

# Klaster 4: časť Digitalizácia

## Pracovný program 2026-2027



TOMÁŠ PAVLIK

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# Pracovný program pre roky 2026-2027



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## Horizon Europe work programmes

What work programmes are, what they cover, download available Horizon Europe work programmes.

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## Work programmes under Horizon Europe

Work programmes set out funding opportunities under Horizon Europe.

One specific programme under Horizon Europe is implemented through the following:

The main work programme



Všetky  
Pracovné programy



Cluster 4 'Digital,  
Industry and Space'

# Ako sa orientovať v Pracovnom programe?

*Horizon Europe - Work Programme 2025  
Digital, Industry and Space*

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# Prehľad Témy z Pracovného programu

**HORIZON-CL4-2025-03-HUMAN-15: GenAI4EU: Generative AI for Virtual Worlds: Advanced technologies for better performance and hyper personalised and immersive experience (IA) (AI/Data/Robotics & Virtual Worlds Partnerships)**

<b>Call: DIGITAL - CNECT</b>	
<b>Specific conditions</b>	
<i>Expected EU contribution per project</i>	The Commission estimates that an EU contribution of between EUR 4.00 and 5.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
<i>Indicative budget</i>	The total indicative budget for the topic is EUR 20.00 million.
<i>Type of Action</i>	Innovation Actions

<i>Eligibility conditions</i>	<p>The conditions are described in General Annex B. The following exceptions apply:</p> <p>In order to achieve the expected outcomes, and safeguard the Union’s strategic assets, interests, autonomy, and security, it is important to avoid a situation of technological dependency on a non-EU source, in a global context that requires the EU to take action to build on its strengths, and to carefully assess and address any strategic weaknesses, vulnerabilities and high-risk dependencies which put at risk the attainment of its ambitions. For this reason, participation is limited to legal entities established in Member States, Iceland and Norway and the following additional associated countries: Canada, Israel, the Republic of Korea, New Zealand, Switzerland, and the United Kingdom.</p> <p>For the duly justified and exceptional reasons listed in the paragraph above, in order to guarantee the protection of the strategic interests of the Union and its Member States, entities established in an eligible country listed above, but which are directly or indirectly controlled by a non-eligible country or by a non-eligible country entity, may not participate in the action unless it can be demonstrated, by means of guarantees positively assessed by their eligible country of establishment, that their participation to the action would not negatively impact the Union’s strategic assets, interests, autonomy, or security. Entities assessed as high-risk suppliers of mobile network communication equipment within the meaning of ‘restrictions for the protection of European communication networks’ (or entities fully or partially owned or controlled by a high-risk supplier) cannot submit guarantees.<sup>214</sup></p>
<i>Technology Readiness Level</i>	Activities are expected to start at TRL 4 and achieve TRL 6 by the end of the project – see General Annex B.

**Expected Outcome:** Project results are expected to contribute to at least one of the following expected outcomes:

- Realistic, creative and innovative characters, user-tailored artefacts, and Virtual Worlds for a better immersion and significantly improved user experience.

# Výzvy 2026

HORIZON-CL4-2026-04 | 15 TÉM

HORIZON-CL4-2026-05 | 3 TÉMY

OTVORENIE | 15. JANUÁR 2026

UZÁVIERKA | 15. APRÍL 2026



CL4-2026-04



CL4-2026-05

# Výzvy 2027



**CL4-2027-04**

**HORIZON-CL4-2027-04 | 11 TÉM**

**HORIZON-CL4-2027-05 | 1 TÉMA**

**OTVORENIE | 17. NOVEMBER 2026**

**UZÁVIERKA | 18. MAREC 2027**



**CL4-2027-05**

# Destinácia

ROZVOJ AGILNÉHO A BEZPEČNÉHO  
JEDNOTNÉHO TRHU A INFRAŠTRUKTÚRY  
PRE DÁTOVÉ SLUŽBY A DÔVERYHODNÉ  
SLUŽBY UMELEJ INTELIGENCIE

**DATA**

# Destinácia: DATA



*Dôveryhodná, interoperabilná a vysokovýkonná dátová ekonomika s umelou inteligenciou v jej jadre*

- ✓ **Otvorený Internet Stack**
- ✓ **Efektívny a regulačne vhodný prístup k dátam**
- ✓ **AI-ready dátové infraštruktúry**
- ✓ **Federované a interoperabilné dátové ekosystémy**
- ✓ **Edge & Cloud AI suverenita**
- ✓ **3C (Connected Collaborative Computing)**

data trust compliance open source  
3C architecture data economy  
federated data  
edge AI GDPR data ecosystems interoperability

# Destinácia DATA

ID	Názov	Rozpočet	Projekty
HORIZON-CL4-2027-04-DATA-03	<u>Nové prístupy k decentralizovanému, federovanému a udržateľnému spracovaniu dát pre umelú inteligenciu (RIA)</u>	35 mil. EUR	2
HORIZON-CL4-2027-04-DATA-09	<u>Energetická efektívnosť a udržateľnosť spracovania dát pre umelú inteligenciu v dátových centrách (IA)</u>	39 mil. EUR	3
HORIZON-CL4-2027-04-DATA-08	<u>Pilotné demonštrátory na strane používateľov pre 3C na konvergovanej infraštruktúre Telco Edge Cloud (IA)</u>	38 mil. EUR	2

# Destinácia

DOSIAHNUTIE OTVORENEJ STRATEGICKEJ AUTONÓMIE  
V DIGITÁLNYCH A NOVOVZNIKAJÚCICH POKROČILÝCH  
TECHNOLÓGIÁCH

**DIGITAL-EMERGING**

# Destinácia: DIGITAL-EMERGING



*Posilniť európsku technologickú suverenitu a vybudovať nové generácie digitálnych a pokročilých technológií, ktoré budú otvorené, dôveryhodné a udržateľné*

- ✓ **Pokročilé digitálne technológie:** umelá inteligencia, kvantové technológie, fotonika, mikroelektronika, robotika
- ✓ **Európska technologická autonómia** v kľúčových oblastiach (AI, čipy, kvantové platformy)
- ✓ **Open-source a otvorené štandardy**
- ✓ **Výskum a vývoj pre nové generácie digitálnych architektúr**
- ✓ **Experimentálne platformy a testovacie infraštruktúry**
- ✓ **Prepojenie digitálnych technológií s priemyselnými aplikáciami**

quantum stack   soft robotics  
trustworthy AI   AI tooling  
generative AI   hybrid computing  
AI testing   standardisation  
robotics   post-exascale  
risk assessment

# Destinácia DIGITAL-EMERGING

ID	Názov	Rozpočet	Projekty
HORIZON-CL4-2027-04-DIGITAL-EMERGING-11	<u>Iniciatíva EÚ pre Frontier AI: Vývoj pokročilých riešení umelej inteligencie, ktoré sú bezpečné a výpočtovo efektívne v rámci Apply AI (RIA)</u>	44 mil. EUR	1
HORIZON-CL4-2027-04-DIGITAL-EMERGING-05	<u>Apply AI: Robotika riadená umelou inteligenciou pre priemysel – podpora systémovej integrácie a zavádzania (IA)</u>	18 mil. EUR	1
HORIZON-CL4-2027-04-DIGITAL-EMERGING-06	<u>Medzinárodná spolupráca v oblasti umelej inteligencie (IA)</u>	3 mil. EUR	2
HORIZON-CL4-2027-04-DIGITAL-EMERGING-10	<u>Horizontálne monitorovanie trendov a foresight v budúcich enabling digitálnych technológiách(CSA)</u>	4 mil. EUR	1
HORIZON-CL4-2027-04-DIGITAL-EMERGING-04	<u>Apply AI: Challenge-Driven AI Innovation Booster v prioritných sektoroch Apply AI (RIA)</u>	42 mil. EUR	3
HORIZON-CL4-2027-05-DIGITAL-EMERGING-03	<u>Pokročilé integrované fotonické zariadenia s rozšírenými funkciami a ultra nízkou spotrebou energie (RIA)</u>	25 mil. EUR	6

# Destinácia

DIGITÁLNE A PRIEMYSELNÉ  
TECHNOLÓGIE PODPORUJÚCE  
INOVÁCIU ZAMERANÚ NA ČLOVEKA

**HUMAN**

# Destinácia: HUMAN



Technológie, ktoré rešpektujú ľudské potreby, podporujú inkluzívne digitálne prostredie a umožňujú bezpečnú, etickú a používateľsky orientovanú inováciu

- ✓ **Ľudsky orientované digitálne technológie**
- ✓ **Web 4.0 a virtuálne svety**
- ✓ **Interoperabilné a otvorené prostredia pre digitálnu interakciu**
- ✓ **Digitálna inklúzia a prístupnosť**
- ✓ **Bezpečné a dôveryhodné rozhrania človek–technológia**
- ✓ **Štandardizácia digitálnych technológií a používateľských rozhraní**

user rights digital identity  
decentralisation commons  
interoperability open standards  
virtual worlds XR inclusiveness  
open internet Web 4.0

# Destinácia HUMAN

ID	Názov	Rozpočet	Projekty
HORIZON-CL4-2027-04-HUMAN-01	<u>Pokročilé a inovatívne hardvérové komponenty pre virtuálne svety (RIA)</u>	39 mil. EUR	8
HORIZON-CL4-2027-04-HUMAN-02	<u>Vytvorenie prosperujúceho a konkurencieschopného ekosystému virtuálnych svetov a Web 4.0 (CSA)</u>	3 mil. EUR	1
HORIZON-CL4-2027-04-HUMAN-07	<u>Podpora zapojenia európskych stakeholderov do medzinárodnej digitálnej štandardizácie (CSA)</u>	7 mil. EUR	1

# Kde nájsť kaskádové výzvy?



European Commission | EU Funding & Tenders Portal

Home > Funding > Calls for proposals

## Calls for proposals

Calls for proposals are funding opportunities issued by the European Union institutions, agencies and bodies. These are direct financial contributions, known as grants, that are party beneficiaries (e.g., research organisations, public entities, non-governmental organisations, and private companies) to engage in activities that serve EU policies.

[More details](#)

**Filters** 108 item(s) found

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Call

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**TYPE OF GRANTS CALLS**

- Direct calls for proposals (issued by the EU)
- EU External Actions
- Calls for funding in cascade (issued by funded projects) **108**

**PROGRAMMING PERIOD**

- 2021 - 2027 **99**
- 2014 - 2020 **9**

**PROGRAMME**

Filter...

- Horizon Europe (HORIZON) **59**
- Single Market Programme (SMP) **29**
- Horizon 2020 Framework Programme (H2020 - 2014-2020) **9**
- Digital Europe Programme (DIGITAL) **6**
- Creative Europe Programme (CREA) **3**

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**European Partnership on Innovative SMEs/Eurostars: joint transnational call for proposals (CALL 7 of Eurostars-3)**  
InnovativeSMEs | Cascade funding  
Opening date: 12 July 2024 | Next deadline: 12 September 2024 | Single-stage  
Programme: **Horizon Europe (HORIZON)** | Type of action: -

**Western Balkans Innovation Voucher**  
POLICY ANSWERS | Cascade funding  
Opening date: 12 April 2024 | Next deadline: 26 June 2024 | Single-stage  
Programme: **Horizon Europe (HORIZON)** | Type of action: -

**VOXReality Open Call**  
VOXReality | Cascade funding  
Opening date: 05 April 2024 | Next deadline: 05 June 2024 | Single-stage  
Programme: **Horizon Europe (HORIZON)** | Type of action: -



## Horizon Europe Cluster 4 Digital Matchmaking Platform

[Register now](#)



Registration open until 31 Dec 2026

### Welcome to the matchmaking platform for Horizon Europe Cluster 4 Digital Calls 2026!

*Find your collaboration partners for EU projects in the digital domain of Cluster 4 here!*

# Želám úspešné projekty!

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