



**SWForum.eu**


European forum of the software research community

**WEBINAR**

# Leveraging Open Source technologies for better services in the European software ecosystem



 10 October 2022

 14:30 - 16:00 CEST



Funded by  
the European Union

# Leveraging Open Source technologies for better services in the European software ecosystem

## Moderator



**John Favaro**

Senior research Analyst at Trust-IT Services, SWForum.eu Communication & Dissemination Lead

## Keynote Speakers



**Juncal Alonso**


R&D Engineer at TECNALIA, SWForum.eu Project Coordinator

 14:30 - **Welcome and SWForum.eu introduction**



**Luis Carlos Busquets Pérez**

Programme Officer in DG CONNECT E2 (Cloud and Software Unit) SWForum.eu Project Officer

 14:40 - **Webinar overview, EU perspective and expectations**

# Webinar Speakers & Panellists

## OSS R&I Projects



**Ricardo Vitorino**

Smart Cities R&I Manager at Ubiware

 14:55 – **FOGPROTECT Project**



**Giorgos Drosos**

Researcher at Athens University of Economics and Business

 15:10 – **FASTEN Project**

## Policy & Standardisation R&I Projects



**Konstantinos Oikonomou**


Full Stack & Research Software Engineer at UBITECH

 15:25 – **PolicyCloud Project**



**Nicholas Ferguson**


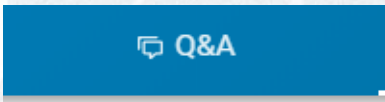
Senior Project Manager & Project Coordinator of Hsbooster.eu at Trust-IT Services

 15.30 – **HSbooster.eu Project**

Join at  
**slido.com**  
**#SWForumWebinar**



# Housekeeping

- ❏ This event is being recorded in its entirety. A link to the full recordings will be shared with participants afterwards
- ❏ All presentations will be available at the SWForum.eu website immediately after the webinar
- ❏ Please **don't activate your microphone and videos unless the host gives you permission**
- ❏ **Please do ask questions.** Use the   for any questions. Indicate which speaker you are putting the question to and we'll also try to answer things directly in the chat.
- ❏ If you do not see the buttons at the bottom of the Zoom window, move the mouse on that window and buttons will appear
- ❏ If you experience bad quality in audio, try switching off your video (webcam button at the bottom of your Zoom screen)

Together lets leverage the open source software technologies for better services in the European ecosystem

*Join the Software Forum community <https://swforum.eu/join-swforum>*

- ❏ Share your interesting updates at the SW Forum*
- ❏ Showcase your project results and impacts on your own free Project Hub*
- ❏ Be included in the European Software Radar*
- ❏ Get help in assessing your Market and Technological Readiness Level with the help of the SWForum.eu Team*

*For more details contact [info@swforum.eu](mailto:info@swforum.eu)*



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European forum of the software research community - SWForum.eu project has received funding from the European Union's Horizon 2020 - Research and Innovation program - under grant agreement no. 957044.



**SWForum.eu**

European forum of the software research community

# SWForum.eu project overview

Juncal Alonso (TECNALIA)



**SWForum.eu**  
European forum of the software research community

**Leveraging Open Source  
technologies  
for better services  
in the European  
software ecosystem**

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# SWFORUM.EU



1st October 2020 – 31st March 2023

**CSA** H2020-ICT-2020-1 ICT-50-2020-1 Software Technologies



5 partners



# Main Objective



+



Raise **awareness**

Strengthen the **competitiveness**

Of the



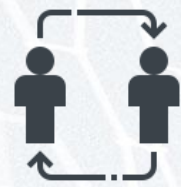
European Software industry



## By facilitating a...



**Sustainable Forum** for  
researchers, providers, developers,  
operators and policy-makers



Space for  
engagement



R&I Roadmaps



Policies

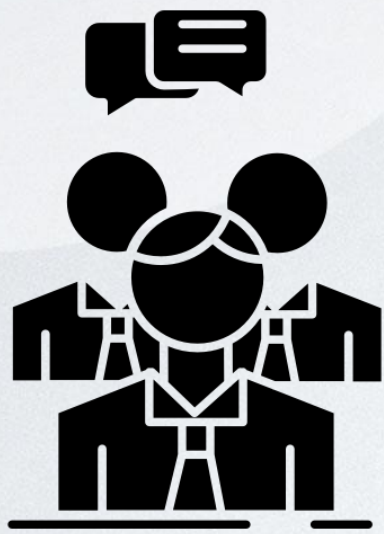


Assets

...

# Objectives and results

**Objective 1 - Promote EU cross-fertilization between the areas of software, digital infrastructures, and cybersecurity**



## Key Results (KR)



**Cross-fertilization workshops**



**SWForum Event**  
**WEGreen - SWForum and HUB4CLOUD Workshop on Engineering Green and Sustainable Software in the Computing**



**SWForum Event**  
**First SWForum.eu Sustainability Workshop**  
19 January 2022 - 19 January 2022



**SWForum Event**  
**Second SWForum.eu Workshop: Research Challenges, Collaboration, and Coordination in European Software Engineering Projects**  
29 June 2021 - 01 July 2021  
The SWForum.eu project aims to create a self-sustainable online forum that facilitates and encourages both researchers...  
[Read more](#) 348 views

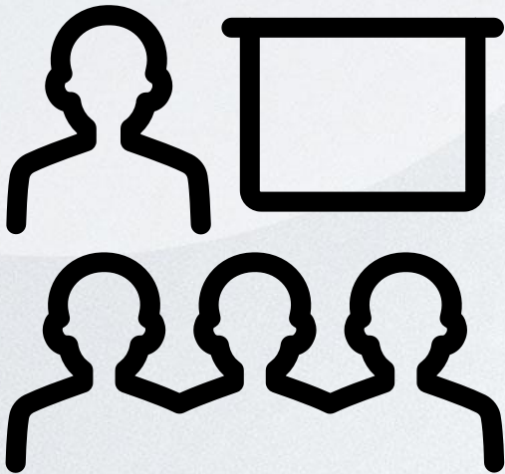


**SWForum Event**  
**First SWForum.eu Workshop on Trustworthy Software and Open Source**  
23 March 2021 - 25 March 2021  
Thank you to all those that joined us during the First SWForum.eu Workshop which was organised by the SWForum.eu with...  
[Read more](#) 193 views

um.eu hosted shop for a unity.  
25 views

# Objectives and results

- Objective 2 - Create a self-sustainable forum of researchers and practitioners in the area of software technologies and related areas.



## Key Results (KR)



Sustainable Forum and Fellowship programme



Online Platform



Research and Innovation Roadmaps



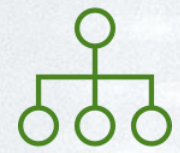
Landscape reports

# Objectives and results

 **Objective 3 - Enhance the visibility of European based software technology projects, digital infrastructures and cybersecurity both in the research and in the market domain at an international level.**



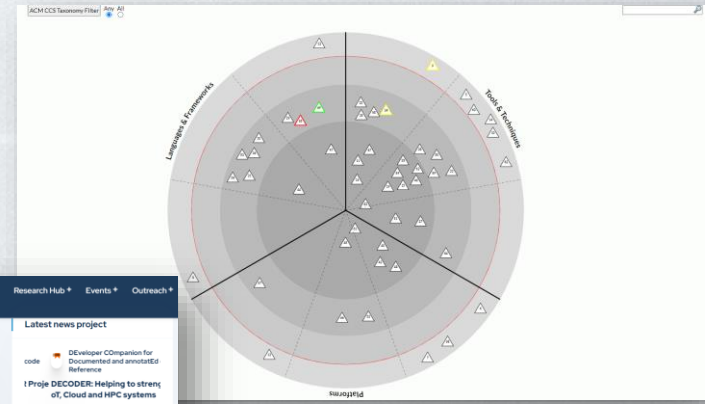
## Key Results (KR)



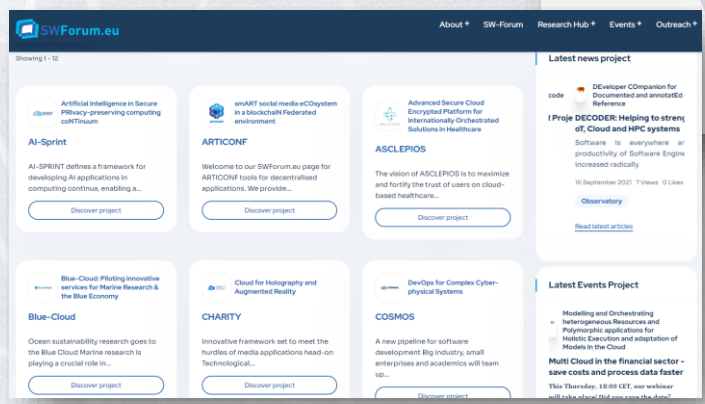
**Taxonomy**



**Project Radar**



**Hub of project mini-sites**



The screenshot shows the SWForum.eu website interface. It features a navigation bar at the top with links for 'About', 'SW-Forum', 'Research Hub', 'Events', and 'Outreach'. Below the navigation bar, there is a grid of project mini-sites, each with a title, a brief description, and a 'Discover project' button. The projects listed include:

- AI-Sprint**: AI-SPRINT defines a framework for developing AI applications in computing continua, enabling a...
- ARTICONF**: Welcome to our SWForum.eu page for ARTICONF tools for decentralised applications. We provide...
- ASCLEPIOS**: The vision of ASCLEPIOS is to maximize and fortify the trust of users on cloud-based healthcare...
- Blue-Cloud**: Ocean sustainability research goes to the Blue Cloud. Marine research is playing a crucial role in...
- CHARITY**: Innovative framework set to meet the hurdles of media applications head-on Technological...
- COSMOS**: A new pipeline for software development Big Industry, small enterprises and academics will team up...

On the right side of the grid, there are sections for 'Latest news project' and 'Latest Events Project'.

# Objectives and results

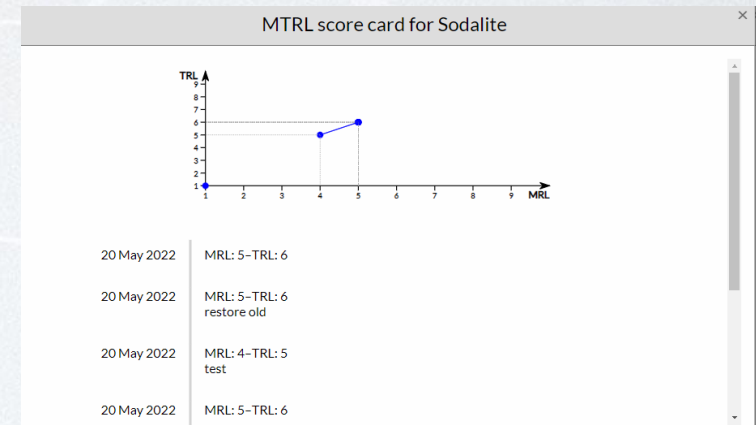


- Objective 4 - Provide guidance for increasing the competitiveness of European initiatives through the definition of a methodological approach to the improvement of their MTRL, Mentoring, Technology Transfer & Best Practices guiding towards Policy Innovation.

Key Result (KR)



Customized MTRL  
Methodology for the  
topics addressed in  
SWForum



# Coordination and Su

Develop an effective way to **map R&I project topics** of software engineering, digital infrastructures, cybersecurity in Europe, **inducing collaborations** and realising synergies by proactively facilitating them through practical steps.

Project radar  
Hub of future project sites  
workshops



Governance structure  
Fellowship programme  
Business model  
Roadmaps

**Continuously engage** all relevant **stakeholders** by executing **communication and marketing activities** and by systematically acting upon pragmatic motivational mechanisms.

Communication strategy  
Web & Social media presence  
Discussion fora  
MTRL training



Provide **recommendations on policy-related issues** and the **governance structure** for the **sustainability** of the SWForum.eu community



# Don't miss our next workshop!

- ❏ **Open-Source Workshops for Computing and Sustainability**
- ❏ Organized by the European Commission & SWForum.eu
- ❏ In Brussels, before the end of the year.





**SWForum.eu**

European forum of the software research community

# Thank You!

Get in touch with us!

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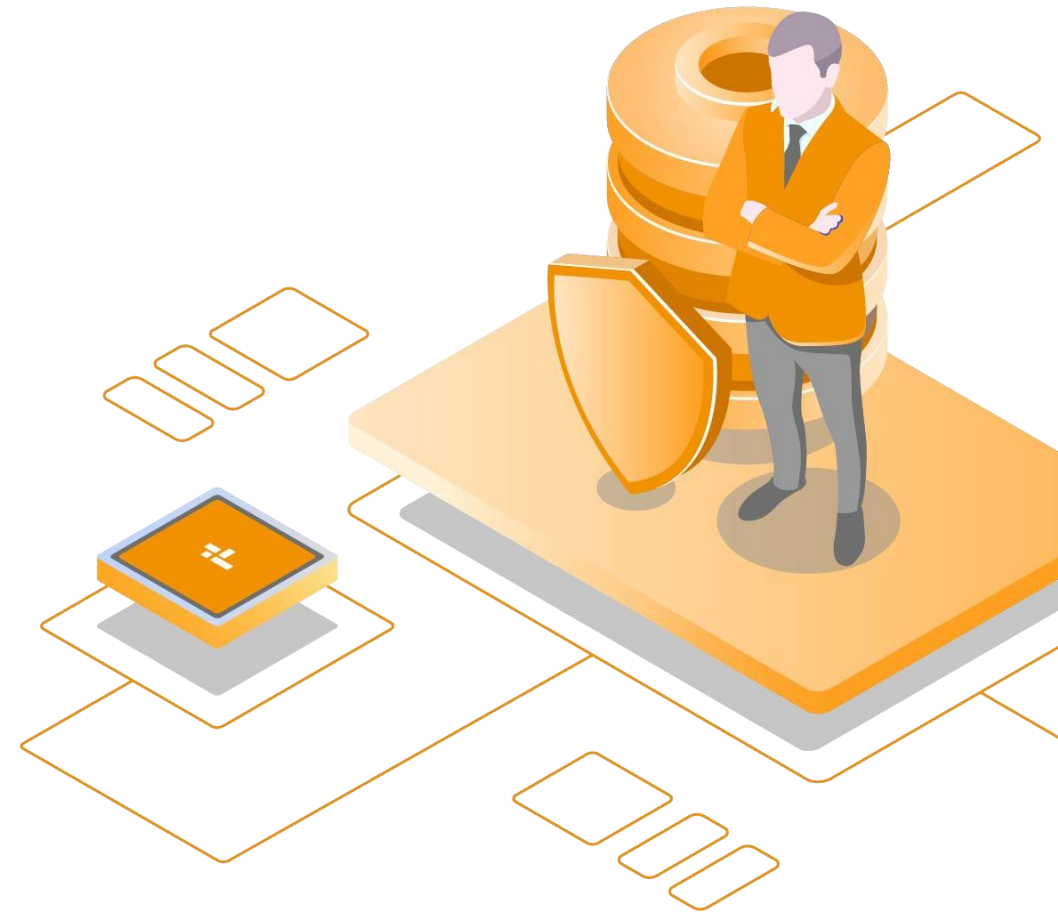
European forum of the software research community - SWForum.eu project has received funding from the European Union's Horizon 2020 - Research and Innovation program - under grant agreement no. 957044.



Fog  
Protect

# Protecting sensitive data in the computing continuum

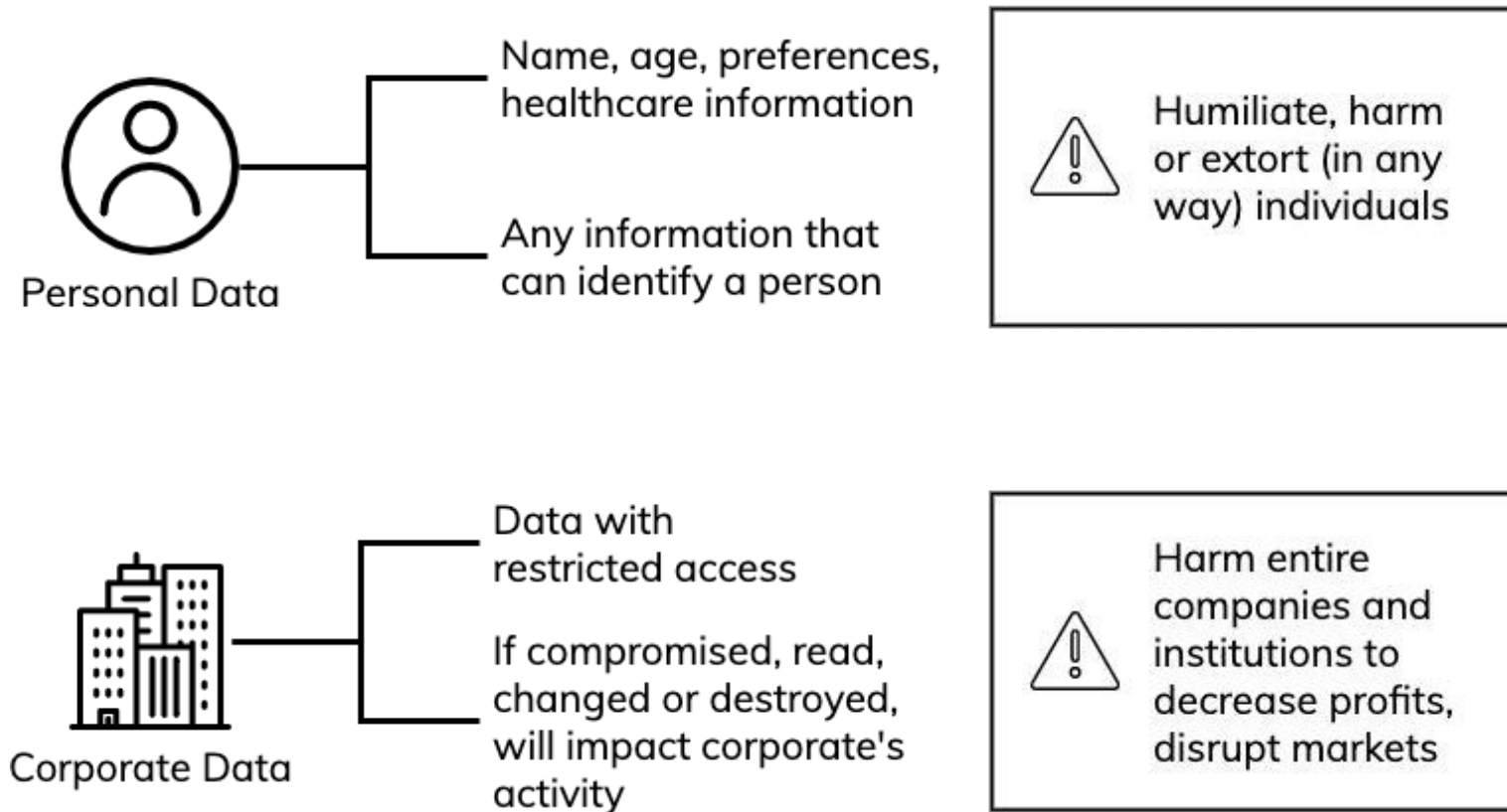
Ricardo Vitorino (Ubiwhere)



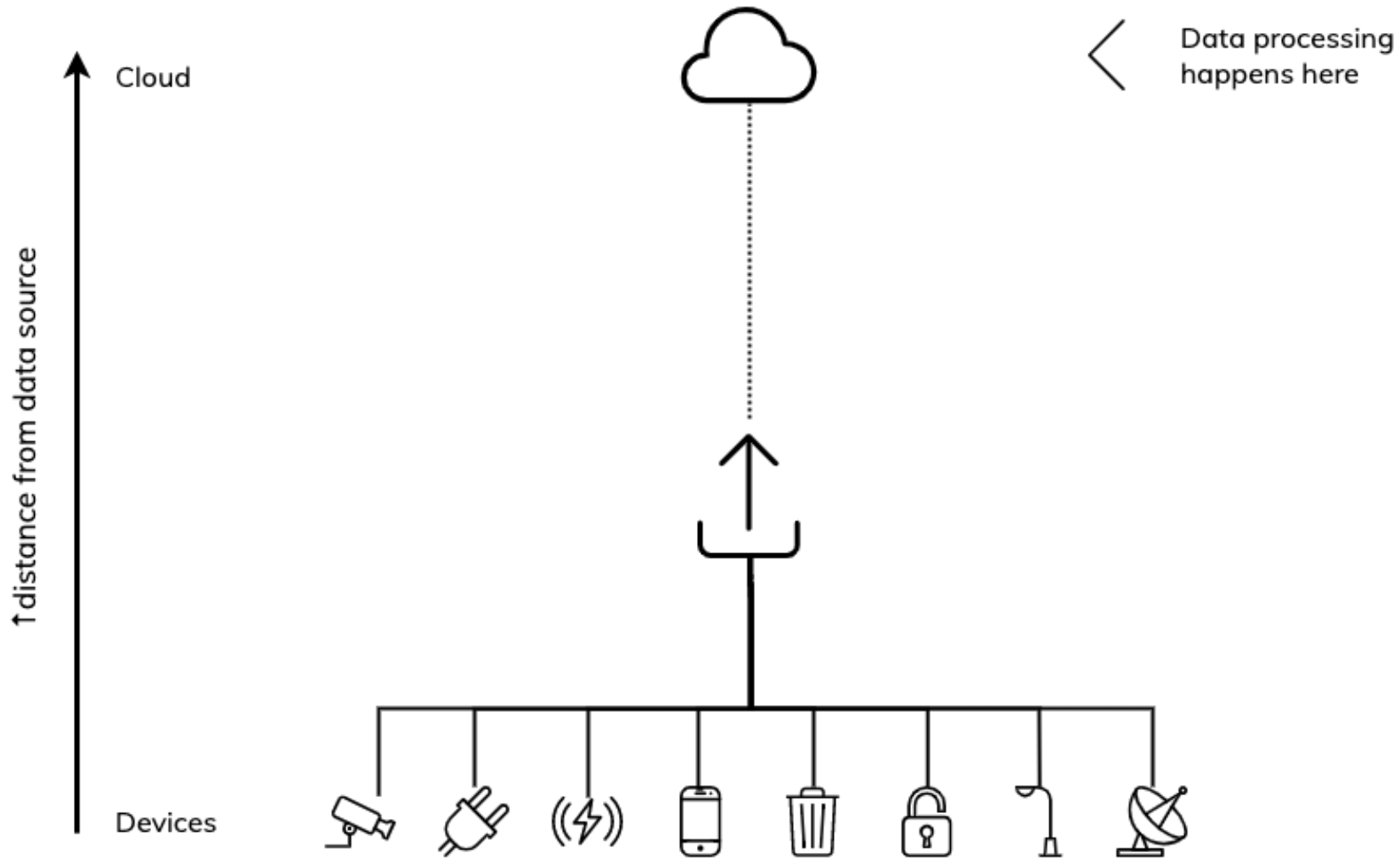
Find me on LinkedIn or say hi at [rvitorino@ubiwhere.com](mailto:rvitorino@ubiwhere.com)

# FogProtect's definition of Sensitive data

Sensitive data is *important information with the potential for severe consequences if it is compromised.*

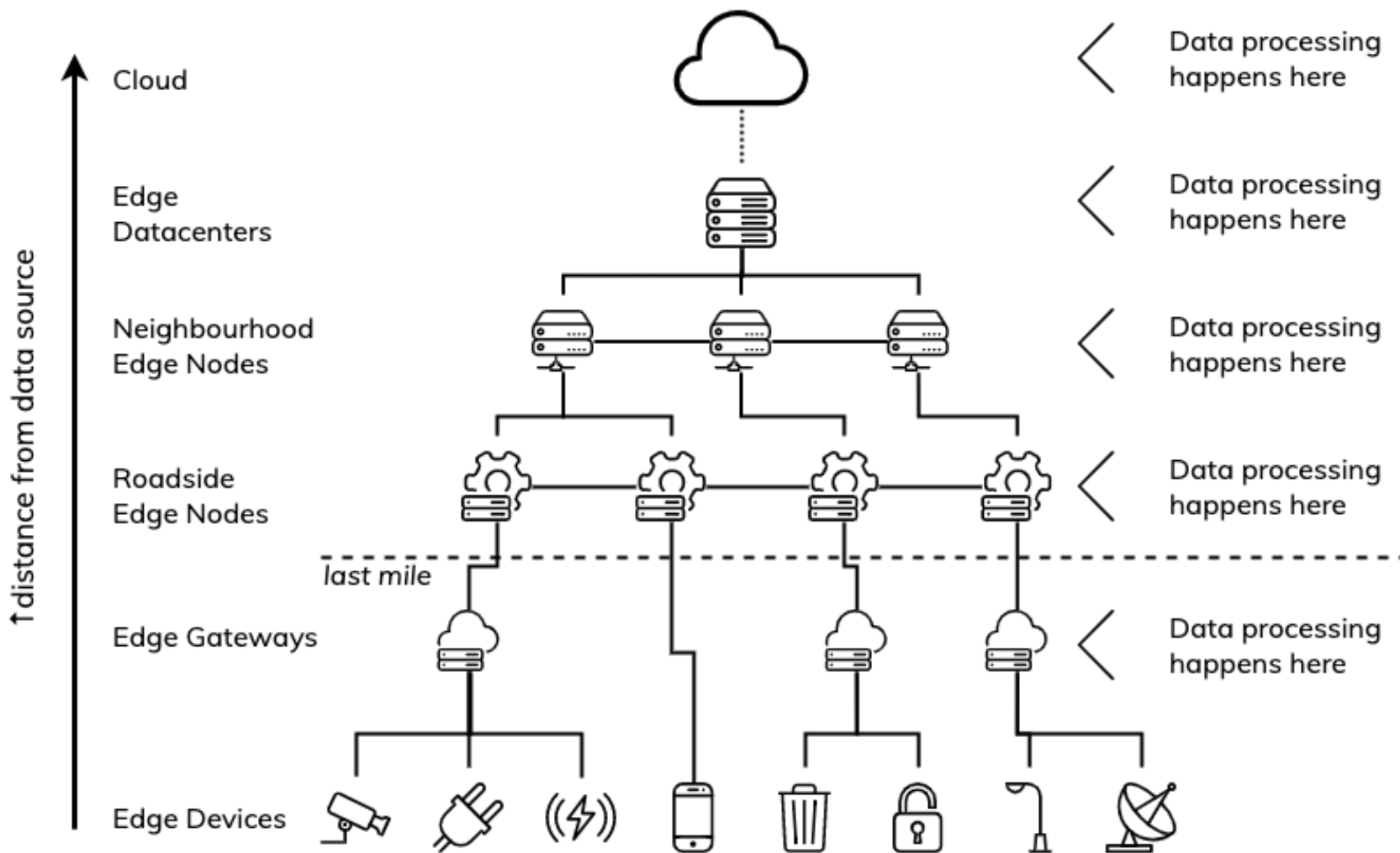


# Compute continuum challenges



Partially based on figure from [Data Security and Privacy Requirements in Edge Computing: A Systemic Review](#)

# Compute continuum challenges

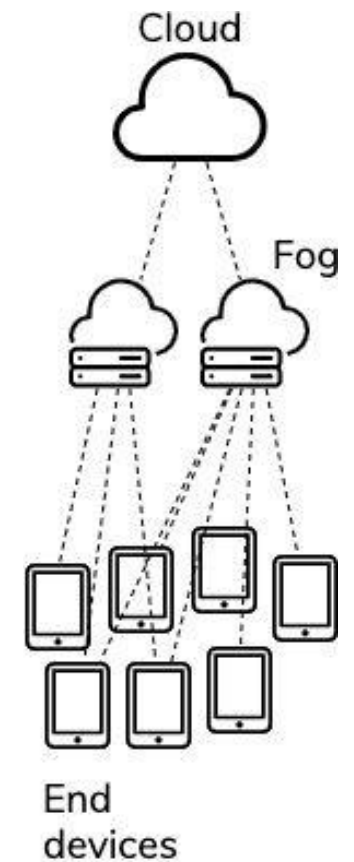
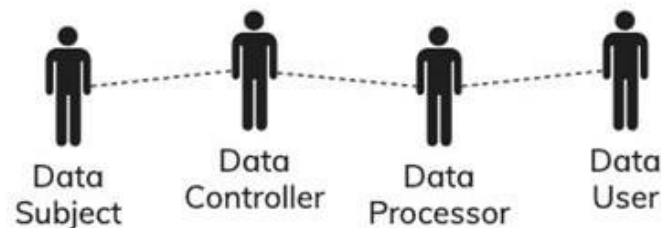


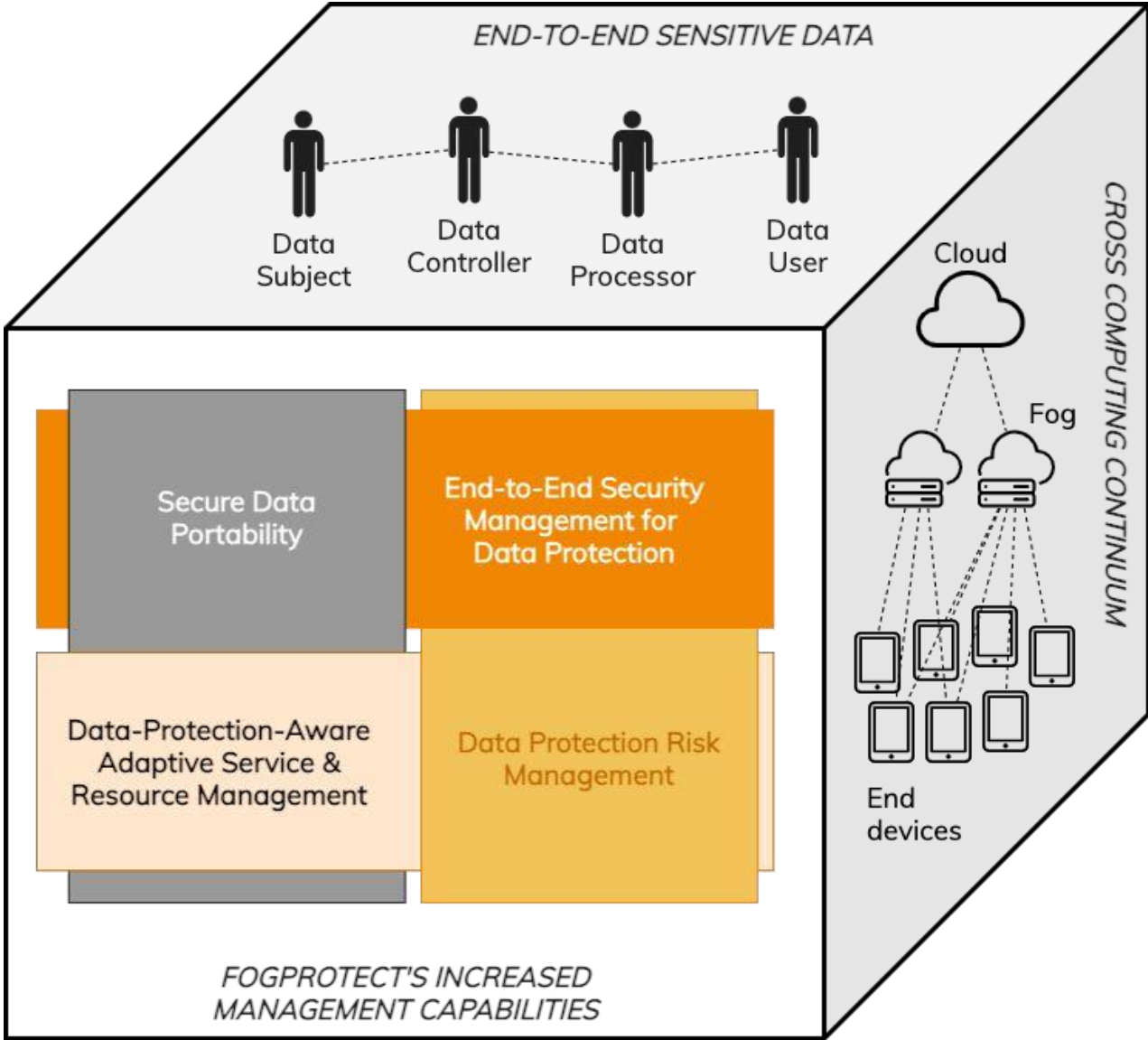
Partially based on figure from [Data Security and Privacy Requirements in Edge Computing: A Systemic Review](#)

# Sensitive Data Protection Challenges

- Resource limitations of fog nodes and end-devices **constrain data protection methods**
- Heterogeneity of fog nodes and end-devices **hampers consistent security**
- Node connectivity metadata can **leak sensitive information**
- Mobility of devices requires compliance with **changing data protection policies**
- Frequent changes at the edge imply **highly dynamic changes of data protection risks**
- Lack of transparency about stakeholders may lead to **unauthorised data access**

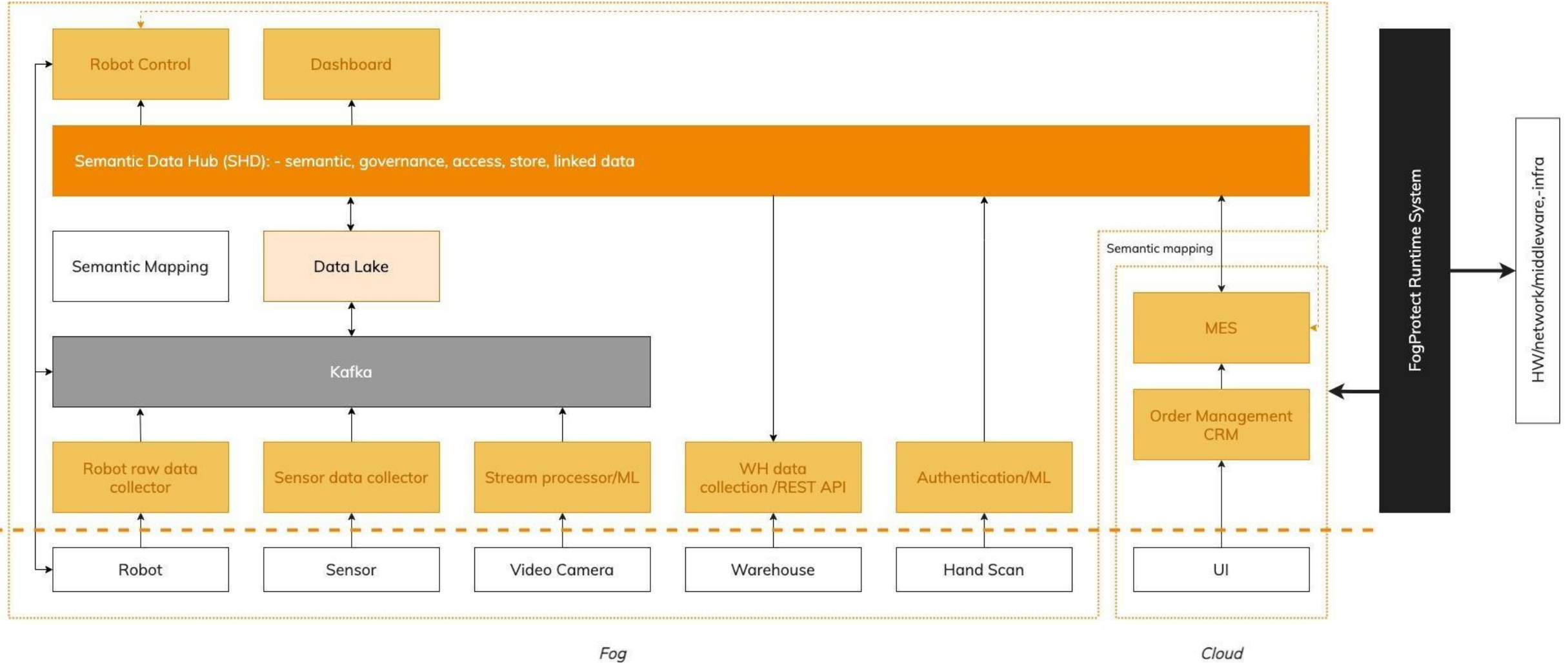
## END-TO-END SENSITIVE DATA



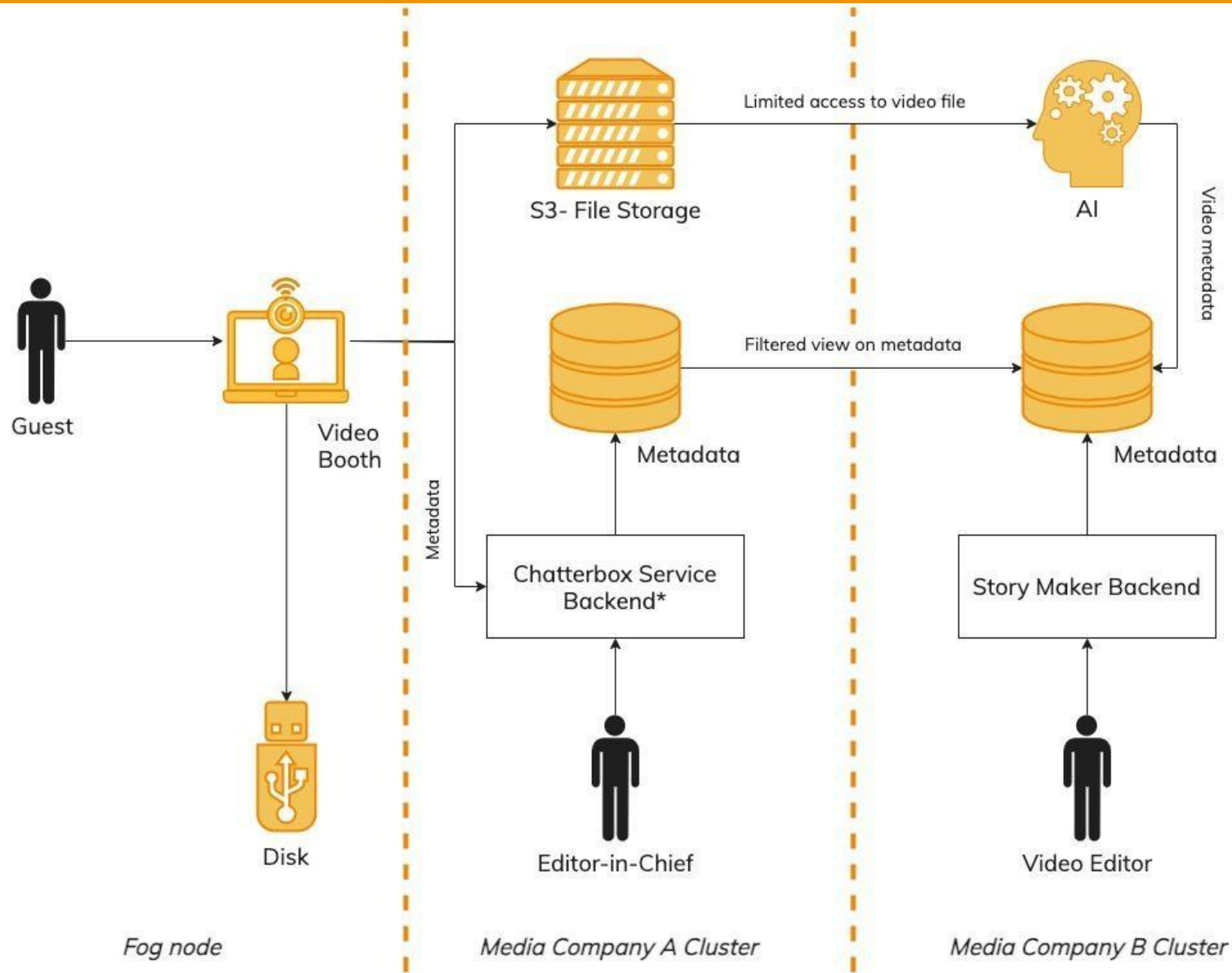


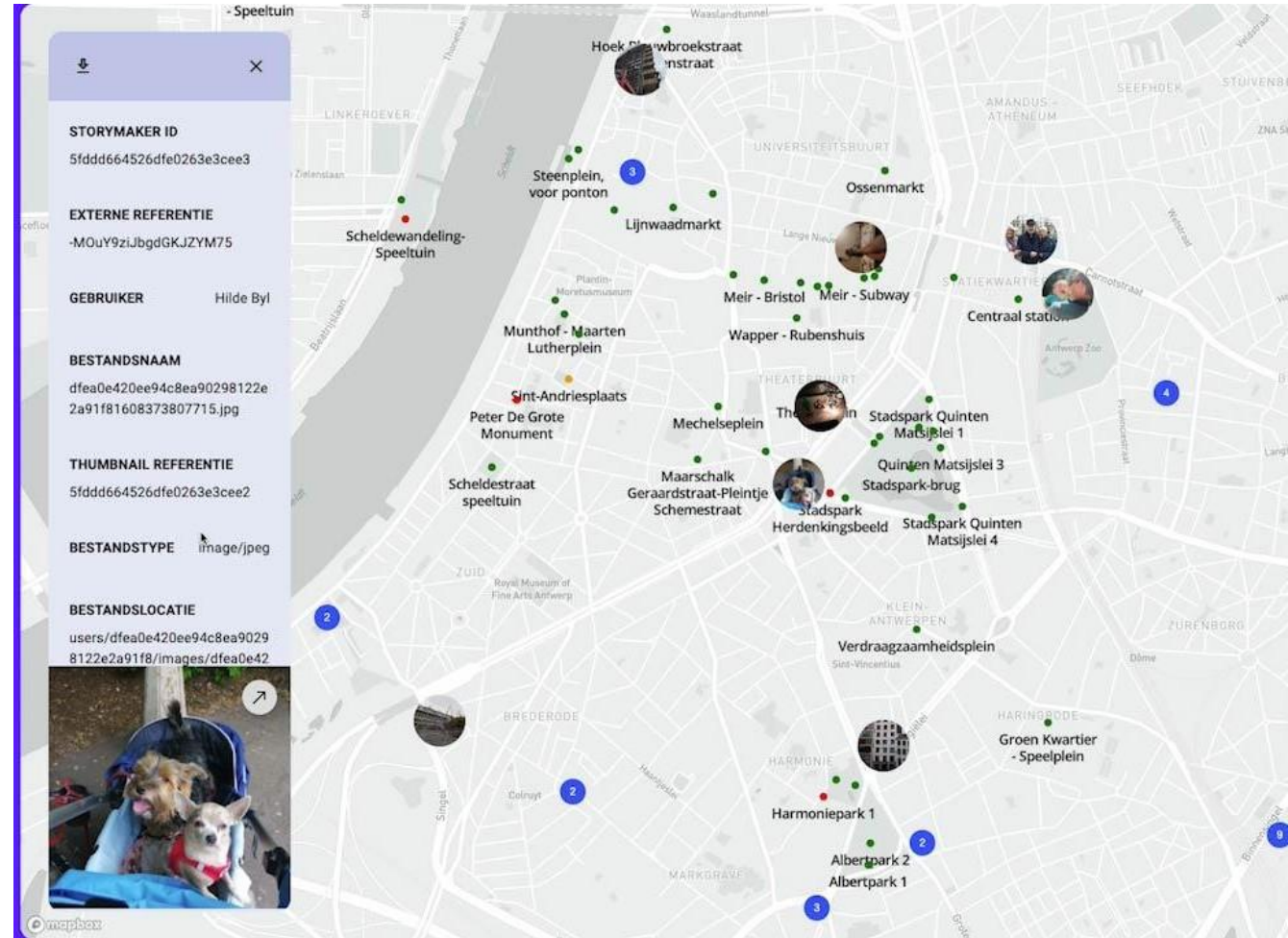
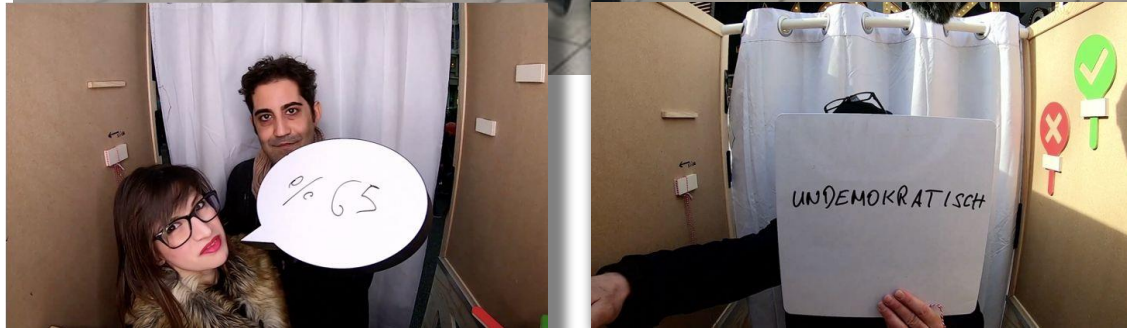
- The project combines four main technology innovations:
  - **secure data container** technology for **data portability and mobility**
  - data-protection-aware **adaptive service and resource management**
  - **advanced** data protection **policy management**
  - **dynamic** data protection **risk management** models and tools
- Demonstrated in 3 complementary real-world use cases:
  - **smart manufacturing**
  - **smart media**
  - **smart cities**











**STORYMAKER ID**  
5fddd664526dfe0263e3cee3

**EXTERNE REFERENTIE**  
-MOuY9ziJbgdGKJZYM75

**GEbruiker** Hilde Byl

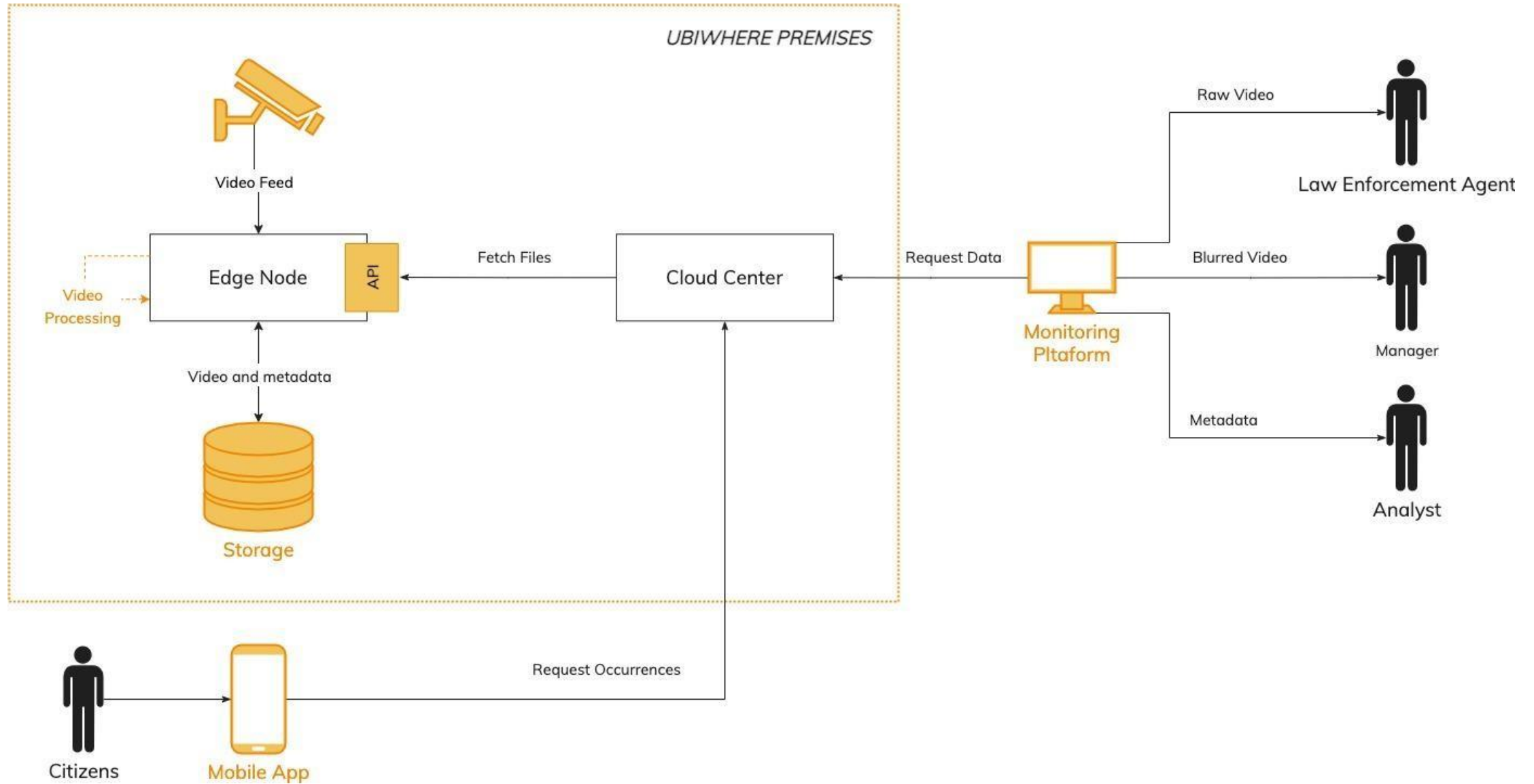
**BESTANDSNAAM**  
dfea0e420ee94c8ea90298122e2a91f81608373807715.jpg

**THUMBNAIL REFERENTIE**  
5fddd664526dfe0263e3cee2

**BESTANDSTYPE** image/jpeg

**BESTANDSLOCATIE**  
users/dfea0e420ee94c8ea90298122e2a91f8/images/dfea0e42

The map shows various locations in Brussels, including: Steenplein, voor ponton; Lijnwaadmarkt; Meir - Bristol; Meir - Subway; Wapper - Rubenshuis; Munthof - Maarten Lutherplein; Sint-Andriesplaats; Peter De Grote Monument; Scheldestraat speeltuin; Mechelseplein; Maarschalk Geraardstraat-Pleintje Schemestraat; Herdenkingsbeeld; Stadspark; Stadspark Quinten Matsijslei 1; Stadspark Quinten Matsijslei 3; Stadspark Quinten Matsijslei 4; Harmoniepark 1; Albertpark 2; Albertpark 1; Groen Kwartier - Speelplein; Verdraagzaamheidsplein; and others. Blue numbers (1, 2, 3, 4) are placed on the map to indicate specific points of interest.



ubiwhere



Privacy-preserving  
(Computer Vision)  
algorithms for Smart Cities

Computing unit detects  
and blurs sensitive  
information while  
retrieving metadata

CCTV captures  
video streams

→ [fogprotect.eu](http://fogprotect.eu)



This project has received funding from  
the EU's Horizon 2020 Programme

ubiwhere

A modular approach for shared smart infrastructure.

Easy to mix-and-match different modules into an elegant and clean solution, targeting both municipalities and different businesses across various domains.



+ 5G connectivity

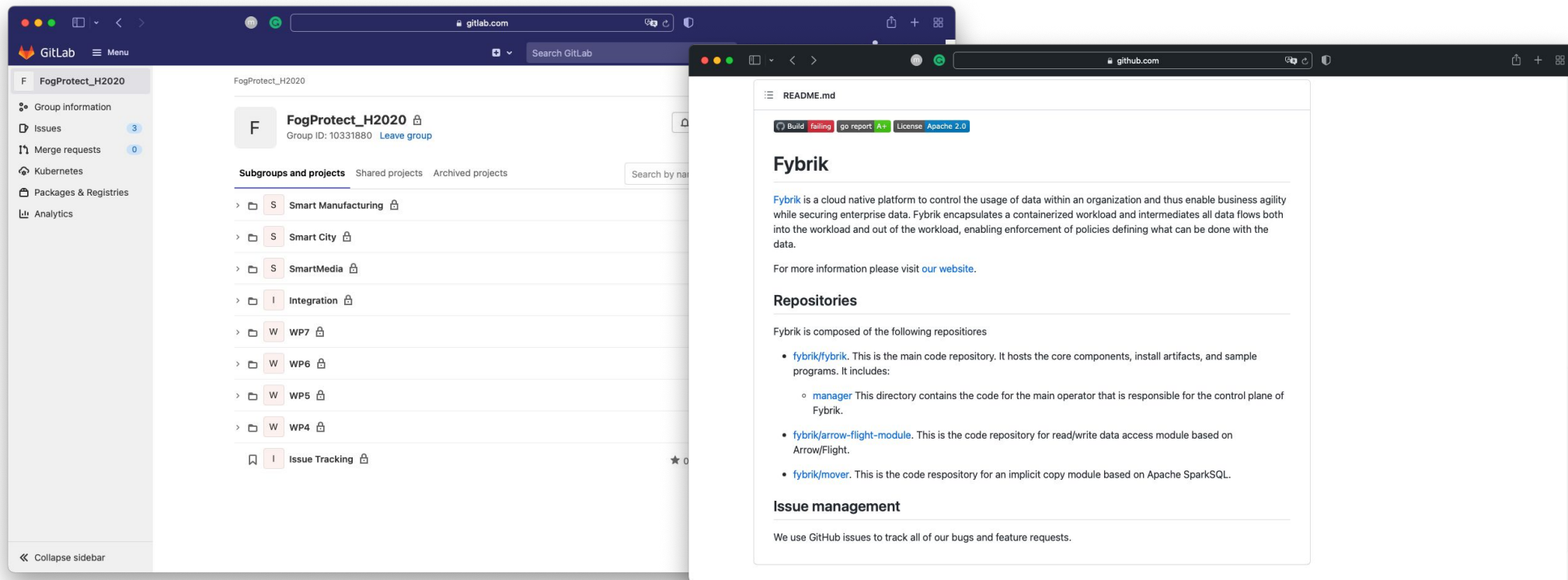
+ IoT sensing

+ EV Charging

+ New business models

- 1 Contribute to the development of an **ecosystem that will respond to the future digitisation needs of industry and the public sector**
- 2 Assist the development of **new cloud-based services and infrastructures in Europe and foster an industrial capability in the cloud computing sector**

## Open-source communities | **Fybrik (IBM)**





ubiwhere



FogProtect enables **end-to-end, dynamic, protection of sensitive data from the** *(highly distributed, heterogeneous and volatile)* **edge to the cloud.**

We're here for  
the long run.



This project has received funding from  
the EU's Horizon 2020 Programme

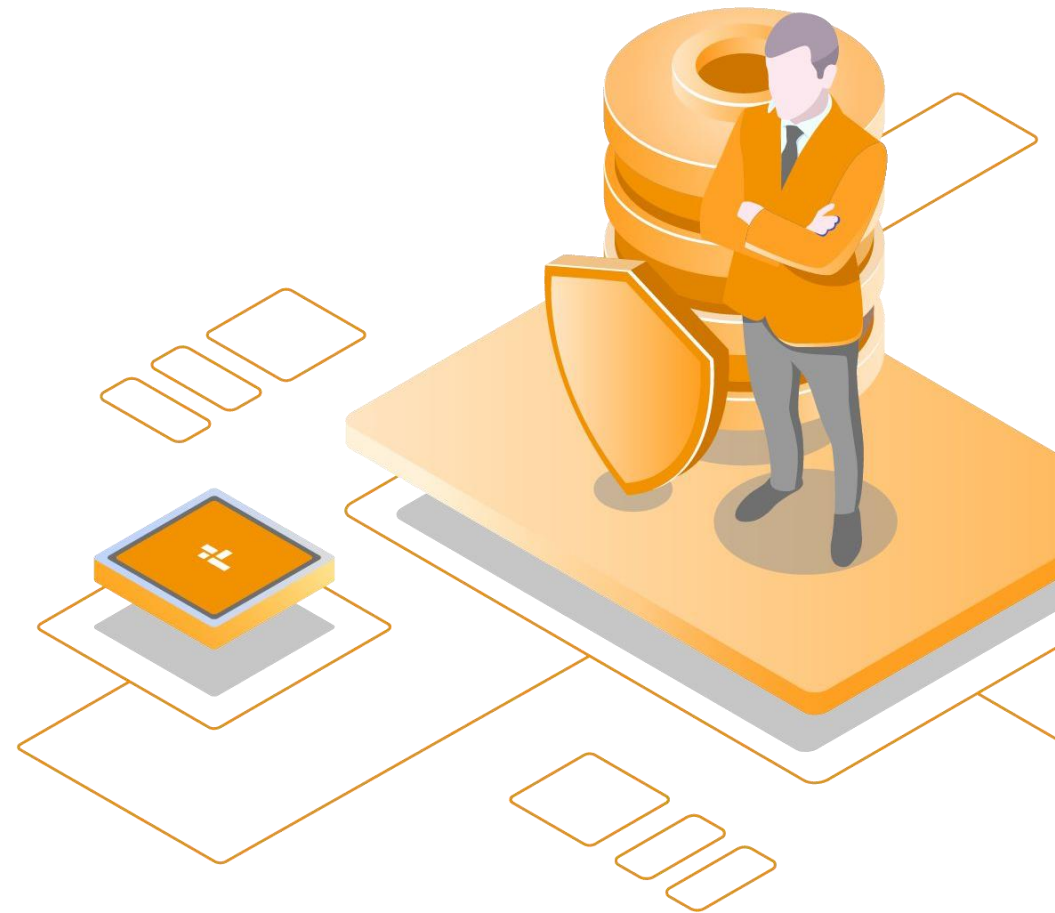


Fog  
Protect

# Thank you for your attention!

Please reach us at [fogprotect.eu](https://fogprotect.eu)

Find me on LinkedIn or say hi at [rvitorino@ubiwhere.com](mailto:rvitorino@ubiwhere.com)





# Enabling Intelligent Package Management

Giorgos Drosos

Athens University of Economics and Business



@gdrosos

[gdrosos@aueb.gr](mailto:gdrosos@aueb.gr)

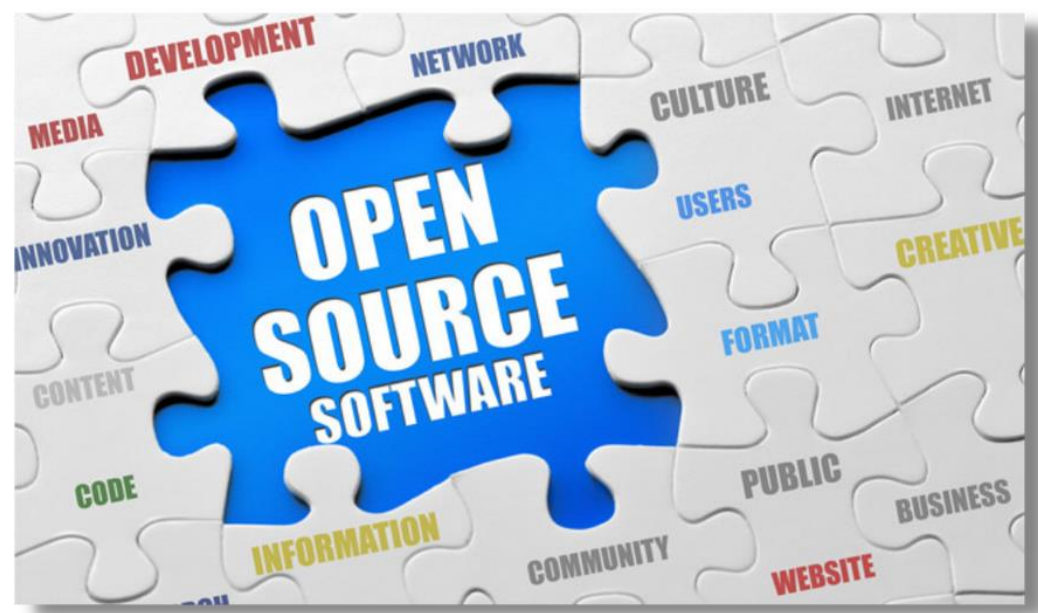


Horizon 2020  
European Union Funding  
for Research & Innovation

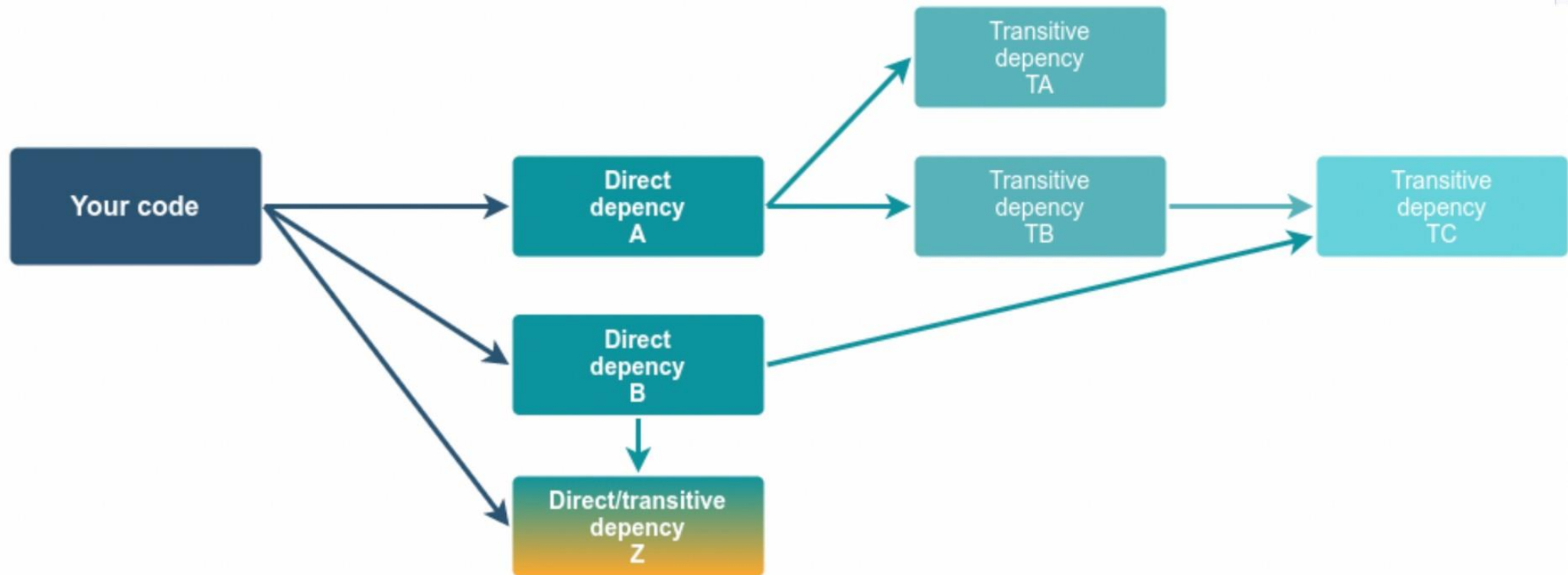


# Open Source Software (OSS)

- Operate as a building block for creating new software
- Hosted on centralized code repositories

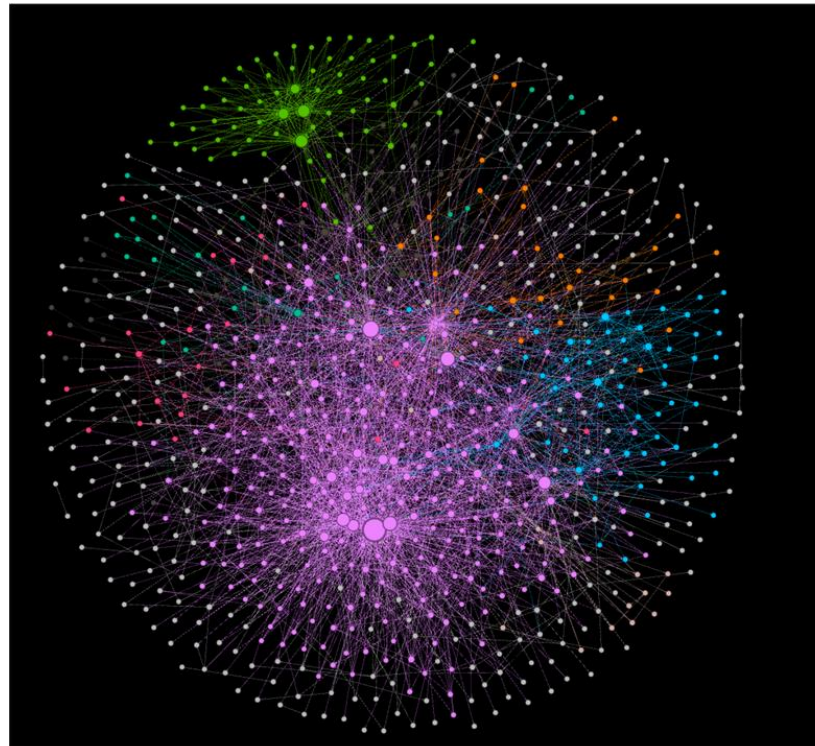


# Direct vs Transitive Dependencies



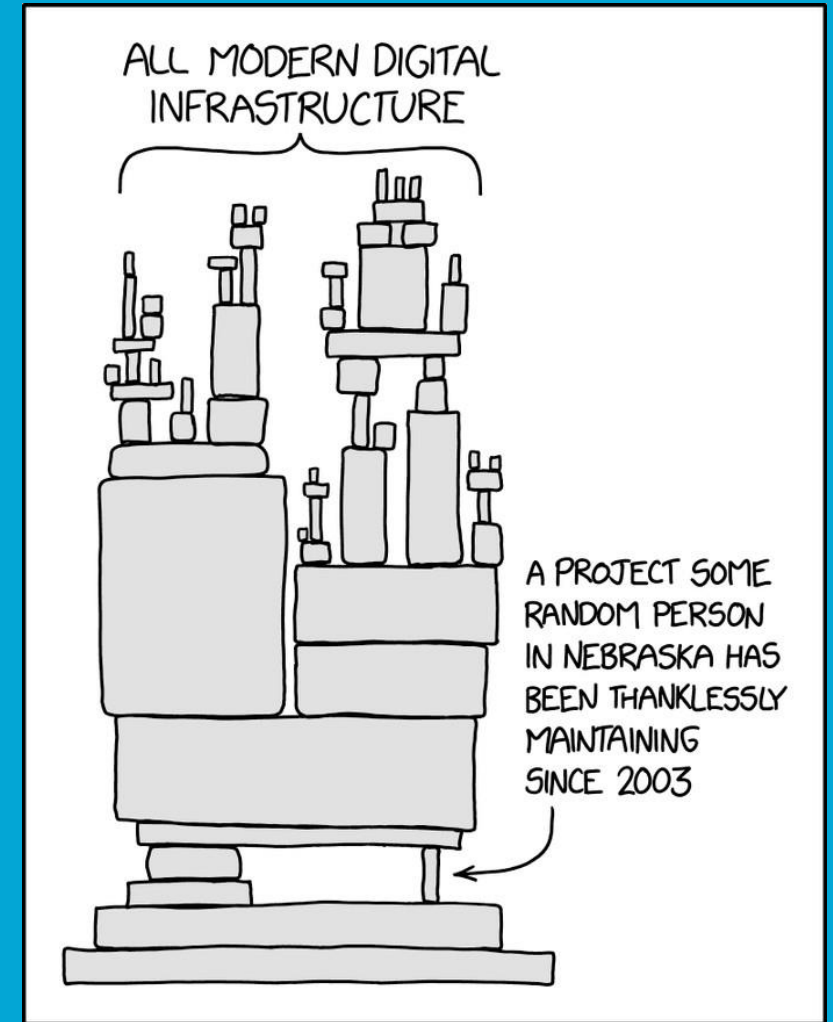
# Package-Based Dependency Networks

- **Form huge & complex dependency networks**
- **Very complicated due to version constraints**



# Supply Chain Security Is Crucial

- **Leftpad:** Removing an NPM library of 11 LoC broke the ecosystem
- **Equifax:** Not updating a vulnerable package caused serious security breach for 143M users, 4B\$ damages
- **event-stream:** popular npm project is victim of hackers that add Bitcoin stealing code, undiscovered for 2 months



# Main Challenges

- **Risk Estimation**

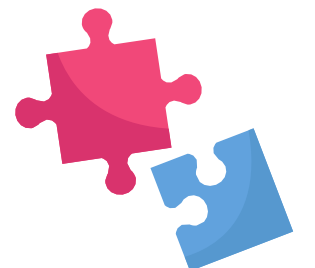
- “How likely is it that depending on a particular project will cause problems in the future?”

- **Compliance**

- “Does my project comply with the licenses that are declared in all my transitive dependencies?”

- **Change Impact**

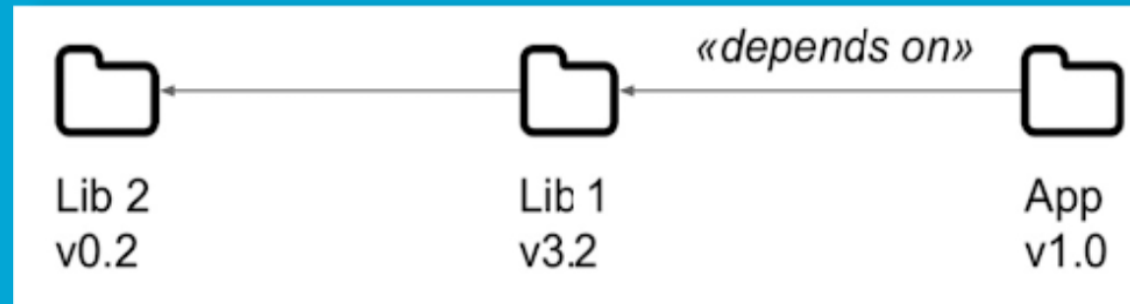
- “Does an update to my code break other projects that dependent on my project?”



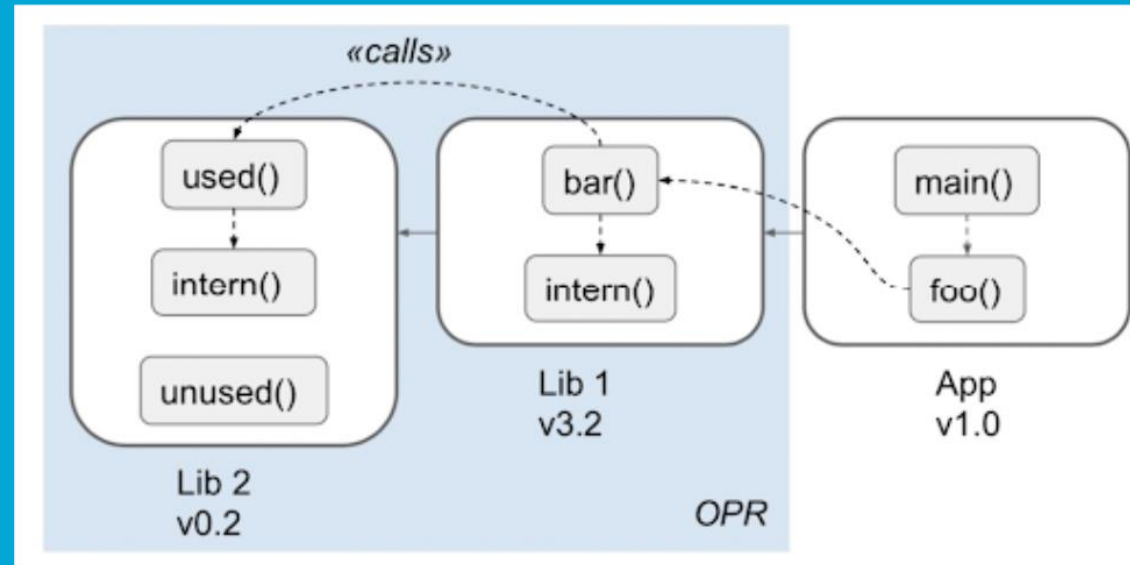


# Timely Idea

**Current Solution:  
Package-Based  
Dependency Networks**

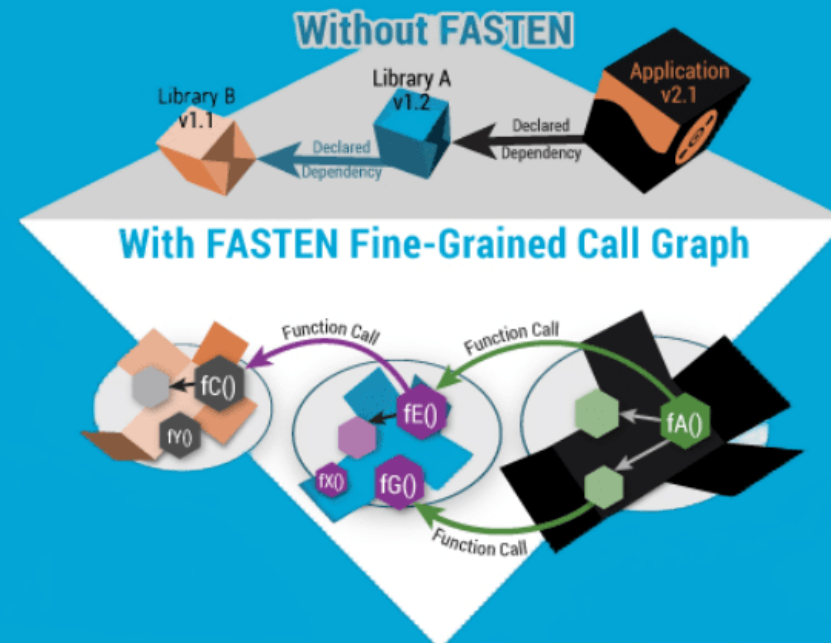


**Proposal:  
Call-Based  
Dependency Networks** 💡








# The FASTEN Project

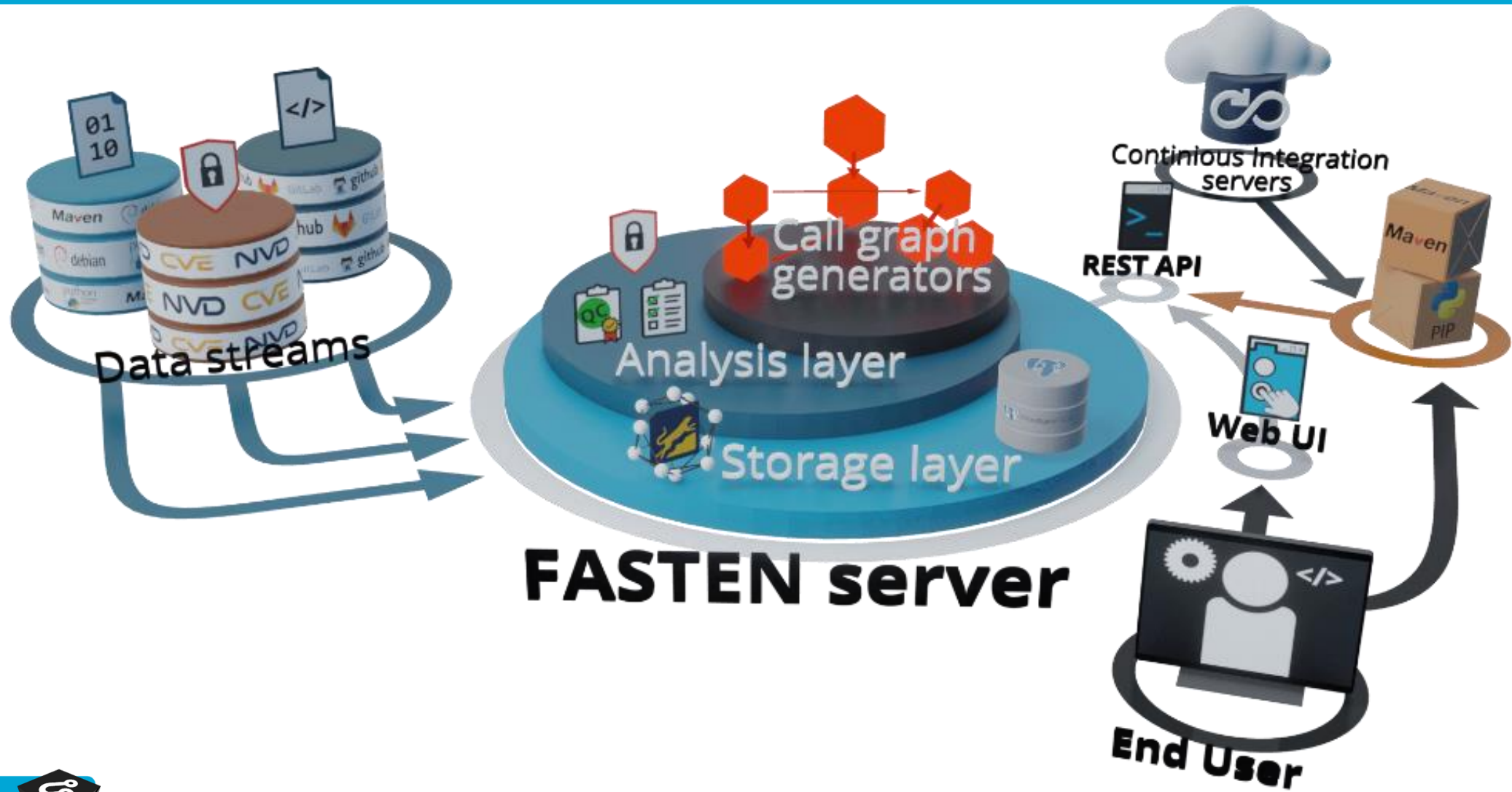
- **Fine-Grained Analysis of Software Ecosystems as Networks**
- **Aims at solving the issues of package-based dependency networks by making package management robust and intelligent**
- **A centralized service to host the graphs and serve the analyses**



# Main Objectives of Fasten

-  **Fine-grained ecosystem analysis for C, Java, Python**
-  **Ecosystem-wide change impact analysis**
  - “Does an update to my code break other projects that dependent on my project?”
-  **Fine-grained compliance monitoring**
  - “Does my project comply with the licenses that are declared in all my transitive dependencies?”
-  **More precise dependency risk profiling**
  - “How likely is it that depending on a particular project will cause problems in the future?”
-  **Integration into package managers**

# Overview of the FASTEN Architecture



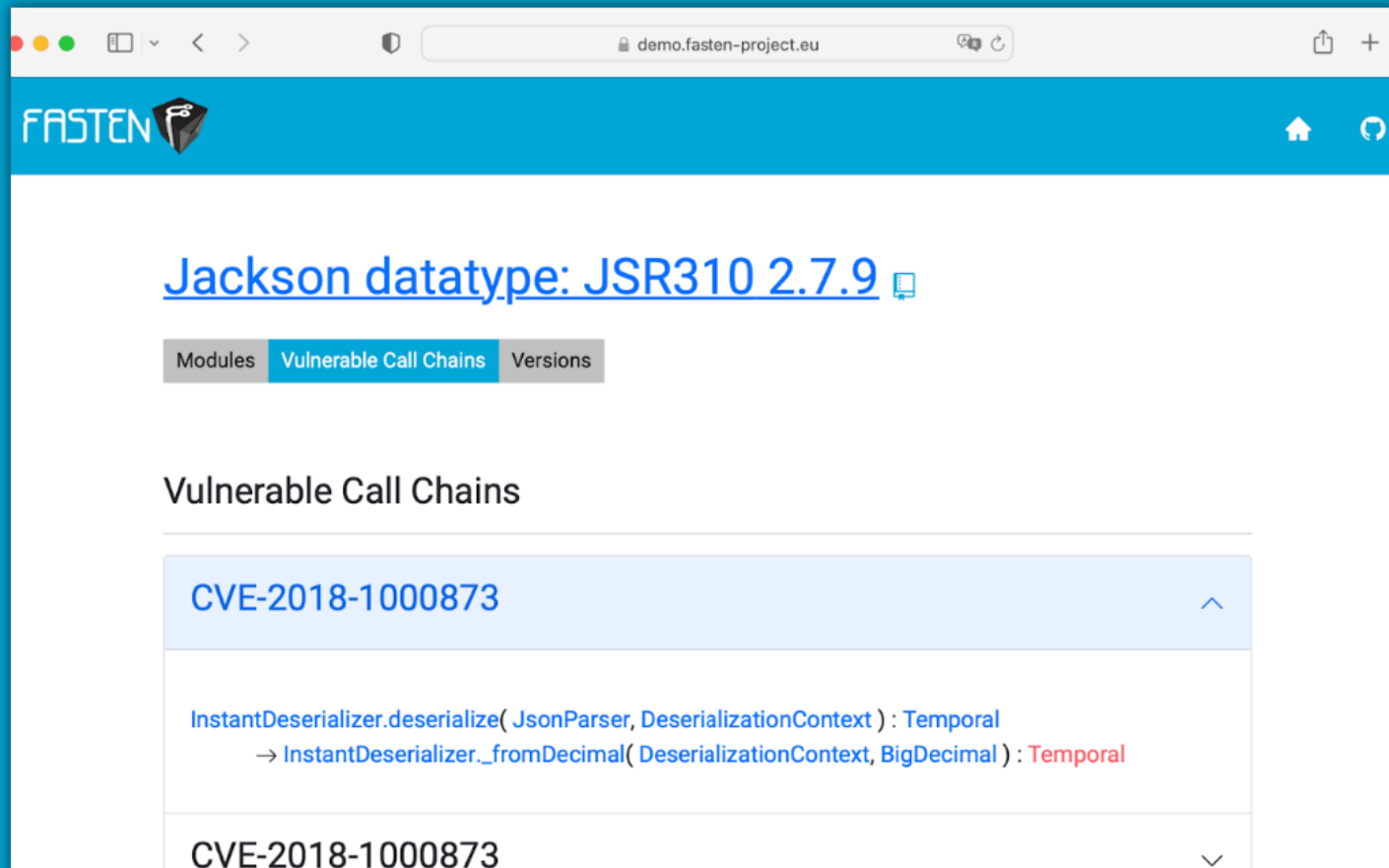
# Example Use Case: Build Integration

```
<project> <!-- pom.xml -->
...
  <build>
    <plugins>
      <plugin>
        <groupId>eu.fasten</groupId>
        <artifactId>fasten-maven-plugin</artifactId>
        <version>1.0</version>
        <configuration>
          ...
        </configuration>
      </plugin>
    </plugins>
  </build>
</project>
```



```
...
[INFO] --- fasten-plugin:1.0:check (default) @ my-product ---
[ERROR] Errors found:
[ERROR] * the dependency some-groupid:some-gpl-dependency:42.0 license
(GPLv3) is
  not compatible with the my-module license (LGPLv2.1)
[ERROR] * the dependency org.infinispan:infinispan-core:9.4.14.Final
contains a
  known security vulnerability
[ERROR]   https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2019-10158
fixed in
  10.0.0
[ERROR] * the method call 'public boolean org.foo.Bar#isRed()' used from
the call
  `public com.plumb.Mario#isNotBlue()` located in dependency
com.plumb:mario:12.6
  cannot be found in the dependencies tree
[INFO]
-----
[INFO] BUILD FAILURE
[INFO]
-----
[INFO] Total time: 22.971s
[INFO] Finished at: Tue Aug 11 12:07:12 EET 2021
[INFO] Final Memory: 6M/11M
[INFO]
-----
```

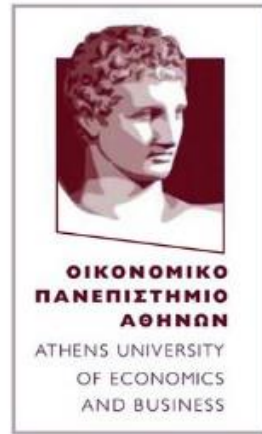
# Demo Website



The screenshot shows a web browser window with the URL `demo.fasten-project.eu`. The page header features the FASTEN logo and navigation icons. The main content area displays the title `Jackson datatype: JSR310 2.7.9` with a document icon. Below the title are three tabs: `Modules`, `Vulnerable Call Chains` (which is selected), and `Versions`. The `Vulnerable Call Chains` section is titled `Vulnerable Call Chains` and contains a list of entries. The first entry is `CVE-2018-1000873`, which is expanded to show a call chain: `InstantDeserializer.deserialize( JsonParser, DeserializationContext ): Temporal` followed by `→ InstantDeserializer._fromDecimal( DeserializationContext, BigDecimal ): Temporal`. The second entry is also `CVE-2018-1000873`.

<https://demo.fasten-project.eu/>

# FASTEN



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>\_ENDOCODE





**Thank you!**  
**Questions?**



<https://www.fasten-project.eu/>



<https://twitter.com/FastenProject>



<https://github.com/fasten-project>

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# CLOUD FOR DATA-DRIVEN POLICY MANAGEMENT

TOWARDS INTEROPERABLE DATA DRIVEN POLICYMAKING

POLICYCLOUD PROJECT

KONSTANTINOS OIKONOMOU

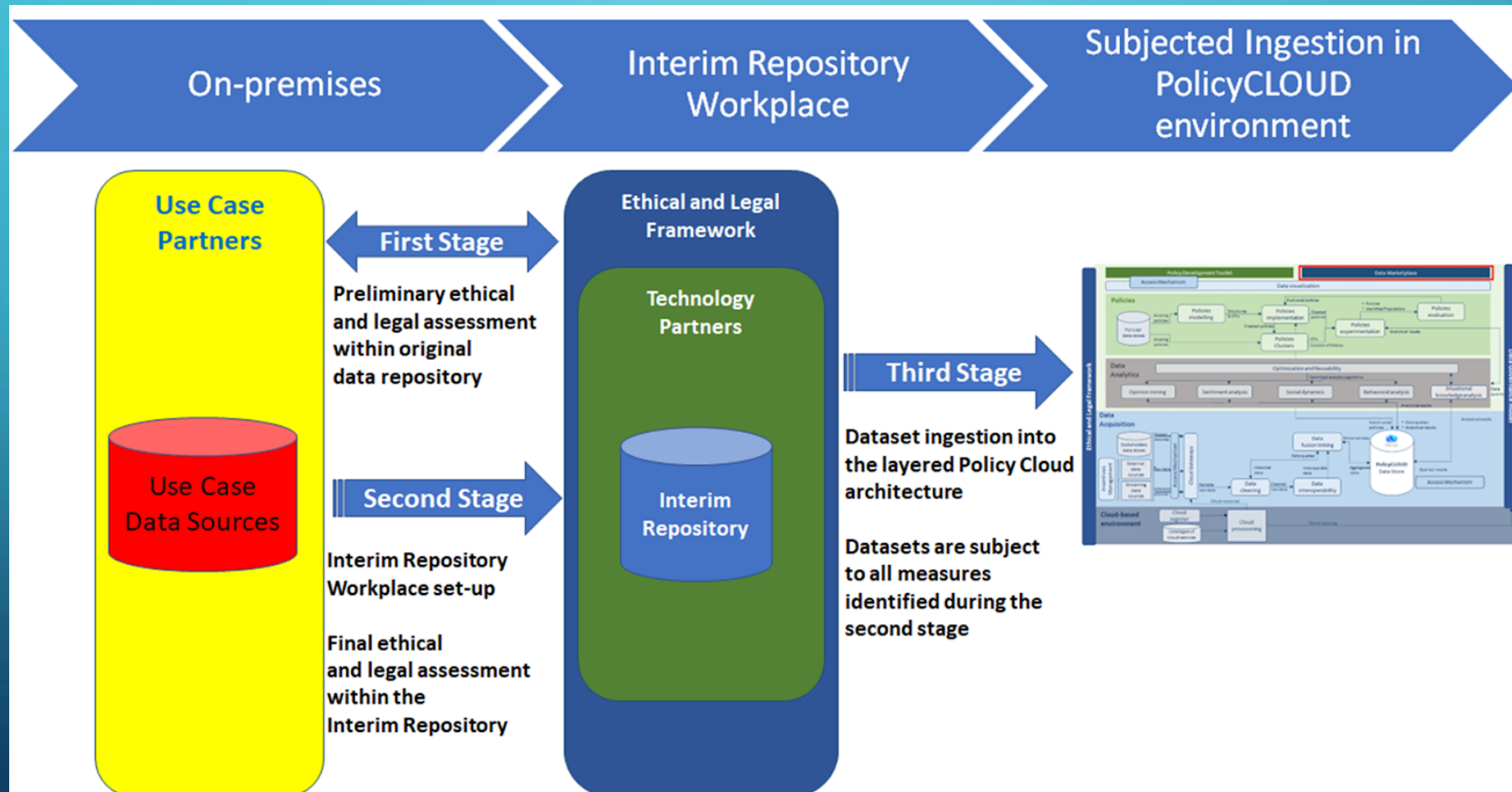
# DATA DRIVEN POLICYMAKING LANDSCAPE

- “INSPIRE Data Specifications” → interoperability of spatial data sets and services
- “Health Level 7 (HL7)” → electronic message format for health information exchange
- Common European Research Information Format (CERIF) → representation of research information and research policies
- ISO/IEC 23751 → standard for cloud computing and distributed platforms
- Common Reporting Standard (CRS) → interoperable and automatic exchange of information from financial institutions
- Friend of a Friend (FOAF) & Social Interconnected Online Communities (SIOC) → standard-based ontologies for describing social relationships and analyzing social media information

# POLICYCLOUD NEEDS NOT MET

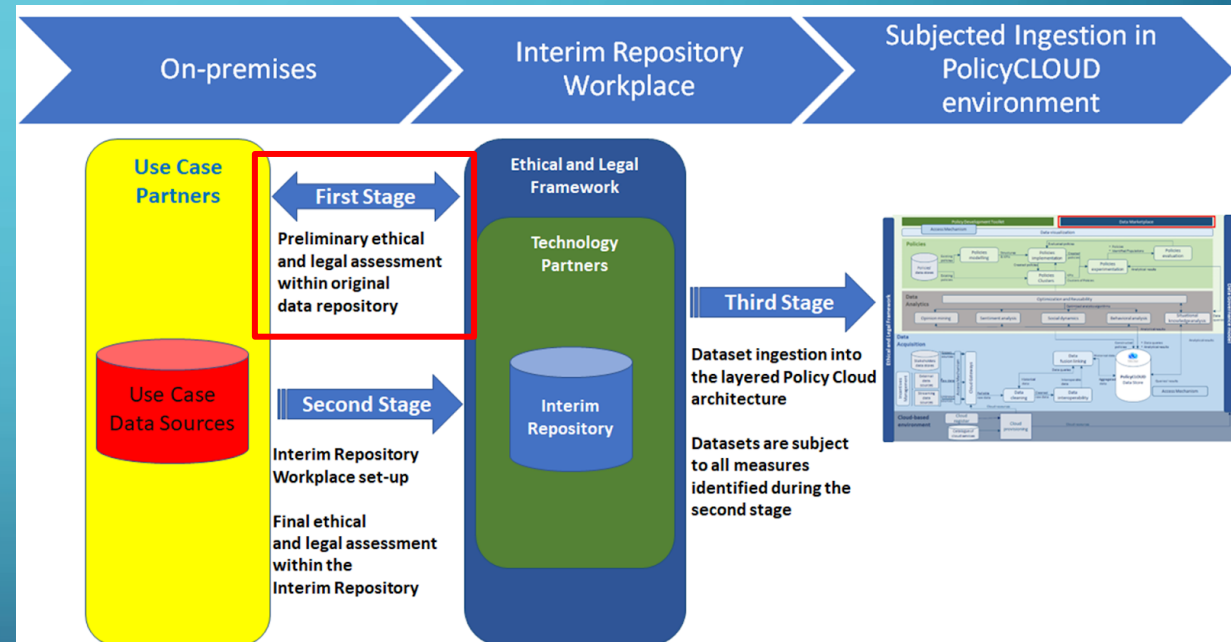
- Lack of semantic interoperability in the given domain
- Lack of semantic interoperability across datasets from different sectors
- Lack of process interoperability

# 3 DIMENSIONAL END-TO-END ANALYSIS USING A NOVEL INTERIM REPOSITORY WORKPLACE



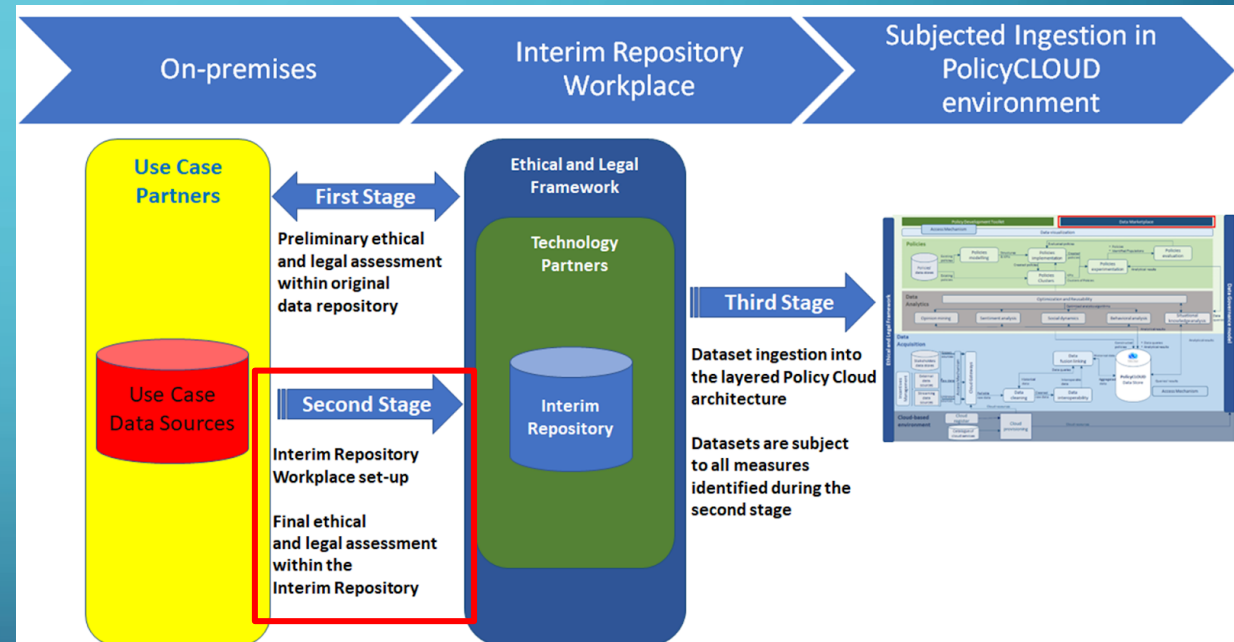
# FIRST STAGE

- Preliminary assessment of the available data
- Data reside within their original data repositories
- Analysis from a legal and ethical perspective
- No data movement or processing yet
- Ensures only authorized legal and ethical personnel can access and assess the data



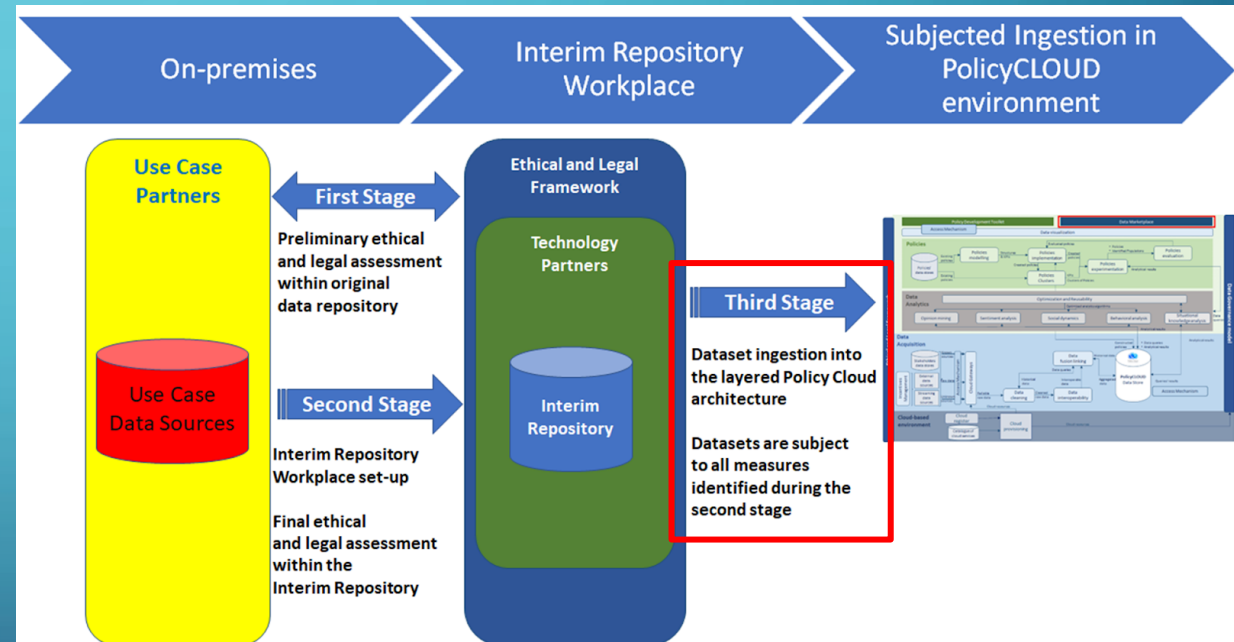
# SECOND STAGE

- Occurs before the full ingestion of the data
- Interim Repository setup
- Final legal & ethical assessment
- Data/Information silos removal
- Data interoperability introductory stage
- Safe and authorized access to data



# THIRD STAGE

- Occurs when dataset's legal & ethical confirmation occurs on second stage
- Dataset ingestion into the layered PolicyCLOUD architecture
- Data anonymization and aggregation
- Measures identified in second stage are applied to datasets before ingestion



# LEGAL & ETHICAL CRITERIA

- Data and Intellectual Property Protection laws → General Data Protection Regulation - (EU) Regulation 2016/679
- ISO/IEC 27013:2015 → integrated implementation of an Information Security Management System (ISMS)
- CSA Cloud Controls Matrix and Code of Conduct for GDPR Compliance
- EU Cloud Code of Conduct → requirements for Cloud Service Providers



# CONCLUSIONS

- Further effort needs to be made to standardize data interoperability in Data Driven Policy Making
- 3 dimensional approach proved efficient in the context of PolicyCLOUD
- Balance needs to be struck between:
  - Maximizing legal/ethical compliance → creates over restrictive registration process
  - Maximizing registrability of data analytics tools → failure to meet legal/ethical standards
- PolicyCLOUD solution → requirement for users to document legal/ethical measures on platform registration → assurance regarding legal/ethical soundness of analytics

# INTERESTED FOR MORE ?

- White Paper currently in development
- To be published on November 2022 via StandICT
- PolicyCLOUD project webpage (<https://policycloud.eu/>)



**HSbooster.eu**  
Horizon Standardisation Booster

# HSbooster.eu The EU Standardisation Booster

Nicholas Ferguson, Coordinator, COMMpla

**Software Forum Webinar**

**10/10/2022**



The HSbooster.eu has received funding from the European Union's Horizon Europe Framework Programme (HORIZON) - under grant agreement no 101058391.

# The EU Standardisation Booster

- **Name:** HSbooster.eu - Standardisation Booster for H2020 and Horizon Europe Research Results
- **Funding:** Launched by the EU Commission as a part of the European standardisation strategy
- CSA (GA: 101058391)
- Duration: April 2022 – March 2024
- Budget €2 million
- **Backed:** By External Advisory Group representing ESOs, SDOs and vertical sectors

## Purpose

- Give European R&I projects the opportunity to increase their impact, gain marked access and support the European green and digital agenda by using standards and contributing to standardisation

## Objectives

- Build a European community around standardisation and EU Projects
- Serve EU projects through dedicated support services
- Support projects in contributing to the creation of new or revision of existing standards
- Impact on the uptake of new technologies resulting from standardisation

## Partners:



- Project Coordinator
- COMMpla Platform manager



- Automated services management



- EAG management  
Open calls and EPE  
management



- Training academy  
management



- Proactive services  
management



- Premium services  
management

# External Advisory Group

Backed and supported by experts with complimentary expertise and roles

- Vertical sectors
- Technologies
- Standardisation
- Advisory roles
- Market needs
- Innovation



**Ray Walshe**  
Assistant Professor & EAG Chair  
DCU

Chair – Ray Walshe,  
Dublin City University



**Emilia Tantar**  
Chief Data and Artificial Intelligence Officer  
Blar & Swin



**Emilie Bratt**  
Lead Standards Development Manager  
British Standards Institution (BSI)



**Grit Munk**  
Chief Consultant at Danish Society of Engineers  
The Danish Society of Engineers (IDA)



**Knut Blind**  
Professor for Innovation Economics  
Fraunhofer IPA



**Lindsay Frost**  
Chief Standardisation Engineer  
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**Martin Chapman**  
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**Sebastian Hallensleben**  
Head of Digitalisation and AI  
VDI



**Speranta Stomff**  
Head Of Project Management Office  
ASRO (Romanian Standards Association)



**Valerie Livina**  
Principal Research Scientist  
National Physical Laboratory (NPL)



EAG provides high-level strategic guidance and provides expert input into standardisation urgencies for open calls

# HSbooster.eu Service Matrix



Facilitating R&I innovation related stakeholders in EU projects towards EU standardisation and ensuring two-way flow of information that can contribute to identification of new areas for standardisation.

# How services operate

## Services operate through a continuously Open Call

- R&I projects can [apply](#) online on a first-come first-served basis
- The R&I project is matched with an **expert** within their field and a consultancy service is tailored to their needs
- The service is free of charge for European R&I projects
- The **experts** are paid 800 Euros per counseling (app. 2 days of work)



# OPEN CALL Topics



## Sustainable Digitalisation

- › Data quality & Artificial Intelligence
- › Access to & usage of data
- › Space
- › Data and cybersecurity
- › Quantum technology



## Health

- › Pandemics
- › E-Health & personalized services
- › Design & use of medical devices
- › AI in Healthcare



## EU Green Transition

- › Clean energy
- › Materials (raw and secondary)
- › Green & sustainable production
- › Environmental impact



## Resilience

- › Robust supply chains
- › Climate resilience
- › Hybrid civil/defence
- › Data protection & cybersecurity



## Smart City & Circular Economy

- › Circular economy
- › Transportation
- › Infrastructure
- › Green buildings

Topics based on EU Standardisation urgencies, EC call topics & focus of ESOs, NSBs, SDOs.

<https://hsbooster.eu/open-call-topics>



# Types of support for projects

- Support from standardisation experts to EU projects:
  - Understand benefits of standardisation to valorise results
  - Map results to relevant standards/TWGs
  - Identify areas for new standards/revised standards
  - Develop a standardisation strategy
  - Plan and initiate standardisation activities
  - Pinpoint optimal standardisation workflows and timelines
  - Meet standardisation experts
  - Analyse standardisation potential and “readiness level”
  - Receive training to improve expertise at different levels

Support to projects provided by consortium and pool of Standardisation experts recruited from the standards community



# **OPEN CALL** for Standardisation Experts 117 and growing!

Supporting Horizon Europe  
and H2020 projects address  
Standardisation priorities in Europe

**Join our pool of experts**



Funded by  
European Union

ETSI Standardisation experts extremely welcome and service delivery is remunerated by HSbooster.eu  
**Applications open: [www.hsbooster.eu/epe/register](http://www.hsbooster.eu/epe/register)**

# Become part of our community

## We are looking for:

- **H2020 & Horizon Europe projects** to apply for free counselling in the use of standards and participation in standardisation. Services start this Month!
  - [Apply here](#)
- **Paid experts** that can help with the consultation service of the above-mentioned projects. In order to become an expert, you need to have knowledge of:
  - Standardisation
  - A relevant subject area (see previous slides)
  - [Join here](#)



Thank you

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Coordinator & COMMpla



**SWForum.eu**


European forum of the software research community

**WEBINAR**

# Leveraging Open Source technologies for better services in the European software ecosystem



 10 October 2022

 14:30 - 16:00 CEST



Funded by  
the European Union