

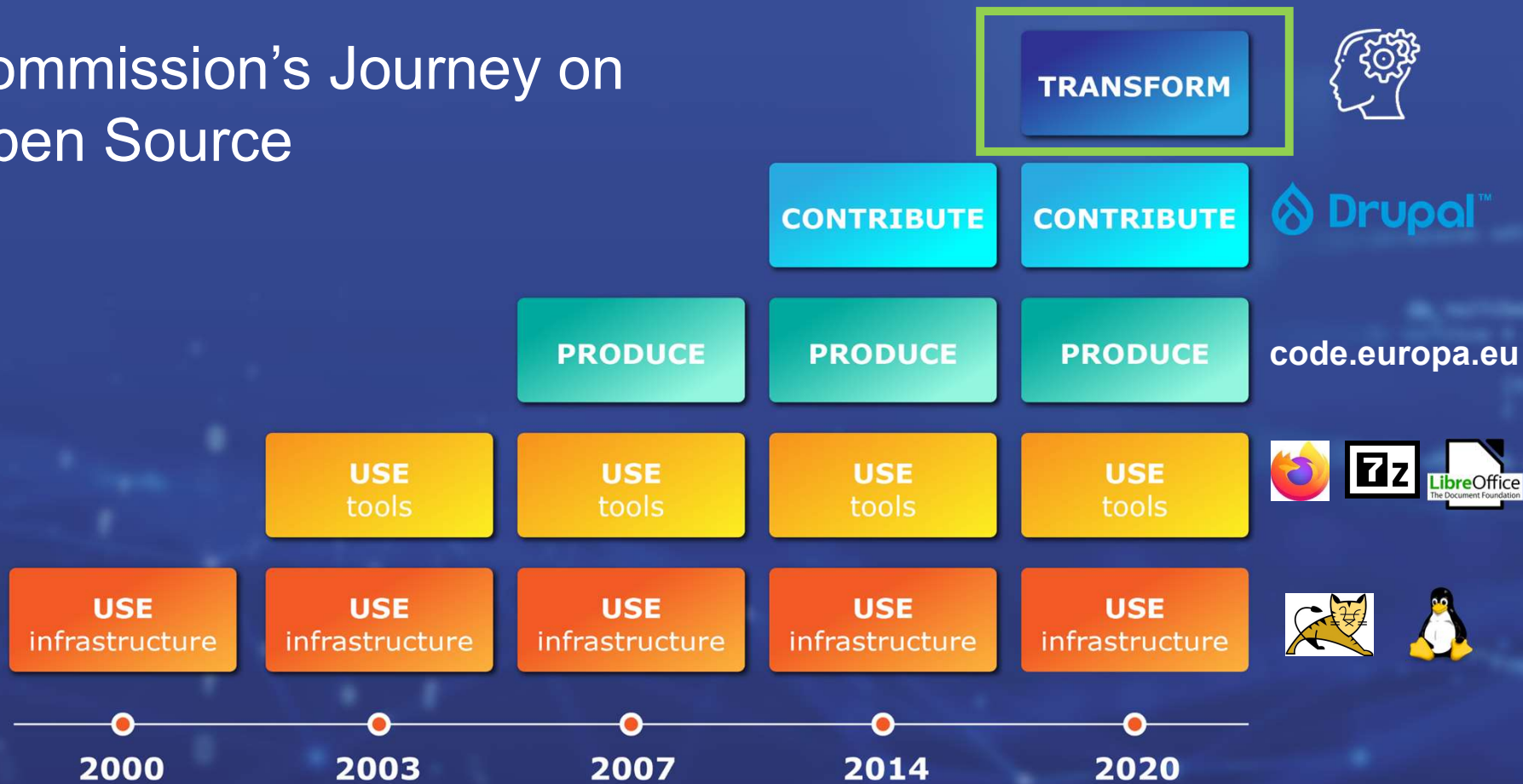


# Recent developments at EC on open source

*EC Open Source Programme Office*

*FOSDEM 2024*

# Commission's Journey on Open Source



# Action Plan

Action	
1	Set up an Open Source Programme Office
2	Set and promote inner source as default
3	Enhance software repository
4	Revise software distribution practices
5	Enable and generate innovation with open source labs
6	Develop skills and recruit expertise
7	Increase outreach to communities
8	Integrate open source in internal IT Governance
9	Ensure security
10	Encourage and promote inner source

# Action 1 – Create an OSPO



# OSPO created



Open source communities



European Parliament

Pilot Projects and Preparatory actions

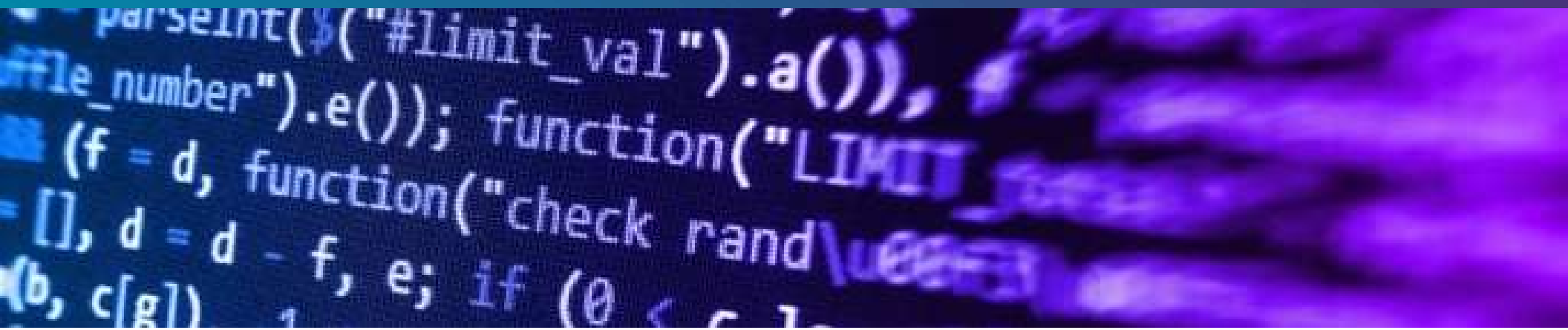


Open Source Strategy

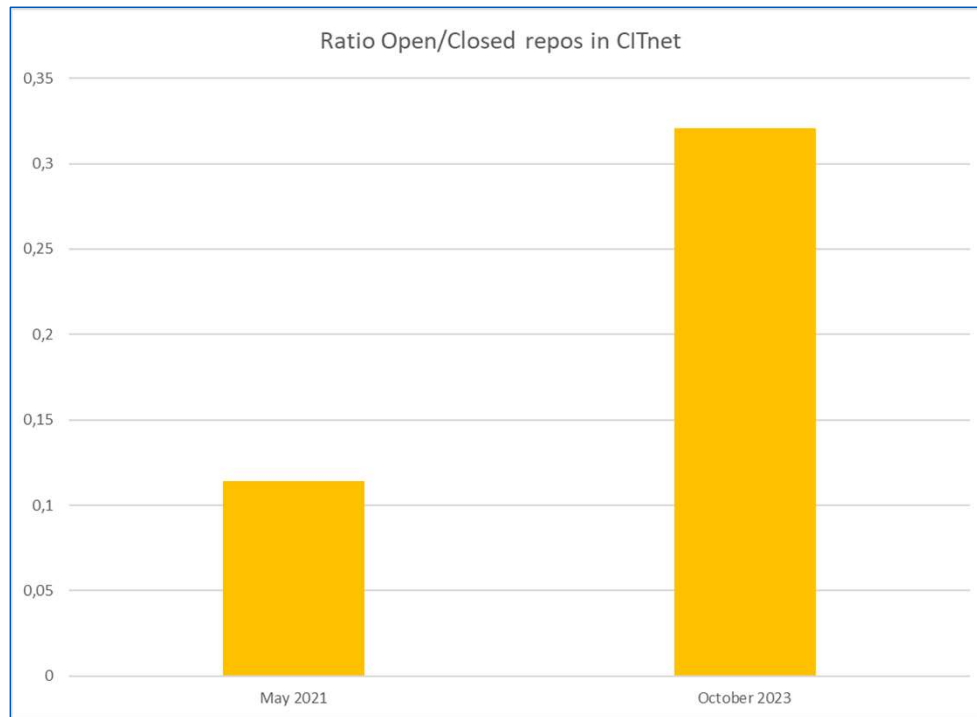




# Action 2 - Inner Sourcing



# We share more code internally

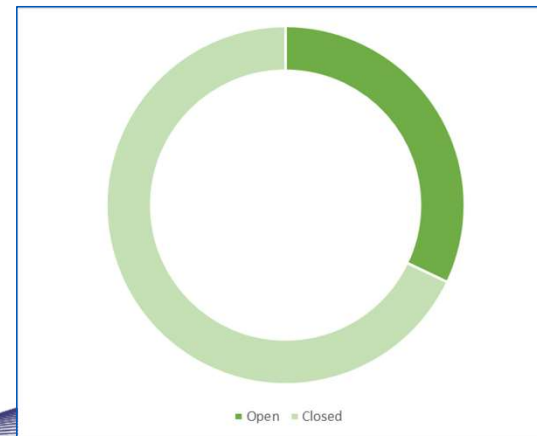


## Achievements

- More than 30% of internal repositories open (3x increase compared to 2021)

## Objectives for the years to come

- Continue monitoring projects for inner sourcing
- Increase 5% every year until we get to 90%



# Action 3 - Open Sourcing

```
@merge_request.reply_allowed = @reply_allowed = true
@merge_request.target = {
  :type => 'MergeRequest',
  :id => @merge_request.id
}

@merge_request.notes.where("line_code is not null")

to do |format|
  format.html do
    render json: { html: @merge_request.html_string("projects/merge_requests/show") }
  end
end

216   mark_as(:merge_request, @merge_request)
217   else
218     mark_as(:merge_request, @merge_request)
219   end
220 end
221
```

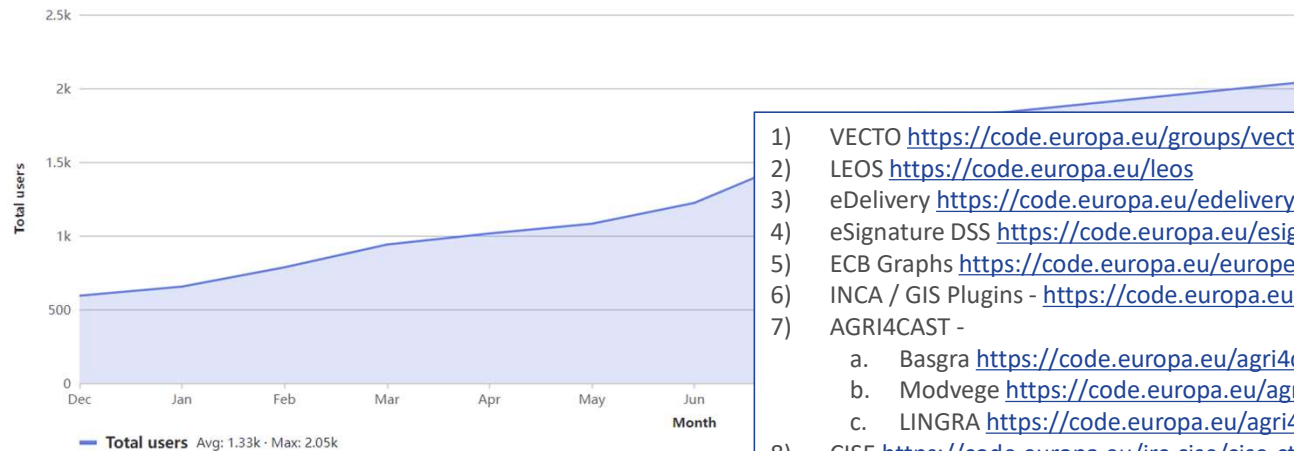


# We share more code externally

## Usage Trends

Projects	Groups	Users	Issues	Merge requests	Pipelines
416	137	2,051	3,346	5,971	112,243

## Total users



Evolution on the number of projects and users in **code.europa.eu** since its official launch

## Examples

- 1) VECTO <https://code.europa.eu/groups/vecto/-/wikis/home>
- 2) LEOS <https://code.europa.eu/leos>
- 3) eDelivery <https://code.europa.eu/edelivery>
- 4) eSignature DSS <https://code.europa.eu/esignature-dss>
- 5) ECB Graphs <https://code.europa.eu/european-central-bank/economics/ecbgraphs>
- 6) INCA / GIS Plugins - <https://code.europa.eu/inca/gis-plugins/gis-plugins>
- 7) AGRI4CAST -
  - a. Basgra <https://code.europa.eu/agri4cast/basgra>
  - b. Modvege <https://code.europa.eu/agri4cast/modvege>
  - c. LINGRA <https://code.europa.eu/agri4cast/lingra>
- 8) CISE <https://code.europa.eu/jrc-cise/cise-ctt-extensions>
- 9) EBSI (European Blockchain Service Infra) <https://code.europa.eu/ebsi>
- 10) Happy Onlife <https://code.europa.eu/hol/hol>
- 11) European Digital Identity - <https://code.europa.eu/eudi/architecture-and-reference-framework>
- 12) SyRIO - <https://code.europa.eu/ener-b-4/syrio>

# Action 4 – Removal of Legal barriers



# We can publish our code faster

European Commission

EN English Search

Home > Transparency > Register of Commission Documents > Search > C(2021)8759

## Register of Commission Documents

Welcome to the Register of Commission documents.

Here you can find various types of Commission documents such as proposals, impact assessments, communications, delegated and implementing acts and other Commission decisions, agendas and minutes of meetings held by the College of Commissioners.

PAGE CONTENTS

- Document details
- Download document
- More information about the document

### COMMISSION DECISION on the open source licensing Commission software

Document type	Decision
Reference	C(2021)8759
Date	08/12/2021
Responsible service	Joint Research Centre

Download document

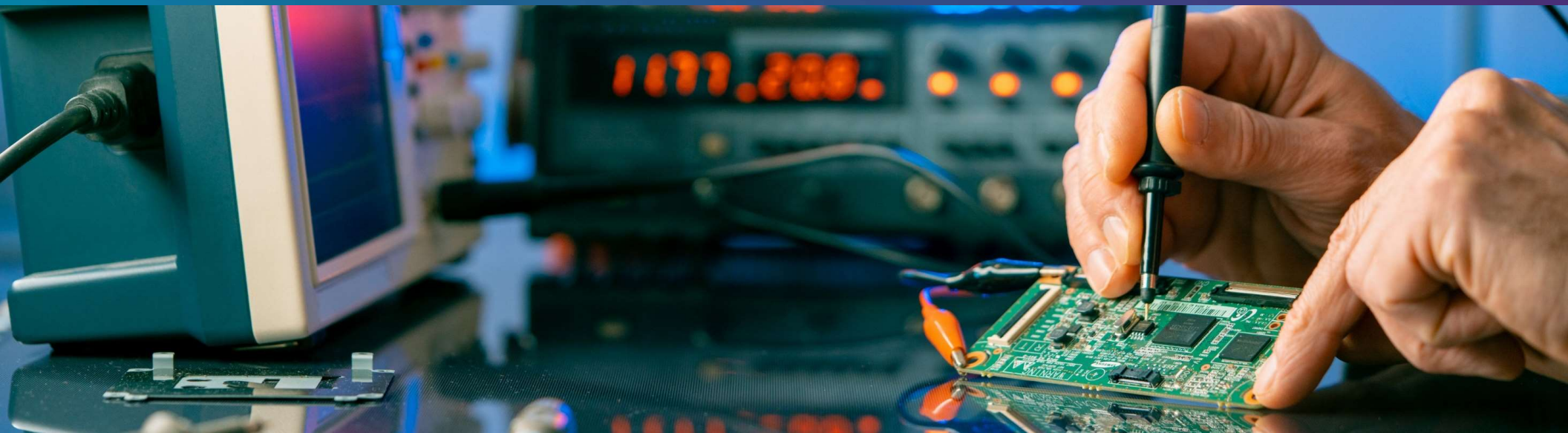
Time needed to get approval for publishing the code as open source

Before decision

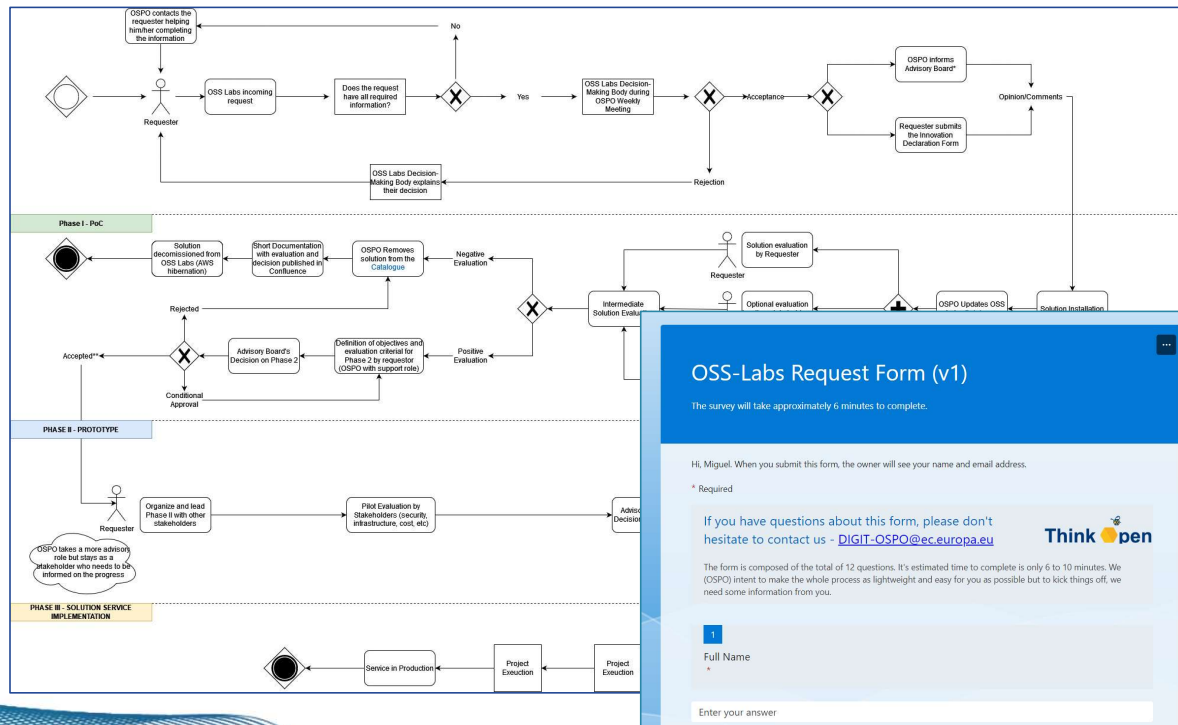
After decision



# Action 5 – Open Source Labs



# We have a framework to test open source



## Achievements

- Provisioning of infrastructure
- Governance and processes defined
- Launch of 3 labs: Jitsi, CryptPad and Discourse

**OSS-Labs Request Form (v1)**  
The survey will take approximately 6 minutes to complete.

Hi, Miguel. When you submit this form, the owner will see your name and email address.

\* Required

If you have questions about this form, please don't hesitate to contact us - [DIGIT-OSPO@ec.europa.eu](mailto:DIGIT-OSPO@ec.europa.eu)

The form is composed of the total of 12 questions. It's estimated time to complete is only 6 to 10 minutes. We (OSPO) intent to make the whole process as lightweight and easy for you as possible but to kick things off, we need some information from you.

1 Full Name

Enter your answer

[Link to the request form](#)





# Action 7 - Outreach



# Commission present in open source ecosystem

## Bug Bounties

Collabora Online, Dynare, jupyter, X-WIKI, odoo, CryptPad, LibreOffice, Moodle, element, zimbra, ebsi European Blockchain

## Hackathons

Nextcloud, jitsi, X-ROAD, moodle

## Initiatives

Open Source Workshops for Computing & Sustainability  
2 December 2022  
Albert Borschette Congress Center (CCAB), Brussels

EU Open Source Solutions Catalogue  
Discover our European Open Source Solutions

European Parliament  
European Commission

# Action 8 – Integrate open source in IT Governance



# Open source present in our IT governance

## Openness and transparency

<How will the solution be designed to ensure that the data can be shared with other IT systems or made open to the public, e.g. published on the Open Data Portal or using open-source standards? Will the solution increase transparency of information to other stakeholders?>

operations. The platform will not store any sensitive data.

The solution itself will be open source. It will be designed and implemented to support the open access policy of the European Commission and therefore will only host open access publications and open peer reviews. It



(CO<sub>2</sub>) emissions certification  
ons from trucks, buses,

Stakeholders	
Primary Owner - DG	CLIMA
Primary Provider - DG	JRC
Secondary Provider(s) - DG	DIGIT

Infrastructure	
Hosting Mode	DIGIT
Open Source Related Practices	Use open source components/infrastructure Contribute with fixes/improvements to open

Security	
----------	--







# Impact for Commission

- Now, we consider open source at the early stages of a project
- The software we develop is becoming more secure
- Developers start looking/reusing code from other projects internally
- Development teams can now open their code easily (no legal barriers)
- We start receiving third party code contributions
- Cost savings: GitLab Ultimate used for [code.europa.eu](https://code.europa.eu) at €0 cost license
- Improved compliance: more software IP assets declared in our registry



*The Open Source Strategy is already having an effect*

*Efforts will be pursued in the next strategy iteration*



# FOSSEPS

Free Open Source Software  
for European Public Services

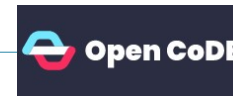


# European Open Source Solutions Catalogue

The screenshot shows the homepage of the EU Open Source Solutions Catalogue. At the top, there is a header with the logo and the text "EU Open Source Solutions Catalogue" and "Open source software of interest for Public Administrations". Below the header, there are navigation links for "Home" and "Search". The main content area features a large heading "Discover our European Open Source Solutions" and a "Browse the catalogue" button. To the right, there are three bullet points describing the catalogue: "Repository of the Open Source Software Solutions of the Public Administrations", "Centralized platform to discover Open Source Software Solutions for diverse needs", and "Open Source Software Solutions that empower collaboration, creativity, and efficiency across various domains". Below this, there is a section titled "Most recent solutions" with a "View all" button and navigation arrows. This section displays four solution cards: "xmlschema" (v2.5.0), "E-Recruitment" (v5.3.0), "Sitemanager 3" (v1.0), and "LibreOffice Variant of The Document Foundation" (v7.6.2.1). Each card includes a release date of 03/03/2023 and a brief description of the software.

## Features

- Implements publiccode.yml data standard
- Fetches data from national catalogues
- Possible to add projects manually



# Study on critical open source software

<https://joinup.ec.europa.eu/collection/fosseps/news/fosseps-critical-open-source-software-study-report>

## Needs from some of the Open Source Projects considered as critical

Project Need	Apache Tomcat	Curl	Libxml2	M2Crypto	LibreOffice	Totals
Funding	0	5	5	0	5	15
Security – Audit	3	0	0	0	5	8
Security – Fuzzing	0	0	5	0	0	5
Contributors	2	3	5	0	5	15
Crypto expertise	0	0	0	5	0	5
Clients for service company	0	5	0	0	0	5
<b>Total scores</b>	5	13	15	5	15	

*An open source software is considered as Critical Software, if it is important to an organisation (i.e., it is needed to deliver key services) and is at risk due to a lack of support from an external/external support organisation, or from an inability of its parent software community to guarantee its long-term upkeep, evolution, and maintenance.”*



# Thank you!

[DIGIT-OSPO@ec.europa.eu](mailto:DIGIT-OSPO@ec.europa.eu)



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