



OpenRail Paris

Open source at the European Commission

EC Open Source Programme Office

Miguel DIEZ BLANCO

Catalin MORUJU

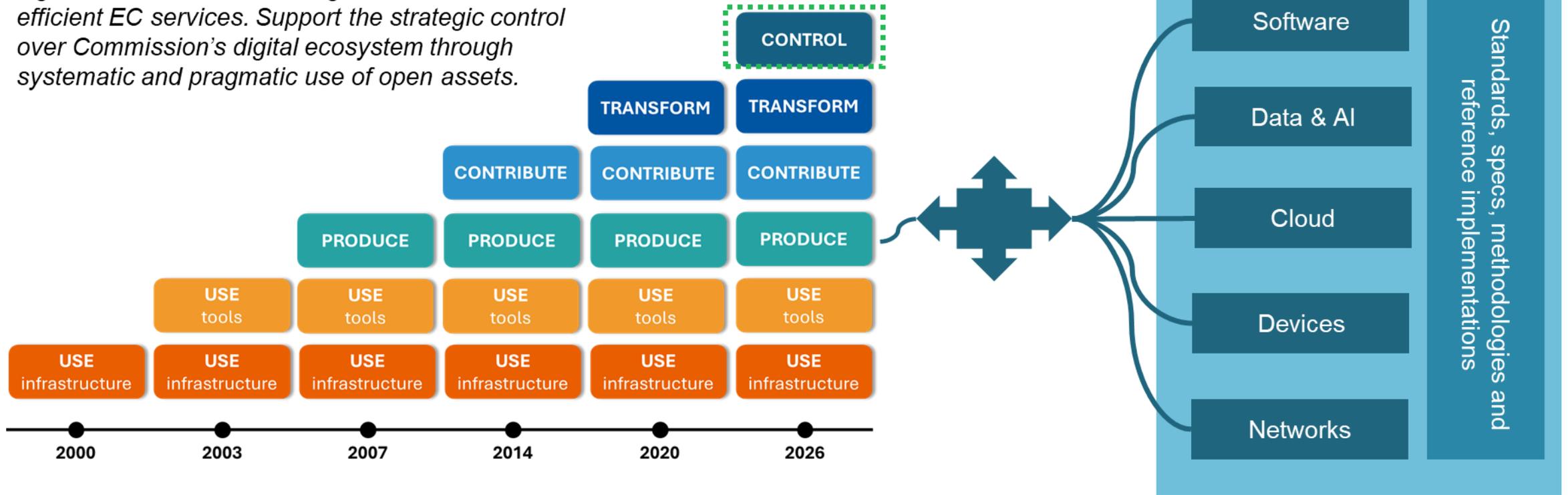
Agenda

1. New Open Digital Ecosystem Strategy
2. code.europa.eu
3. FOSSEPS
4. Interoperability Solutions (EIRA, CAMSS, Test Bed)
5. Open Internet Stack (CNECT)

1. New Open Source Strategy

New Open Digital Ecosystem Strategy

Contribute to a secure, sustainable, and open digital foundation for sovereign, resilient, and efficient EC services. Support the strategic control over Commission's digital ecosystem through systematic and pragmatic use of open assets.



New Open Digital Ecosystem Strategy

OPEN DIGITAL ECOSYSTEM

1

Trusted assets, services and frameworks

Provide secure, reliable, and compliant open digital tools and infrastructures that give the Commission control over its digital stack and underpin a resilient open ecosystem.

2

Empowered communities

Equip staff and communities with the skills and motivation to not only use but actively shape and grow open digital solutions.

3

Strong governance and decision-making

Make open and sovereignty by design a strategic choice in governance, procurement, and policy so that EC directs the course of its digital ecosystem.

2. code.europa.eu

```
@merge_request.target_commit
s_allowed = @reply_allowed = true
s_target = {
  le_type: 'MergeRequest',
  le_id: @merge_request.id
}

tes = @merge_request.notes.where("line_code is

to do |format|
  .html
  .json { render json: { html:
    o_html_string("projects/merge_requests/show

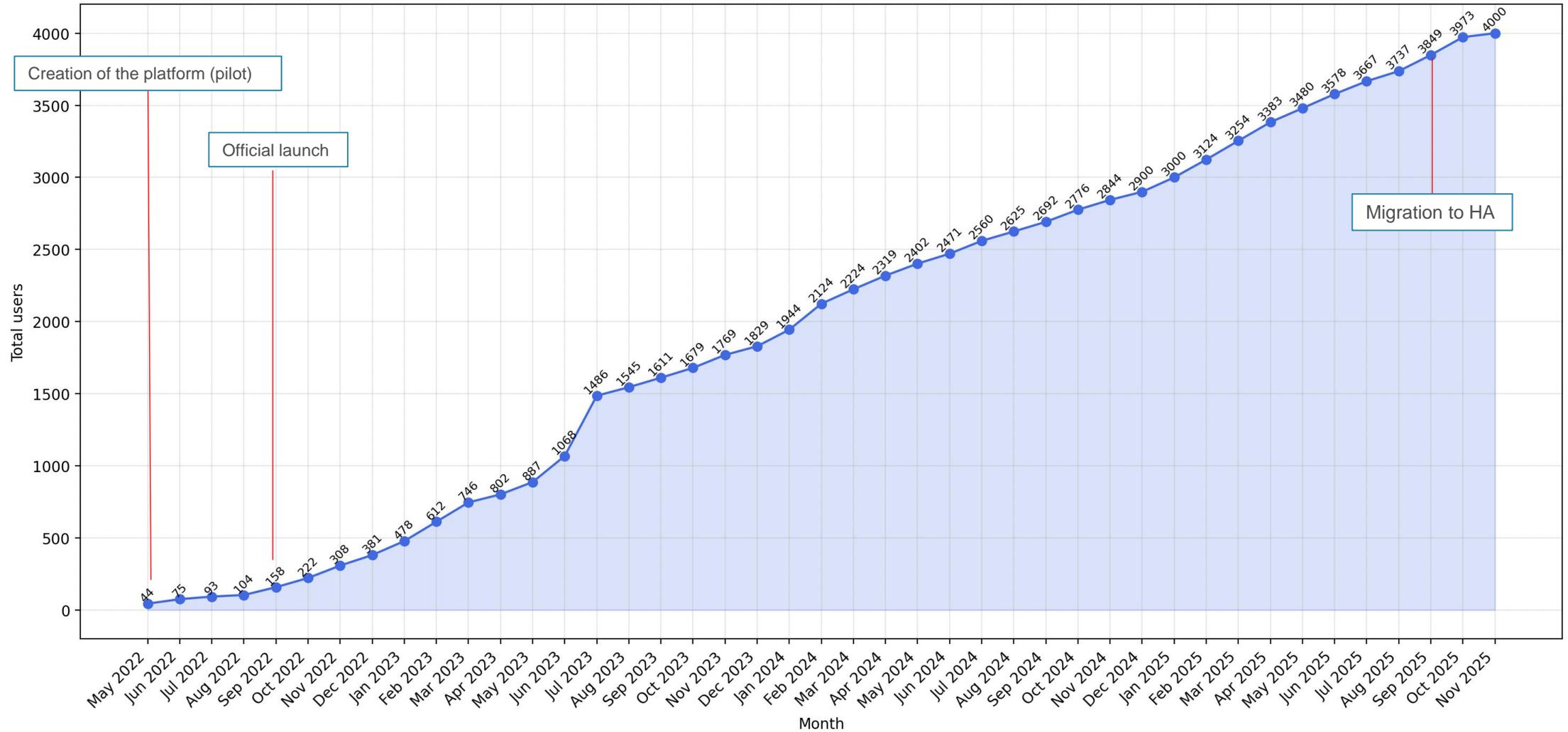
216   mark_as
217   else
218   mark_a
219   end
220   end
221

ts.where(target_id: self.id, target_type: "Mer
st

s.where(target_id: self.id, target_type: "Mer
```

code.europa.eu

Total users

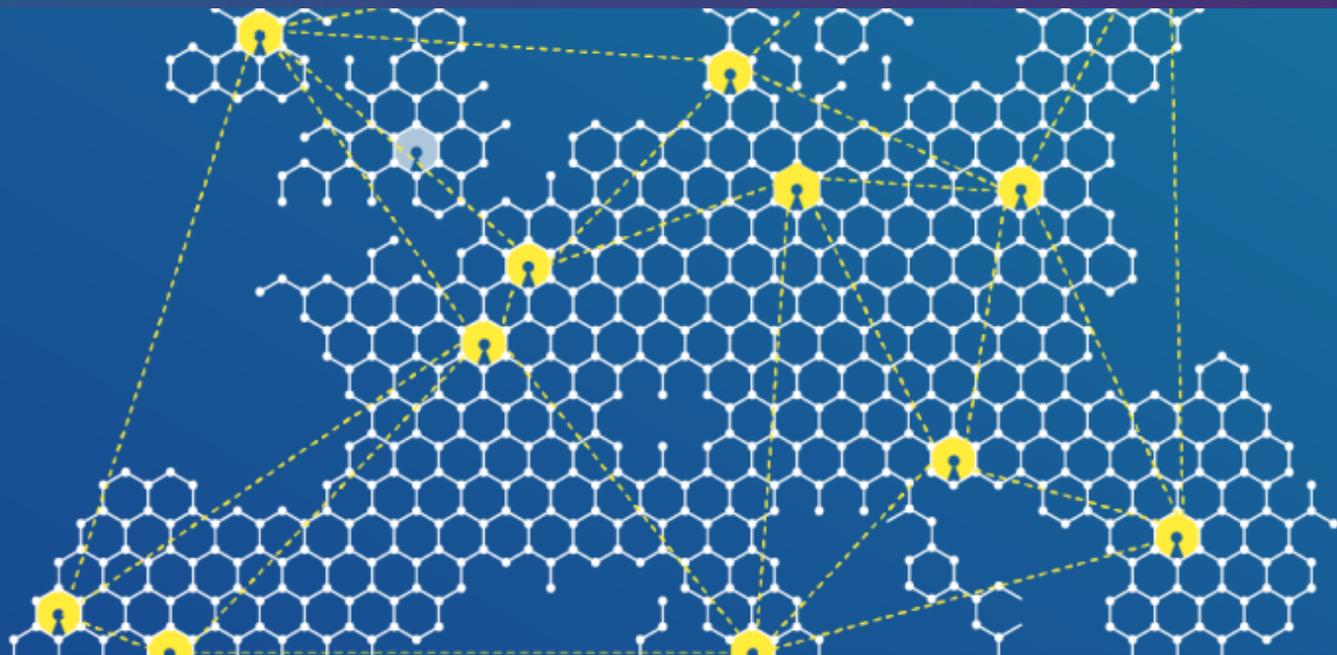


code.europa.eu - examples



3. FOSSEPS

FOSSEPS
Free Open Source Software
for European Public Services



EU OSS Catalogue

The screenshot shows the homepage of the EU OSS Catalogue. At the top, there is a navigation bar with the European Commission logo and the text 'interoperable europe'. Below this, the main heading is 'EU Open Source Solutions Catalogue' with the subtitle 'Solutions created by and for European Public Services'. There are links for 'Welcome', 'Search', and 'About'. A 'Browse the catalogue' button is also present. The 'Discover European Open Source Solutions' section includes a 'Repository of Open Source Solutions of Public Administrations' and a 'Centralised platform to discover Open Source Solutions for diverse needs'. The 'Most recent solutions' section displays four solution cards: 'Huishoudboekje' (version 2.2.2), 'iO' (version 3.2.0-rc.1), 'iO Design System' (version v5.3.4), and 'Learning Portal Apps' (version 1.1.3). Each card shows a brief description, categories, and user engagement metrics like stars and forks.

This screenshot shows the detailed view of the 'OpenCity Italia - La Stanza del Cittadino' solution. The header includes the European Commission logo and the text 'An official website of the European Union'. The main heading is 'EU Open Source Solutions Catalogue' with the subtitle 'Solutions created by and for European Public Services'. Below this, there are links for 'Welcome', 'Search', and 'About'. The solution card features the 'OpenCity ITALIA' logo and the title 'OpenCity Italia - La Stanza del Cittadino'. It displays the version '3.16.0-rc.1' and categories: 'communications', 'crm', and 'digital-citizenship'. The description states: 'Personal area, digital services and booking of appointments. Also available in SaaS (qualified marketplace AgID)'. The 'Copyrights owner' is 'OpenCity Labs srl' and the 'Source catalogue' is 'Developers Italia'. On the right, there are vitality metrics: 17 stars, 468 forks, 19 pull requests, and 11 issues. A 'Vitality 94%' indicator is shown with a green line graph. Below this, there are 'Quick links' including a 'Source code repository'.

<https://interoperable-europe.ec.europa.eu/eu-oss-catalogue>

Bug Bounty Programmes

 open**Desk**



4. Interoperability Solutions

<https://interoperable-europe.ec.europa.eu/collection/european-interoperability-reference-architecture-eira>

EC Blueprints for Public Service: EIRA & eGovERA



The Goal: To build digital public services (e.g., getting a license, accessing health records) that are not just effective, but fundamentally **interoperable** - meaning they can connect and share data effortlessly across borders and sectors.

The Philosophy: We treat architecture as **public code**. EIRA and eGovERA are open-source reference models built for transparency, reuse, and community collaboration.

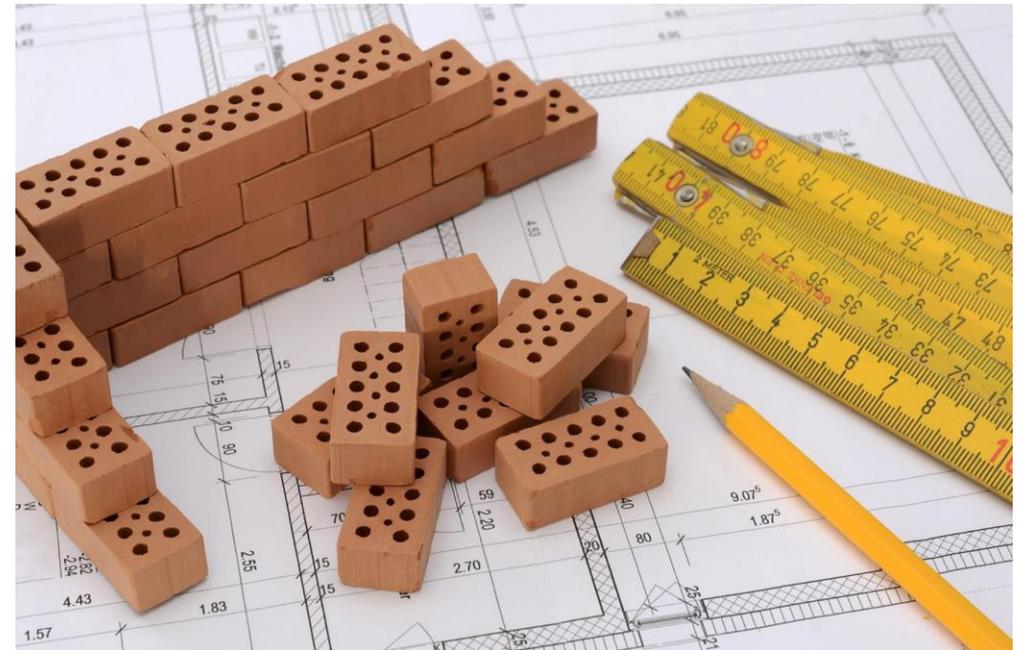
EIRA – European Interoperability Reference Architecture
eGovERA – eGovernment European Reference Architecture

CAMSS: Assessing Open Standards for Cross-Border Interoperability

CAMSS Goals: Building Trust & Reducing Risk

- **Neutrality:** Objective, common method for evaluating ICT standards (e.g., the EIF Scenario).
- **Transparency:** Clear, published criteria evaluate standards' openness and maturity.
- **Reuse:** Shareable assessments prevent duplication of effort across EU administrations.

CAMSS is the official EU mechanism to ensure standards selection prevents **vendor lock-in**.



CAMSS - Common Assessment Method for Standards and Specifications

Interoperability Test Bed

ITB

Interoperability
Test Bed

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



Powered by
EC DIGIT



Standards based
([GITB CWA](#))



European
Commission

ITB at European Union Agency for Railways



CCSTMS Validator

Validating RDF content against extended ERA ontology domains

[Home](#) [API Docs](#) [Support](#)

The **CCSTMS Validator** enables validation of RDF data against [ERA's extended ontology](#), covering multiple domains such as infrastructure, rolling stock, engineering, and operations.

Validation is also available through:

- [REST API](#) – validate directly via machine-to-machine integration using HTTP requests
- [SOAP API](#) – contract-based enterprise integration support
- [Command-line tool \(CLI\)](#) – offline validation

Documentation and user guides are available [here](#). For questions or feedback, please contact [support](#).

Content to validate

Domain

Content syntax

© 2025 CCSTMS Validator | European Union Agency for Railways (ERA) & Europe's Rail Joint Undertaking (ERJU)

5. Open Internet Stack

Open Internet Stack – towards trustworthy open services and platforms

Open Internet Stack

GOAL

Establish trusted, sovereign, Open Source and operational solutions aligned with European digital rights and principles
→ reduce reliance on global proprietary platforms.

Alignment with Policy Priorities:

- Enhances the EU's technological capacity in critical digital supply chain areas.
- Promotes the development of a vibrant 3C Network to drive innovation and competitiveness.
- Strengthens Europe's position in the digital value chain through advanced infrastructure and solutions.

Outcomes

- ❑ An Open Internet Stack catalogue, maintained and compliant with EU values and legislation.
- ❑ Development of new solutions addressing the diverse needs of 3C ecosystem providers and verticals (e.g., operators, cloud providers).
- ❑ Sector-agnostic digital commons fostering competitive, resilient, and sovereign European applications.

I will work towards equipping the EU with this Open Internet Stack, because it is a collection of open services and platforms. [] That's one of our strengths. And there are open services and platforms which are an alternative to proprietary solutions.

EVP Virkkunen's statement during her Parliament confirmation hearings



Ongoing Calls

WP25 – 2025 Calls (24.5M€ total)

- **Open Internet Stack (10M€ – RIA):** Development of publicly available, open-source technological commons (trust, connectivity, decentralisation).
- **Open & Interoperable Web 4.0 / Virtual Worlds (14.5M€ – RIA):** Early demonstration of Web 4.0 architecture using open-source building blocks (identity, supply chain, decentralised services).

WP26–27 – Scaling Up (37.3M€)

- **Open Internet Stack Solutions (20.5M€):** Network/transport tech (VPNs, mesh), sovereign OS/firmware, federated forges, cross-platform tools.
- **Architectural Framework & Apps (16.8M€):** Decentralised messaging, collaboration, virtual worlds, trustworthy cross-technology management.

https://cordis.europa.eu/programme/id/HORIZON_HORIZON-CL4-2025-03-DATA-11

Thank you!

DIGIT-OSPO@ec.europa.eu



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