



Developing and demonstrating core technologies for Virtual Worlds and Web4.0 (Virtual worlds Partnership)

HORIZON-CL4-2026-04-HUMAN-01

Program:	Horizon Europe Cluster 4
Típus:	Innovation Action
TRL szint:	6
Támogatás projektenként:	4-5M EUR
Támogatott projektek száma:	5-7
Pályázati felület megnyílik:	2026 január 15
Beadási határidő:	2026 április 15
Felhívás linkje:	LINK

The next generation of Virtual Worlds technologies will propose a deeper and closer-to-reality immersion, stimulating all senses to accurately capture and interpret user movements and environmental data. Real-time user interactions should be favoured by minimizing latency, increasing responsiveness and naturalness of interactions. The developed technologies will also dynamically respond to users' inputs and environmental changes.

Proposals will focus on and address the following:

- Asset and scene creation technology evolving in parallel
- Use of Generative AI for more personalised and natural experiences
- Visualisation and interaction through innovative immersive technologies
- Full integration and interoperability of XR and immersive applications (
- Integration of XR applications and components with Telco-Cloud-to-Edge Continuum components

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Web 4.0 architectural framework and Open Internet Stack applications for virtual worlds

HORIZON-CL4-2026-04-HUMAN-02

Program:	Horizon Europe Cluster 4
Típus:	Research & Innovation Action
TRL szint:	-
Támogatás projektenként:	3-9M EUR
Támogatott projektek száma:	2-6
Pályázati felület megnyílik:	2026 január 15
Beadási határidő:	2026 április 15
Felhívás linkje:	LINK

Proposals should address one of the following areas:

1. "Architectural Framework" area

Develop a human-centric Web 4.0 architectural framework encompassing interoperable layers from open hardware, web, AI agents, up to immersive and decentralised applications, utilizing cross-platform digital commons developed by European innovators. Proposals should demonstrate immersive multi-modal user interaction and should enhance trust, privacy, portability, and advanced identity management.

2. "Applications" area - Proposals will cover the one or more of the following technologies:

- Alternative decentralised applications and services or social media that can be exploited through Virtual Worlds technologies, including immersion and interaction.
- App-stores (incl. web-based) adapted for Virtual Worlds
- Shared, robust and trustworthy cross-technology Virtual Worlds for user and attribute management

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Advanced and Innovative hardware components for Virtual Worlds (Virtual Worlds Partnership)

HORIZON-CL4-2027-04-HUMAN-01

Program:	Horizon Europe Cluster 4
Típus:	Research & Innovation Action
TRL szint:	5
Támogatás projektenként:	5-6M EUR
Támogatott projektek száma:	7-8
Pályázati felület megnyílik:	2026 november 17
Beadási határidő:	2027 március 18
Felhívás linkje:	LINK

In the recent years, hardware for Virtual Worlds made major breakthroughs, democratising headsets, sensors, actuators or haptic equipment. To keep this momentum and advancing further, new generation of XR equipment, wearable solutions and haptic components, as well as non-invasive brain computer interfaces for handsfree interaction, hardware or technologies will put the users at the very centre of virtual experiences, for even greater and realistic immersion, aiming at blurring the lines between the real and digital environments.

Proposals should investigate novel scientific approaches or push the limit of existing ones to improve the synchronization and integration of the different modalities.

Proposals will integrate various components in fully tested devices, demonstrating the usefulness and efficiency of their system in illustrative scenarios in the industrial and societal contexts. Proposals should focus on performant, reliable, miniaturised, interoperable advanced and innovative technologies, with inclusivity, energy consumption and energy efficiency at the centre of concerns.

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Create a thriving and competitive Virtual Worlds and Web4.0 ecosystem (Virtual Worlds Partnership)

HORIZON-CL4-2027-04-HUMAN-02

Program: **Horizon Europe Cluster 4**

Típus: **Coordination & Support Action**

TRL szint: -

Támogatás projektenként: **3M EUR**

Támogatott projektek száma: **1**

Pályázati felület megnyílik: **2026 november 17**

Beadási határidő: **2027 március 18**

Felhívás linkje: [LINK](#)

The objective of the CSA is to further develop and reinforce the community by strengthening and supporting the Virtual Worlds Partnership and its Strategic Research and Innovation Agenda for Virtual Worlds (SRIA).

Projects are expected to contribute to the following:

- Review and, if necessary, update the Strategic Research and Innovation Agenda (SRIA) for Virtual Worlds in Europe, for useful, open, interoperable, inclusive, sustainable and trustworthy virtual worlds systems and applications, ensuring these reflect EU values and principles.
- Strengthening of the European Virtual Worlds Partnership by providing continuous support.
- Reinforced links among initiatives in virtual worlds in Horizon Europe, Digital Europe Programme, and other programmes at EU, national and regional levels.
- Strengthening and promotion of standardisation methods for virtual worlds technologies and in support of the EU regulatory framework.

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Facilitate the engagement of European stakeholders in international digital standardisation

HORIZON-CL4-2027-04-HUMAN-07

Program: **Horizon Europe Cluster 4**

Típus: **Coordination & Support Action**

TRL szint: -

Támogatás projektenként: **7M EUR**

Támogatott projektek száma: **1**

Pályázati felület megnyílik: **2026 november 17**

Beadási határidő: **2027 március 18**

Felhívás linkje: [LINK](#)

The goal of the proposal is to contribute to the implementation of the EU Standardisation Strategy and other policy initiatives such as Europe's Digital Decade or the Competitiveness Compass, with an emphasis on supporting the EU's leading position in global standards-setting of key digital technologies.

To achieve this objective, proposals under this topic should provide for:

- Setting up of a management facility to support contributions and leadership of European specialists in activities in relation to global digital standardisation.
- Support financially the hosting of international standardisation meetings and workshops in Europe to ease the participation of European experts.
- Landscape and gap analysis of standardisation activities in key digital priority area
- Promotion of the relevance and benefits of digital standardisation, especially for strengthening the competitiveness of EU industry.

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