



Open Internet Stack Sovereign Solutions

HORIZON-CL4-2026-04-DATA-02

Program:	Horizon Europe Cluster 4
Típus:	Research & Innovation Action
TRL szint:	-
Támogatás projektenként:	7-11M EUR
Támogatott projektek száma:	2-3
Pályázati felület megnyílik:	2026 január 15
Beadási határidő:	2026 április 15
Felhívás linkje:	LINK

Proposals should address one or several of the following technology areas:

- Network and Transport technologies including for example routing and virtual private networks, survivable mesh technologies.
- Sovereign operating systems and firmware (including smartphones).
- Open Source software productivity and supply chain technologies such as federated forges, independent and cross-platform development framework.

Applicants should devise a plan for ensuring that the solutions are designed for efficient deployment, with pre-configured, modular components that facilitate integration by a wide range of users, including SMEs, public administrations, and service providers.

Applicants should detail development, integration, testing, deployment, uptake and operation activities. Focus will be on Open Source solutions and their integration and adoption in vertical use cases, to ensure replicability of the results and portability in different areas.

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Open Internet Stack Support for Scale

HORIZON-CL4-2026-04-DATA-03

Program:	Horizon Europe Cluster 4
Típus:	Coordination & Support Action
TRL szint:	-
Támogatás projektenként:	4M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	2026 január 15
Beadási határidő:	2026 április 15
Felhívás linkje:	LINK

This topic will support the Open Internet Source Stack projects scale-up and maintenance ensuring:


- A common approach and hub for cataloguing, packaging, reviewing and validating Open Internet Stack components and projects.
- Long term viability by advising on Open Source sustainability models including business and foundation; Promotion of the EU and Associated Countries as ideal location for Open Source Foundation sieges.
- A common branding, marketing, training and communication plan ensuring consistent perception.

A close interleave with policy development through a dedicated policy sandbox.

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Efficient and compliant access to and use of data (AI, Data and Robotics partnership)

HORIZON-CL4-2026-04-DATA-06

Program:	Horizon Europe Cluster 4
Típus:	Innovation Action
TRL szint:	8
Támogatás projektenként:	12.5-25M EUR
Támogatott projektek száma:	2-5
Pályázati felület megnyílik:	2026 január 15
Beadási határidő:	2026 április 15
Felhívás linkje:	LINK

The actions should deliver high-quality, well-structured, secure and compliant data, tailored to evolving societal, industrial, research and public sector needs, underpinning key EU strategies. The developed methods, technologies and tools should ensure that data is effectively shared between sectors, disciplines, and participating countries, and that the data is reliable, traceable, and fit for purpose.

The proposal should clearly state which of the following two areas it addresses:

1. Development and deployment of advanced, AI-driven compliance technologies and solutions that automate data transactions and key regulatory processes, reduce administrative burdens, and facilitate seamless adherence to EU rules.
2. Design and deployment of secure, scalable, and adaptive data management systems that automate key data processes.

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Demand-side 3C pilot demonstrators on converged Telco Edge Cloud Infrastructure (IA)

HORIZON-CL4-2027-04-DATA-08

Program:	Horizon Europe Cluster 4
Típus:	Innovation Action
TRL szint:	6-8
Támogatás projektenként:	19M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	2026 november 17
Beadási határidő:	2027 március 18
Felhívás linkje:	LINK

Demand- side pilot demonstrators called in this topic will build on the HORIZON-CL4-2025-03-DATA-08 supply side large-scale pilot and integrate future domain-specific applications and services with an emerging European 3Cs/ telco-edge-cloud infrastructure, leveraging different network features. Key features will include security and privacy solutions offering resistance to emerging quantum threats (such as via post-quantum cryptography), mobility, and service continuity across inter-domain and multi-cloud deployments and ecosystems.

Up to two pilot demonstrators on below listed specific verticals are expected.

- One pilot demonstrator focusing on Mobility covering specific areas of transport, logistics and the Automotive industry.
- One pilot demonstrator focusing on another vertical sector such as energy, smart communities, industrial virtual worlds, health, agrifood or manufacturing.

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New approaches for decentralized, federated and sustainable AI data processing

HORIZON-CL4-2027-04-DATA-03

Program:	Horizon Europe Cluster 4
Típus:	Research & Innovation Action
TRL szint:	6-7
Támogatás projektenként:	17,5M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	2026 november 17
Beadási határidő:	2027 március 18
Felhívás linkje:	LINK

This topic focusses on technologies and techniques that enable AI data processing to leverage distributed compute resources across the cloud and edge computing continuum throughout the whole AI model lifecycle from data collection, training, fine-tuning, and deployment. To overpass today's state of the art in the area, the considered research areas include:

- To build distributed, decentralised, and federated “compute continuum” enabled AI architectures.
- Development, deployment, and operation of AI workflows across heterogeneous and distributed infrastructures along the compute continuum
- Novel methods and techniques to improve data availability and consistency for decentralised AI data processing.
- New tools and mechanisms to measure, monitor and improve end-to-end energy efficiency and sustainability of AI data processing across the compute continuum.

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Energy efficiency and sustainability of AI data processing in Data Centres

HORIZON-CL4-2027-04-DATA-09

Program:	Horizon Europe Cluster 4
Típus:	Innovation Action
TRL szint:	8
Támogatás projektenként:	13M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	2026 november 17
Beadási határidő:	2027 március 18
Felhívás linkje:	LINK

Pilots for new technologies and a demonstration site which contribute to energy-efficient and sustainable AI data processing in data centres, reinforcing EU strategic autonomy and climate goals in the following topics:

1. Direct on-chip cooling and thermal management
2. Energy-efficient power backup and storage systems
3. Sustainable data centre architectures and AI workload optimization.
4. Materials research for energy efficiency
5. Optimisation of data centre operation and functioning
6. Integration of data centres into energy systems and the wider region.

Outcomes should demonstrate potential for improved power usage effectiveness and utilisation of waste heat in external applications, aligned with European targets for carbon-neutral heating/cooling.

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