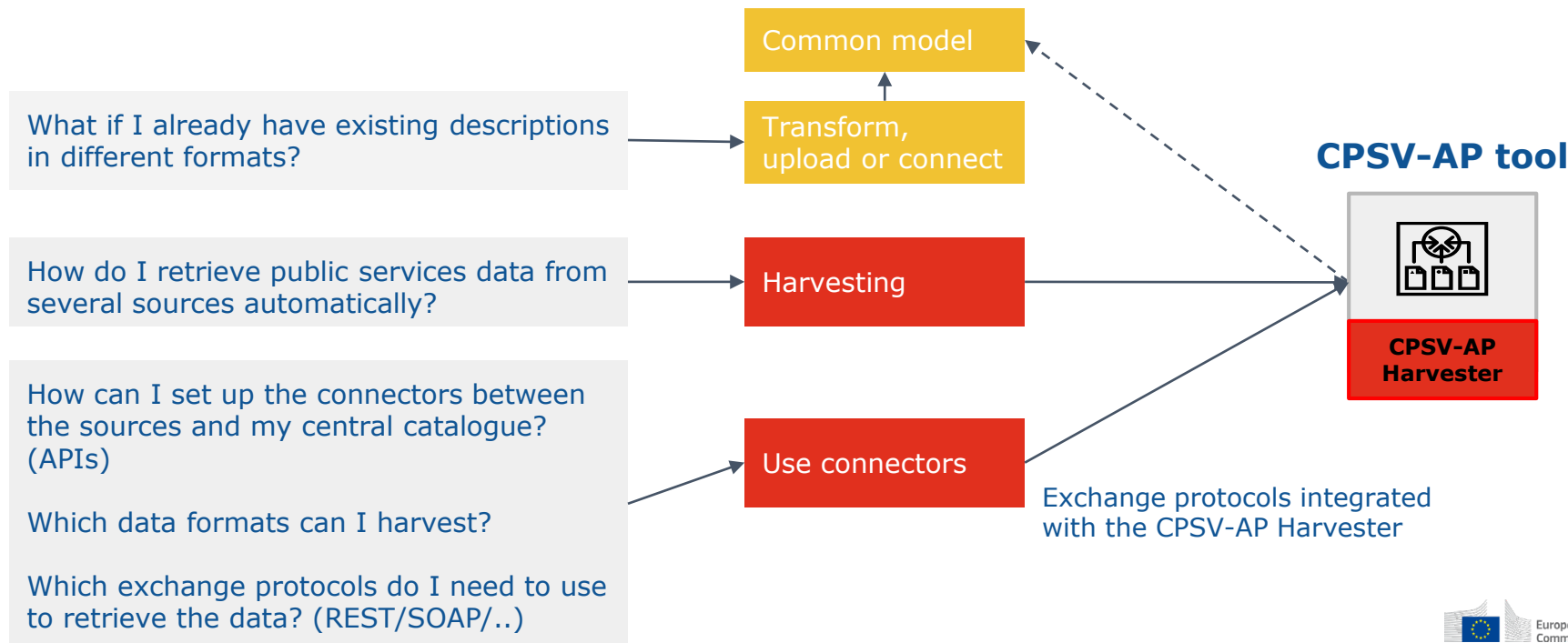
A public service **must** have **one competent authority**.

'I am a national authority, creating a national catalogue of services.'

STEP 2: Harvesting

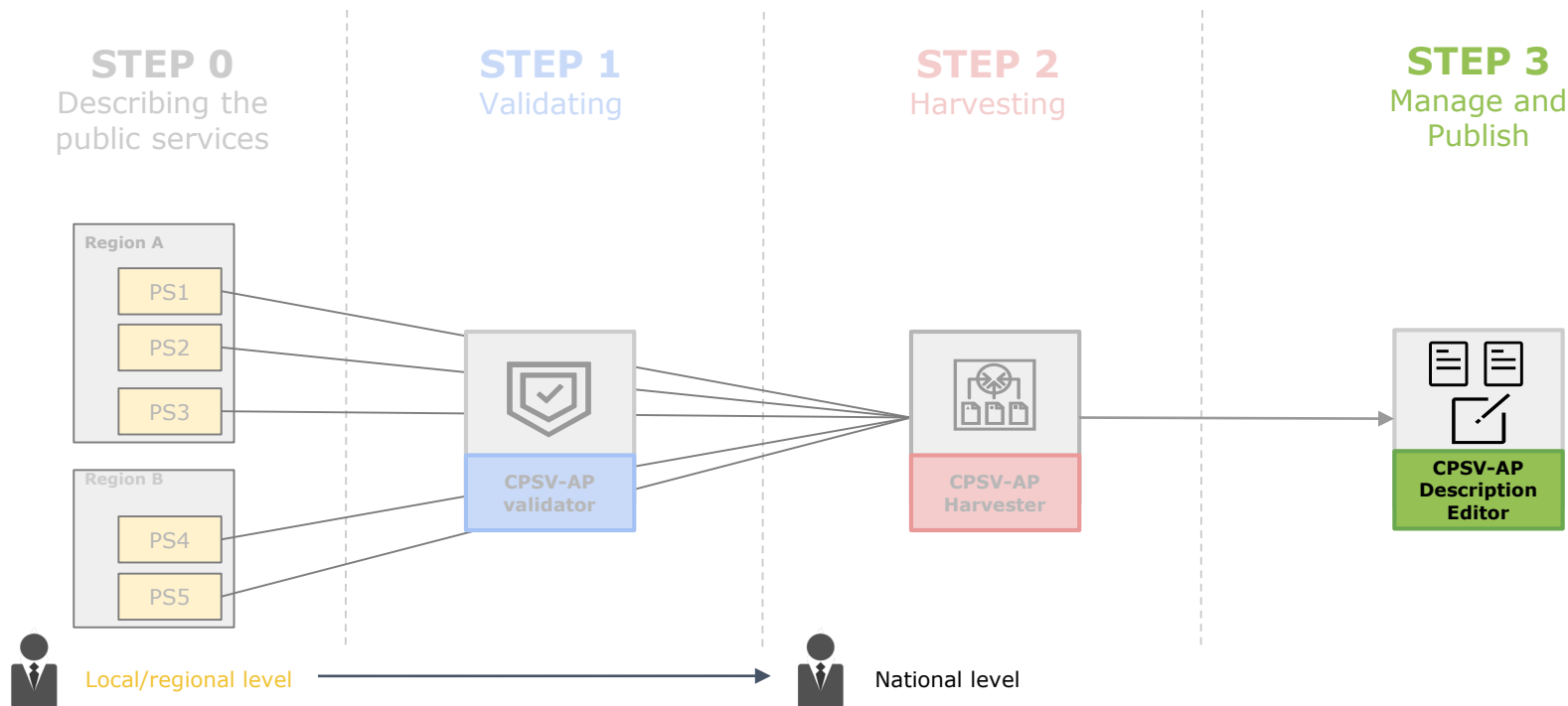


STEP 2: Harvesting



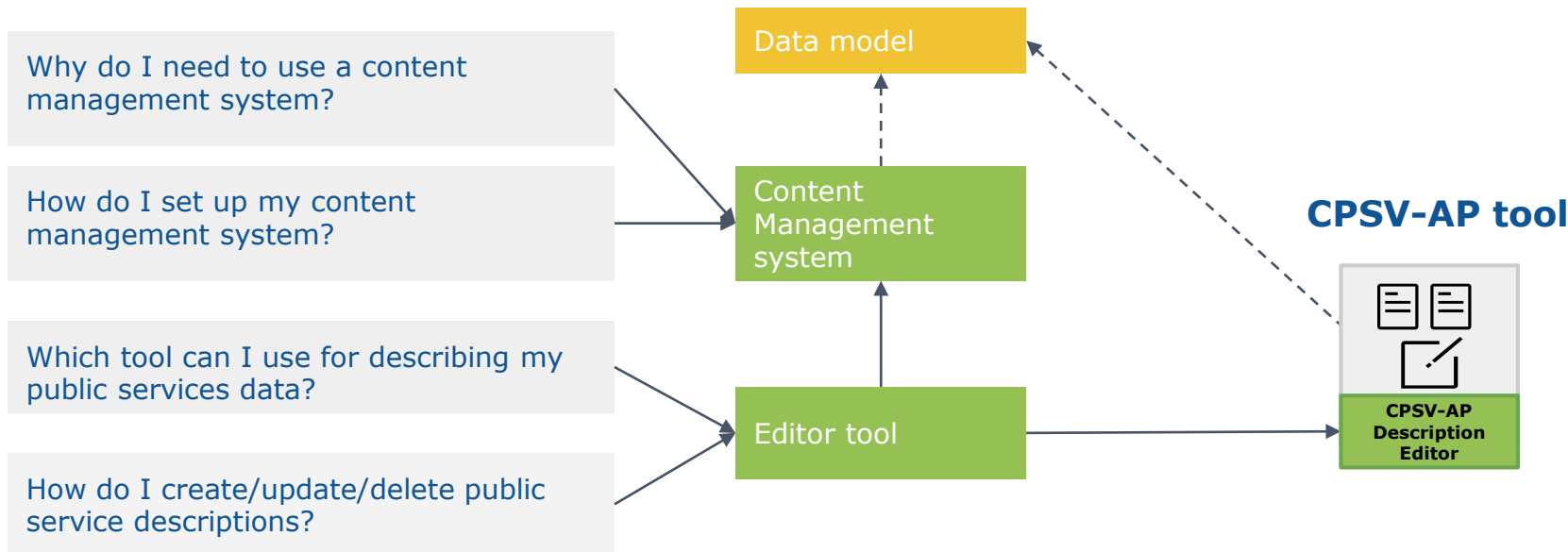
'I am a national authority, creating a national catalogue of services.'

STEP 3: Manage and Publish



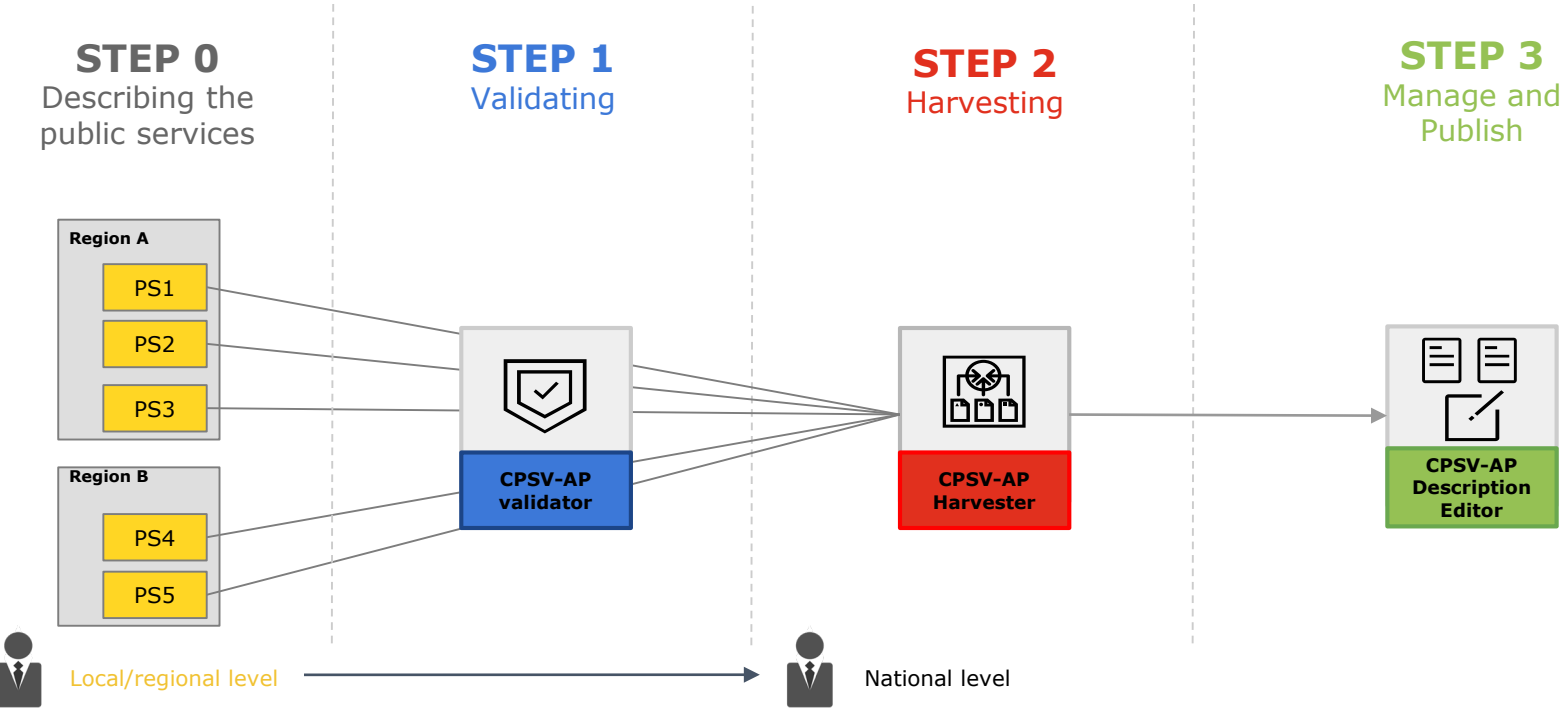
'I am a national authority, creating a national catalogue of services.'

STEP 3: Manage and Publish

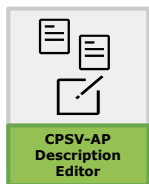


'I am a national authority, creating a national catalogue of services.'

Overview

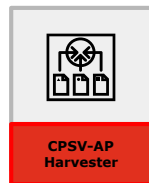


Access to the tools



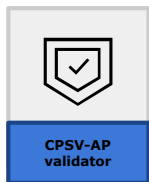
CPSV-AP Description Editor

http://cpsv-ap.semic.eu/cpsv-ap_editor/



CPSV-AP Harvester

http://cpsv-ap.semic.eu/cpsv-ap_harvester/cpsv-harvester.html



CPSV-AP Validator

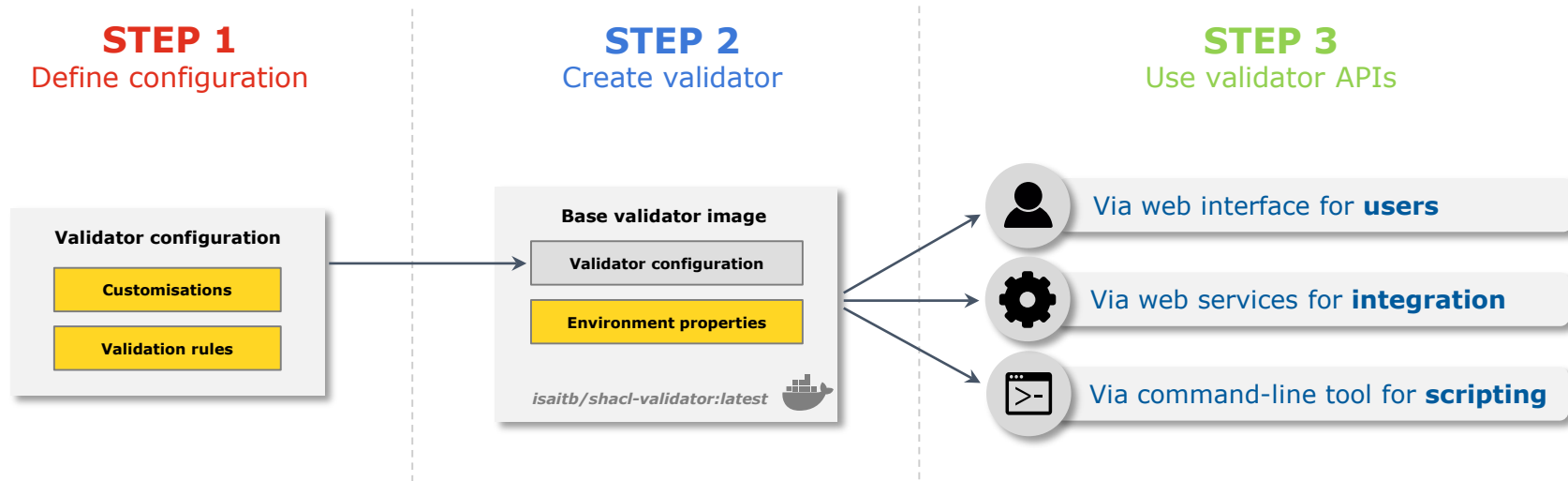
<https://www.itb.ec.europa.eu/shacl/cpsv-ap/upload>

Use case 2

'I need validation of my public service data.'

'I need validation of my public service data.'

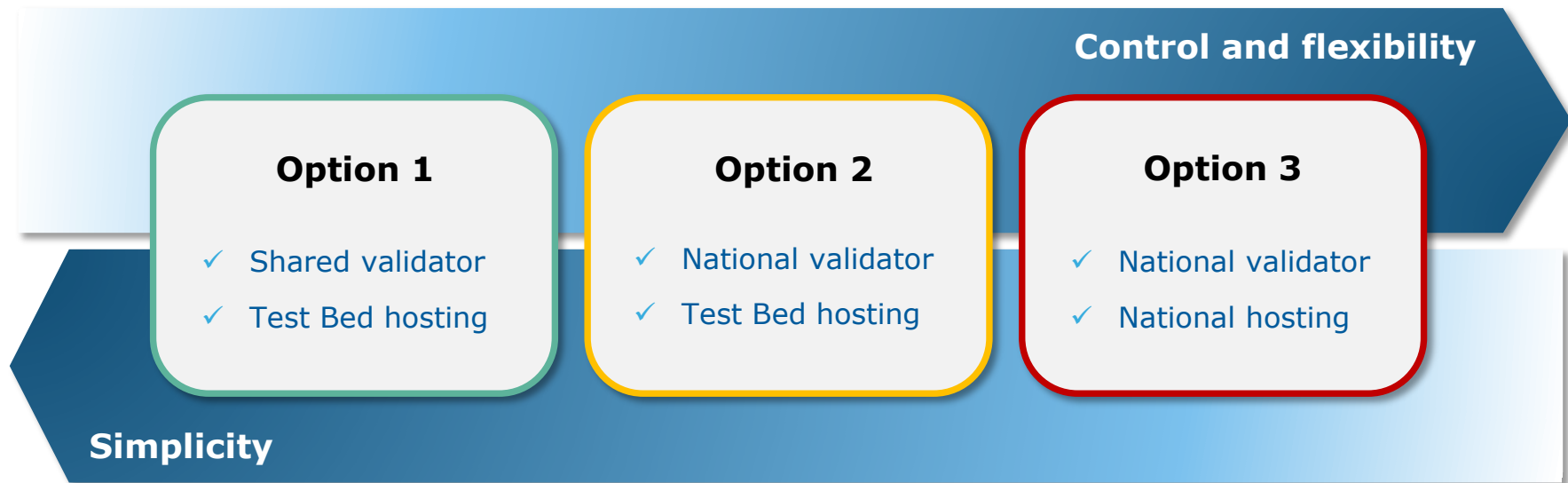
Test Bed validator setup



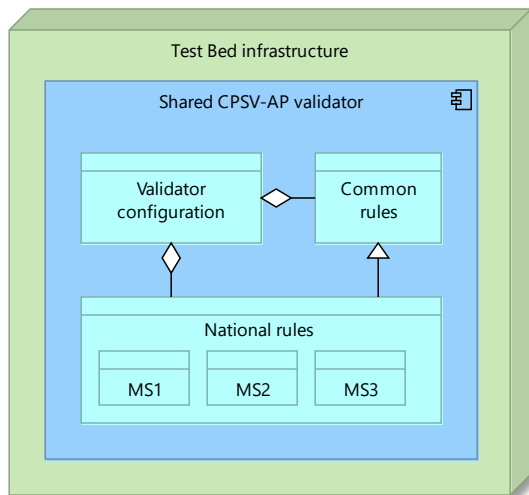
What are the options to operate your validator?

'I need validation of my public service data.'

Validator operation options



Option 1 Shared validator hosted on Test Bed resources

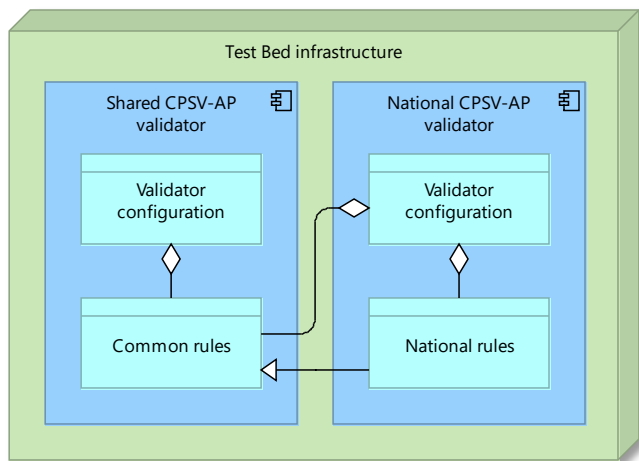


- ✓ Single, publicly accessible validator
- ✓ No operational, hosting or monitoring concerns
- ✓ Choice to validate against common or National rules
- ✓ Rule configuration managed by CoS team (e.g. via shared GitHub repository)
- ✓ National updates published following review process by CoS team

'I need validation of my public service data.'

Option 2

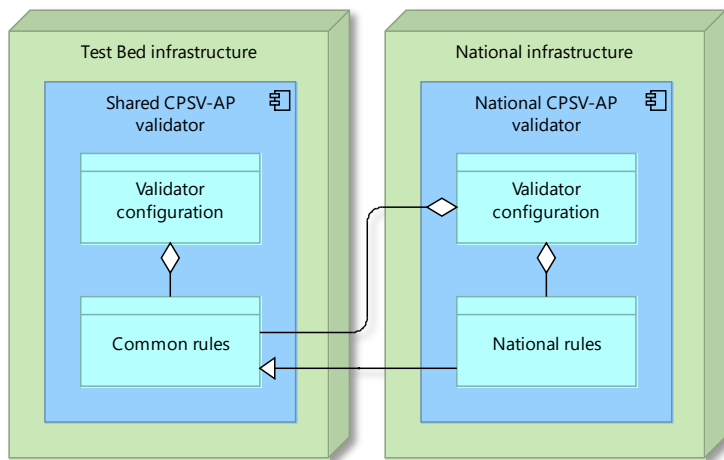
National validator hosted on Test Bed resources



- ✓ Separate, publicly accessible validator
- ✓ No operational, hosting or monitoring concerns
- ✓ Validator configuration, theming, behaviour and rules managed fully by Member State
- ✓ Common rules can be reused as needed
- ✓ Automatic service updates for new changes

Option 3

National validator hosted on National resources



- ✓ Separate, public or private validator(s)
- ✓ Hosting and operation by Member State
- ✓ Validator configuration, theming, behaviour and rules managed fully by Member State
- ✓ Common rules can be reused as needed
- ✓ Flexibility to integrate in internal processes (e.g. automatic validation of ingested data, integration with internal triple stores)

Demo

'I need validation of my public service data.'

Further conformance testing options

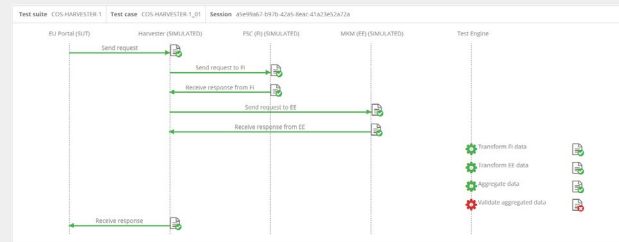
Additional validators

- ✓ Define National validators for any specification based on [RDF](#), [XML](#), [JSON](#) or [CSV](#), using the Test Bed's services
- ✓ Use as **public tools**, internal **quality control** services, ...



Complete conformance testing

- ✓ Use the [shared Test Bed platform](#) or a National instance
- ✓ Define your specifications' **conformance testing strategy**
- ✓ Reuse your validators as **building blocks** in test cases



Poll question

Which approach would you prefer for your public service data validators ?

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- I want to only provide my rules without operational concerns
- I want to set up my own validators but delegate their hosting
- I want full control and prefer to operate my validators myself

Poll question

What kind of support would you be interested in?

- **Harvesting**
- **Describing public services**
- **Validation services**

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You can directly email us in case you want to have a chat or have questions.

Poll question

Were the presented use cases in line with the support you expect from us?

- YES
- NO

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Poll question

What other kind of use cases or services would you be interested in?

e.g. automated tagging, chatbots, Natural language processing

[OPEN QUESTION]

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Next steps

1. **Direct support** to the Member States related to:
 - the use of the tools;
 - the use of CPSV-AP;
 - the compliance with CPSV-AP.
2. **Communication activities and learning materials**
3. **Maintenance or development of open specifications,**
e.g. CPSV-AP

Poll question

What training materials would you be interested in?

- How to use the CPSV-AP tools
- How to validate my public services
- Understanding the CPSV-AP data model
- Mapping my data to the CPSV-AP data model
- other

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Feel free to mention other training materials in the chat or email us.

4. Q&A



ISA² programme

You click, we link!

Stay in touch
ec.europa.eu/isa2



@
EU_isa2



ISA²
Programme



**DIGIT-ISA2-
COMM@ec.europa.eu**

Run by the Interoperability Unit at DIGIT (European Commission) with 131€M budget, the [ISA² programme](https://ec.europa.eu/isa2) provides public administrations, businesses and citizens with specifications and standards, software and services to reduce administrative burdens.

ISA²

Shaping together

EIF

the future policy on

public sector

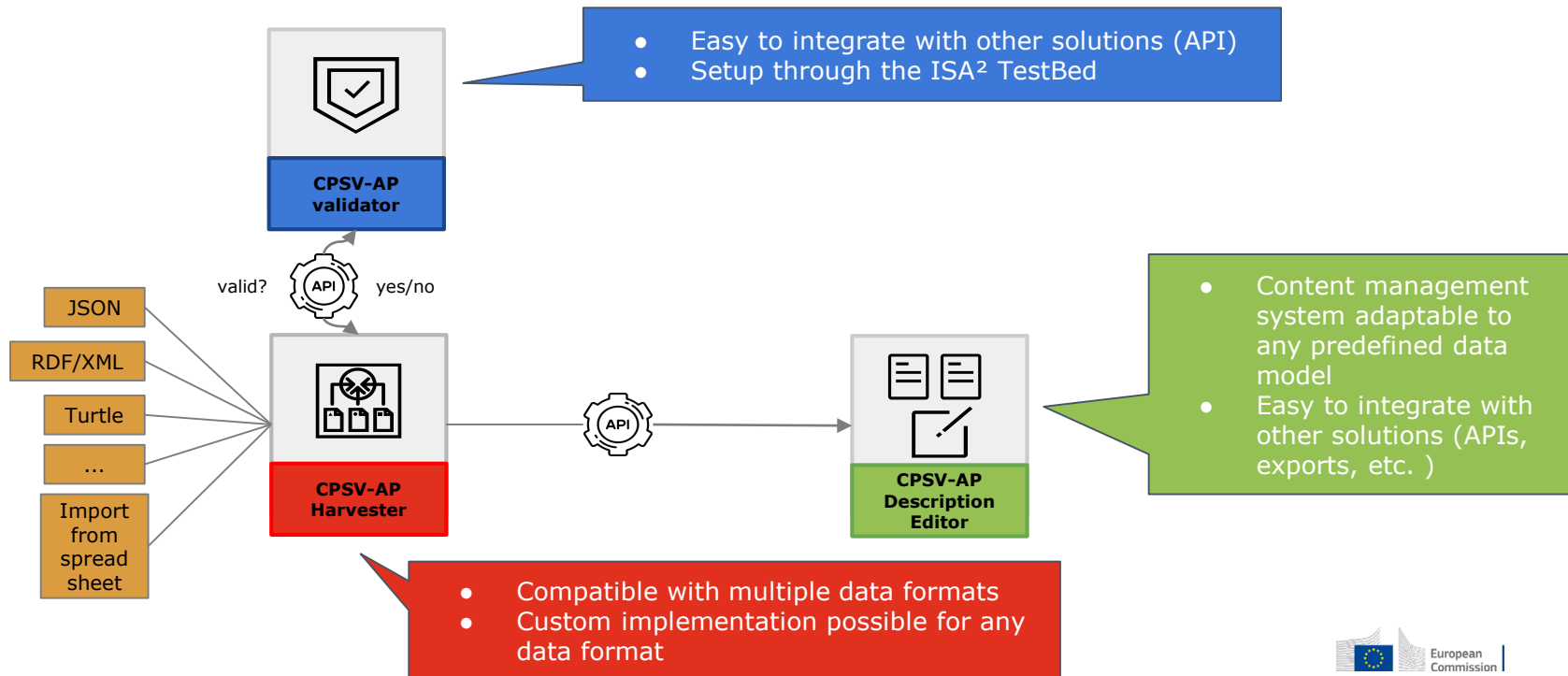
interoperability

KNOW
MORE
and GET
INVOLVED



Annex

Overview of the tools



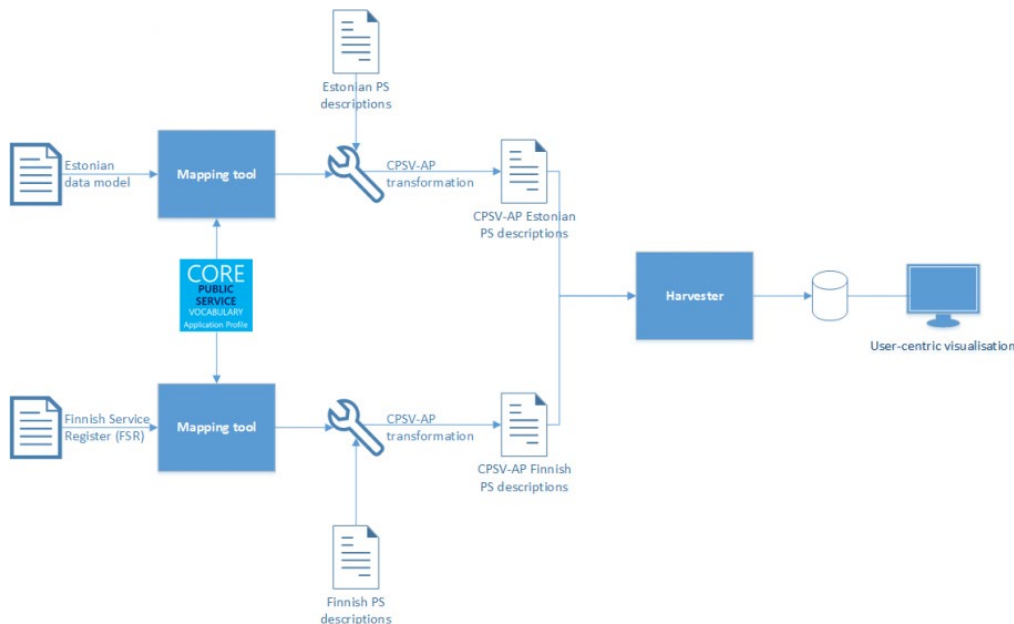
Catalogue of Services pilot examples

- Creation of a federal/cross-border catalogue of public services (pilot 1)
- Implementation of a description editor (pilot 2)
- Automated validation of compliance for CPSV-AP (pilot 3)

Pilot 1: Creating a cross-border catalogue of public services with Finland and Estonia



Pilot 1: Creating a cross-border catalogue of public services with Finland and Estonia



Tools used in pilot:

- Harvester
- Mapping tool

Documentation available online:

- [Joinup](#)
- [GitHub](#)

Pilot 2: Tailoring the public service description editor for the Netherlands

GOAL:

A Simple way of creating public service descriptions that follow the Dutch national data model for describing and exchanging public services.

APPROACH;

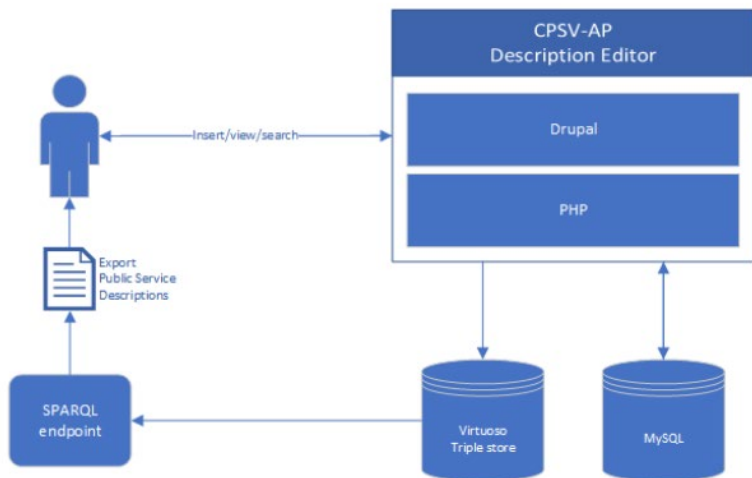
By **adapting the** CPSV-AP Description Editor, to the Dutch national data model format, it enabled the user to create descriptions following the Dutch data model, save these and edit them later in an user-friendly way.

The screenshot shows a web form titled 'Create Product'. It contains several input fields and dropdown menus: 'Identificatie' (with a red asterisk), 'Titel', 'Taal' (a dropdown menu with options: Croatian, Czech, Danish, Dutch), 'Sector' (a dropdown menu with '- None -'), 'Bevoegd gezag categorie' (a dropdown menu with '- None -'), 'Bevoegd gezag label', 'Bevoegd gezag URI', and a large text area for 'Samenvatting'.

Template in the Description editor for adding a 'Product' according to the Dutch data model

Pilot 2: Tailoring the public service description editor for the Netherlands

CPSV-AP Description Editor architecture



Tools used:

- Description Editor
- APIs

Documentation available online:

- [Joinup](#)
- [GitHub](#)

Pilot 3: Adapting the CPSV-AP Validator for CPSV-AP Italy

Description

In this pilot, we tailored the CPSV-AP Validator to be able to validate the public service descriptions. This involved modifying the rules of the Validator according to the Italian specifications, namely CPSV-AP_IT

Documentation available online:

- [Joinup](#)

Showing 1 to 5 of 5 entries

Class Name	Rule ID	Rule Severity	Rule Description	Message
<input type="text" value="Search Class Name"/>	<input type="text" value="Search Rule ID"/>	<input type="text" value="Search Rule Severity"/>	<input type="text" value="Search Rule Description"/>	<input type="text" value="Search Message"/>
PublicService	179	▲ error	cpsvapit:PublicService non esiste.	La classe obbligatoria cpsvapit:PublicService non esiste.
RoleInTime	180	▲ error	cpsvapit:RoleInTime non esiste.	La classe obbligatoria cpsvapit:RoleInTime non esiste.
Role	181	▲ error	cpsvapit:Role non esiste.	La classe obbligatoria cpsvapit:Role non esiste.
Input	182	▲ error	cpsvapit:Input non esiste.	La classe obbligatoria cpsvapit:Input non esiste.
Channel	183	▲ error	cpsvapit:Channel non esiste.	La classe obbligatoria cpsvapit:Channel non esiste.

Validation results