

# MESTERSÉGES INTELLIGENCIA TÉMÁJÚ FELHÍVÁSOK A 2025. ÉVI MUNKAPROGRAMBAN

Érintett programterületek: digitális, egészségügy, mobilitás, társadalomtudomány és EIC.

**Időpont:** 2025. június 13., 10:00-11:30

**Regisztráció:** [www.nkfi.gov.hu/horizontpentek10/aiinscience2025](http://www.nkfi.gov.hu/horizontpentek10/aiinscience2025)



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4. klaszter



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**Genzler Noémi**  
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**Pivarcsiné Fekete Dóra**  
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NEMZETI KUTATÁSI, FEJLESZTÉSI  
ÉS INNOVÁCIÓS HIVATAL



NCP Hungary – Horizon Europe

**MINDEN PÉNTEKEN 10–11 ÓRA KÖZÖTT**  
**az NKFIH Horizont Európa NCP csapat szervezésében**

# Komplex felkészítő program a Horizont Európa keretprogram új, 2025. évi felhívásaira

The collage includes the following elements:

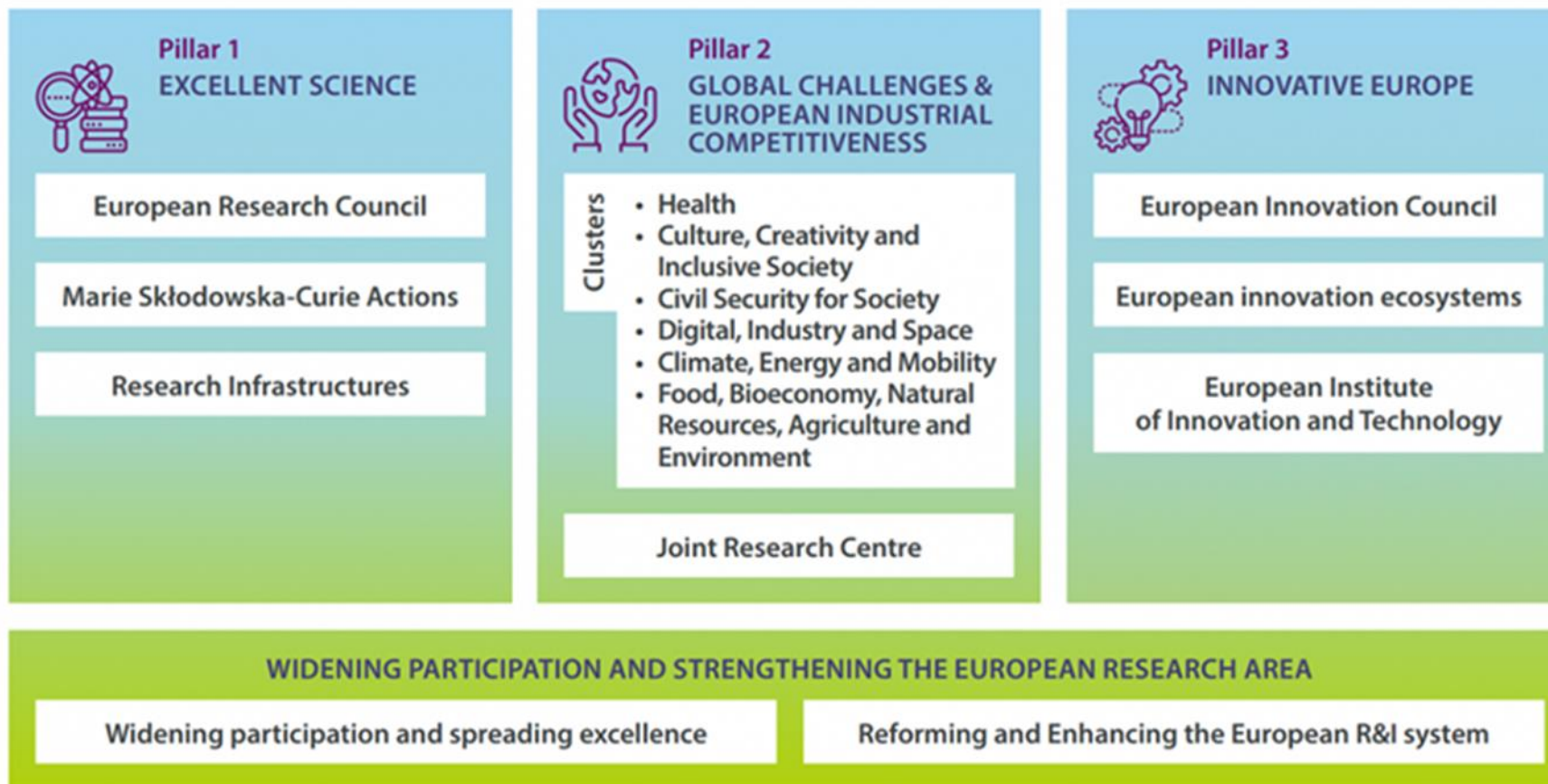
- Portraits of experts: Genzler Noémi, Pivarcsiné Fekete Dóra, Csésznek Flóra, Kállay Tamás, Kürti Zsuzsanna, Kiss Barbara, dr. Schenk Borbála, Tavelyi Kitti, Borza Beatrix, Tóth Orsolya, Schultzeisz Máté, and Dr. Józson Mónika.
- Text: "Horizont Európa 2025 felhívások", "Komplex felkészítő program", "Strengthened Cooperation Health Research", "nkp@nkfih.gov.hu", "horizonteuropa.nkfih.gov.hu", "NCP Hungary Horizon Europe".
- Logos: NKFIH Nemzetközi Együttműködési Főosztály, Horizont Európa, NCP Hungary Horizon Europe.

- Konzultáció pályázati lehetőségekről
- Webinár-sorozat kutatómenedzserek, pályázati szakértők részére
- HorizontPéntek10 sorozat
- HP10 EXTRA
- ÚJ [horizonteuropa.nkfih.gov.hu](http://horizonteuropa.nkfih.gov.hu) honlap
- Heti Horizont Európa hírlevelek – feliratkozás: [nkp@nkfih.gov.hu](mailto:nkp@nkfih.gov.hu)



# A Horizont Európa program felépítése

## THREE PILLARS FOR IMPLEMENTATION



2025. évi munkaprogram: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents?programmePeriod=2021-2027&frameworkProgramme=43108390>

**Pályázati lehetőségek a Horizont Európa 4. klaszter munkaprogramban  
(Horizon Europe Cluster 4. – Digital, Industry, Space)**

# DIGITÁLIS DESZTINÁCÓK

03

DATA



Mesterséges intelligencia, a robotika és az energiahatékony szoftverek előmozdítása

04

DIGITAL  
EMERGING



Európa vezető szerepének kialakítása a mesterséges intelligenciában

06

HUMAN



Generatív mesterséges intelligenciai stratégiák megerősítése





# Empowering AI/generative AI along the Cognitive Computing continuum (AI, Data and Robotics Partnership)

HORIZON-CL4-2025-04-DATA-02

Program:	Horizon Europe Cluster 4
Típus:	Research & Innovation Action
TRL szint:	6-7
Támogatás projektenként:	6 - 8M EUR
Támogatott projektek száma:	4
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	Szeptember 2025

Felhívás linkje: [LINK](#)

The Cloud to Edge Continuum needs to provide seamless and trustworthy integration of diverse computing and data environments spanning from core cloud to edge to IoT and support the enormous data, processing needs, and new resource types brought by next generation AI technologies.

The aim is to develop generic and AI-enabled cloud-edge technologies encompassing the whole computing continuum to empower the development of AI/generative AI technologies and applications. The proposals should demonstrate the generic applicability of the proposed technological solutions across various application domains such as but not limited to, manufacturing, healthcare, robotics, transportation and smart cities. These tools need to empower the distribution of AI training and inference processes throughout the computing continuum.

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# Software Engineering for AI and generative AI (AI, Data and Robotics Partnership)

HORIZON-CL4-2025-04-DATA-03

Program:	Horizon Europe Cluster 4
Típus:	Research & Innovation Action
TRL szint:	6
Támogatás projektenként:	4 - 6M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	Szeptember 2025

Felhívás linkje: [LINK](#)

The latest developments in AI are demanding computation infrastructures designed to maximize the number of FLOPS. Europe has a window of opportunity to leverage open source and ensure that the European industry is at the cutting edge of these new processing infrastructures. The current methods and tools to develop and efficiently deliver AI pipelines and complex generative AI applications present several shortcomings. These need to be addressed with the development of new methods, mechanisms and tools.

Proposals should provide improved methods and tools to optimally develop and deliver bias-free AI algorithms and generative AI; and new concepts of the auto-evolution-enabled software elements that AI algorithms can autonomously select and integrate. The proposal should address at least one use case as an industry application (e.g., automotive, health, energy, food/agriculture, etc.).

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# Robust and trustworthy GenerativeAI for Robotics and industrial automation (AI/Data/Robotics & Made in Europe Partnerships)

HORIZON-CL4-2025-03-DIGITAL-EMERGING-07

Program:	Horizon Europe Cluster 4
Típus:	Research & Innovation Action
TRL szint:	6
Támogatás projektenként:	40 - 45M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	Szeptember 2025
Felhívás linkje:	<a href="#">LINK</a>

To push the boundaries of current AI technology, this topic seeks the development of groundbreaking GPAI models that combine self-supervised learning with complementary learning strategies. These strategies include hybrid learning, active learning, reinforcement learning, relational learning, continual learning, and evolutionary learning, which draws inspiration from biological evolution to optimize model architectures and parameters; and physics-based learning, which considers physical properties in the models' architectures.

By leveraging these complementary approaches, the aim is to create GPAI models that exhibit enhanced capabilities, overcome existing limitations, and pave the way for a new generation of intelligent systems capable of tackling complex, real-world challenges.

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# Challenge-Driven GenAI4EU Booster (AI/Data/Robotics Partnership)

## HORIZON-CL4-2025-03-DIGITAL-EMERGING-09

Program:	Horizon Europe Cluster 4
Típus:	Research & Innovation Action
TRL szint:	6
Támogatás projektenként:	15 M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	Szeptember 2025

Felhívás linkje: [LINK](#)

Generative AI promises to transform most industry sectors. This challenge-driven initiative aims to boost both Europe's developer community and the adoption of powerful trustworthy generative AI solutions in the strategic sectors of aerospace, pharma/drugs and telecommunication networks, key for their competitiveness. In pharmaceuticals, it can, for instance, accelerates drug design by rapidly creating target-specific molecules, reducing development time from years to seconds, and potentially preventing prolonged health crises like COVID-19.

By embracing generative AI, telecom companies can position themselves at the forefront of a new era of intelligent and automated telecommunications. Specific use-cases include for instance network management, network optimization, network slicing, network healing, predictive maintenance, network mapping and optimization.

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# Assessment methodologies for General Purpose AI capabilities and risks (AI/Data/Robotics Partnership)

HORIZON-CL4-2025-04-DIGITAL-EMERGING-04

Program:	Horizon Europe Cluster 4
Típus:	Research & Innovation Action
TRL szint:	5
Támogatás projektenként:	3-4 M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	Szeptember 2025

Felhívás linkje: [LINK](#)

The rapid advancement of artificial intelligence (AI) has led to the development of increasingly sophisticated general-purpose AI (GPAI) models and systems. These models, such as large language models and multimodal AI systems, demonstrate remarkable capabilities across a wide range of tasks. However, assessing the capabilities of these models remains a significant challenge. Traditional evaluation methods often fail to capture the full spectrum of abilities exhibited by GPAI models and systems. Therefore, there is a pressing need for the development of new assessment frameworks, methodologies and tools that can comprehensively evaluate these models in terms of their trustworthy and ethical behaviour and operation, ensuring their reliability, fairness, and alignment with human values. This topic aims to develop robust assessment tools, techniques, and benchmarks specifically designed to rigorously evaluate GPAI models and systems, including multimodal systems.

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# Enhanced Learning Strategies for General Purpose AI: Advancing GenAI4EU (AI/Data/Robotics Partnership)

HORIZON-CL4-2025-04-DIGITAL-EMERGING-07

Program:	Horizon Europe Cluster 4
Típus:	Research & Innovation Action
TRL szint:	5
Támogatás projektenként:	15 M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	Szeptember 2025

Felhívás linkje: [LINK](#)

Current large-scale AI models have demonstrated remarkable capabilities that have transformed numerous fields. They excel at tasks like natural language processing, image generation, and playing complex games. However, despite these successes, current models often struggle in several key areas. They lack the adaptability to seamlessly adjust to changing conditions in real-world environments.

These limitations underscore the need for advancements in General Purpose AI (GPAI) that go beyond pattern recognition and towards robust, adaptive systems capable of a wider range of intelligent behaviours, for example, taking inspirations from biological systems.

To push the boundaries of current AI technology, this topic seeks the development of groundbreaking GPAI models that combine self-supervised learning with complementary learning strategies.

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# AI Foundation models in science (GenAI4EU)

## HORIZON-CL4-INDUSTRY-2025-01-DIGITAL-61

The purpose of this topic is to tap into the potential of foundation models, and to advance the development of AI technology specifically tailored for the needs of science. The foundation models should provide researchers with access to essential AI-enabled capabilities for scientific discovery; employ the machine learning algorithms, models and architectures best suited for the chosen domain; be adaptable to different problems in the domain; and be based on a robust and reliable architecture, as any potential errors and problems would be propagated to the downstream applications.

The foundation models should be placed at the disposal of the scientific community as open models, including the source code and, where possible, training datasets. Proposers should provide a clear documentation on the use and limitations of the model, alongside case studies demonstrating the model's application to a variety of tasks/problems in the chosen domain.

Program:	Horizon Europe Cluster 4
Típus:	Research & Innovation Action
TRL szint:	4
Támogatás projektenként:	4 - 6M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	Szeptember 2025

Felhívás linkje: [LINK](#)

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# Facilitated cooperation for AI in Science

## HORIZON-CL4-INDUSTRY-2025-01-DIGITAL-62

Program:	<b>Horizon Europe Cluster 4</b>
Típus:	<b>Coordination &amp; Support Action</b>
TRL szint:	<b>6 - 7</b>
Támogatás projektenként:	<b>3M EUR</b>
Támogatott projektek száma:	<b>1</b>
Pályázati felület megnyílik:	<b>Május 2025</b>
Beadási határidő:	<b>Szeptember 2025</b>

Felhívás linkje: [LINK](#)

The project should develop a Strategic Research and Innovation Agenda for AI in Science by mobilising large groups of domain and AI researchers in different fields to identify key long-term research challenges in a diverse range of scientific areas where AI can make a meaningful difference for scientific breakthroughs, which are compelling to the EU competitive, environmental and social policy agenda. The project should come up with pilot areas from across Horizon Europe Pillar II Clusters, building on Europe's competitive advantages in science and AI technologies. The research challenges should be related to prediction and design problems in the different scientific fields identified that could be solved with AI. The project should build evidence and assess the needs and potential for R&I initiatives for AI in Science and also develop a roadmap on the needed steps for a more effective coordination between the domain and AI scientific communities in Europe and the needed upgrades in service and infrastructure provision at EU level for the integration of AI in different scientific fields.

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# GenAI4EU central Hub (CSA) (AI/Data/Robotics Partnership)

HORIZON-CL4-2025-03-HUMAN-18

Program:	Horizon Europe Cluster 4
Típus:	Coordination & Support Action
TRL szint:	-
Támogatás projektenként:	3M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	Szeptember 2025

Felhívás linkje: [LINK](#)

This horizontal Coordination and Support Action for GenAI4EU will develop a strong and visible European GenAI ecosystem of developers and users, aiming to strengthen the coordination, impact and visibility of the GenAI4EU initiative across diverse sectors. This CSA should be prepared, managed and coordinated by the key stakeholders in this field, in particular those active in developing local GenAI communities, tech transfer, attracting investment, and making the European GenAI stakeholders visible.

Serving as a hub for collaboration, this project seeks to streamline efforts in developing high-impact GenAI-based applications while fostering cooperation among various GenAI stakeholders, from startups, academia and large user industries, including large IT suppliers and integrators.

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# GenAI4EU: Generative AI for Virtual Worlds: Advanced technologies for better performance and hyper personalised and immersive experience (AI/Data/Robotics & Virtual Worlds Partnerships)

HORIZON-CL4-2025-03-HUMAN-15

Program:	Horizon Europe Cluster 4
Típus:	Innovation Action
TRL szint:	6
Támogatás projektenként:	4 - 5M EUR
Támogatott projektek száma:	5
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	Szeptember 2025
Felhívás linkje:	<a href="#">LINK</a>

Generative AI – Realistic and innovative Virtual Worlds for a better immersion:

Proposals should use Generative AI to build on the users' expectations to create either safe and inclusive virtual spaces, realistic environments, or creative and beyond reality ones. They should develop dynamic Storytelling and scenarios to enable creative content that is personalised leading to unique experiences for the users or shared with other users.

Generative AI – Smart digital assistance for a safe and inclusive navigation in Virtual Worlds:

Proposals should develop smart people-centered and accessible digital assistants and 3D chatbots (AI-enhanced communicating 3D avatars), to enhance training and education, remove language barriers through instant translation, remove barriers to persons with disabilities, offer sentiment analysis and behavioural decision support systems, contributing to navigate in inclusive and safe Virtual Worlds.

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# Artificial Intelligence for knowledge valorisation

## HORIZON-CL4-INDUSTRY-2025-01-HUMAN-62

Program: **Horizon Europe  
Cluster 4**

Típus: **Coordination &  
Support Action**

TRL szint: **-**

Támogatás projektenként: **2M EUR**

Támogatott projektek száma: **1**

Pályázati felület megnyílik: **Május 2025**

Beadási határidő: **Szeptember 2025**

Felhívás linkje: [LINK](#)

The action will provide an AI -powered valorisation toolbox, which will take into account EU policy and regulations on AI-ethics and can be used by researchers and innovators to identify the opportunities for valorisation as well as for guiding them towards market and societal uptake. This may include using AI for assessing feasibility under conditions, investigating legal frameworks that may be relevant to the uptake of the solutions, providing guidance on supporting instruments and funding mechanisms, supporting matching with investors, providing knowledge on the sector, investigating institutional and cultural aspects, citizens and consumer preferences. The use of AI may also focus on the efficient use of intellectual assets to raise awareness and guide R&I actors for the smart management of intellectual assets.

Drawing of the testing of at least 100 cases of AI- powered valorisation from research results to the market, the action will also develop a knowledge base for insights and best practices, principles and guidance to ensure a responsible use of AI for knowledge valorisation benefiting society.

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**Pályázati lehetőségek a Horizont Európa 2. klaszter munkaprogramban  
(Horizon Europe Cluster 2. - Culture, Creativity, and Inclusive Society)**



# Leveraging artificial intelligence for creativity-driven innovation

HORIZON-CL2-2025-01-HERITAGE-04

Program:	Horizon Europe Cluster 2.
Típus:	Research and Innovation Action
TRL szint:	nem releváns
Támogatás projektenként:	4 – 5 M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	2025. május 15.
Beadási határidő:	2025. szeptember 16.

Felhívás linkje:

[LINK](#)

Initiatives at the crossroads between art, technology, science, and society, such as the EU's STARTS – Science, Technology, and the Arts – demonstrate the advantages of involving artists and creative professionals to advance innovation and develop technologies that resonate with individuals and reflect cultural diversity. Artistic skills like intuition, imagination, and creativity, which are challenging for AI to replicate, along with expertise in design, visualisation, storytelling, to mention just a few, provide fresh ideas and unique insights for creating human-centric AI tools that address specific challenges and are designed to be ethical, sustainable, trustworthy, culturally sensitive and enhance user experience. Proposals should involve from the outset representatives from the CCI, including the arts and cultural heritage, to ensure their central role in activity development. Proposals need not cover all CCI but may focus on a specific area for thorough analysis to develop a strong knowledge base and highlight strategic directions and routes to improvement.

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# A European Collaborative Cloud for Cultural Heritage – Innovative use cases

HORIZON-CL2-2025-01-HERITAGE-03

Program:	Horizon Europe Cluster 2.
Típus:	Innovation Action
TRL szint:	nem releváns
Támogatás projektenként:	2,5 – 4 M EUR
Támogatott projektek száma:	8
Pályázati felület megnyílik:	2025. május 15.
Beadási határidő:	2025. szeptember 16.
Felhívás linkje:	

[LINK](#)

This topic aims at implementing real use cases and carrying out demanding end-to-end testing of the platform and its tools, in order to verify its capabilities and improve the ECCCH. The activities carried out should focus on concrete use cases, undertaken by the participating institutions, professionals and researchers with a view to improve their results or work processes. The activities carried out should make use of several of the key features of the ECCCH, including the user tools implemented on it. Such key features may include use of the advanced digital twins, of the large-scale cooperation and co-creation features, of the digital continuum or of the advanced features for commercial cooperation with, for example, cultural and creative industries. Activities carried out may also focus on the seamless interconnection of the ECCCH with other related platforms such as the Common European Data Space for Cultural Heritage and the European Open Science Cloud. Proposals should outline a focus of the planned activities that best achieve the expected outcomes, which may include some of the aspects mentioned.

Website of the ECHOES project for further reference: <https://www.echoes-eccch.eu/>

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# Innovative approaches to intangible cultural heritage for societal resilience




HORIZON-CL2-2025-02-HERITAGE-02-two-stage

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:	2025. május 15.
Beadási határidő:	2025. szept. 16., 2026. márc. 17.
Felhívás linkje:	

[LINK](#)

A crucial under-researched area is the role of intangible cultural heritage (ICH) in strengthening resilience against societal challenges and disasters and in fostering climate change mitigation and adaptation measures. Traditional knowledge systems and practices developed over generations by communities, including indigenous communities, and embedded within ICH, provide insights for sustainable natural resource management and adaptation strategies tuned to local ecosystems. This includes identifying natural hazard risks, disaster response, and post-disaster restoration of social and natural environments. Additionally, ICH practices such as rituals, storytelling, or traditional craftsmanship, help preserve cultural identity while enhancing mental health and quality of life, contributing to social well-being, community resilience, and recovery efforts.

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# Advisory support and network to counter disinformation and foreign information manipulation and interference (FIMI)

HORIZON-CL2-2025-01-DEMOCRACY-01

Program:	Horizon Europe Cluster 2.
Típus:	Coordination and Support Action
TRL szint:	nem releváns
Támogatás projektenként:	3 – 3,5 M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	2025. május 15.
Beadási határidő:	2025. szeptember 16.




Felhívás linkje:

[LINK](#)

With the emergence of new technologies (especially those based on [generative] Artificial Intelligence and the use of Big Data), the actors promoting disinformation and FIMI activities have significantly increased their capacity to act, they are able to develop more targeted content across a broader spectrum of sectors, and they are more effective than disinformation approaches based for instance on bot farms. AI could also be used to develop new disinformation detection technologies, while addressing the ethical and legal challenges implied.

Proposals should identify gaps in research, identify challenges and opportunities based on an analysis of ongoing and past research and innovation projects, particularly those offered by generative Artificial Intelligence in the context of generation, dissemination, detection and debunking of disinformation and FIMI activities more broadly.

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# Countering and preventing radicalisation, extremism, hate speech and polarisation

HORIZON-CL2-2025-01-DEMOCRACY-05




Program:	Horizon Europe Cluster 2.
Típus:	Research and Innovation Action
TRL szint:	nem releváns
Támogatás projektenként:	3 – 3,5 M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	2025. május 15.
Beadási határidő:	2025. szeptember 16.
Felhívás linkje:	

[LINK](#)

Proposals are encouraged to explore the following themes (among others): radicalisation and polarisation driven by stereotypes related to gender, religion, or ethnic minorities; the impact of new technologies on the production and dissemination of radicalisation and extremist content; the role of social cohesion, as both radicalisation and democratic participation are significantly influenced by the level of social cohesion within society; linkages between social and economic inequality and radicalisation, extremism, hatred and polarisation .

Proposals are encouraged to include historical and comparative analysis, which is crucial for understanding the past uses of hate speech as well as contemporary efforts by radical and extremist organisations to shape narratives. By contextualising these dynamics, proposals can explore the evolution and impacts of these phenomena over time, providing insights into effective strategies for combating them.

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# Good practices for increased autonomy of persons with disabilities, including physical, mental, intellectual and sensory disabilities

HORIZON-CL2-2025-01-TRANSFO-09

Program:	Horizon Europe Cluster 2.
Típus:	Research and Innovation Action
TRL szint:	nem releváns
Támogatás projektenként:	Kb. 3,4 M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	2025. május 15.
Beadási határidő:	2025. szeptember 16.
Felhívás linkje:	

[LINK](#)

A key aspect of the autonomy and independence of persons with disabilities is the access to inclusive education, training, active labour market measures and employment in the open labour market. Promising support practices in these areas should be mapped, analysed and tested, including the integration and communication between different services for a user-centred approach.

New and innovative ways of increasing the autonomy of persons with disabilities need to be explored and tested with the objective to reduce inequalities, promote their full inclusion in society in different areas of life, including education, family life, employment, living arrangements, leisure, arts, culture and sport, and improve their quality of life, as well as the quality of life and well-being of their families. This includes the use of assistive technology and other accessible digital technologies and artificial intelligence (AI) measures and tools to increase accessibility in society and overall communication, social participation and inclusion of persons with disabilities.

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**Pályázati lehetőségek a Horizont Európa 1. klaszter munkaprogramban  
(Horizon Europe Cluster 1. – Health)**



# Leveraging artificial intelligence for pandemic preparedness and response

HORIZON-HLTH-2025-01-DISEASE-04

Program:	Horizon Europe Cluster 1
Típus:	Research and Innovation Actions
TRL szint:	nem releváns
Támogatás projektenként:	6 - 8 M EUR
Támogatott projektek száma:	5
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	16 Szeptember 2025
Felhívás linkje:	<a href="#">LINK</a>

The use of AI on diverse datasets, as well as on their combinations within and across disciplines, can greatly increase the accuracy of assessments and predictions of medical (pharmaceutical or non-pharmaceutical) interventions in preparedness for, and response to epidemics and pandemics.

Particular attention should be paid to detecting and mitigating gender, ethnicity and other biases, aiming to develop AI models that are fair, trustworthy, and beneficial for all. Proposals are encouraged to explore potential synergies with the projects funded under the topic HORIZON-CL4-2021-HUMAN-01-24: "Tackling gender, race and other biases in AI (RIA)", as well as under the topic SC1-PHE-CORONAVIRUS-2020-2C: "Behavioural, social and economic impacts of the outbreak response".

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# End user-driven application of Generative Artificial Intelligence models in healthcare (GenAI4EU)

HORIZON-HLTH-2025-01-CARE-01

Program:	Horizon Europe Cluster 1
Típus:	Research and Innovation Actions
TRL szint:	nem releváns
Támogatás projektenként:	15 - 20 M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	16 Szeptember 2025
Felhívás linkje:	<a href="#">LINK</a>

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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# Leveraging multimodal data to advance Generative Artificial Intelligence applicability in biomedical research (GenAI4EU)

HORIZON-HLTH-2025-01-TOOL-03

Program:	Horizon Europe Cluster 1
Típus:	Research and Innovation Actions
TRL szint:	nem releváns
Támogatás projektenként:	15 - 17 M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	16 Szeptember 2025
Felhívás linkje:	<a href="#">LINK</a>

This topic aims at supporting activities that are enabling or contributing to one or several expected impacts of destination “Developing and using new tools, technologies and digital solutions for a healthy society”. To that end, proposals under this topic should aim to deliver results directed towards and contributing to all the following expected outcomes:

- Researchers, including clinical researchers, have access to robust, trustworthy and ethical Generative Artificial Intelligence (AI) models able to effectively advance biomedical research towards predictive and personalised medicine.
- Researchers, including clinical researchers, know how to use Generative AI models to synthesise the available scientific information and large-scale multimodal data and how to apply the necessary precautions, in order to deliver new knowledge and breakthrough scientific discoveries.
- Research community benefits from advanced methodologies to assess the validity and application of accurate, transparent, traceable, and explainable Generative AI models.

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# Optimising the manufacturing of Advanced Therapy Medicinal Products (ATMPs)




HORIZON-HLTH-2025-01-IND-01

Program:	Horizon Europe Cluster 1
Típus:	Innovation Actions
TRL szint:	nem releváns
Támogatás projektenként:	6 - 8 M EUR
Támogatott projektek száma:	5
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	16 Szeptember 2025
Felhívás linkje:	<a href="#">LINK</a>

The topic focuses on addressing the challenges of ATMP manufacturing, the need for highly specialised equipment and facilities, including in-process quality control and validation tests, scaling up and batch-to-batch reproducibility, whilst maintaining the efficacy of an ATMP product during the manufacturing process and/or the transition from centralised to decentralised manufacturing.

This topic aims to optimise the ATMP production where the general manufacturing process for a given medicinal product has already been established but has not been sufficiently optimised for its scale-up. Collaboration is crucial to refine the manufacturing of ATMPs, emphasising advancements in processes - including leveraging the potential of digital tools and advanced sensors -, fostering standardisation and enhancing quality controls for more efficient production and deployment of these innovative therapies, ideally covering the entire manufacturing lifecycle.

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# Advancing innovative interventions for mental, behavioural and neurodevelopmental disorders

HORIZON-HLTH-2025-03-DISEASE-02-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:	7
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	16 Szeptember 2025
Felhívás linkje:	<a href="#">LINK</a>

Mental, behavioural and neurodevelopmental disorders, that include for example severe depression, anxiety, schizophrenia, psychosis, post-traumatic stress disorder (PTSD), addictive behaviours (drugs, alcohol, gaming and others), obsessive-compulsive disorder, eating disorders and autism spectrum disorder are a high burden for patients, health systems and society, and remain unmet medical needs. More innovative, safer and more effective therapeutic and relapse-preventing solutions based on active substances are required, as for example for mental disorders many available treatments show modest efficacy, non-negligible side effects, discontinuation problems and high relapse rates. Additionally, other non-invasive multidisciplinary and/or transdiagnostic approaches (e.g. neurostimulation, neuroimaging, digital, non-pharmaceutical, psychotherapy, psychosocial) should be further developed to complement the therapeutic and relapse prevention solutions. These approaches aim to further improve health outcomes, self-determination, autonomy and quality of life in the long-term.

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# Advancing knowledge on the impacts of micro- and nanoplastics on human health

HORIZON-HLTH-2025-03-ENVHLTH-02-two-stage

Program:	Horizon Europe Cluster 1
Típus:	Research and Innovation Actions
TRL szint:	-
Támogatás projektenként:	7 - 8 M EUR
Támogatott projektek száma:	5
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	16 Szeptember 2025
Felhívás linkje:	<a href="#">LINK</a>

Research activities under this topic should strengthen the evidence on the impacts of micro- and nanoplastics exposure on human health, considering living and working environments and different exposure routes (inhalation, ingestion and dermal exposure). Proposals should focus on realistic concentrations of tested particles and exposures to a variety of sizes, shapes and chemical compositions of MNPs materials and advance in the comparability between studies. Moreover, research activities should take into account recent policy developments, support relevant policy gaps and needs and support the work on standardisation of analytical methods.

Applicants are encouraged to consider the use of experimental methods not using live animals, where relevant and allowing to obtain data of comparable validity.

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# Facilitating the conduct of multinational clinical studies of orphan devices and/or of highly innovative (“breakthrough”) devices

HORIZON-HLTH-2025-03-IND-03-two-stage

Program:	Horizon Europe Cluster 1
Típus:	Research and Innovation Actions
TRL szint:	nem releváns
Támogatás projektenként:	40 M EUR
Támogatott projektek száma:	5
Pályázati felület megnyílik:	Május 2025
Beadási határidő:	16 Szeptember 2025
Felhívás linkje:	<a href="#">LINK</a>

The focus of this topic is on multinational clinical studies of orphan devices and/or of highly innovative (“breakthrough”) devices, including digital and Artificial Intelligence (AI) based tools and techniques.

The emphasis within rare disease research and innovation has predominantly centred on pharmaceuticals, leaving a noticeable gap in the support for developing orphan devices. Orphan devices are specifically intended for use in rare diseases or conditions or in specific indications for rare cohorts of patients with an otherwise non-rare disease or condition. As, by their nature, orphan devices are intended for use in a small number of individuals each year, often infants and children, generating clinical data within an appropriate period of time and conducting clinical investigations is especially challenging due to low patient recruitment volumes.

Besides orphan devices, also highly innovative (“breakthrough”) devices are in the scope of this topic if they are expected to provide major clinical benefits for the treatment, diagnosis or prevention of a life threatening, seriously debilitating or serious and chronic disease or condition, regardless of whether they target small patient populations.

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**Pályázati lehetőségek a Horizont Európa 5. klaszter munkaprogramban  
(Horizon Europe Cluster 5. – Climate, Energy, Mobility)**



# Novel holistic intelligent tools for variable retrofit and decarbonised scenarios

HORIZON-CL5-2025-04-D5-13

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	7-8
Támogatás projektenként:	4M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	2025. május 6.
Beadási határidő:	2025. szeptember 4.
Felhívás linkje:	<a href="#">Link</a>

Innovative holistic intelligent design tools, with a multi-objective strategy and AI simulators, have to be developed rapidly and tested if we want to significantly contribute to the transition to zero-emission waterborne transport, and this has to be done by integrating the many sectors involved in the design.

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# Approaches, verification and training for Edge-AI building blocks for CCAM Systems

HORIZON-CL5-2026-01-D6-05

Program:	Horizon Europe Cluster 5.
Típus:	Research and Innovation Action
TRL szint:	5
Támogatás projektenként:	4M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	2025. szeptember 16.
Beadási határidő:	2026. január 20.
Felhívás linkje:	<a href="#">Link</a>

CCAM-enabled vehicles are constantly sensing their surroundings on road conditions, location, nearby vehicles and infrastructure. Such data is shared in real-time, while data from other sources is received. This needs powerful and optimised large data processing algorithms, which requires large amounts of computing power, data processing, real-time operation and high levels of security. However, most existing AI computing tasks for automated vehicle applications are relying on general-purpose hardware, which has limitations in terms of power consumption, speed, accuracy, scalability, memory footprint, size and cost. Hardware advancements driven by initiatives such as the Chips JU calls must be complemented by significant efforts to optimise AI algorithms for CCAM functionalities, ensuring their efficient performance on edge-specific hardware.

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# Predicting and avoiding road crashes based on Artificial Intelligence (AI) and big data




## HORIZON-CL5-2026-01-D6-14

Program:	Horizon Europe Cluster 5.
Típus:	Research and Innovation Action
TRL szint:	5-6
Támogatás projektenként:	5M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	2025. szeptember 16.
Beadási határidő:	2026. január 20.
Felhívás linkje:	<a href="#">Link</a>

Potential data sources include amongst others: smart phones, wearables, connected vehicles, drones, road-side sensors (e.g. camera, radar), etc. Progress in computing power, in the accuracy of location services and in video analytics are further enablers in the processing and analysis of such data in order to identify safety-critical situations or conflicts based on surrogate safety metrics.

In terms of crash prediction modelling artificial intelligence has the potential to identify the underlying risk and the complex relationships between large and diverse datasets which in turn could lead to the identification of crash contributing factors and their interrelations.

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# **Pályázati lehetőségek a European Innovation Council programrészben**



# Generative-AI based Agents to Revolutionize Medical Diagnosis and Treatment of Cancer

HORIZON-EIC-2025-PATHFINDERCHALLENGES-01-02

Program: **EIC Pathfinder Challenges 2025**

Típus: **Research & Innovation Action**

TRL szint: **1-4/5**

Támogatás projektenként: **Up to 4M EUR**

Támogatott projektek száma: **-**

Pályázati felület megnyílik: **25/06/2025**

Beadási határidő: **29/10/2025 17:00**

Felhívás linkje: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/HORIZON-EIC-2025-PATHFINDERCHALLENGES-01-02?order=DESC&pageNumber=1&pageSize=50&sortBy=startDate&isExactMatch=true&status=31094501,31094502,31094503&programmePeriod=2021%20-%202027&frameworkProgramme=43108390&callIdentifier=HORIZON-EIC-2025-PATHFINDERCHALLENGES-01>

The goal of this Pathfinder Challenge is to create interactive GenAI autonomous agents and/or a combination of them (super-agent) that provide clinicians with a holistic end to end perspective of patient care, throughout the entire clinical pathway. These agents aim to enhance pattern identification, reduce inconsistencies and errors in diagnoses as well as improve cancer treatment. While the focus is on GenAI, we also encourage the integration of other advanced AI technologies, such as topological and geometric deep learning, neural fields, graph neural networks, etc., which can complement and enhance the robustness and effectiveness of GenAI-based solutions in addressing the challenges of cancer diagnosis and therapy.

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# GenAI4EU: Creating European Champions in Generative AI

HORIZON-EIC-2025-ACCELERATOR-01\_IV.2.3

Program:	<b>EIC Accelerator Challenges</b>
Típus:	<b>Research &amp; Innovation Action</b>
TRL szint:	<b>6-9</b>
Támogatás projektenként:	<b>Grants up to 2.5M EUR Equity up to 10M EUR</b>
Támogatott projektek száma:	<b>-</b>
Pályázati felület megnyílik:	<b>2024/10/29</b>
Beadási határidő:	<b>2025/10/01 17:00</b>

#### Felhívás linkje:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/HORIZON-EIC-2025-ACCELERATOR-01?order=DESC&pageNumber=1&pageSize=50&sortBy=startDate&isExactMatch=true&status=31094501,31094502,31094503&programmePeriod=2021%20-%202027&frameworkProgramme=43108390&callIdentifier=HORIZON-EIC-2025-ACCELERATOR-01>

The aim of this Challenge is to support start-ups and SMEs committed to bringing transformative AI-driven solutions to market. The proposed solutions should safeguard human autonomy and enhance human expertise thus providing significant added value to decision-making processes, services or industrial workflows. Novel solutions with broad future applicability are particularly encouraged.

This Challenge will support the further development and validation of Gen AI models and/or downstream applications, which are “European-Value driven” and contributes to the ambitions of the AI Act<sup>153</sup> and the European approach to Artificial Intelligence.

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- Horizont Európa 2025. munkaprogramok: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents?programmePeriod=2021-2027&frameworkProgramme=43108390>
- [CL4 Bizottsági információs nap \(05.13-14.\)](#)
- [CL2 Bizottsági információs nap \(05.15.\)](#)
- [CL1 Bizottsági információs nap \(05.22.\)](#)
- [CL5 Bizottsági információs nap \(05.06.\)](#)
- [EIC Bizottsági információs nap](#)
- [EIC Pathfinder Challenges információs nap](#)
- [EIC Accelerator Challenges információs nap](#)
- [CL4 Brokerage platform](#)
- [CL2 Brokerage platform](#)
- [CL1 Brokerage platform](#)
- [CL5 Brokerage platform](#)
- [EIC Community Platform](#)

Támogatás személyes részvételű partnerkereső rendezvényre (max. 1000 EUR/fő):

<https://nkfih.gov.hu/palyazoknak/egyeb-tamogatas/horizont-europa-2-piller-partnerkereso-rendezvenyen-reszvetel-widera-travel-grants/palyazati-felhivas>



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