



# User Group Meeting

**Project Officer:** 

**Bernard CLAES** European Commission – DIGIT B2 Business Manager of Joinup

## inter coerable europe

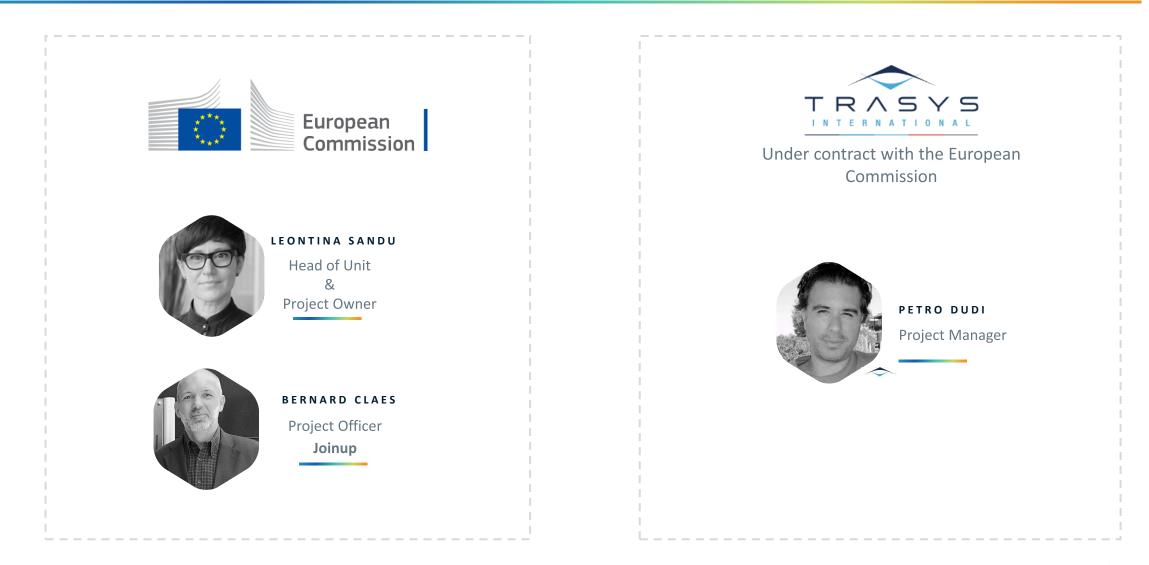
April 2024

ÍC

innovation 👓 govtech 👓 community

Project team

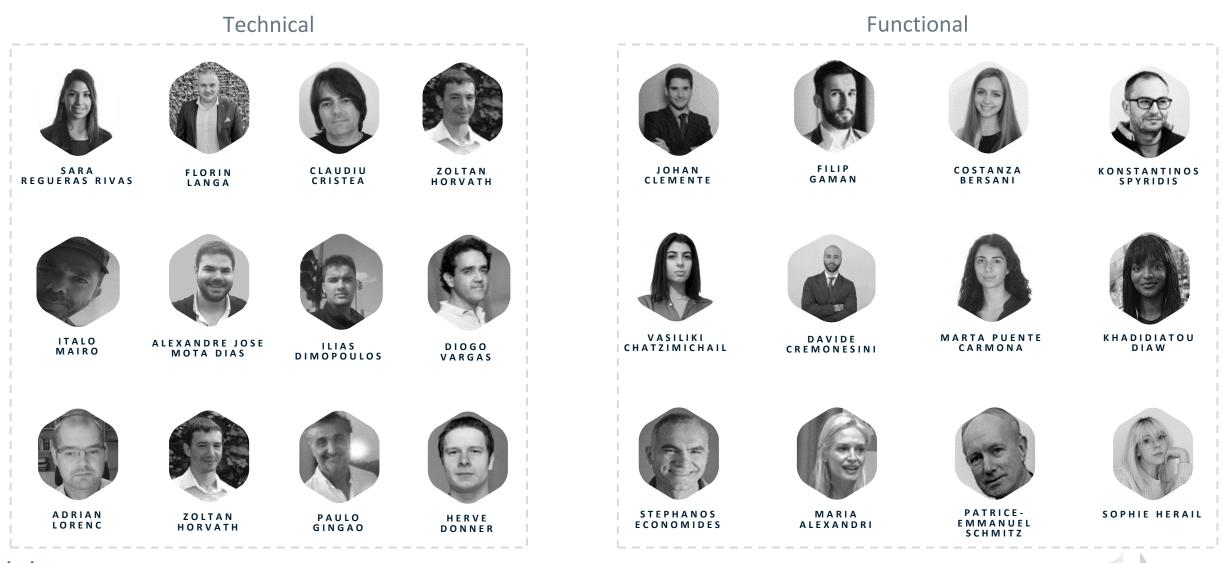
#### Management Level





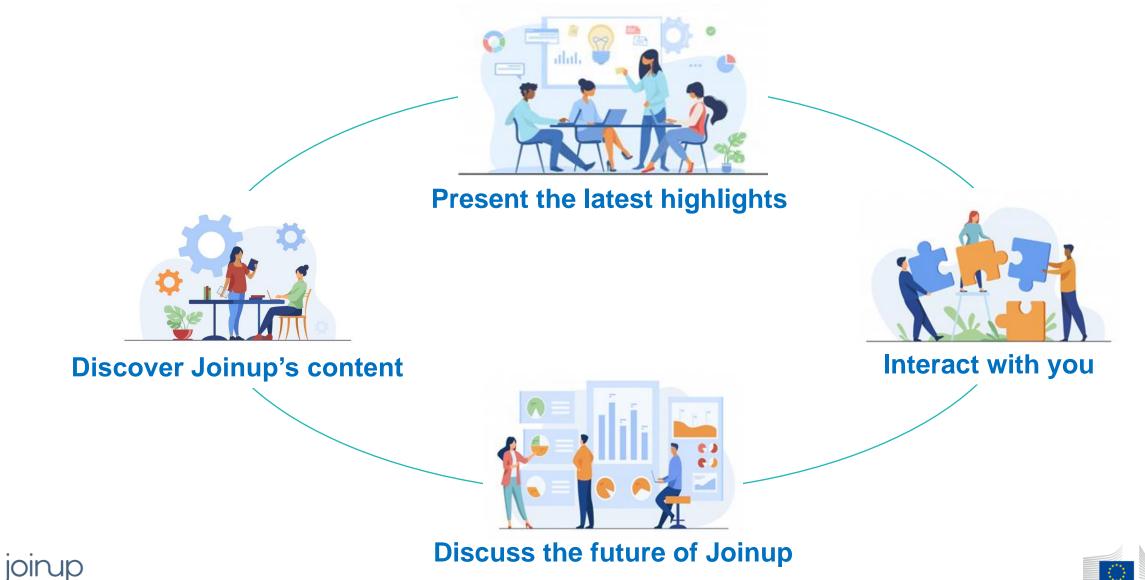
#### Project team

#### Core team





## Objectives of the meeting



European Commission



 $\bigcirc$ 

Highlights for content creators

Interesting content

Coming soon

Interactive session

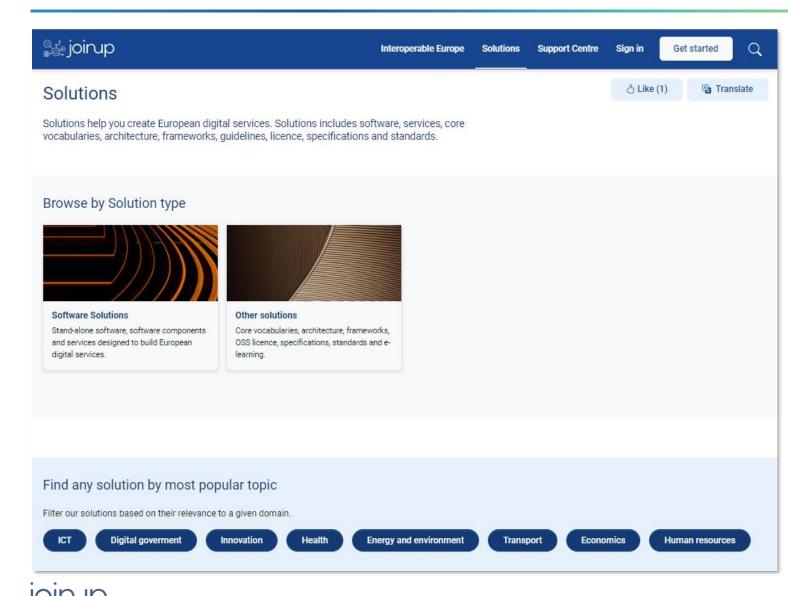
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#### Highlights for users

Solutions Hub



#### **Benefits**

• Discover solutions by types

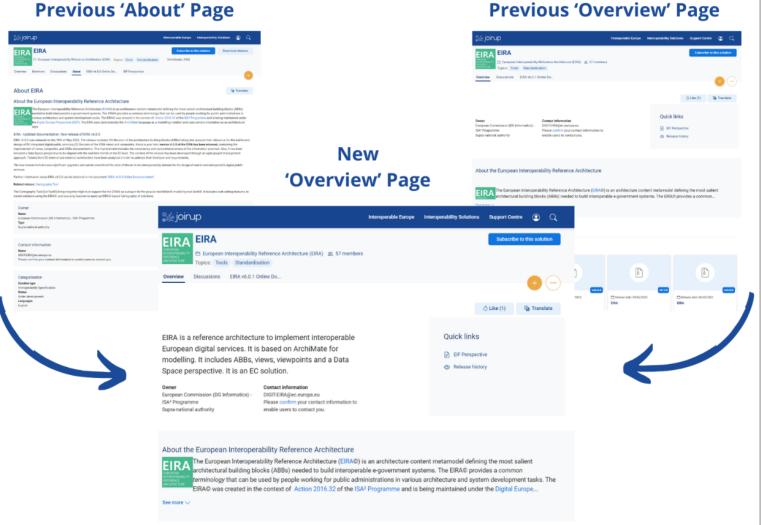
#### What's coming (Q1/2025)

- The open-source software shared by member states
- The Interoperable Europe recommended solutions



#### Highlights for users

#### Unified Overview page for Collections/Solutions



#### **Previous 'Overview' Page**

#### **Benefits**

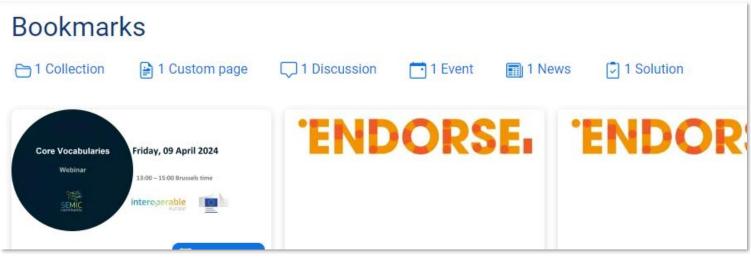
- Consistent user experience ٠
- Priority to key information ٠
- New abstract text to pitch your ٠ project



#### Highlights for users

#### Navigation improvements – Bookmark content

	Interoperable Europe	Solutions	Support Centre			
entre		] Bookmark	🖒 Like (5)	🛃 Translate		
Europe Support Centre!						
tic, technical and organisational aspects to vices.						
Irses, frameworks, architectures	s, core					



#### **The Bookmark feature**

• Save your favourite content for easy further access

#### The Bookmarks page

• Your Bookmarks page lists the bookmarked content and lets you filter it by content type



Agenda



/	$\sim$	
	/	

Highlights for content creators

Interesting content

Coming soon

Interactive session

AOB

User Group Meeting



#### **Archiving Solutions**

#### The key to preserving relevant content

European Commission						
°e joirup	Interoperable Europe	Solutions	Support Centre	Sign in	Get started	Q
engage engage e eParticipation and eVoting  overview engage engag						
				🖒 Like	(0) 🍓 Tran	nslate
engage is an eParticipation toolkit developed under the Parterre Project, which was part funded by the Europear Commission under the CIP (ICT-PSP) Programme 2009. Owner Unknown Contact information cleland-b2@email.ulster.ac.uk			Quick linl			
engage is an eParticipation toolkit developed under the Parterre Pr PSP) Programme 2009. The source code is available under the Affe The application is designed to support citizen engagement within a data from round table discussion groups. The results can be visual See more V	ro GPLv3. Town Meeting-style	environme	nt, using tablets	to gather	comments and	lvoting
Show archived						

#### **Benefits**

- The whole Solution is archived
- The solution is still accessible
- Provide better results in the search.

#### How it works

- Edit the solution and click on the button "Archive"
- Only Moderators can archive a Solution for now



#### Gallery of images

Add galleries of images		
	P Solutions ag 14246 members Topics: eGovernment Ucensing Context and Inc Overview Discussions Country Knowledge Joinup Roadma Add custom page	Choose a component Carouser Content listing Content listing Cathody Feed
European Commission	Title * New Custom page Title title	H2 Heading B IFrame Image Map
joinup Interoperable Europe Solution	Body In Cupport Contro	all Poll 66 Quote 88 Social media
joirup Joinup 9 Solutions <u>82</u> 14266 members Topics: eGovernment Licensing Content and knowledge management Overview Discussions Country Knowledge Joinup Roadmap Technical documenta See more V	Topic *  Digital government Business and competition Collaboration Collaboration Demography and population Demography and	Testimony Tifes Tifes Text Video Video Video Video Method Method Video Method Video Method Nethol
New Custom page1	🖒 Like (0) 🗳 Translate	
mage Gallery 1	< >	

#### **Benefits**

- Show multiple images
- View each image in full scale
- Batch upload images to the gallery

#### Where to find it

• Available as a Layout Editor component for Custom Pages







- Highlights for content creators
  - Interesting content

Coming soon

Interactive session

AOB

User Group Meeting



# Interoperability Test Bed (ITB)



#### **Costas Simatos**

Solution Architect – Interoperability Test Bed Team Leader

## Interoperability Test Bed (1/3)

Powered by DIGIT B2

Standards based

(GITB CWA)

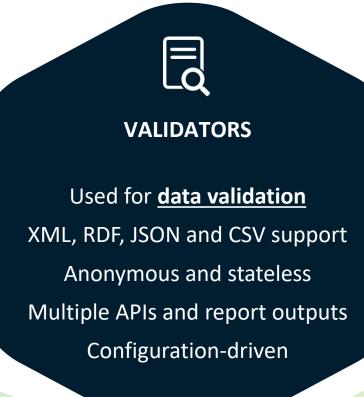
An online, intuitive and self-service platform for conformance testing of IT systems against semantic and technical specifications

# ITB

Interoperability Test Bed

> European Commission

## Interoperability Test Bed (2/3)



## CONFORMANCE TEST BED Used for conformance testing Account-based access

Scenario-based test cases Rich monitoring and reporting Extensible capabilities



## Interoperability Test Bed (3/3)

#### **USE AS A DIGIT SERVICE**

Use as <u>services</u> Shared cloud-based instances Hosted and operated by DIGIT User-managed configuration Distinct setup per project

#### **INSTALL ON-PREMISE**

Use as <u>components</u> Public Docker images Hosted and operated by users Allows internal integrations Allows access restrictions



## European Public Licence (EUPL)



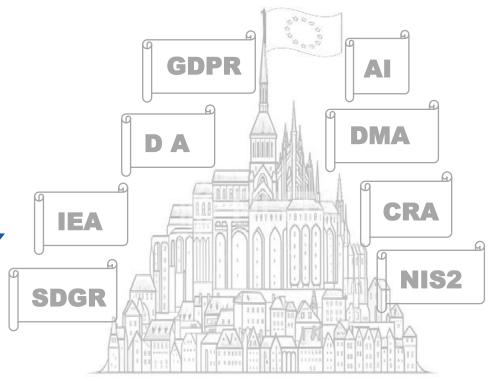
#### **Patrice-Emmanuel Schmitz**

Joinup Legal Expert

## EUPL is focused on OPEN LICENSING (not "only" on the EUPL)

- Fighting to strengthen sovereignty, trust principles and the rule of law, EU puts together regulation pieces.
- The role of **digital commons** is crucial. Their "OPEN" character results from the <u>licence</u>.
- No regulation will impose a specific F/OSS licence, but the EUPL is proposed as a tool for interoperability and good governance, for public & private digital commons.

#### EU DIGITAL SOVEREIGNTY REGULATION CATHEDRAL



#### DIGITAL ECOSYSTEM BAZAAR



#### Commission Decision C(2021) 8759:

The open source licence granted by the Commission **shall be** the EUPL

#### IEA - Interoperable Europe Act (8.3):

Where public sector portals collect open source solutions, they **shall allow** for the use of the EUPL

- Working value in 23 languages
- Covering all forms of "distributions" (including remote/SaaS)
- Inclusive (scope covers "the Work")
- Providing open rights/freedoms (certified by both OSI and FSF)
- EU law is applicable (Member State of licensor)
- Realistic liability exclusion (+ inclusion of a guarantee of origin CDO)
- Distributed derivatives **must stay open** ("copyleft" clause)
- But... Interoperable: freedom of linking, no "virality"
  - Compatible with other copyleft licences (GPL/AGPL LGPL MPL EPL etc.): combined derivatives could be re-licensed. The compatible licence prevails only in case of conflict (but sharing and reciprocity remain)

EUPL provides guidelines, FAQs, news, discussions... and even some philosophy.









Subscribe to this solution

#### JLA

- Find "your" license
- Read the full text
- Compare licenses
- Check compatibility

#### **Contact form**

• Obtain legal opinion

#### **Connections with**

- The SPDX project
- Other relevant Joinup spaces: OSOR, BLSI



#### Joinup Licensing Assistant

#### Find and compare software licenses

Can	Must	Cannot	Compatible	Law	Support
Use/reproduce	Incl. Copyright	Hold liable	None N/A	EU/MS law	Strong Community
Distribute	Royalty free	Use trademark	Permissive	US law	Governments/EU
Modify/merge	State changes	Commerce	GPL	Licensor's law	OSI approved
Sublicense	Disclose source	Modify	Other copyleft	Other law	FSF Free/Libre
Commercial use	Copyleft/Share a.	Ethical clauses	Linking freedom	Not fixed/local	
Use patents	Lesser copyleft	Pub sector only	Multilingual	Venue fixed	
Place warranty	SaaS/network	Sublicence	For data and metadata		
	Include licence		For software		
	Rename modifs.				
or enter licence SPDX IE	D: SPDX ID	]			Reset



# Big Data Test Infrastructure (BDTI)



#### Maria Claudia Bodino

Team Leader - Digital Innovation Policy

DIGIT.DDG.B.1.001 - Data, AI and Innovation Policy

## What is the Big Data Test Infrastructure (BDTI)?

Not only for big data, for public sector in general (no personal data)





To help the public sector **to derive insights from data** and accelerate transition towards **data-informed decision making**.





## Who is the Big Data Test Infrastructure (BDTI) for?



European Public Administrations All European Public Administrations at local, regional and national level can independently apply for a BDTI pilot project



Ecosystem with academia and private sector Academia, spin-off, startups can apply for pilot projects as long as there there is a **clear collaboration** with a Public Administration which will be the main point of contact for the project (Master/PhD, GovTech startups)



We need YOUR support in promoting BDTI between your public administrations

Contact us:

EC-BDTI-PILOTS@ec.europa.eu











Benefit of six months free of charge service, including advisory and technical support for the duration of the pilot



#### **Experiment with data analytics**

using high **performance infrastructure** that leverages the power of the **elastic cloud** 



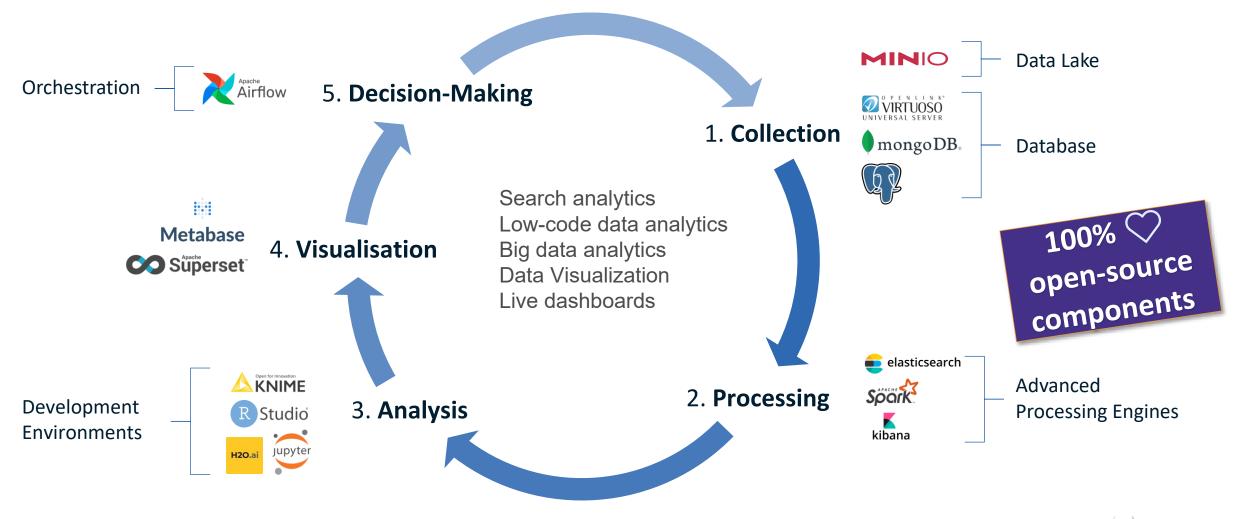
Receive guidance to move from a pilot to a production-ready process – EXIT package

 $\rightarrow$  Test your idea  $\rightarrow$  Extract value  $\rightarrow$  Create knowledge

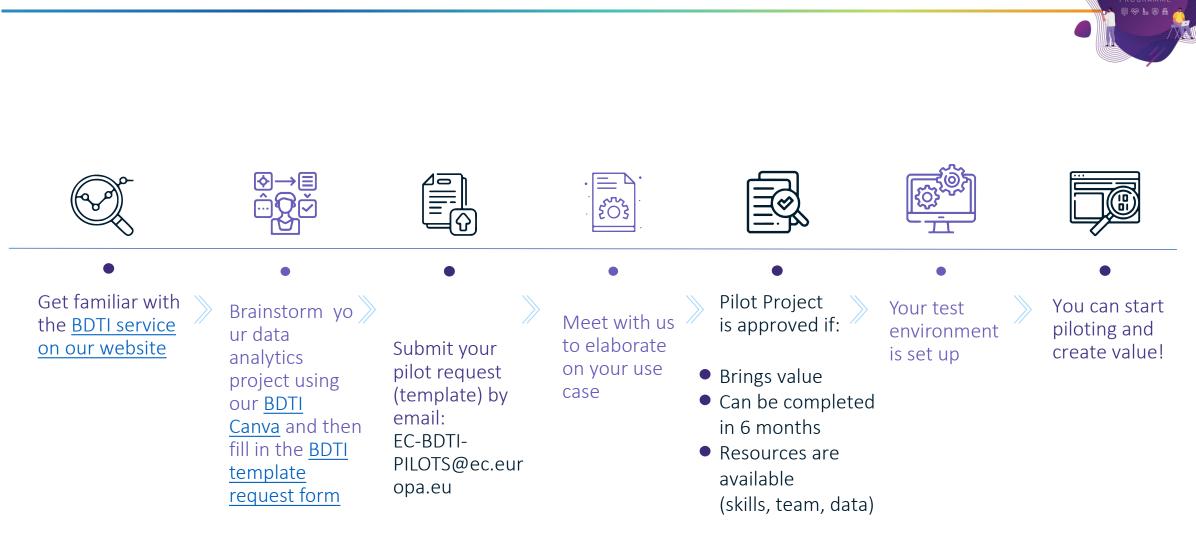




## With its open-source tools, BDTI supports you throughout your data journey



European Commission





DIGITAL



#### **CONSELLERIA DE SANITAT (CS) - Text Mining**

Conselleria de Sanitat, the Health Public Administration of the Comunidad Valenciana Regional Government, needed a tool capable of analysing and extracting knowledge from the huge quantity of scientific clinical articles coming from different sources (i.e. PubMed.gov, Covid-19 related clinical articles).

#### **EU CONVALESCENT PLASMA DATABASE – Data sharing**

The European Blood Alliance is working together with the European Commission (DG SANTE) to create and manage an **EU-wide open-access platform** that collects data to support a study on **Covid-19 convalescent plasma therapy**. The aim of the study is to assess in which conditions the convalescent plasma treatment is most effective, in order to take data-driven decisions on the therapy and focus the efforts of the research in the most promising directions.

#### **CITY OF FLORENCE – Mobility data**

The main goal of the Municipality is to perform a **cross correlation between the multiple datasets** available within the city to understand how people were and are moving between the different districts, to then derive precious insights about mobility and about **how services can be redesigned to foster cultural activities and events.** 



Advanced **data visualisation** and **text mining** tools to help **extract knowledge contained in the documents**, supporting clinicians and managers in their clinical practices and day-to-day work.



A ready-to-use, virtual environment in which **data collected through a custom-built website** is ingested and anonymised, to be then analysed with advanced data visualisation and analytical tools. Initially, only donation data was processed, then the scope was increased to capture the **end-to-end of blood plasma, from donation to patient/clinical trial.** 



Predictive, descriptive and time-series analysis on multiple datasets collected **before**, **during and after the Covid-19 pandemic** such as: public Wi-Fi sensors, parking and geo-referenced data of people movements (i.e. tourists).



## Who used it already?

#### Semantic Knowledge Graphs for Distributed Data Spaces

#### The Public Procurement Pilot Experience

Semantic Knowledge Graphs for Distributed Data Spaces: The Public **Procurement Pilot Experience** 

Cecile Guasch<sup>1</sup>, Giorgia Lodi<sup>2</sup>, and Sander Van Dooren<sup>1</sup>, and Sander Van Dooren<sup>1</sup>,  $\mathbb{D}$ 

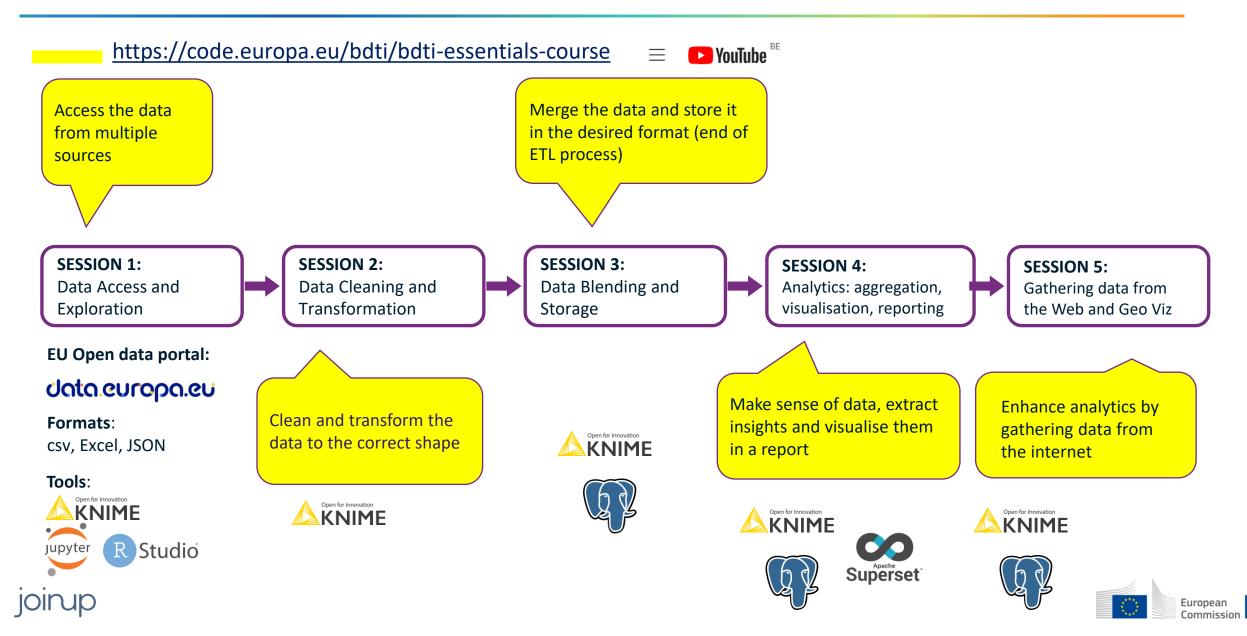
<sup>1</sup> European Commission, DG DIGIT, Brussels, Belgium {cecile.guasch,Sander.VAN-DOOREN}@ext.ec.europa.eu <sup>2</sup> Institute of Cognitive Sciences and Technologies of the Italian National Resea Council (ISTC-CNR), Rome, Italy giorgia.lodi@cnr.it

Abstract. This paper presents the experience gained in the context of a European pilot project funded by the ISA2 programme. It aims at constructing a semantic knowledge graph that establishes a distributed data space for public procurement. We describe the results obtained, the follow up actions and the main lessons learnt from the construction of the knowledge graph. This latter requires to support different data governance scenarios: some partners control, with their own tools, the building process of their portion of the knowledge graph. Other partners participate in the pilot by providing only their open CSV/XML/JSON datasets, in which case transformations are required. These are performed on the infrastructure made available by the European Big Data Test Infrastructure (BDTI). The paper introduces the design and implementation of the knowledge graph construction process within such a BDTI infrastructure. By instantiating an OWL ontology created for this purpose, we are able to provide a declarative description of the whole workflow required to transform input data into RDF output data, which form the knowledge graph. The declarative description is therefore used to provide instructions to a workflow engine we use (Apache Airflow) for knowledge graph construction purposes.

Guasch, C., Lodi, G., & Dooren, S. V. (2022, October). Semantic Knowledge Graphs for Distributed Data Spaces: The Public Procurement Pilot Experience. In The Semantic Web–ISWC 2022: 21st International Semantic Web Conference, Virtual Event, October 23–27, 2022, Proceedings (pp. 753-769). Cham: Springer International Publishing. https://iswc2022.semanticweb.org/index.php/accepted-papers/



### BDTI Essential course: Become familiar with the BDTI open-source data analytics tools





Are you collaborating with a public administration? Do you want to have 1:1 call?





Visit BDTI's website



Subscribe to BDTI's newsletter



Subscribe to BDTI's Joinup

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https://big-data-test-infrastructure.ec.europa.eu/



# LEOS - Open Source software for editing legislation



#### Alice Vasilescu

LEOS Community Manager, external consultant European Commission

## Mission

## Our journey

## What we offer

#### "Make legislation drafting more efficient"

LEOS is designed to help those involved in drafting legislation, which is usually part of a complex process, by facilitating **efficient online collaboration**.

### *"Focus on the content not on the structure".*

LEOS helps the drafters follow the rules and avoid mistakes.

Our journey started under **ISA Programme** as **LEOS**.

Continued under ISA<sup>2</sup> Programme as LegIT-2016.38 Legislation Interoperability Tools from Q2/2016 until Q3/2021.

Moved to the new **Digital Europe Programme** (**DIGITAL**) as of 2021.

- We deliver open source software that is inline with our mission and which is available for free under <u>European Union</u> <u>Public Licence</u>.
- We foster the uptake of the solution, by providing supporting services to users e.g. training service, workshops etc.
- Last but not least, we support the growth of the open source community built around LEOS.





The process is complex and involves both digital and paper versions of documents



Many stakeholders collaborate via various tools



Wrong application of legislative drafting rules and styles



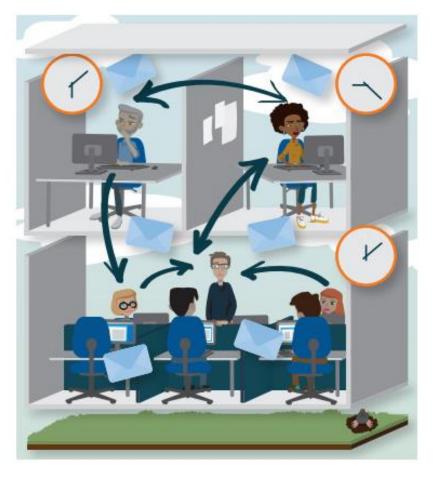
Deal with different versions of documents



Different tools used by institutions with need for



conversions Limited tools for re-use of texts





## Legislation Editing Open Software

#### Collaboration

• facilitating efficient online collaboration

#### Versioning

 keeping all versions in one central place

#### Structure

 helps the drafters follow the structure rules and avoid mistakes

#### Import

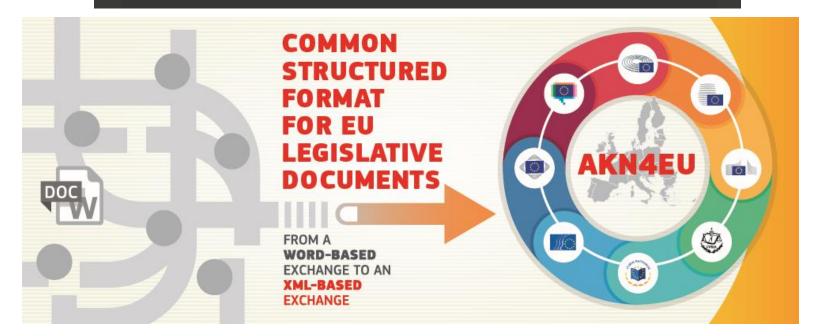
 reuse text from existing sources e.g. Official Journal of the European Union



Standard for structured Legal documents

## Akoma Ntoso

XML for parliamentary, legislative & judiciary documents



https://op.europa.eu/en/web/eu-vocabularies/akn4eu





## Why LEOS?



The political imperative to **digitally transform** the legislative process to **improve efficiency, quality** and e.g. **transparency** 

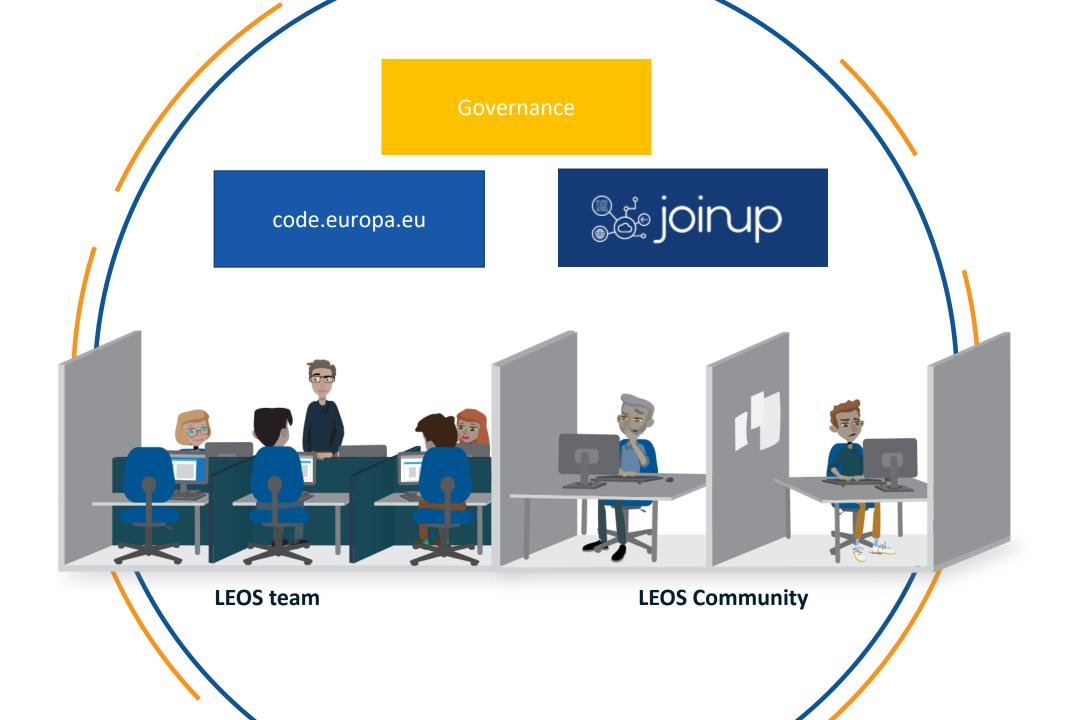
The necessity and desire to embrace **proven innovative technologies** 



The requirement to put **technology at the service** of the **user** 



Necessity and desire for **autonomy** and **vendor independence**.









Highlights for content creators

Interesting content

Coming soon

Interactive session

AOB

User Group Meeting



#### Coming soon

#### New features in content creation

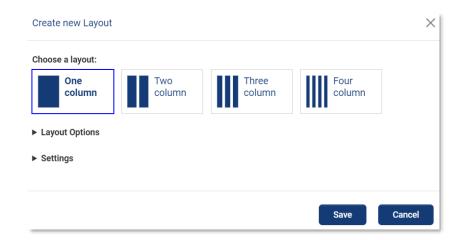
#### The Layout Editor will be accessible in News, Events and Documents!



#### The benefits

- Intuitive content creation
- Enhanced user experience
- Optimised for mobile devices

#### The possibilities



1 Accordion	🗐 IFrame	Ξ Testimony
Accordion		
占 Call to action(s)	🖬 Image	■ Tiles
	🛛 Мар	Text
🗱 Content listing	₀0) Poll	🗖 Video
	4 Quote	😂 Webform
Github feed	🕫 Social media	Image gallery
H2 Heading		





The Interoperable Europe Act has entered into force and Joinup will progressively become the Interoperable Europe Portal.

joinp	becomes	interoperable Portal
Start typing to search	• Q	
Need more search options? Use our <b>advanced se</b>	arch	Discover more



Governance Board Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas varius tortor



Assessment page Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas varius tortor



Community of Experts Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas varius tortor The platform will support the **main pillars of the Act**:

- Governance Board
- Interoperability Assessments
- Interoperable Europe Community
- Solutions / trainings; etc.







Interesting content

Coming soon

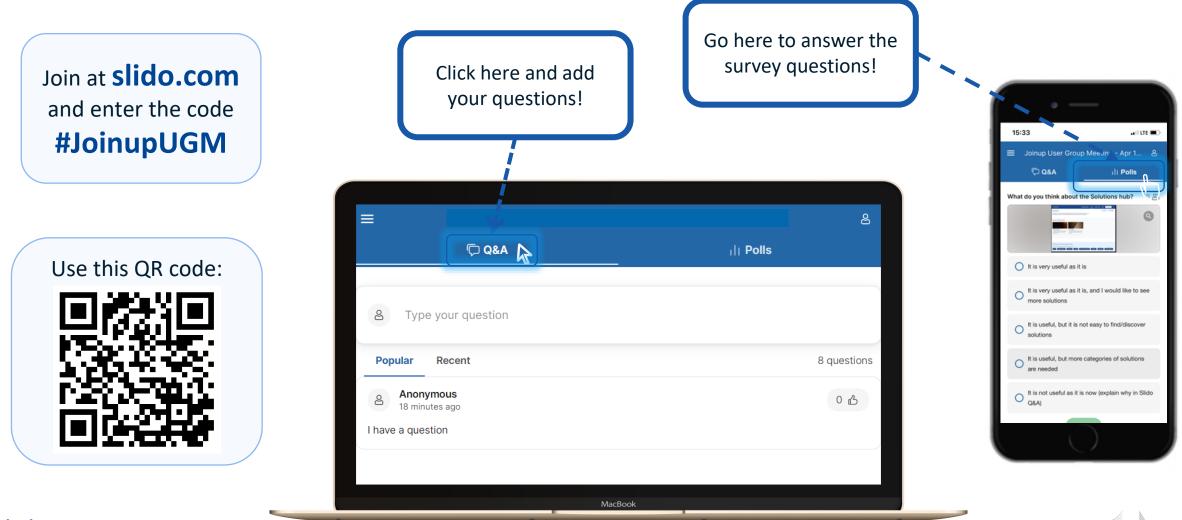
Interactive session

AOB

User Group Meeting



## We would like to hear from you!



oirup







## You are from





# What do you think about the Solutions hub?





# How do you find the unified Overview page for collections and solutions?



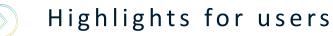


# What would you like to see on Joinup (i.e., features, content, etc.)?





# What would you like to see in the next User Group Meeting?





- Highlights for content creators
- Interesting content

Coming soon

Interactive session

ΑΟΒ

User Group Meeting



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# joinup



(in)

 $\searrow$ 

@Joinup eu



<u>Contact us</u>



joinup.ec.europa.eu

Thank you! Any questions?

innovation  $\sim$  govtech  $\sim$  community

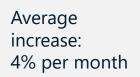




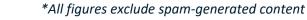
### Joinup statistics Key Figures<sup>\*</sup> and Interesting Trends (1/3)



(Mar 2023 – Mar 2024)

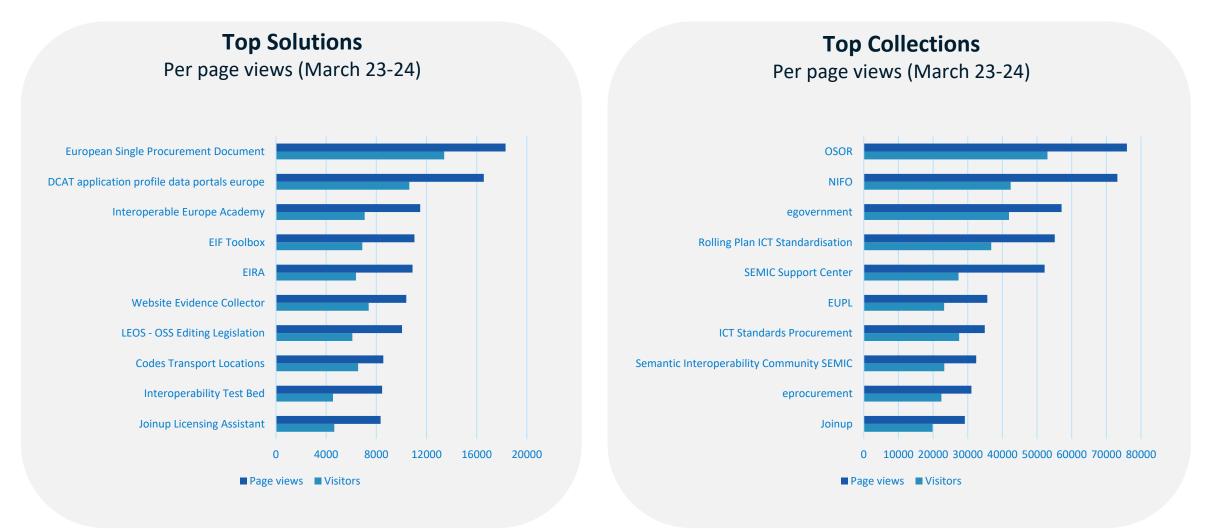




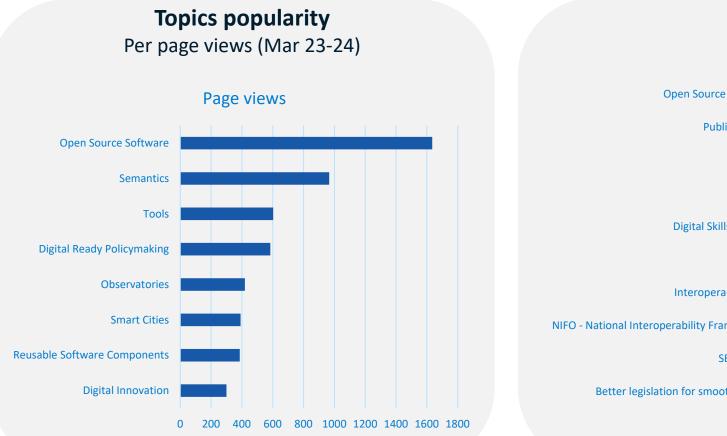


Figures taken from 01/03/2023 to 01/03/2024 and compared with previous year
 Users that are not blocked (active users)

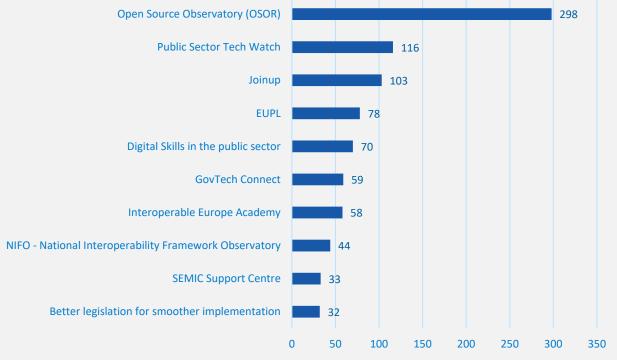








#### **Liked content** Per clicked Likes (Mar 24)









### More about LEOS



Last update: 08/06/2023 Our LEOS experience

https://joinup.ec.europa.eu/node/706589



Last update: 12/05/2022 LEOS reuse story - user from Spain https://joinup.ec.europa.eu/node/702471



Last update: 05/07/2022 Drafting legislation in the era of Al and digitisation

https://joinup.ec.europa.eu/node/705475



Last update: 12/05/2022 LEOS reuse story - by Dr. Fotis Fitsilis





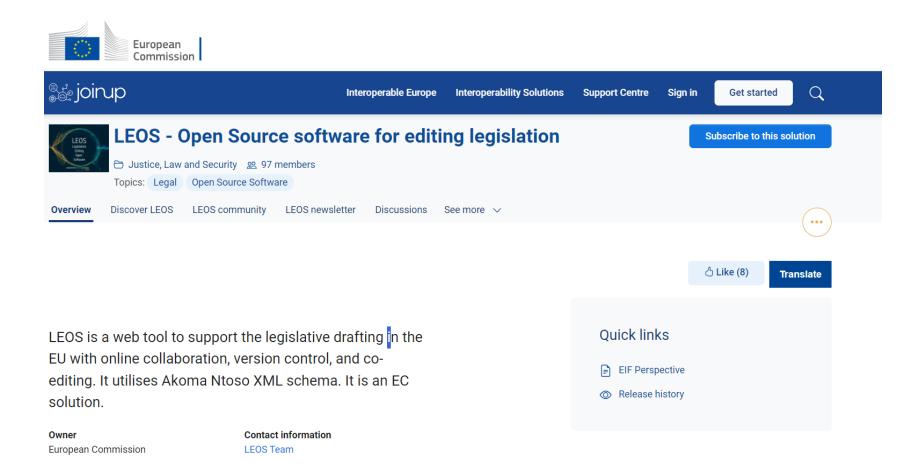
# Legislation Editing Open Software

Synergies code.europa.eu and Joinup



joirup

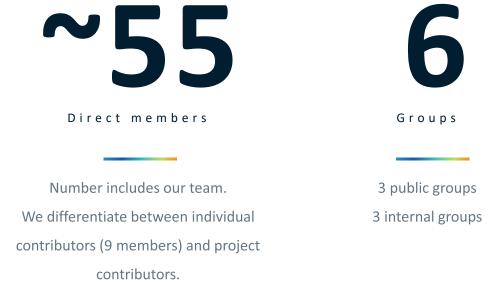
### LEOS on Joinup







#### Code.europa.eu

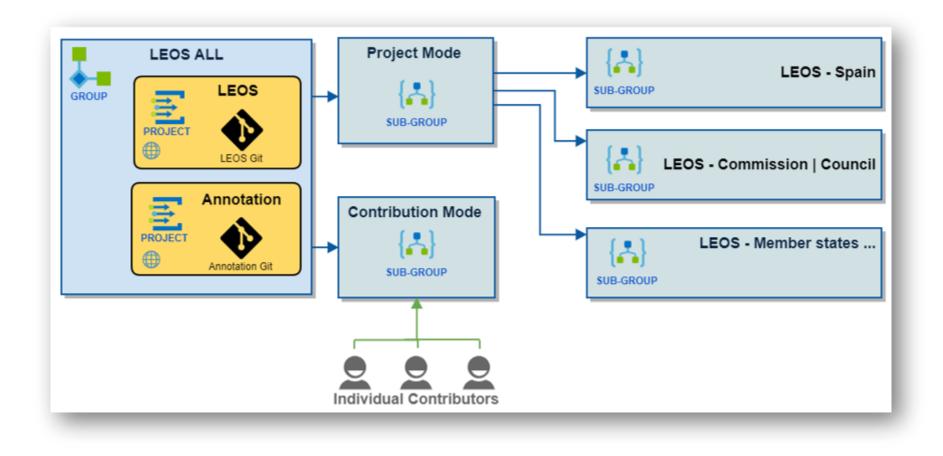


2		
Repositories		
LEOS core Annotate		



### joirup

## Open Source Contribution and Project mode



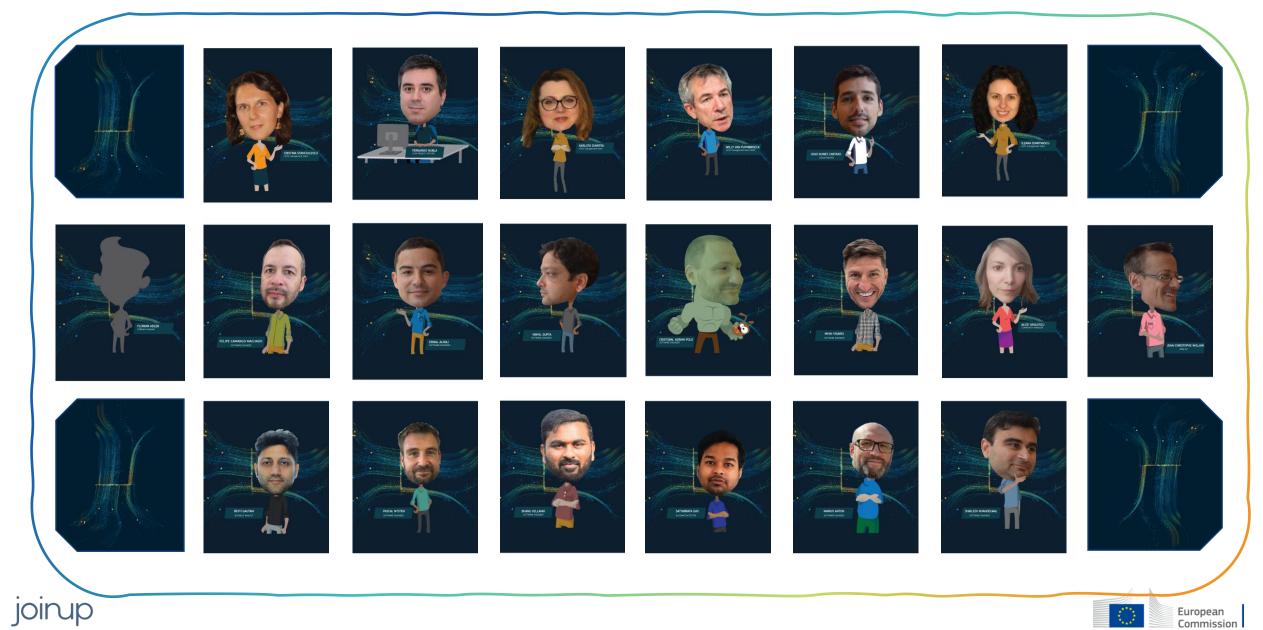
### Stakeholders' engagement

INACTIVE	ACTIV	/E	PROJECT MODE
Stakeholders we had contacts before June 2023, but expressed interest in LEOS	Stakeholders with whom we are in active cont Interactions type: meetings, workshops, PoC, e		Stakeholders currently reusing LEOS.
Croatia	Austria	Ireland	Spain
Cyprus	Belgium	Latvia	European Commission
Denmark	Czechia	Portugal	Council of the European Union
Estonia		Slovenia	European Data Protection Board
Finland	France	European Committee of the	
Germany	Greece	Regions	Legend From EU
Italy		European Court of Auditors	Member State Organisation /
Lithuania		European Central Bank	Institution
Malta		Court of Justice of European Union	Non EU
Netherlands		European Economic and Social	
Argentina		Committee	
Japan		European Securities and Markets Authority	
Kyrgyzstan		European Union Aviation Safety Agency	

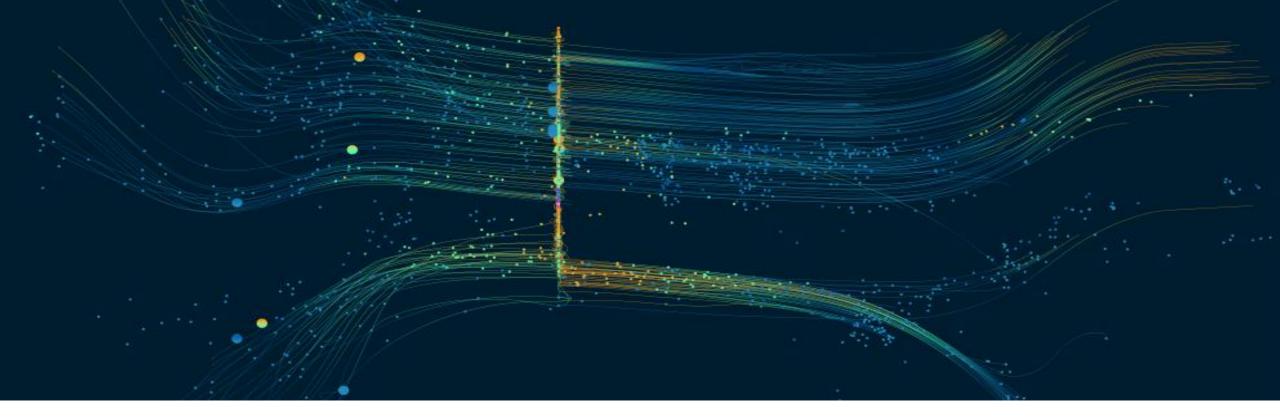


### joirup

### LEOS core Team









joir

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- Slide 7: EUPL icon EUPL the free/open source software licence of the European Union | Joinup (europa.eu)







# LEOS powered by inter erable europe

ovtech ∞ community innovation

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code.europa.eu

Joinup





#### Academic references:

Guasch, C., Lodi, G., & Dooren, S. V. (2022, October). Semantic Knowledge Graphs for Distributed Data Spaces: The Public Procurement Pilot Experience. In The Semantic Web–ISWC 2022: 21st International Semantic Web Conference, Virtual Event, October 23–27, 2022, Proceedings (pp. 753-769). Cham: Springer International Publishing. https://iswc2022.semanticweb.org/index.php/accepted-papers/

Mergel, I., Rethemeyer, R. K., & Isett, K. (2016). Big data in public affairs. *Public Administration Review*, 76(6), 928-937.

Pirog, M. A. (2014). Data will drive innovation in public policy and management research in the next decade. Journal of Policy Analysis and Management, 537-543.

Tan, E., & Crompvoets, J. (Eds.). (2022). The new digital era governance: How new digital technologies are shaping public governance. Wageningen Academic Publishers.

#### European Commission websites:

https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/europe-fit-digital-age/european-datastrategy\_en

https://digital-strategy.ec.europa.eu/en/policies/legislation-open-data

https://commission.europa.eu/publications/interoperable-europe-act-proposal\_en

https://digital-strategy.ec.europa.eu/en/policies/data-governance-act

https://digital-strategy.ec.europa.eu/en/policies/european-approach-artificial-intelligence

https://ec.europa.eu/commission/presscorner/detail/en/ip 22 1113

https://digital-strategy.ec.europa.eu/en/activities/digital-programme

https://dssc.eu/wp-content/uploads/2023/03/DSSC-Data-Spaces-Glossary-v1.0.pdf

https://digital-strategy.ec.europa.eu/en/library/staff-working-document-data-spaces

