

# HORIZONT EURÓPA 2026–27. ÉVI PÁLYÁZATI FELHÍVÁSOK

magyar érdeklődők részére

AI ESZKÖZÖK

GENERATÍV AI

TÁRSADALMI ÉS SZEKTORÁLIS KIHÍVÁSOK



**Csesznok Flóra**  
4. klaszter NCP

Pivarcsiné Fekete Dóra – 2. klaszter NCP

Kiss Barbara – 5. klaszter NCP

Genzler Noémi – EIC NCP

Kürti Zsuzsanna – 1. klaszter NCP



2026. február 18. 10:00–11:00



**MINDEN SZERDÁN**  
10-11 óra között

REGISZTRÁCIÓ:  
[horizonteuropa.nkfi.gov.hu](https://horizonteuropa.nkfi.gov.hu)



NEMZETI KUTATÁSI, FEJLESZTÉSI  
ÉS INNOVÁCIÓS HIVATAL



NCP Hungary – [Horizon Europe](#)



Horizont [Europa](#) NCP [Magyarország](#)

# NKFIH INTENZÍV FELKÉSZÍTŐ PROGRAM A HORIZONT EURÓPA KERETPROGRAM FELHÍVÁSAIRA



Forduljon hozzánk:  
[ncp@nkfi.gov.hu](mailto:ncp@nkfi.gov.hu)



Genzler Noémi



Pivarcsiné Fekete Dóra



Csesznok Flóra



#NCP Hungary Horizon Europe  
#Horizont Europa NCP Magyarország



Kürti Zsuzsanna



Kiss Barbara

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**Horizont Európa  
2026-2027  
felhívások**  
Intenzív felkészítő  
program



dr. Schenk Borbála



Tóth Orsolya



Borza Beatrix



Tóth Orsolya



Schultheisz Máté



Dr. Józson Mónika

Pályázati lehetőségek, konzorciumi partnerkeresés - **Szakértőink segítenek!**

- A releváns felhívások azonosítása és személyre szabott pályázati tervek elkészítése
- Értékajánlat (value offer) kidolgozása a megfelelő konzorciumi partnerek azonosításának támogatása érdekében
- Célzott szakmai támogatás kutatómenedzsereinek részére
- HORIZONTPÉNTÉK10 webinár sorozat – heti webináriumok a program aktuális fejleményeiről
- Új [horizonteuropa.nkfi.gov.hu](http://horizonteuropa.nkfi.gov.hu) weboldal (hamarosan elérhető)
- Heti Horizont Európa hírlevél
- [Horizont Európa NCP Magyarország](#) és [Horizon Europe NCP Hungary](#) – információs LinkedIn-csatornák

# A HORIZONT EURÓPA PROGRAM FELÉPÍTÉSE



## Pillar 1 EXCELLENT SCIENCE

European Research Council

Marie Skłodowska-Curie Actions

Research Infrastructures



## Pillar 2 GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

European Research Council

1. **Health**
2. **Culture, Creativity and Inclusive Society**
3. **Civil Security for Society**
4. **Digital, Industry and Space**
5. **Climate, Energy and Mobility**
6. **Food, Bioeconomy, Natural Resources, Agriculture and Environment**



## Pillar 3 INNOVATIVE EUROPE

European Innovation Council

European Innovation Ecosystems

European Institute  
of Innovation and Technology

## WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation and spreading excellence

Reforming and Enhancing the European R&I system



**PÁLYÁZATI LEHETŐSÉGEK A 4. KLASZTER MUNKAPROGRAMBAN**  
**Ipar, Űr, Digitalizáció**

# Horizont Európa 4. klaszter

## Digitális terület

### 2. DESZTINÁCIÓ:

#### DATA

(6 db felhívás)

- Rugalmas és biztonságos egységes piac és infrastruktúra kialakítása az adatszolgáltatások és a megbízható mesterséges intelligencia szolgáltatások számára
- **Főbb témák:** adatrendszerek, adatszabályozás, mesterséges intelligencia, kommunikációs hálózatok

### 3. DESZTINÁCIÓ:

#### DIGITAL EMERGING

(20 db felhívás)

- Nyílt stratégiai autonómia elérése a digitális és új, lehetőségeket teremtő technológiák területén
- **Főbb témák:** hardver- és szoftverfejlesztés, robotika, kvantumtechnológia, fotonika, mesterséges intelligencia

### 5. DESZTINÁCIÓ:

#### HUMAN

(5 db felhívás)

- Az emberközpontú innovációt előmozdító digitális és ipari technológiák
- **Főbb témák:** start-upok és kkv-k támogatása, virtuális világok inkluzivitása, technológiák társadalmi hasznosítása

16:34:52:10

19:54:09:22

20:29:53:10





# Accelerating the discovery and development of chemicals and innovative advanced materials through digitalisation and artificial intelligence

HORIZON-CL4-2026-01-MAT-PROD-23

Program:	<b>Horizon Europe Cluster 4</b>
Típus:	<b>Innovation Action</b>
TRL szint:	<b>7</b>
Támogatás projektenként:	<b>13M EUR</b>
Támogatott projektek száma:	<b>4</b>
Pályázati felület megnyílik:	<b>6 January 2026</b>
Beadási határidő:	<b>21 April 2026</b>
Felhívás linkje:	<a href="#">LINK</a>

Proposals should accelerate the pathway to market of new substances (chemicals or advanced materials) with superior or novel functionalities. This can be achieved with novel tools or proofs of concept using digital methods to accelerate development of new materials and demonstration of their properties. Where possible this should explore collaboration with other initiatives such as the Materials Commons for Europe or DIGIPASS, contributing data, modelling, digital tools applicable to the design, development, production, manufacturing, use and end of life phases, which connect to repeatable workflows. These workflows and tools may include the use of artificial intelligence as well as self-driving labs and their interconnection and design of experiment/design of simulation methods. They should also drive innovation in risk assessment, new test methods and support and facilitate the operationalisation and use of the SSbD framework. Projects should include demonstrators which help to validate the materials development in realistic conditions.

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# Next-Generation AI Agents for Real-World Applications in the ApplyAI sectors (Partnership in AI, Data and Robotics)

HORIZON-CL4-2026-05-DIGITAL-EMERGING-02

Program:	<b>Horizon Europe Cluster 4</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>5</b>
Támogatás projektenként:	<b>19M EUR</b>
Támogatott projektek száma:	<b>2</b>
Pályázati felület megnyílik:	<b>2026 január 15</b>
Beadási határidő:	<b>2026 április 15</b>

Felhívás linkje: [LINK](#)

Key aspects in designing effective AI agents include robust planning, reasoning, and search mechanisms that allow agents to approach complex tasks by breaking them down into structured subgoals.

Potential research areas include enhancing AI agent autonomy through advanced self-planning and self-optimization capabilities, enabling agents to improve their decision-making and strategic planning. Other research directions include innovation in memory-augmented LLM agents to facilitate robust long-term reasoning and lifelong learning; developing advanced multi-agent frameworks specifically tailored for collaborative agents, including research on AI agent frameworks based on mixed AI architectures, and advancing multimodal reasoning capabilities to enable real-world applications.

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# Apply AI: Next-Generation Agile and Intelligent Robotics Platforms for Industrial and Service Applications (Partnership in AI, Data and Robotics)

## HORIZON-CL4-2026-05-DIGITAL-EMERGING-03

Program:	<b>Horizon Europe Cluster 4</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>5</b>
Támogatás projektenként:	<b>12-13M EUR</b>
Támogatott projektek száma:	<b>2</b>
Pályázati felület megnyílik:	<b>2026 január 15</b>
Beadási határidő:	<b>2026 április 15</b>

Felhívás linkje: [LINK](#)

Proposals should target robotic systems addressing high impact needs in strategic industrial and service sectors. These systems should focus on enhanced mobility, autonomy, and simplified control architectures to support safe, efficient, and flexible operation. Integration of advanced sensors is essential to enable reliable human-robot interaction, especially in rare or unpredictable safety-critical scenarios, addressing current limitations of AI in such contexts. They should also include the design of secure and efficient communication protocols to ensure interoperability between robotic systems and digital frameworks or multi-agent environments. To ensure practical uptake, projects are expected to demonstrate clear pathways to scalability and commercial deployment, engage with industry partners and end-users for validation, adopt a safety-product approach.

Coordination with HORIZON-CL4-2025-04-DIGITAL-EMERGING-05, focused on soft robotics, is encouraged to maximise impact and ensure complementarity in advancing physical capabilities of next-generation robotic systems.

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# Robotics for Manufacturing: Advancing Core Skills through Technical Challenges (Partnership in AI, Data and Robotics)

HORIZON-CL4-2026-04-DIGITAL-EMERGING-08

The proposed project aims to significantly enhance robotics capabilities in manufacturing by developing advanced robotics. By leveraging the use of next-generation AI, including generative AI, to enable robots to better adapt to real-world environments and interact with human operators, and focusing on reconfigurability, the project will develop industry-agnostic solutions that can be easily adapted to different manufacturing environments. One of the key use cases for this project will be the automotive industry, where advanced robotics can significantly enhance production efficiency and adaptability.

The project will create a comprehensive framework for robotics skills development in manufacturing, including the initial definition of three technical challenges that must be clearly described at proposal stage, with evidence of their industrial relevance and potential impact. The project will organize a multi-stage competition for each of the three identified technical challenges.

Program:	<b>Horizon Europe Cluster 4</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>5</b>
Támogatás projektenként:	<b>18M EUR</b>
Támogatott projektek száma:	<b>1</b>
Pályázati felület megnyílik:	<b>2026 január 15</b>
Beadási határidő:	<b>2026 április 15</b>

Felhívás linkje: [LINK](#)

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# Advanced local digital twins using AI for Early warning and preparedness

HORIZON-CL4-2026-04-DIGITAL-EMERGING-09

Program:	<b>Horizon Europe Cluster 4</b>
Típus:	<b>Innovation Action</b>
TRL szint:	<b>7</b>
Támogatás projektenként:	<b>6M EUR</b>
Támogatott projektek száma:	<b>1</b>
Pályázati felület megnyílik:	<b>2026 január 15</b>
Beadási határidő:	<b>2026 április 15</b>

Felhívás linkje: [LINK](#)

Local Digital Twins will be built for floods preparedness, to estimate areas at risk and potential damage. No rigid functions are to be used, but by more dynamic set of descriptive features of buildings that can be sourced from digital models (such as geometrical parameters, urban morphology and socio-economic values). High-resolution hazard models (hydrological and hydraulic models) of the local area.

The solutions will leverage AI algorithms to model river systems (including hydrological and hydraulic processes) in areas near cities taking into account detailed terrain info. This approach aims to simulate and predict the damage processes in urban areas caused by disaster-prone scenarios, such as heavy rainfall impacting nearby river basins.

All the results are to be open source as much as possible and transferable to low-income countries through open platforms.

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# AI improved advanced manufacturing and production processes in factories (Made in Europe and AI, Data and Robotics partnerships)

## HORIZON-CL4-2026-02-DIGITAL-EMERGING-51 -two-stage

Program:	<b>Horizon Europe Cluster 4</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>6</b>
Támogatás projektenként:	<b>4-6M EUR</b>
Támogatott projektek száma:	<b>5-7</b>
Pályázati felület megnyílik:	<b>2025 december 16</b>
Beadási határidő:	<b>2026 március 17</b> <b>2026. október 13</b>

Felhívás linkje: [LINK](#)

New solutions based on innovative enabling technologies such as deep learning, large language models, digital twins, synthetic data, and data-driven models allow manufacturers to improve production system efficiency, elevate product quality, and proactively address critical challenges in energy consumption and carbon footprint. Proposals should produce dedicated innovative explainable AI based solutions in advanced manufacturing for at least two of the following:

- improve processes and operational efficiency and reduce environmental impact of processes and factories through dynamic optimal process and production parameter selection exploiting AI for process modelling and/or for optimisation.
- avoid the production of defective parts using AI to detect process drift and anomalies and correct proactively defects in real time; and
- maximise the fraction of regenerated components or materials used in the production using AI to optimize the material flow.

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# Innovative AI methods and technologies for the process industries (Processes4Planet and AI, Data and Robotics partnerships)

HORIZON-CL4-2026-02-DIGITAL-EMERGING-53 **-two-stage**

Program:	<b>Horizon Europe Cluster 4</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>6</b>
Támogatás projektenként:	<b>4-6M EUR</b>
Támogatott projektek száma:	<b>2-3</b>
Pályázati felület megnyílik:	<b>2025 december 16</b>
Beadási határidő:	<b>2026 március 17</b> <b>2026. október 13</b>

Felhívás linkje: [LINK](#)

Drastically improved AI methods and technologies hold transformative potential for the process industries, enabling advancements in process design, operational efficiency, and faster innovation across the entire lifecycle of plants and products. By using different AI approaches such as multimodal generative AI, foundation models, and agentic AI, the industry can move beyond conventional AI applications as e.g. predictive maintenance and quality control toward more intelligent, adaptive, and creative solutions.

Proposals should produce dedicated innovative AI-based solutions for the process industry for one of the following scopes:

- More effective and faster development of new materials and processes
- Competitive and sustainable production, reducing the negative environmental impact of industry
- Reduction of risks for the health of the workforce and for the environment and making workplaces in the process industries more attractive.

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# EU Frontier AI Initiative: Developing frontier AI solutions that are safe and computationally efficient within Apply AI

HORIZON-CL4-2027-04-DIGITAL-EMERGING-11

Program:	<b>Horizon Europe Cluster 4</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>4</b>
Támogatás projektenként:	<b>44M EUR</b>
Támogatott projektek száma:	<b>1</b>
Pályázati felület megnyílik:	<b>2026 november 17</b>
Beadási határidő:	<b>2027 március 18</b>

Felhívás linkje: [LINK](#)

Ensuring the safety of AI systems is essential, especially as AI models become increasingly sophisticated and pervasive. Potential research areas to be considered include addressing misalignment, particularly the unintentional misalignment of large AI models. Research could explore methods to detect and mitigate sophisticated misbehaviour, such as alignment faking, reward hacking of human oversight, and encoded reasoning in chain-of-thought (CoT). Additionally, research could focus on enhancing robustness against adversarial attacks, jailbreaks, and backdoors. Further potential areas include advancing transparency and interpretability of models through white-box techniques, activation monitoring, and externalization of model reasoning, significantly contributing to the trust and safe adoption of powerful AI solutions.

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# Apply AI: Challenge-Driven AI Innovation Booster in Apply AI prioritised sectors (Partnership in AI, Data and Robotics)

## HORIZON-CL4-2027-04-DIGITAL-EMERGING-04

Program:	<b>Horizon Europe Cluster 4</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>5</b>
Támogatás projektenként:	<b>14M EUR</b>
Támogatott projektek száma:	<b>4</b>
Pályázati felület megnyílik:	<b>2026 november 17</b>
Beadási határidő:	<b>2027 március 18</b>

Felhívás linkje: [LINK](#)

The Challenge-Driven AI Innovation Booster aims to drive significant technological progress and innovation in Apply AI prioritised sectors through challenge-oriented, AI-powered solutions. This initiative seeks to boost Europe's developer community and the adoption of powerful, trustworthy AI solutions in four strategic domains such as:

- Healthcare: advanced AI will accelerate diagnostics and treatment plans, enhance robotic surgery, and improve patient care through predictive analytics.
- Manufacturing: advanced AI will optimize production processes, improve quality control and product design, and enable predictive maintenance.
- Autonomous driving: advanced AI will enhance vehicle safety, improve navigation systems, and optimize traffic management.
- Environment and climate change: advanced AI can will aid in climate modelling, enhance resource management, and improve disaster response strategies.

Each proposal should focus exclusively on one of the four key sectors mentioned above.

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# International cooperation in AI

## HORIZON-CL4-2027-04-DIGITAL-EMERGING-06

Cooperation through EU initiatives to strengthen local AI ecosystems in African countries fostering responsible AI development, north-south digital cooperation on AI, and sustainable AI innovation. Proposals should contribute to a smart, clean, and secure digital infrastructure by enabling AI technologies that are locally relevant and sustainable, empowers local actors and reflects the EU's emphasis on partner-driven development

The proposals will support international developing on AI by:

- Support the gathering and access to local data in line with EU's data strategy for the training and optimisation of existing AI algorithms developed in initiatives like AI for Public Good and GenAI for Africa.
- Establishment and support of Living Labs within local innovation hubs in low-income countries, fostering co-creation spaces.
- Tailored and contextualized AI-based solutions developed through a bottom-up approach, driven by the specific needs of low-income communities.

Program: **Horizon Europe  
Cluster 4**

Típus: **Research & Innovation  
Action**

TRL szint: **7**

Támogatás projektenként: **1,5M EUR**

Támogatott projektek száma: **2**

Pályázati felület megnyílik: **2026 november 17**

Beadási határidő: **2027 március 18**

Felhívás linkje: [LINK](#)

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# New approaches for Human/AI collaboration for the workforce of the future (Made in Europe and AI, Data and Robotics partnerships)

HORIZON-CL4-2027-02-DIGITAL-EMERGING-52-two-stage

Program:	<b>Horizon Europe Cluster 4</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>6</b>
Támogatás projektenként:	<b>4-6M EUR</b>
Támogatott projektek száma:	<b>5-7</b>
Pályázati felület megnyílik:	<b>2026 szeptember 22</b>
Beadási határidő:	<b>2027 február 2</b> <b>2027 szeptember 2</b>

Felhívás linkje: [LINK](#)

Proposals should produce dedicated innovative AI approaches for human-machine collaboration in advanced manufacturing to be applied in at least two of following fields:

- Human-AI Co-Learning and knowledge capture to share competences, capture expert knowledge, , interactive mentoring to up-skill the workforce, support re-qualification and continuous training, leading to increased knowledge at factory level and avoiding loss of know-how
- Human-AI teamwork thanks to and innovative natural interaction models, enabling to control complexity in cognitive cooperating production systems, including planning activities at shop floor level.
- Interfaces with automation which automatically adapt to the need of the humans including different abilities and different cultural needs.

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# New approaches for decentralized, federated and sustainable AI data processing

HORIZON-CL4-2027-04-DATA-03

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

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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**PÁLYÁZATI LEHETŐSÉGEK A HORIZONTÁLIS MUNKAPROGRAMBAN**  
**Resource for AI Science in Europe (RAISE)**

# Horizont Európa 4. klaszter

## Digitális terület

### RAISE

Resource for AI Science in Europe  
(5 db felhívás)

- A RAISE egy virtuális európai intézet, amely összegyűjti és koordinálja a mesterséges intelligencia alapvető erőforrásait az EU tagállamaiban, hogy előmozdítsa mind a mesterséges intelligencia határterületének fejlesztését, a mesterséges intelligenciával támogatott tudományos fejlődést, és átalakító tudományos eredményeket érjen el.
- **Főbb témák:**  
témakörök szerinti kiválósági hálózatok létrehozása, automatizált tudományos felfedezések az anyagtudomány és az élelmiszertudomány területén





# Thematic Networks of Excellence for AI in Science (RAISE pilot)

HORIZON-RAISE-2026-01-01

Program:	<b>Horizon Europe Horizontal</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>4-5</b>
Támogatás projektenként:	<b>15M EUR</b>
Támogatott projektek száma:	<b>1</b>
Pályázati felület megnyílik:	<b>2026 január 06</b>
Beadási határidő:	<b>2026 április 21</b>

Felhívás linkje: [LINK](#)

The aim of this topic is to establish networks of excellent labs across Europe, dedicated to collaborative research using AI in strategic and promising scientific areas or domains, piloting RAISE and aligning research efforts.

The selected consortia will be composed of leading European research labs in the thematic area with strong experience in applying AI in the research process. At least half the members of the consortium should have a proven track record of developing innovative AI solutions for scientific research. Each network of excellence will be dedicated to the application of AI to scientific research in a specific thematic area or scientific discipline.

A thematic network of excellence for AI in materials science is proposed (Cluster 4).

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# Thematic Networks of Excellence for AI in Science – Agriculture and Environment (RAISE pilot)

HORIZON-RAISE-2026-01-02

Program:	<b>Horizon Europe Horizontal</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>4-5</b>
Támogatás projektenként:	<b>13M EUR</b>
Támogatott projektek száma:	<b>1</b>
Pályázati felület megnyílik:	<b>2026 január 06</b>
Beadási határidő:	<b>2026 április 21</b>

Felhívás linkje: [LINK](#)

The aim of this topic is to establish a network of excellent labs across Europe, dedicated to collaborative research using AI in strategic and promising scientific areas or domains, piloting RAISE and aligning research efforts.

The selected consortium will be composed of leading European research labs in the thematic area with strong experience in applying AI in the research process. At least half the members of the consortium should have a proven track record of developing innovative AI solutions for scientific research. Consortia are welcome to involve expertise in Social Sciences and Humanities in their proposal as they see fit to achieve the objectives.

The network of excellence will be dedicated to the application of AI to scientific research in agricultural sciences and environmental pollution sciences (Cluster 6).

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# Automated Scientific Discovery (RAISE pilot)

HORIZON-RAISE-2027-01-01

Program:	<b>Horizon Europe Horizontal</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>5</b>
Támogatás projektenként:	<b>10M EUR</b>
Támogatott projektek száma:	<b>3</b>
Pályázati felület megnyílik:	<b>2026 szeptember 22</b>
Beadási határidő:	<b>2027 február 02</b>

Felhívás linkje: [LINK](#)

This topic addresses the development of safe and trustworthy closed loop scientific experimentation systems through the integration of laboratory automation with AI-driven decision-making processes and robust data infrastructures. Funded projects will help scientific labs with an already advanced level of automation and digitalisation to design, develop, and test the intelligence layer that enables scientific instrumentation to semi- or fully autonomously plan, run, and analyse experiments, ideally in coordination/network with other labs and without requiring a complete redesign of existing laboratory outfitting.

Proposals will incorporate comprehensive data management systems capable of handling the collection, storage, processing, and sharing of experimental data.

Proposals should demonstrate how an existing lab can be retrofitted with AI-driven systems to plan, execute, and analyse experiments in a closed-loop fashion, incorporating human oversight and interaction to ensure accuracy, safety, and ethical compliance.

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# Automated Scientific Discovery – Food (RAISE pilot)

HORIZON-RAISE-2027-01-02

Program:	<b>Horizon Europe Horizontal</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	-
Támogatás projektenként:	<b>3M EUR</b>
Támogatott projektek száma:	<b>1</b>
Pályázati felület megnyílik:	<b>2026 november 17</b>
Beadási határidő:	<b>2027 március 18</b>

Felhívás linkje: [LINK](#)

This topic addresses the development of safe and trustworthy closed loop scientific experimentation systems through the integration of laboratory automation with AI-driven decision-making processes and robust data infrastructures. The funded project will help scientific labs with an already advanced level of automation and digitalisation to design, develop, and test the intelligence layer that enables scientific instrumentation to semi- or fully autonomously plan, run, and analyse experiments, ideally in coordination/network with other labs and without requiring a complete redesign of existing laboratory outfitting.

Proposals should demonstrate how an existing lab can be retrofitted with AI-driven software systems to plan, execute, and analyse experiments in a closed-loop fashion, incorporating human oversight and interaction to ensure accuracy, safety, and ethical compliance.

Impact areas of automated experimentation in biomass and precision fermentation could include the development of alternative protein sources in food production and alternative fats, bio-based materials, specialty carbohydrates, biotechnologies in food systems (such as biochemicals, microbial cultures, etc), food ingredients.

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# RAISE Doctoral Networks for AI in Science (RAISE pilot)

HORIZON-RAISE-2026-01-03

Program:	<b>Horizon Europe Cluster 4</b>
Típus:	<b>Coordination &amp; Support Action</b>
TRL szint:	-
Támogatás projektenként:	<b>7M EUR</b>
Támogatott projektek száma:	<b>1</b>
Pályázati felület megnyílik:	<b>2026 január 06</b>
Beadási határidő:	<b>2026 április 21</b>

Felhívás linkje: [LINK](#)

This action builds on the MSCA Doctoral Networks 2026 call (HORIZON-MSCA-DN-2026). Successful RAISE Doctoral Networks and doctoral candidates will be associated with RAISE, the Resource for AI Science in Europe. They will become part of the RAISE research community and will interact with its other members.

Doctoral candidates are to either develop or significantly participate in the development of innovative AI systems, models, tools or methodologies for their scientific domain. These systems, models, tools or methodologies must substantially innovate the way in which scientific information is analysed and enable a scientific contribution that furthers the state of the art in the discipline of the doctoral research.

In order to apply for the RAISE Doctoral Networks call, applicants must submit their proposal to the Marie Skłodowska-Curie actions (MSCA) Doctoral Networks 2026.

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**PÁLYÁZATI LEHETŐSÉGEK AZ 1. KLASZTER MUNKAPROGRAMBAN**  
**Egészségügy**



# Identifying and Addressing Low-Value Care in Health and Care Systems

HORIZON-HLTH-2026-01-CARE-03

Program: **Horizon Europe  
Cluster 1**

Típus: **Research and  
Innovation Actions**

TRL szint: **nem releváns**

Támogatás projektenként: **10 M EUR**

Támogatott projektek száma: **5**

Pályázati felület megnyílik: **2026.02.10.**

Beadási határidő: **2026.04.16.**

Felhívás linkje:

[LINK](#)

This topic aims at supporting activities that are enabling or contributing to one or several expected impacts of destination “Ensuring equal access to innovative, sustainable, and high-quality healthcare”. To that end, proposals under this topic should aim to deliver results directed towards and contributing to all the following expected outcomes:

- Healthcare professionals, at all stages of healthcare provision, have access to user-centric, robust and trustworthy virtual assistant solutions based on Generative Artificial Intelligence (AI) models and other AI tools to support them towards the provision of safer, more efficient and personalised care.
- Healthcare professionals benefit from cross-country applicable methodologies with the aim to facilitate acceptability, healthcare uptake and public trust of virtual assistant tools based on Generative AI models.
- Patients benefit from enhanced outcomes, more personalised care, and increased engagement with their healthcare professionals, leading to improved safety, quality of care, access to appropriate healthcare information and patient-doctor communication.
- Healthcare systems benefit from improved cost-effective patient outcomes, superior to standard of care in terms of accuracy, safety, and quality, and from cost-savings through advancements in highly accurate, transparent, traceable, and explainable solutions.

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# Regulatory science to support translational development of patient-centred health technologies

HORIZON-HLTH-2026-01-IND-03

Program:	<b>Horizon Europe Cluster 1</b>
Típus:	<b>Research and Innovation Actions</b>
TRL szint:	<b>nem releváns</b>
Támogatás projektenként:	<b>4 - 6 M EUR</b>
Támogatott projektek száma:	<b>4</b>
Pályázati felület megnyílik:	<b>2026.02.10.</b>
Beadási határidő:	<b>2026.04.16.</b>

Felhívás linkje:

[LINK](#)

Proposals can cover all types of health technologies, aiming to define improved and novel sources of evidence with proven relevance for regulatory decision-making with a focus on safety and performance throughout their lifecycle, i.e. throughout the continuous process of clinical evaluation. To this end, proposals should address either, or a combination of the following: i) the improvement of existing methodologies and their fitness to specific types or classes of health technologies, including methodology for regulatory assessment and ii) explore and examine to which extent novel information sources as indicated above can be considered as evidence that is satisfactory in view of regulatory needs concerning safety and performance.

Proposals should support the update and refinement of regulatory science on health technologies and contribute actionable information that can be used for improved or novel regulatory policies, rules, guidance documents and other tools with a view to ensuring that European patients and healthcare professionals have access to safe and effective innovative health technologies. Proposals should ultimately contribute to a regulatory environment that makes use of the full spectrum of novel biomedical and bio-digital approaches for clinical investigation and evaluation, while promoting a patient-centred approach to health technology innovation, facilitating the timely entry to market of performant and effective innovations and support their uptake in the health systems and clinical workflows without compromising patient safety.

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# Integrating New Approach Methodologies (NAMs) to advance biomedical research and regulatory testing

HORIZON-HLTH-2026-01-TOOL-03

Program:	<b>Horizon Europe Cluster 1</b>
Típus:	<b>Research and Innovation Actions</b>
TRL szint:	<b>nem releváns</b>
Támogatás projektenként:	<b>5 - 8 M EUR</b>
Támogatott projektek száma:	<b>7</b>
Pályázati felület megnyílik:	<b>2026.02.10.</b>
Beadási határidő:	<b>2026.04.16.</b>

Felhívás linkje:

[LINK](#)

Proposals under this topic should aim to deliver results that are directed at, tailored towards and contributing to several of the following expected outcomes:

- Researchers are in possession of improved human-relevant New Approach Methodologies (NAMs) platforms that capture the genetic, phenotypic, age-related, immune, microbiome, and environmental exposure variability of the human population. These innovations support more equitable healthcare solutions and personalised treatment strategies across diverse life stages.
- Industry gets access to platforms that allow a faster pace of innovation for the development of more cost-effective targeted therapeutic interventions and improvement of the safety assessment of chemicals, other medicinal products, and medical devices.
- Patients benefit from innovative platforms and strategies that improve prediction, prevention and treatment of diseases, in particular through enhanced understanding of disease pathways and mechanisms.
- The general population is better protected through a safer environment, as these platforms enhance the detection and mitigation of risks posed by chemicals and other potentially harmful substances.

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# Towards Artificial General Intelligence (AGI) for healthcare

HORIZON-HLTH-2027-03-TOOL-08

Program:	<b>Horizon Europe Cluster 1</b>
Típus:	<b>Coordination and Support Actions</b>
TRL szint:	<b>nem releváns</b>
Támogatás projektenként:	<b>3 M EUR</b>
Támogatott projektek száma:	<b>1</b>
Pályázati felület megnyílik:	<b>2027.06.30.</b>
Beadási határidő:	<b>2027.09.22.</b>

Felhívás linkje:

[LINK](#)

Proposals under this topic should aim to deliver results that are directed at, tailored towards and contributing to all the following expected outcomes:

- Researchers and innovators benefit from an improved understanding of how to develop and use the next generation of frontier Artificial Intelligence (AI) models for healthcare, including how to leverage AI Factories and how to combine and expand the capabilities of existing foundation models towards inclusive and personalised medicine.
- Researchers and innovators benefit from an improved understanding of how to leverage highly heterogeneous and multimodal health data spanning a range of anatomical scales (i.e. the micro to the macro level).
- Multidisciplinary stakeholders have access to a collaboratively created roadmap for developing the next generation of frontier AI models for healthcare, towards Artificial General Intelligence (AGI) for healthcare.

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# Portable and versatile Point-of-care diagnostics

HORIZON-HLTH-2027-02-IND-02-two-stage

Program:	<b>Horizon Europe Cluster 1</b>
Típus:	<b>Innovation Actions</b>
TRL szint:	<b>nem releváns</b>
Támogatás projektenként:	<b>5 - 7 M EUR</b>
Támogatott projektek száma:	<b>6</b>
Pályázati felület megnyílik:	<b>2027.02.10.</b>
Beadási határidő:	<b>2027.04.13.</b>

Felhívás linkje:

[LINK](#)

Proposals under this topic should aim to deliver results that are directed at, tailored towards and contributing to all the following expected outcomes:

- Healthcare professionals dispose of diagnostic tools at the point of care that accelerate therapeutic decision making.
- Patients benefit from fast and accurate diagnosis leading to improved health outcomes.
- Thanks to more efficient diagnosis, health systems will get better evidence for disease control and prevention strategies.

Point-of-Care (PoC) medical testing has made great technical progress (e.g. improved extraction, microfluidics, miniaturisation, and data processing techniques) with PoC test accuracies nearly matching those of lab-based tests. PoC tests may thus be an alternative to laboratory testing methods, enabling faster diagnostic results and therapeutic decision making. However, PoC testing is not always achieving a completely accurate diagnosis and one of the major issues with PoC diagnostics is the occurrence of false results during testing, another one is the often-cumbersome sample preparation. Hence there is a need for PoC diagnostics that are more sensitive, selective and easy-to-use allowing for improved clinical practice.

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# Development of predictive biomarkers of disease progression and treatment response by using AI methodologies for chronic non-communicable diseases

HORIZON-HLTH-2027-02-TOOL-01-two-stage

Program: **Horizon Europe  
Cluster 1**

Típus: **Research and  
Innovation Actions**

TRL szint: **nem releváns**

Támogatás projektenként: **6 - 8 M EUR**

Támogatott projektek száma: **6**

Pályázati felület megnyílik: **2027.02.10.**

Beadási határidő: **2027.04.13.**

Felhívás linkje:

[LINK](#)

Proposals under this topic should aim to deliver results that are directed at, tailored towards and contributing to all the following expected outcomes:

- Clinical researchers and developers have access to novel predictive biomarkers to guide a more accurate assessment of disease progression and treatment response and tackle the unmet clinical needs of non-communicable chronic diseases.
- Clinicians and healthcare professionals use clinically validated predictive biomarkers for implementing more effective clinical research and personalised medicine with better health outcomes in chronic non-communicable diseases.
- Key stakeholders have access to trustworthy Artificial Intelligence (AI) tools to guide the development of multimodal predictive biomarkers of higher accuracy and clinical value when compared to the established practice.
- The citizens benefit of better health outcomes thanks to improved clinical guidelines and the implementation of effective biomarker-guided clinical research and personalised healthcare.

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# **PÁLYÁZATI LEHETŐSÉGEK A RÁK MISSZIÓBAN**



# Virtual Human Twin (VHT) Models for Cancer Research

HORIZON-MISS-2026-02-CANCER-01

Program:	<b>Horizon Europe Cancer Mission</b>
Típus:	<b>Research and Innovation Action</b>
TRL szint:	<b>nem releváns</b>
Támogatás projektenként:	<b>8 - 9 M EUR</b>
Támogatott projektek száma:	<b>4</b>
Pályázati felület megnyílik:	<b>2026 Február 10.</b>
Beadási határidő:	<b>2026 Szeptember 15.</b>
Felhívás linkje:	

[LINK](#)

Proposals under this topic should aim at delivering results that are directed towards and contributing to all of the following expected outcomes:

- Researchers of different disciplines use advanced multiscale Virtual Human Twins (VHTs) to expand the knowledge and understanding of cancer onset and progression
- Healthcare professionals and researchers have access to advanced VHT-based solutions that model cancer onset and progression over time contributing to improve personalised treatments
- Researchers, healthcare professionals, innovators and citizens have access to cancer VHTs through the EU UNCAN.eu and the advanced Virtual Human Twin platforms.(...)

Applicants should take advantage of technological advances in (generative) AI tools which open new opportunities to collect, combine and analyse large datasets of diverse types, including multi-omics patient data, tumour molecular profiles, medical images and real word data.

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# Microbiome for early cancer prediction before onset of disease

HORIZON-MISS-2026-02-CANCER-02

Program: **Horizon Europe  
Cancer Mission**

Típus: **Research and  
Innovation Action**

TRL szint: **nem releváns**

Támogatás projektenként: **15 M EUR**

Támogatott projektek száma: **1**

Pályázati felület megnyílik: **2026 Február 10.**

Beadási határidő: **2026 Szeptember 15.**

Felhívás linkje:

[LINK](#)

Proposals should address all of the following:

- Development of microbiome diagnostics for earlier, better and personalised prediction and prevention of cancer before the onset of the disease if possible 2 years before the onset of the disease. Proposals should deal with several types of cancer if possible.
- Assessments of predispositions, AI risk modelling approaches and organ/body simulations.
- Collaboration with large cohorts/registries from different communities, usage of existing clinical data and generation of new data. These data could include other predictive signs such as sensations of fatigue, unusual pain, weight loss or other body changes.
- Citizen engagement could be included with data and sample collections as well as educational programmes.
- Comparison with other mini-invasive liquid biopsy tests concerning their prediction power, simplicity, cost-benefits and potential for commercialisation.
- Validation of the tests in an independent cohort and development of guidelines that help to manage risk factors such as lifestyle or diet.

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**PÁLYÁZATI LEHETŐSÉGEK A 2. KLASZTER MUNKAPROGRAMBAN**  
**Kultúra, kreativitás és befogadó társadalom**



# AI integration in CCSI work practice: catalysing innovation and competitiveness

HORIZON-CL2-2026-01-HERITAGE-03

Cultural and creative sectors and industries (CCSI) need to fully harness AI's potential to maintain relevance, expand their impact and value, increase competitiveness, and keep their vibrant, inclusive nature. Embracing and co-creating ethical AI solutions tailored to CCSI needs will, among other benefits, enable the automation of low-creativity tasks, allowing to increase focus on high-value activities that enhance creativity and productivity, thus unlocking unprecedented possibilities. Production times and costs can be reduced, market reach expanded, preservation, interpretation and inclusive access to cultural heritage enhanced, and new job categories could emerge.

Program:	<b>Horizon Europe Cluster 2.</b>
Típus:	<b>Innovation Action</b>
TRL szint:	<b>nem releváns</b>
Támogatás projektenként:	<b>4 – 5 M EUR</b>
Támogatott projektek száma:	<b>3</b>
Pályázati felület megnyílik:	<b>2026. május 12.</b>
Beadási határidő:	<b>2026. szeptember 23.</b>

Felhívás linkje:

[LINK](#)

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# Towards a fair and transparent market for cultural and creative content in the era of generative AI

HORIZON-CL2-2026-01-HERITAGE-04

Program:	Horizon Europe Cluster 2.
Típus:	Research and Innovation Action
TRL szint:	nem releváns
Támogatás projektenként:	3 – 4 M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	2026. május 12.
Beadási határidő:	2026. szeptember 23.

Felhívás linkje:

[LINK](#)

Challenges related to the availability of quality data for AI applications and to the accuracy and reliability of cultural content should be investigated and addressed. In particular, the development of Generative AI technologies requires access to vast amounts of content that is often still protected by copyright. One of the challenges in this context is linked to the difficulty to identify copyrighted works, rightsholders and information on how their works may be used.

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# Addressing the impact of artificial intelligence, cyberviolence, and deepfakes on equality, democracy and inclusive societies

HORIZON-CL2-2027-01-DEMOCRACY-04

Proposals should explore how AI-driven technologies either exacerbate or mitigate inequalities and discriminations based on sex, gender, sexual orientation, racial or ethnic background, religion or belief, age, and disability, particularly in access to information, decision-making, and representation. A critical analysis is needed of how data - often reflecting existing social biases - can reinforce or challenge dominant social structures and safety, and how such technologies shape public perceptions and knowledge production.

Program:	Horizon Europe Cluster 2.
Típus:	Research and Innovation Action
TRL szint:	nem releváns
Támogatás projektenként:	3,5 – 4 M EUR
Támogatott projektek száma:	5
Pályázati felület megnyílik:	2027. május 13.
Beadási határidő:	2027. szeptember 23.

Felhívás linkje:

[LINK](#)

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# AI4Creatives Support Platform: embracing a fair AI revolution

HORIZON-CL2-2027-01-HERITAGE-02

AI offers significant opportunities for CCSI, but challenges persist, including skill gaps, limited interaction with technology partners, structural weaknesses of CCSI, mostly small and micro enterprises with weak bargaining power against big tech providers, and limited resources to train dedicated AI models. Other challenges relate to AI ethics and transparency and questionable regard for intellectual property rights, including copyright. [...] The platform is expected to develop and operate based on a robust sustainability and business model, ensuring long-term viability beyond the initial project phase. The business model should align with the platform's objectives, ensuring it remains accessible to diverse organisations in terms of size and resources and that funding is not dominated by special interest groups.

Program:	Horizon Europe Cluster 2.
Típus:	Coordination and Support Action
TRL szint:	nem releváns
Támogatás projektenként:	4,5 – 5 M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	2027. május 13.
Beadási határidő:	2027. szeptember 23.

Felhívás linkje:

[LINK](#)

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# The effective use of artificial intelligence in learning environments in pre-primary and primary education

HORIZON-CL2-2027-01-TRANSFO-05

Program:	Horizon Europe Cluster 2.
Típus:	Research and Innovation Action
TRL szint:	nem releváns
Támogatás projektenként:	3 – 4 M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	2027. május 13.
Beadási határidő:	2027. szeptember 23.

Felhívás linkje:

[LINK](#)

The research could explore how AI can enhance curricula, improve teaching methods, and personalise learning through adaptive technologies. It should also consider the developmental appropriateness of AI tools for young learners, focusing on cognitive, emotional, and social growth. Research on AI's impact on early childhood education and its role in supporting foundational skills would be valuable. Additionally, the research should emphasise teacher support, including how AI can assist with lesson planning, assessment, and feedback.

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**PÁLYÁZATI LEHETŐSÉGEK A 3. KLASZTER MUNKAPROGRAMBAN**  
**Polgári biztonság a társadalomért**



# Detection and characterisation of threats or illegal/ smuggled goods in cargo

HORIZON-CL3-2027-01-BM-03

Program:	<b>Horizon Europe Cluster 3</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>4-5</b>
Támogatás projektenként:	<b>3,5M EUR</b>
Támogatott projektek száma:	<b>4</b>
Pályázati felület megnyílik:	<b>5 May 2027</b>
Beadási határidő:	<b>4 November 2027</b>
Felhívás linkje:	<a href="#">LINK</a>

Project results are expected to contribute to some or all of the following expected outcomes:

- Increased security of air, maritime, land, or postal transport, cargo and supply chain;
- Address accidental or intentional explosions, fires, noxious chemicals, material degradation, or autonomous threats in cargo;
- Enhanced capabilities to detect, characterise, track and trace, and seize dangerous, regulated, illicit devices, goods, or material;
- Increased mobility of the customs authorities' resources and equipment and improved agility for a faster and more coordinated response;
- Interoperability of customs control equipment and interconnectivity with other systems, including integration of logistical operations, and/or increased inter-agency and cross border collaboration.

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# Impact of malicious use of Open-Source Intelligence on critical infrastructure business continuity

HORIZON-CL3-2027-01-INFRA-02

Program:	<b>Horizon Europe Cluster 3</b>
Típus:	<b>Innovation Action</b>
TRL szint:	<b>8</b>
Támogatás projektenként:	<b>3,835M EUR</b>
Támogatott projektek száma:	<b>2</b>
Pályázati felület megnyílik:	<b>5 May 2027</b>
Beadási határidő:	<b>4 November 2027</b>
Felhívás linkje:	<a href="#">LINK</a>

Proposals submitted under this topic should analyse the type, amount and accessibility of publicly available information and their usefulness in planning hostile operations against critical entities and their services. They should also parse the role of OSINT for identification and recruitment of insiders, identity theft, impersonation, or launching a psychological operations such as propaganda, foreign information manipulation and interference or disinformation, moreover. Moreover, the implications of AI data processing to misuse OSINT potential should be addressed. Any potential OSINT sources should be covered including, but not limited to social media, online fora, cloud resources, public records and databases, lawfully accessible deep web and dark web data, geospatial information, as well as paper archives in the public domain with blueprints, emergency response plans or similar. Proposals should especially consider scenarios including hybrid threats and lone wolves and develop tools and awareness campaigns to mitigate such threats.

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# Online harms detection and investigation tools using a short development cycle model

HORIZON-CL3-2027-01-FCT-01

Program:	<b>Horizon Europe Cluster 3</b>
Típus:	<b>Innovation Action</b>
TRL szint:	<b>6-8</b>
Támogatás projektenként:	<b>7,83M EUR</b>
Támogatott projektek száma:	<b>1</b>
Pályázati felület megnyílik:	<b>5 May 2027</b>
Beadási határidő:	<b>4 November 2027</b>
Felhívás linkje:	<a href="#">LINK</a>

This topic welcomes innovative ideas focused on creating efficient detection and investigation tools to combat varying forms of online harms, which should be selected at the beginning of every new development cycle, in agreement with all stakeholders involved in the consortia, especially including concrete needs of Police Authorities. The emphasis on short development cycles allows proposals to remain dynamic, responsive to the fast-paced nature of online threats, and capable of addressing both established issues and new challenges as they arise. Proposals should focus on the iterative process of tool development, integrating feedback from Police Authorities to ensure continuous improvement and relevance in combating online harms. Ultimately, the goal is to foster a proactive and effective response to safeguarding online spaces for all users, regardless of their gender identity or expression.

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# Enhancing the Security, Privacy and Robustness of AI Models and Systems (SecureAI)

HORIZON-CL3-2026-02-CS-ECCC-02

Program:	<b>Horizon Europe Cluster 3</b>
Típus:	<b>Innovation Action</b>
TRL szint:	-
Támogatás projektenként:	<b>3-5 M EUR</b>
Támogatott projektek száma:	<b>4-5</b>
Pályázati felület megnyílik:	<b>2026 március 3</b>
Beadási határidő:	<b>2026 szeptember 15</b>

Felhívás linkje: [LINK](#)

This topic aims to strengthen the resilience of AI systems and algorithms against various threats and attacks, such as enhancing their resilience against adversarial attacks, backdoor injections, and data poisoning. Proposals should develop real-time anomaly detection, mitigation techniques to defend against adversarial attacks and robust federated learning techniques, in synergies with leading efforts on AI transparency, and in compliance with the AI Act.

The topic is expected to:

- Develop robust AI models resistant to adversarial attacks.
- Advance methodologies to identify and mitigate compromised datasets.
- Develop mechanisms that enable AI models to be trained, deployed and operated in privacy-preserving environments.

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# Artificial Intelligence for Cybersecurity applications

HORIZON-CL3-2027-02-CS-ECCC-01

Program:	<b>Horizon Europe Cluster 3</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	-
Támogatás projektenként:	<b>3-5 M EUR</b>
Támogatott projektek száma:	<b>4-5</b>
Pályázati felület megnyílik:	<b>2027 március 2</b>
Beadási határidő:	<b>2027 szeptember 15</b>

Felhívás linkje: [LINK](#)

This topic aims to advance AI-based cybersecurity applications while ensuring that AI-driven solutions remain resilient, transparent, and compliant with regulatory frameworks such as the AI Act. In this context, the topic explores the role of all types of AI, including generative AI, in cybersecurity applications, including automated threat detection, adaptive cyber defence, and AI-driven cyber threat intelligence. Proposals should develop solutions for trustworthy AI in cybersecurity contexts including addressing adversarial AI risks, in compliance with the provisions of the AI Act.

The topic is expected to:

- Develop AI-driven solutions and tools for real-time cyber threat detection.
- Develop adaptive AI systems capable of evolving with dynamic cybersecurity challenges.
- Developing AI-enhanced frameworks that integrate predictive analytics, automation, and threat intelligence to strengthen proactive defence measures.

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**PÁLYÁZATI LEHETŐSÉGEK AZ 5. KLASZTER MUNKAPROGRAMBAN**  
**Klíma, energia, mobilitás**



# Advancing understanding, modelling and prediction of extreme events in a changing climate

HORIZON-CL5-2027-01-D1-07

Program:	<b>Horizon Europe Cluster 5.</b>
Típus:	<b>Research and Innovation Action</b>
TRL szint:	
Támogatás projektenként:	<b>6M EUR</b>
Támogatott projektek száma:	<b>3</b>
Pályázati felület megnyílik:	<b>2026. November 17.</b>
Beadási határidő:	<b>2027. Március 4.</b>
Felhívás linkje:	<a href="#">LINK</a>

Climate change is intensifying the frequency and severity of extreme events. Understanding and predicting extreme events and the interaction between different types of hazards is critical to building resilience and safeguarding communities.

Actions are expected to draw upon multiple lines of evidence from a hierarchy of models (including high resolution Earth system models and digital twins) and data of past and recent climate to further our understanding of processes, pre-conditioning and causality driving extreme events under climate change conditions, including anthropogenic factors and internal variability. Other innovative and efficient modelling and analysis methods, including AI-based approaches, to better predict, emulate and reveal climate change related extreme and unprecedented high impact events, and to capture their likelihood are particularly welcome.

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# AI-assisted digital aircraft design, manufacturing and MRO, towards a competitive aviation

HORIZON-CL5-2026-05-D5-07

Program:	<b>Horizon Europe Cluster 5.</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	-
Támogatás projektenként:	<b>5M EUR</b>
Támogatott projektek száma:	<b>2</b>
Pályázati felület megnyílik:	<b>18 Dec 2025</b>
Beadási határidő:	<b>14 Apr 2026</b>
Felhívás linkje:	<a href="#">Link</a>

This topic focuses on the development of robust AI-assisted capabilities that will work in tandem to digital twins. The term aircraft includes propulsion, aerostructures, systems and their integration, if not explicitly addressed.

Project results are expected to contribute to all of the following expected outcomes:

- AI-assisted digital aircraft design, redesign and certification – in collaboration with existing or improved digital twins and virtual products.
- AI-assisted design tools for aircraft requirement definition, validation and verification, to improve efficiency of the system design activities.
- AI-assisted digital (i) aircraft manufacturing, (ii) aircraft operation, condition monitoring and prediction, (iii) maintenance, repair and overhaul operations.

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# Generative AI for smarter CCAM: enhancing perception, decision-making, and validation

HORIZON-CL5-2026-10-D6-03

Program:	<b>Horizon Europe Cluster 5.</b>
Típus:	<b>Innovation Action</b>
TRL szint:	<b>5-6</b>
Támogatás projektenként:	<b>7M EUR</b>
Támogatott projektek száma:	<b>2</b>
Pályázati felület megnyílik:	<b>04 Jun 2026</b>
Beadási határidő:	<b>08 Oct 2026</b>
Felhívás linkje:	<a href="#">Link</a>

Level 3 and 4 automated vehicle pilots face key challenges in real-time perception and decision-making, particularly in complex urban settings where low-latency, energy-efficient, and secure solutions are essential for responsiveness, scene understanding, and safe interaction with vulnerable road users (VRUs).

Reducing onboard processing demands while ensuring reliability, privacy, and scenario prediction is critical. Emerging technologies like Generative AI (GenAI) offer promising tools, such as virtual edge case generation for development and testing of CCAM systems.

Further work is needed to develop, validate, and scale GenAI applications tailored to CCAM. Proposed actions should focus on advancing ultra-safe, energy-efficient, and scalable real-time systems using low-latency and distributed computing, supporting the broader adoption of AI in Europe's mobility sector.

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# Enhanced resilience in multimodal passenger transport through digital technologies and generative and discriminative AI

HORIZON-CL5-2026-10-D6-10

Program:	<b>Horizon Europe Cluster 5.</b>
Típus:	<b>Innovation Action</b>
TRL szint:	<b>6-7</b>
Támogatás projektenként:	<b>5M EUR</b>
Támogatott projektek száma:	<b>2</b>
Pályázati felület megnyílik:	<b>04 Jun 2026</b>
Beadási határidő:	<b>08 Oct 2026</b>
Felhívás linkje:	<a href="#">Link</a>

Passenger transport systems are a critical component of urban, sub-urban, and long-distance travel, facilitating connectivity, reducing traffic congestion, and supporting environmental sustainability. However, these systems face challenges such as operational disruptions, safety and security risks, and evolving passenger demands. In the context of passenger transport, resilience refers to the ability of a transport system to absorb disturbances, maintain its basic structure and function, and recover to a required level of service within acceptable time and cost after being affected by disruption. This involves implementing measures that ensure continuous operation, quick recovery from unexpected events, and adaptability to changing circumstances. Enhanced resilience is essential for maintaining public trust and ensuring smooth functioning of transport systems and it is a cornerstone of the EU Sustainable and Smart Mobility Strategy.

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**PÁLYÁZATI LEHETŐSÉGEK AZ ALKALMAZKODÁS AZ ÉGHAJLAT VÁLTOZÁSHOZ  
MISSZIÓBAN**



# Researching and applying the potential of Artificial Intelligence to foster climate resilience at the regional and local levels

HORIZON-MISS-2027-01-CLIMA-02

Program:	<b>Horizon Europe Missions</b>
Típus:	<b>Research and Innovation Action</b>
TRL szint:	
Támogatás projektenként:	<b>3M EUR</b>
Támogatott projektek száma:	<b>4</b>
Pályázati felület megnyílik:	<b>2027 Február 9.</b>
Beadási határidő:	<b>2027 Szeptember 21.</b>

Felhívás linkje: még nem elérhető

Over the past few years, a rapid and disruptive acceleration of progress in Artificial Intelligence has occurred, driven by significant advances in widespread data availability, computing power and machine learning<sup>115</sup>. While the potential of Artificial Intelligence is being uncovered each day and its possibilities are expanding exponentially, such technological revolution can significantly accelerate Europe's efforts towards climate resilience and contribute to the objectives of the EU Mission on Adaptation to Climate Change. Considering the ever-changing nature of AI growth, proposals should demonstrate that they go beyond state of the art, they should identify a specific gap that can be addressed by an AI-powered tool, and explain why it would improve existing models, tools or applications or, alternatively, justify the need to develop entirely new solutions.

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**PÁLYÁZATI LEHETŐSÉGEK A 6. KLASZTER MUNKAPROGRAMBAN**  
**Élelmiszer, biomassa-alapú gazdaság, természeti erőforrások,**  
**mezőgazdaság és környezet**



# Open topic: Develop Earth Intelligence solutions using environmental observations and state-of-the-art AI for sustainable competitiveness and policy making

HORIZON-CL6-2026-03-GOVERNANCE-01-two-stage

Program:	<b>Cluster 6</b>
Típus:	<b>RIA</b>
TRL szint:	-
Támogatás projektenként:	<b>6 M EUR</b>
Támogatott projektek száma:	<b>2</b>
Pályázati felület megnyílik:	<b>2026.02.12.</b>
Beadási határidő:	<b>2026.04.15; 2026.09.30.</b>
Felhívás linkje:	<a href="#">Lásd</a>

Proposals should develop and demonstrate downstream applications for a range of use cases (e.g. weather-, climate-related risks, environmental hazards, or biodiversity reporting) using broadly and intensively Earth Observation and relevant datasets for supporting sustainability and competitiveness through the provision of Earth Intelligence. The aim should be the provision of AI-driven tools and insights to public or private actors, also in the frame of GEO Work Programme Activities, providing observation-based evidence to include preparedness, resilience, sustainability, competitiveness, biodiversity-friendliness or climate neutrality in their operations, decision- or policymaking.

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# Boosting data availability and AI solutions in food for consumers and food service professionals

HORIZON-CL6-2026-03-GOVERNANCE-08

Program: **Cluster 6**

Típus: **IA**

TRL szint: **-**

Támogatás projektenként: **7,5 M EUR**

Támogatott projektek száma: **2**

Pályázati felület megnyílik: **2026.01.14.**

Beadási határidő: **2026.04.15.**

Felhívás linkje: [LDD](#)

The decisions taken by consumers and food service professionals when they purchase, prepare and preserve food impact their productivity as well as the sustainability of food systems, and dietary health. AI solutions offer opportunities to assist consumers and food service professionals in these decisions. To maximize the impact of these AI solutions it is necessary to increase their uptake as well as the availability and quality of the data on which they rely.

Project results are expected to contribute to all of the following expected outcomes: generative AI solutions for consumers and food service professionals have significantly scaled-up and improved the productivity and sustainability (including for mitigation of climate change) of food purchasing, preservation and preparation, and enabled dietary health; high value and high quality digital datasets for food products, and data driven consumer and food service applications are developed and contribute to increasing productivity, sustainability and dietary health; data sovereignty is ensured, including for consumers and farmers.

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# AI supporting informed advice for farmers and foresters to improve competitiveness and sustainability

HORIZON-CL6-2027-03-GOVERNANCE-04

Program:	<b>Cluster 6</b>
Típus:	<b>Innovation Actions</b>
TRL szint:	<b>TRL 8</b>
Támogatás projektenként:	<b>5-6 M EUR</b>
Támogatott projektek száma:	<b>2</b>
Pályázati felület megnyílik:	<b>2027. február 04.</b>
Beadási határidő:	<b>2027. május 11., 17:00</b>

Felhívás linkje: [LMA](#)

Project results are expected to contribute to all of the following expected outcomes:

- innovative AI-based solutions provide advisors, farmers and foresters with comprehensive, tailored and impartial advice to farmers and foresters to support them in their decisions as well as on the selection of innovative solutions, boosting the competitiveness, sustainability and resilience of the EU agriculture and forestry sectors;
- capacity and skills of advisors, farmers, and foresters related to the effective use of AI solutions are improved;
- use of existing and new data relevant for the decision-making for the optimized management of operations and the selection of innovative solutions on farms and in forests is increased.

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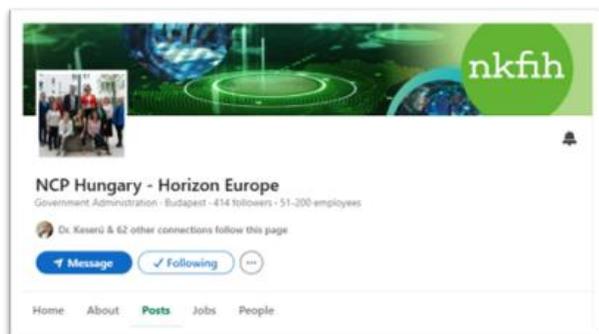
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