

HORIZONT EURÓPA 2026–27. ÉVI PÁLYÁZATI FELHÍVÁSOK

magyar érdeklődők részére

AUTOMATIZÁLT MOBILITÁS | INTELLIGENS VÁROSOK
LÉGI-, VÍZI ÉS KÖZÚTI KÖZLEKEDÉS



Kiss Barbara
5. klaszter NCP



Teveli Kitti
5. klaszter NCP



2026. január 28. 10:00–11:00



MINDEN SZERDÁN
10-11 óra között

REGISZTRÁCIÓ:
horizonteuropa.nkfi.gov.hu



NEMZETI KUTATÁSI, FEJLESZTÉSI
ÉS INNOVÁCIÓS HIVATAL



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NKFIH INTENZÍV FELKÉSZÍTŐ PROGRAM A HORIZONT EURÓPA KERETPROGRAM FELHÍVÁSAINA



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Genzler Noémi



Pivarcsiné Fekete Dóra



Csesznok Flóra



#NCP Hungary Horizon Europe
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Kürti Zsuzsanna



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**Horizont Európa
2026-2027
felhívások**

Intenzív felkészítő
program



Tóth Kitti



Borza Beatrix



Tóth Orsolya



Schultheisz Máté



Dr. Józson Mónika

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

- 17 tájékoztató webinárium: heti HorizontPéntek10 sorozatot szerdai alkalmakkal kiegészítve;
- kutatómenedzserek részére online workshop-sorozat a pályázók támogatásához szükséges legfontosabb témákban;
- személyes konzultáció-sorozat: személyre szabott pályázási terv készítése, tippek, trükkök a nemzetközi konzorciumi partnerkereséshez;
- „10 legfontosabb kérdés” sorozat: a Horizont Európa NCP Magyarország LinkedIn oldalán a magyar pályázók által leggyakrabban feltett kérdések és válaszok gyakorlati szempontból, könnyen áttekinthető anyagokkal;
- tematikus idővonalak a felhívások átláthatóságához: egy-egy tématerülethez kapcsolódva az összes pályázatbeadási határidőt tartalmazzák.

KÖZÖS FINANSZÍROZÁSÚ EURÓPAI EGYÜTTMŰKÖDÉSEK MAGYAR RÉSZVÉTELLEL

PILLAR II - Global challenges & European industrial competitiveness

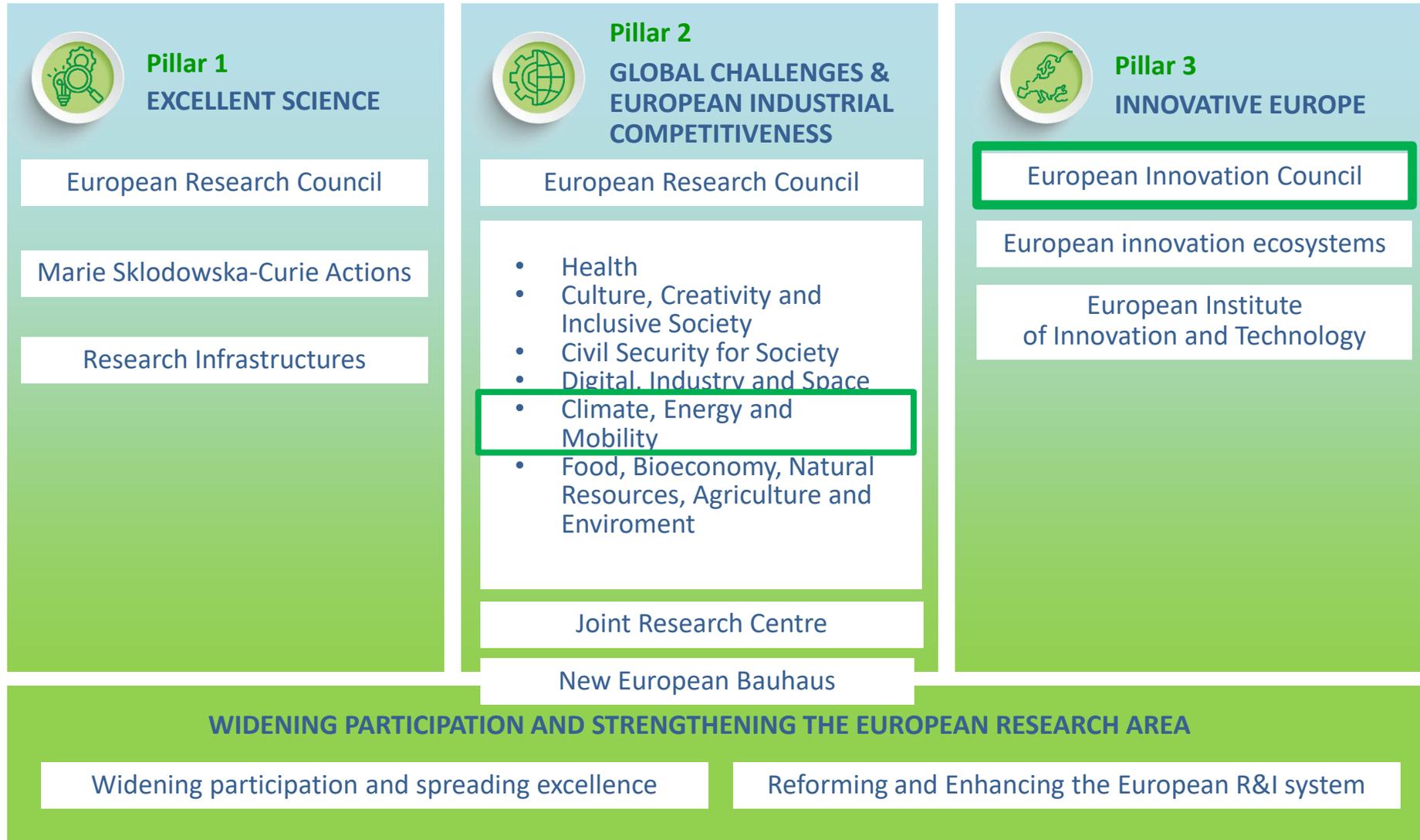
PILLAR III - Innovative Europe

Cluster 1 - Health	Cluster 2 - Culture, creativity, and inclusive society	Cluster 4 - Digital, industry, and space	Cluster 5 - Climate, energy, and mobility	Cluster 6 - Food, Bioeconomy, Natural Resources, Agriculture and Environment	
ERA for Health 100 000 EUR / év	CHANSE: Collaboration of Humanities and Social Sciences in Europe 250 000 EUR / év	CHIPS JU 2 300 000 EUR / év	Clean Energy Transition 1 165 000 EUR / év	Biodiversa+ 250 000 EUR / év	EUROSTARS 1 000 000 EUR / év
ERDERA: Rare Diseases 300 000 EUR / év		Raw Materials for the Green and Digital Transition 500 000 EUR / év	Driving Urban Transitions 1 000 000 EUR / év	Water4All 330 000 EUR / év	EUREKA 1 000 000 EUR / év
On-Health Antimicrobial Resistance 300 000 EUR / év		CHIST-ERA: Challenges in Information and Communication Sciences & Technologies ERA-NET 600 000 EUR / év		AGROECOLOGY: Accelerating Farming Systems Transition 140 000 EUR / év	
Personalised Medicine 500 000 EUR / év		FLAG-ERA III: Flagship ERA-NET 600 000 EUR / év		Agriculture of Data 140 000 EUR / év	
Pandemic Preparedness 500 000 EUR / év		M.ERA-NET: Materials Science 300 000 EUR / év		Forests and Forestry for a Sustainable Future 300 000 EUR / év	
Brain Health 1 000 000 EUR / év		QUANTERA II.: Cofund in Quantum Technologies 450 000 EUR / év		FOSC: Food Systems and Climate 200 000 EUR / év	
JPI AMR: Joint Programming Initiative on Antimicrobial Resistance 300 000 EUR / év				ICT Agri-Food 200 000 EUR / év	
JPND: Joint Programme Neurodegenerative Diseases Research 300 000 EUR / év					
NEURON 300 000 EUR / év					
TRANSCAN 300 000 EUR / év					



A HORIZONT EURÓPA PROGRAM FELÉPÍTÉSE

THREE PILLARS FOR IMPLEMENTATION



Pályázati lehetőségek (mobilitás) a Horizont Európa 5. klaszter munkaprogramban
(Horizon Europe Cluster 5. –Klíma, energia, mobilitás)



Large-scale demonstration of Heavy-Duty Battery Electric Vehicles towards long-haul logistics operations

HORIZON-CL5-2026-05-D5-01

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	8
Támogatás projektenként:	34M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	18 Dec 2025
Beadási határidő:	14 Apr 2026
Felhívás linkje:	Link

The implementation of zero emission vehicles for long-distance heavy-duty freight transport is of key importance to meet the European targets reducing greenhouse gas and air pollutants emissions. To further accelerate HD-BEV integration in logistic fleets and operations it is essential to identify and address the remaining barriers and challenges of their deployment. These barriers can be related to e.g. limitations in vehicle technology, digital tools, knowledge and user awareness, stakeholder engagement, energy and power availability, charging infrastructure needs such as depot charging and Megawatt Charging System (MCS), permit processes and connection to the grid and services. The challenges for logistics companies' (also smaller operators) implementing zero emission transport solutions need to be addressed.

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Energy-efficient software-defined EVs

HORIZON-CL5-2026-05-D5-02

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	6-7
Támogatás projektenként:	16M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	18 Dec 2025
Beadási határidő:	14 Apr 2026
Felhívás linkje:	Link

In the past years a variety of road vehicle technologies on component and sub-system level (e. g. mechanical, electro-mechanical, electro-chemical, etc.) have been developed and offer the potential to be combined and improve user benefits at the embedded system level. The potential to further leverage these developments with Software Defined Vehicle solutions (e.g. high-level functionality ranging from energy efficiency and performance improvements to personalizing the driving experience) over the lifetime of the vehicle needs to be explored. This would bring together developers working at the embedded system level with those working on high-level functions also to ensure that novel solutions will conform with homologation requirements. Solutions coming from this project must also be compatible with current automotive standards, esp. regarding external infrastructure.

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Data-driven circular economy for e-mobility ecosystem

HORIZON-CL5-2027-04-D5-03

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	6-7
Támogatás projektenként:	5-7M EUR
Támogatott projektek száma:	4
Pályázati felület megnyílik:	15 Dec 2026
Beadási határidő:	14 Apr 2027
Felhívás linkje:	Link

A: Improving the circularity of EV drivetrains and charging infrastructure is essential for resource efficiency, sustainability, and compliance with EU regulations. Durable design, predictive maintenance, and refurbishment can extend component lifespan, reducing material use and waste without sacrificing performance. Advanced monitoring enables failure prediction, better design, and second-life uses. Automation and design for dismantling support efficient recovery, lowering labor costs and enhancing high-value recycling.

B: Vehicle-specific data is key to applying circularity strategies throughout the EV lifecycle, yet it's often unavailable or inaccessible. Digital passports and tracking systems can enable predictive maintenance, life extension, and optimized recycling. Harmonized data-sharing policies and governance frameworks are vital for interoperability, data protection, and GDPR compliance. Initiatives like the EGD data space and Data4Energy offer secure, standardized platforms. Efficient data handling unlocks new business models and ensures regulatory alignment.

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Demonstration of zero emission coaches and buses in long distance operations

HORIZON-CL5-2027-03-D5-04

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	7-8
Támogatás projektenként:	15M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	15 Dec 2026
Beadási határidő:	14 Apr 2027
Felhívás linkje:	Link

Zero emission buses for urban and sub-urban use are successfully implemented in Europe. This has addressed the need to improve air quality, reduce noise and innovate people mobility. Yet there are limitations due to range, vehicle weight and available charging infrastructure to further extend zero emission vehicles in more energy demanding long-distance (ranging from regional, national to transnational) people mobility that needs to be addressed. There is a need to further develop zero-emission solutions where vehicle weight and energy demand are challenges.

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Higher Voltage, Megawatt Charging System compatible, modular powertrain for Heavy Duty Vehicles

HORIZON-CL5-2027-03-D5-05

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	7
Támogatás projektenként:	8M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	15 Dec 2026
Beadási határidő:	14 Apr 2027
Felhívás linkje:	Link

Major challenges still faced by Heavy Duty Battery Electric Vehicles are cost and fast charging. As electric vehicles become more attractive through Total Cost of Ownership, significantly higher acquisition costs remain, partly caused by the wide spectrum of usage scenarios and a relatively low number of vehicles, which makes development costs a significant factor for vehicle price.

Expected outcomes:

- Demonstrated integration potential and modularity of next level advanced high-voltage systems to benefit cost of Commercial Vehicles in particular for the Heavy-Duty Vehicles segment.
- Improved energy efficiency and higher utilization potential of HDV via high-voltage powertrain configurations.
- Demonstrated benefits of high-voltage systems also for fast charging and auxiliary components.

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Fire prevention and mitigation for EVs in confined areas

HORIZON-CL5-2027-03-D5-06

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	6
Támogatás projektenként:	8M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	15 Dec 2026
Beadási határidő:	14 Apr 2027
Felhívás linkje:	Link

The overall fire safety risks associated with Electric Vehicles (EVs) are substantially lower compared to those of Internal Combustion Engine (ICE) vehicles. However, public concerns and perceptions about EV fire safety may still persist. This necessitates a thorough examination and addressing of potential causes of EV fire to alleviate any remaining worries. This necessitates a thorough examination and addressing of potential causes of EV fire to alleviate any remaining worries

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

HORIZON-CL5-2026-05-D5-07

Program:	Horizon Europe Cluster 5.
Típus:	Research & Innovation Action
TRL szint:	-
Támogatás projektenként:	5M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	18 Dec 2025
Beadási határidő:	14 Apr 2026
Felhívás linkje:	Link

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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Sustainable aircraft circular design and additive manufacturing, towards a climate neutral aviation

HORIZON-CL5-2027-03-D5-08

Program:	Horizon Europe Cluster 5.
Típus:	Research & Innovation Action
TRL szint:	-
Támogatás projektenként:	2,5M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	15 Dec 2026
Beadási határidő:	14 Apr 2027
Felhívás linkje:	Link

This topic addresses the transformative role of additive design and manufacturing (AD/AM) in aircraft and engine structural components, key to EU competitiveness. Given geopolitical challenges in raw materials, AD/AM offers untapped potential for improved energy efficiency, reduced use of critical raw materials, and higher-quality parts. The focus is on resolving key challenges such as residual stresses, phase transformations, joining issues, defects, and reproducibility in metal, high-performance polymer, and composite parts. Building on efforts like H2020-SUSTAINair and EREA's Future Sky, proposals should target competitive industrial use cases in circular design, advanced joining, maintenance, and repair technologies to extend aircraft lifespan and enable high-quality material recovery. For engines and safety-critical systems, real-time monitoring and inspection can enable smart, on-site repairs, reducing the need for energy- and resource-intensive overhauls.

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Noise reduction breakthroughs for new ultraefficient aircraft

HORIZON-CL5-2027-04-Two-Stage-D5-09

Program:	Horizon Europe Cluster 5.
Típus:	Research & Innovation Action
TRL szint:	-
Támogatás projektenként:	2,5M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	15 Dec 2026
Beadási határidő:	14 Apr 2027; 07 Oct 2027
Felhívás linkje:	Link

The topic aims to deliver advanced and validated numerical and experimental aero-acoustic methodologies for the noise prediction of new ultraefficient aircraft designs, primarily for large passenger aircraft with new open fan engine architectures and ultra-high by-pass ratio architectures.

The topic should reinforce fundamental understanding, fill gaps and propose new/updated technologies towards enabling open fan designs and techno bricks for significantly reduced cabin noise. Mayor emphasis is expected to be put to existing/new experimental data and procedures, multi-disciplinary design and optimisation, aerodynamics, aeroacoustics and noise reduction integrated metamaterials/structures.

In addition, the proposals may also provide even better noise footprint assessments and better annoyance understanding and mitigation methodologies.

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Disruptive Technologies and Innovative Concepts for Energy Saving Onboard of long-distance ships

HORIZON-CL5-2026-06-Two-Stage-D5-10

Program:	Horizon Europe Cluster 5.
Típus:	Research & Innovation Action
TRL szint:	4-5
Támogatás projektenként:	5M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	18 Dec 2025
Beadási határidő:	14 Apr 2026; 08 Oct 2026
Felhívás linkje:	Link

Energy consumption of long-distance shipping should be reduced significantly to achieve sustainable worldwide trade. To achieve a more sustainable and environmentally friendly shipping industry, it is essential to continue developing disruptive technologies, advanced materials, and innovative concepts that can significantly reduce energy consumption of long-distance shipping. The objective of this topic is to support solutions for propulsion and non-propulsion energy consumption that aim to achieve at least at least 25% energy savings in long distance shipping as compared to 2008 levels, through the development and integration of standalone solutions. These technologies include active or passive increased performance solutions, novel propulsion systems, augmented propulsion technologies capitalizing also on ship motions, hull performance enhancements and the use of advanced materials which can further enhance energy efficiency and reduce the environmental impact of vessels. Any fuel-related proposals should only consider renewable low and zero-carbon fuels. These technologies and concepts should be applicable to various types of ships, including ro-pax, container ships, bulk carriers, and tankers.

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Ports of the future

HORIZON-CL5-2026-05-D5-11

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	5
Támogatás projektenként:	21M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	18 Dec 2025
Beadási határidő:	14 Apr 2026
Felhívás linkje:	Link

Ports are important multimodal hubs in the supply chain, linking the sea with the hinterland, evolving into critical hubs and facilitators of sustainable energies, are clusters of industry and circular economy, as well as geo-political and geo-economic resilience. Europe needs ports that are competitive and sustainable on local, regional and global levels, and the Competitiveness Compass calls for a new strategy to highlight the role that European ports will play in the future EU economy. The Green Deal aims to achieve climate neutrality by 2050 and to reverse the degradation of ecosystems by 2030. The EU Sustainable and Smart Mobility Strategy (SSMS) states that infrastructure must be adapted to climate change, less biodiversity harmful and made resilient to disasters. In line with the SSMS, it is also important that ports can provide increasing volumes of clean and decarbonised energy sources, notably renewable energy, and on a modernised grid.

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Shipyards of the future

HORIZON-CL5-2026-05-D5-12

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	8
Támogatás projektenként:	10,5M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	18 Dec 2025
Beadási határidő:	14 Apr 2026
Felhívás linkje:	Link

European shipbuilding industry is facing increasing pressure from international players, and there is a need to improve its competitiveness through innovation and technological advancements.

The topic aims to improve efficiency and sustainability of European ship newbuilding and retrofitting processes, to improve the use of resources and circularity, to develop necessary skills and improve working conditions. This requires considering all relevant innovations such as robotics, automation, digitalization and AI in the context of shipbuilding to enhance EU/EEA -focused value chains. The purpose is to increase the competitiveness of the European shipbuilding sector with a view to further replicating and utilizing results, including in potential applications to the Innovation Fund.

shipyards are often located in sensitive natural areas, such as coastal regions and estuaries. This provides an opportunity for shipyards to evaluate and reduce their impact on the surrounding biodiversity.

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Safety of renewable low and zero-carbon waterborne fuels in port areas: risk assessment, regulatory framework, and guidelines for safe bunkering, handling and storage

HORIZON-CL5-2026-05-D5-13

Program:	Horizon Europe Cluster 5.
Típus:	Coordination and Support Action
TRL szint:	-
Támogatás projektenként:	2M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	18 Dec 2025
Beadási határidő:	14 Apr 2026
Felhívás linkje:	Link

The rapid transition to low and zero-carbon solutions in maritime and inland waterborne transport requires port authorities and stakeholders to swiftly adapt to supply large quantities of renewable low and zero-carbon fuels and electricity. However, this shift poses new safety challenges, particularly in port areas where multiple bunkering operations, import/export terminals, and fuel handling and storage activities coexist. The close location of most ports to cities and inhabited areas raises issues of safety on two fronts: the space deficit due to the difficulty of enlarging the port areas in these locations, and the broader danger to these inhabited areas due to their proximity to the ports and by extension the storage of these fuels. To ensure a safe and efficient energy transition, it is crucial to assess and mitigate the risks associated with the introduction of renewable low and zero-carbon fuels in port areas. As not all ports will be able to store every type of clean fuel in the port or neighbouring area, safety of transport and distribution within the port area should also be analysed.

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Onboard renewable energy solutions and energy saving measures to reduce the fuel consumption of ships by at least 55%

HORIZON-CL5-2027-03-D5-14

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	8
Támogatás projektenként:	8M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	15 Dec 2026
Beadási határidő:	14 Apr 2027
Felhívás linkje:	Link

This topic focuses on improving energy efficiency and reducing GHG and air pollutant emissions in waterborne transport by exploring and integrating renewable energy solutions and energy-saving technologies, such as electric and hybrid propulsion, wind-assisted systems, hull optimization, and air lubrication. While many advancements have been made, major challenges remain in effectively combining these technologies across various ship components—such as propulsion, energy conversion, and onboard energy use—without compromising safety or performance. Ensuring adaptability across different vessel types and scalability for larger ships is essential and requires careful technical and economic assessment. Financial viability, particularly for small and medium-sized shipping companies, is another critical factor, given the high investment costs associated with the transition to zero-emission vessels. Additionally, the lack of standardized frameworks and regulations hinders widespread implementation and must be addressed to support industry-wide adoption.

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Prospective evaluation of nuclear power potential for shipping

HORIZON-CL5-2027-03-D5-15

Program:	Horizon Europe Cluster 5.
Típus:	Coordination and Support Action
TRL szint:	-
Támogatás projektenként:	2M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	15 Dec 2026
Beadási határidő:	14 Apr 2027
Felhívás linkje:	Link

Nuclear propulsion offers the potential to decarbonize shipping by producing zero GHG tank-to-wake emissions and low upstream emissions. A coordinated effort involving industry, RPOs, NGOs, the European Commission, IAEA, and IMO is needed to assess its feasibility. The project should build on recent R&I results and international initiatives to evaluate technical, economic, environmental, regulatory, and social aspects. Key objectives include assessing safety, feasibility, and environmental impact, and developing regulatory and technical recommendations. The study should also review pilot projects and explore the use of small modular reactors (SMRs) and other advanced nuclear technologies in commercial shipping.

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Autonomous vessels in short sea shipping and inland waterways

HORIZON-CL5-2027-03-D5-16

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	7
Támogatás projektenként:	7,5M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	15 Dec 2026
Beadási határidő:	14 Apr 2027
Felhívás linkje:	Link

Maritime Autonomous Surface Ships (MASS) have been the focus for several projects both with EU-funding and individual countries but a major breakthrough leading to extensive deployment and widespread commercial maturity are still not achieved. Autonomous vessels can offer safer and more efficient operations and cost savings. New skills and training needed for MASS is a critical issue to ensure safe operations. Proposals are expected to explain the contribution of their objectives, results, IP management and exploitation strategy to the EU added value creation and strategic autonomy throughout the supply and value chain, including competitiveness of the EU waterborne industry, enhancement of the EU's R&I capacity, technological know-how capabilities and human capital, and resilience of the EU industrial and manufacturing base. Proposals are encouraged to prioritise shipyards, equipment manufacturers and providers located and/or manufacturing in the EU and EEA.

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Innovative Solutions for mitigating the environmental impact of waterborne transport in marine and aquatic Ecosystems

HORIZON-CL5-2027-03-D5-17

Program:	Horizon Europe Cluster 5.
Típus:	Research & Innovation Action
TRL szint:	5
Támogatás projektenként:	7M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	15 Dec 2026
Beadási határidő:	14 Apr 2027
Felhívás linkje:	Link

This topic supports the EU Water Resilience Strategy and Oceans Pact by addressing the impact of waterborne transport on marine and freshwater ecosystems. While decarbonization technologies may reduce pollution, renewable low- and zero-carbon fuels could introduce new environmental risks, both through regular use and accidental spills.

The aim is to assess, forecast, and mitigate these impacts by developing innovative abatement and mitigation strategies. Projects should focus on minimizing harm from both current and emerging technologies in maritime and inland water transport.

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Enhanced electric operation and battery durability

HORIZON-CL5-2027-03-D5-18

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	8
Támogatás projektenként:	10M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	15 Dec 2026
Beadási határidő:	14 Apr 2027
Felhívás linkje:	Link

This topic focuses on enhancing fully battery-electric operation for ferries, offshore, short sea, and inland vessels, considering service profiles and charging infrastructure. Key areas include extending operational range, enabling fast charging without compromising battery life, and optimizing onboard electrical systems, battery chemistry, and management systems.

It also addresses crew training, vessel-battery life cycle integration, and safe operation at peak propulsion power. Proposals should cover vessel-port interface and regulatory procedures to ensure safe, efficient, and sustainable electric vessel operations.

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Non-exhaust emissions in road and railway transport

HORIZON-CL5-2026-06-Two-Stage-D5-19

Program:	Horizon Europe Cluster 5.
Típus:	Research & Innovation Action
TRL szint:	5-6
Támogatás projektenként:	3,5M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	18 Dec 2025
Beadási határidő:	14 Apr 2026; 08 Oct 2026
Felhívás linkje:	Link

With the growing electrification of cars and railways, non-exhaust particulate emissions are becoming increasingly important. These emissions originate from brake and tyre wear, road and rail surface wear, pantograph-catenary contact, and the resuspension of dust from road or track surfaces. Other sources may include engine belts and clutch plates. Unlike exhaust emissions, data on NEE are limited and highly variable, depending on materials used and driving behavior. The health effects of NEEs are not yet well understood, especially in comparison to combustion-related particles. Their potential impact on terrestrial and aquatic ecosystems is also uncertain. Rail-related particulate emissions are particularly understudied, with limited data on their chemical composition, dispersion patterns, and environmental effects, especially across urban and rural settings. Further research is needed to improve our understanding of how these particles are generated, how they behave in the environment, and what risks they pose to human health and ecosystems. This knowledge is essential for developing targeted mitigation strategies.

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Assessing the effect of airport operations on air quality and noise in nearby communities

HORIZON-CL5-2027-03-D5-20

Program:	Horizon Europe Cluster 5.
Típus:	Research & Innovation Action
TRL szint:	5-6
Támogatás projektenként:	3,5M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	15 Dec 2026
Beadási határidő:	14 Apr 2027
Felhívás linkje:	Link

Aviation emissions not only have an impact on climate change and on GHG emissions but also on air quality as it is recognized that airport-related sources of emissions release pollutants that can contribute to the degradation of air quality of their nearby communities. As such, air quality and noise issues in the vicinity of airports need to be investigated, quantified and addressed. Airports operations can generate water pollution due to their extensive handling of jet fuel and de-icing chemicals, which, if not contained, can contaminate nearby water bodies. Similarly, attention must be given to other possible airport-related environmental impacts associated with noise, water quality, and local ecology in the vicinity of airports.

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Flagship-pilot: large-scale demonstrations of CCAM

HORIZON-CL5-2026-10-D6-01

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	7-8
Támogatás projektenként:	100M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	04 Jun 2026
Beadási határidő:	08 Oct 2026
Felhívás linkje:	Link

This flagship pilot is the culmination of the entire activity catalogue carried out by the CCAM Partnership since its launch in 2021. It will combine in one project the most promising CCAM use-cases across three key domains, with the technological advancements from all its R&I clusters supporting and enabling CCAM systems and services towards market uptake.

CCAM aims to create a safer, more inclusive, and sustainable mobility system by reducing congestion, emissions, and enhancing transport efficiency. It can improve integration with public transport and logistics while boosting productivity through higher automation levels. To demonstrate these benefits, large-scale testing is essential, including validation of enabling vehicle technologies, trusted communication, cybersecurity, and real-time data exchange. Assessing the maturity of automated driving in mixed traffic and confined areas is also key to ensure readiness for deployment. These efforts support the smooth, zero-emission integration of CCAM across the transport system.

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Geopolitical competition and socioeconomic resilience in CCAM: an innovation and policy roadmap for EU leadership

HORIZON-CL5-2026-10-D6-02

Program:	Horizon Europe Cluster 5.
Típus:	Research & Innovation Action
TRL szint:	5-6
Támogatás projektenként:	4M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	04 Jun 2026
Beadási határidő:	08 Oct 2026
Felhívás linkje:	Link

CCAM is a key area of global competition and one of the five pillars of the European Automotive Action Plan for the automotive sector, aimed at helping the industry regain its leadership in the shift towards smarter (AI-powered), cleaner, and more connected vehicles. However, CCAM deployment is shaped by evolving geopolitical dynamics, rapid technological advancements, and economic uncertainties. Europe must secure its leadership in CCAM and strengthen its socioeconomic resilience by continuously addressing vulnerabilities and identifying robust pathways for policy development and market deployment. This topic will assess the global geopolitical landscape of CCAM innovation, map future pathways, and develop evidence-based strategies for policymakers, businesses, and investors. The results will support robust, future-proof policies, business strategies, and investment frameworks, ensuring a resilient, inclusive, and competitive European CCAM ecosystem.

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

HORIZON-CL5-2026-10-D6-03

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

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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Holistic solutions for CCAM integration in critical scenarios

HORIZON-CL5-2027-06-D6-04

Program:	Horizon Europe Cluster 5.
Típus:	Research & Innovation Action
TRL szint:	5-6
Támogatás projektenként:	6M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	03 Jun 2027
Beadási határidő:	07 Oct 2027
Felhívás linkje:	Link

This call focuses on CCAM solutions for critical, high-risk, and less frequent situations, such as extreme weather, road incidents, cyberattacks, or sudden loss of Operational Design Domain (ODD) coverage. These disturbances can affect CCAM operations differently depending on road type, infrastructure, traffic, and incident scale.

It takes a holistic approach by addressing not only technical and vehicle-related aspects, but also the roles of users, service providers, authorities, and cities. The goal is to ensure CCAM systems can respond safely, securely, and effectively, minimizing risks such as safety threats, emissions, and loss of public trust.

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European CCAM knowledge hub and tools for safe and scalable deployment

HORIZON-CL5-2027-06-D6-05

Program:	Horizon Europe Cluster 5.
Típus:	Coordination & Support Action
TRL szint:	-
Támogatás projektenként:	4M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	03 Jun 2027
Beadási határidő:	07 Oct 2027
Felhívás linkje:	Link

Several coordination tools and initiatives, such as the FAME project, support the alignment and international outreach of CCAM activities. FAME developed a European framework for CCAM testing, evaluation, and data sharing, along with a Knowledge Base to support researchers, policymakers, and industry. This will be extended to better address public authorities and citizens. Regular events (e.g. EUCAD) and collaborations with groups like the SRG help align CCAM efforts at European and global levels. Despite regulatory progress—such as the EU Implementing Act and UNECE guidelines—fragmentation across countries remains a major barrier to large-scale deployment. Projects like Hi-Drive, HEADSTART, SUNRISE, and SYNERGIES work toward harmonizing testing and safety assessment frameworks. Continued coordination is essential to support unified approval procedures and accelerate CCAM deployment across Europe.

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Increasing competitiveness and resilience of multimodal freight transport and logistics for competitive supply chains

HORIZON-CL5-2026-10-D6-06

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	7-8
Támogatás projektenként:	7M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	04 Jun 2026
Beadási határidő:	08 Oct 2026
Felhívás linkje:	Link

Freight transport demand in Europe is expected to double in the coming decades, making it essential to enhance the capacity, efficiency, and resilience of freight transport to maintain the European competitiveness. Despite policy goals to strengthen multimodal transport, double rail freight's share by 2050, and increase transport by inland waterways and short sea shipping by 50% by 2050, unimodal road transport remains more competitive, and the growth of multimodal freight has been limited. The lack of integration of rail, inland waterways and multimodal data into logistics and supply chain solutions is one of the main barriers, hindering the efficient and competitive adoption of multimodality. Furthermore, improving system resilience requires better tools and solutions for multimodal operators to manage disruptions and ensure supply chain continuity.

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Supporting sustainable and smart urban mobility in Europe

HORIZON-CL5-2026-10-D6-07

Program:	Horizon Europe Cluster 5.
Típus:	Coordination and Support Action
TRL szint:	-
Támogatás projektenként:	4M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	04 Jun 2026
Beadási határidő:	08 Oct 2026
Felhívás linkje:	Link

Efficient and sustainable urban mobility is essential for competitive, climate-neutral cities, with local and regional authorities playing an increasingly important role in the EU's green and digital transitions. However, innovation uptake is hindered by fragmented support, limited resources for testing new approaches, lack of access to research results, and weak knowledge exchange among urban stakeholders. This coordination and support action aims to tackle these barriers through a comprehensive, collaborative approach, enhancing knowledge sharing, stakeholder engagement, and the broader uptake of innovative mobility solutions across Europe

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Enhancing Mobility for All: affordable, reliable, and accessible multimodal transport for inclusive rural and urban connectivity – Societal Readiness pilot

HORIZON-CL5-2027-06-D6-08

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	7-8
Támogatás projektenként:	7M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	03 Jun 2027
Beadási határidő:	07 Oct 2027
Felhívás linkje:	Link

EU policies, such as the Sustainable and Smart Mobility Strategy and the European Green Deal, emphasise the need for inclusive, efficient, and sustainable transport systems that leave no one behind. Transport poverty refers to individuals' and households' inability or difficulty to meet the costs of private or public transport, or their lack of or limited access to transport needed for their access to essential socioeconomic services and activities. Considering the national and spatial context, transport poverty affects both rural and underserved urban areas. Addressing this challenge requires innovative multimodal transport solutions which integrate various modes efficiently, leveraging digitalisation, shared mobility, and demand-responsive transport to enhance affordability, reliability, and accessibility, thereby ensuring Mobility as a Right.

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Road Safety and resilience of rural areas

HORIZON-CL5-2026-10-D6-09

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

Over 50% of EU road fatalities occur on rural roads, highlighting the urgent need to address rural road safety to achieve Vision Zero by 2050. Local and regional authorities play a key role in reducing fatalities and serious injuries. The Road Infrastructure Safety Management (RISM) Directive introduced network-wide and in-built safety assessments to better understand risks beyond crash hotspots, though current methodologies mostly cover motorways and primary rural roads, leaving secondary roads and user behavior less studied. In ageing societies, cognitive and physical impairments further challenge safe mobility, especially in rural areas with limited transport alternatives. Additionally, authorities must manage risks from extreme weather and natural disasters, requiring a more holistic approach to road safety and resilience.

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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:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	6-7
Támogatás projektenként:	5M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	04 Jun 2026
Beadási határidő:	08 Oct 2026
Felhívás linkje:	Link

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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Enhancing Resilience and Accuracy in Positioning, Navigation, and Timing (PNT) Systems and e-conspicuity solutions

HORIZON-CL5-2027-06-D6-11

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	6-7
Támogatás projektenként:	5M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	03 Jun 2027
Beadási határidő:	07 Oct 2027
Felhívás linkje:	Link

This topic addresses alternative PNT methods that are essential to provide fallback options in case of GNSS signal loss or degradation. Great benefit is expected through integration of PNT technology with rapidly emerging technologies, such as 5G/6G and Internet of Things (IoT). The aim is to investigate innovative solutions for PNT – including the impact on the regulatory framework, integrating advanced 5G technologies and IoT to act as complementary, redundant, secure and resilient navigation solutions for aviation, including UAS, in challenging environments.

The topic also addresses e-conspicuity, aiming to enhance pilot awareness notably at lower altitudes in U-space airspace in order to reduce collision risk in general aviation, where most small aircraft rely on see-and-avoid. Mobile telephony, with minimum network performance requirements, can provide a safe, affordable communication solution for U-space entry and flight safety.

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Support for dissemination events in the field of Transport Research

HORIZON-CL5-2027-06-D6-12

Program:	Horizon Europe Cluster 5.
Típus:	Coordination and Support Action
TRL szint:	-
Támogatás projektenként:	1,5M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	03 Jun 2027
Beadási határidő:	07 Oct 2027
Felhívás linkje:	Link

The action will prepare and provide support to the Transport Research Arena (TRA) conference to be organised in 2030 gathering transport stakeholders for discussing political, industrial and research issues on a European and global level.

In line with previous TRA biennial conferences, the event should address the technological and industrial developments of the transport sector (i.e. road, rail, waterborne, aviation sectors and cross-modal aspects) providing a high level, future-oriented perspective coming from politics, the industry and the research community, in response to Europe's social and competitiveness needs and expectations. Specific attention should be put on a broad and balanced participation in the conference i.e., students, young researchers, women, many country representatives, etc.

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Pályázati lehetőségek a Horizont Európa Cities Mission és Climate Change Mission releváns felhívásaiból



Energy efficient urban and sub-urban public transport, complemented by shared mobility

HORIZON-MISS-2026-04-CIT-01

Program: **Horizon Europe Cities Mission**

Típus: **Innovation Action**

TRL szint: **6-8**

Támogatás projektenként: **10M EUR**

Támogatott projektek száma: **2**

Pályázati felület megnyílik: **04 Feb 2026**

Beadási határidő: **17 Sep 2026**

Felhívás linkje: [LINK](#)

Public transport is firmly at the centre of sustainable urban mobility policies at EU level and across Member States, in complementarity with active mobility and shared mobility services. However more needs to be done to make sure that urban and suburban public passenger transport, including coaches, and urban mobility service car fleets are energy efficient and attractive. The objective of this topic is to explore and test solutions to increase energy-efficiency and attractiveness of urban and sub-urban public transport, urban mobility service car fleets, and other active and shared mobility solutions, in the pilot sites involved in the proposals, including by facilitating exchange of experiences and good practices and fostering learning at European level. The work should lead to an updated and comprehensive overview of the state of the art of the electrification of urban and sub-urban public transport systems, and urban mobility service car fleets and shared mobility solutions, including an assessment of gaps and shortcomings in existing systems.

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Transition to low-temperature heating solutions in multi-apartment buildings

HORIZON-MISS-2026-04-CIT-02

Program:	Horizon Europe Cities Mission
Típus:	Innovation Action
TRL szint:	6-8
Támogatás projektenként:	6M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	04 Feb 2026
Beadási határidő:	08 Okt 2026
Felhívás linkje:	LINK

Low-temperature district heating systems in urban areas offer higher potential for integration of renewable energy sources and waste heat, but their deployment is slowed down because the existing stock of inefficient buildings has been designed for high-temperature heat delivery systems. The topic supports the creation of the conditions necessary for the conversion of existing supply solutions – district heating, as well as individual heating ones – into low-temperature alternatives, along with reducing and optimising the heat load of buildings. Low-temperature district heating systems in urban areas offer higher potential for integration of renewable energy sources and waste heat, but their deployment is slowed down because the existing stock of inefficient buildings has been designed for high-temperature heat delivery systems. The topic supports the creation of the conditions necessary for the conversion of existing supply solutions – district heating, as well as individual heating ones – into low-temperature alternatives, along with reducing and optimising the heat load of buildings.

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Innovative microgrids for improved energy system integration and efficiency in urban contexts

HORIZON-MISS-2027-04-CIT-01

Program: **Horizon Europe Cities Mission**

Típus: **Innovation Action**

TRL szint: **7-8**

Támogatás projektenként: **7M EUR**

Támogatott projektek száma: **3**

Pályázati felület megnyílik: **09 Feb 2027**

Beadási határidő: **07 Oct 2027**

Felhívás linkje:

Most electric appliances in buildings are based on Direct Current: PV panels, stationary and e-vehicle batteries, LED lighting, IT equipment, heat pumps and other appliances. Their connection to a LVDC microgrid inside the building would significantly improve energy and materials efficiency and optimise local electrical and/or thermal energy storage and self-consumption of local renewables, contribute to grids stability through demand response and ancillary services, and increase resilience by enabling islanded operation. The required power capacity of the connection of the LVDC microgrid to the AC distribution grid via a central AC/DC converter would be significantly lower than a traditional AC installation, thereby reducing pressure on city grid. The LVDC microgrid could also be implemented at small neighbourhood level (e.g. a street), possibly in parallel to an existing AC grid, enabling more efficient and easier sharing of common energy assets and self-consumption in an energy community

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Hydrogen cities

HORIZON-MISS-2027-04-CIT-02

Program:	Horizon Europe Cities Mission
Típus:	Coordination and Support Action
TRL szint:	-
Támogatás projektenként:	5M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	09 Feb 2027
Beadási határidő:	07 Oct 2027
Felhívás linkje:	

The selected project is expected to establish ‘twinning’ of Hydrogen Valleys (in particular those that have elements relevant for cities or ports) with cities that are interested to decarbonise their local and peri-urban hard-to-abate sectors using hydrogen. Focus should be on hard-to-abate and/or hard-to-electrify sectors, such as industrial uses, heavy-duty and long-distance transport, aviation, maritime uses, or any combination thereof. The use of hydrogen for heating purposes is out of scope. Twinning will help cities to access the best available expertise and tools that can enable them to identify and implement decarbonisation strategies based on renewable hydrogen. To foster cooperation between cities and Member States, it is encouraged that there is a geographical balance between the participating authorities to foster learning from different projects and approaches.

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Inclusive and climate resilient multimodal passenger hubs enhancing modal shift towards sustainable transport and shared mobility

HORIZON-MISS-2027-04-CIT-03

Program:	Horizon Europe Cities Mission
Típus:	Innovation Action
TRL szint:	7
Támogatás projektenként:	9M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	09 Feb 2027
Beadási határidő:	07 Okt 2027
Felhívás linkje:	

This topic focuses on the climate resilience of major multimodal passenger hubs' infrastructures and services connecting cities as well as peri-urban and rural areas. At least three demonstrators per project are required. As defined in the revised TEN-T regulation²²⁵, 'multimodal passenger hub' means a connection point between at least two transport modes for passengers, where travel information, access to public transport and transfers between modes are ensured, such as park-and-ride stations, and which acts as an interface within and between urban nodes and between urban nodes and longer-distance transport networks. Projects will complement the implementation of the above requirement for TEN-T urban nodes by demonstrating concrete solutions for improving the climate resilience of multimodal passenger hubs.

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Advancing circular logistics solutions in cities

HORIZON-MISS-2027-04-CIT-CCRI-04

Program:	Horizon Europe Cities Mission
Típus:	Research & Innovation Action
TRL szint:	7-8
Támogatás projektenként:	7.5M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	09 Feb 2027
Beadási határidő:	10 Okt 2027
Felhívás linkje:	

The rapid growth of e-commerce and urban logistics has led to an increase in packaging waste, inefficiencies in freight transport, and rising environmental impacts. Current urban logistics systems often rely on disposable packaging and fragmented transport operations, resulting in significant material waste, resource inefficiency and carbon emissions. Addressing these challenges requires innovative circular economy approaches, promoting systemic, innovative, circular and scalable solutions for reducing waste generation, in line with the revised EU Packaging and Packaging Waste Regulation (PPWR)²⁷³, and improving resource efficiency in business-to-business and business-to-consumer logistics.

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Boosting the transformation towards climate-neutral cities, the net-zero economy and open strategic autonomy through Pre-Commercial Procurement

HORIZON-MISS-2027-04-CIT-05

Program:	Horizon Europe Cities Mission
Típus:	Pre-commercial procurement
TRL szint:	-
Támogatás projektenként:	7 to 10 EUR
Támogatott projektek száma:	2-3
Pályázati felület megnyílik:	09 Feb 2027
Beadási határidő:	10 Okt 2027
Felhívás linkje:	

By closing the gap between supply and demand in a way that reinforces EU open strategic autonomy, PCPs can make a key contribution to enhancing the European Union's economy and competitiveness. In order to master the green and digital transition and make our cities climate-neutral and liveable places, European public procurers need to lead by example by procuring more solutions to reduce greenhouse gas emissions. This topic therefore focuses on forward looking procurement of R&D to bring to the market new solutions to reduce greenhouse gas emissions that can increase Europe's resilience and preparedness to tackle the climate challenge.

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Improving climate resilience of navigable inland waterways, their surroundings and related water infrastructures

HORIZON-MISS-2026-01-CLIMA-06

Program:	Horizon Europe Missions
Típus:	Research and Innovation Action
TRL szint:	
Támogatás projektenként:	7.5M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	2026 Február 4.
Beadási határidő:	2026 Szeptember 23.

Felhívás linkje: **DRAFT**

Successful proposals will support the implementation of the EU Adaptation Strategy, the EU Mission on Adaptation to Climate Change, the water resilience Strategy, the EU Preparedness Strategy and the upcoming European Climate Adaptation Plan. Proposals are expected to contribute to all of the following expected outcomes:

- Inland waterways and their surroundings and related infrastructure are managed in a more integrated manner across Europe and become more climate-resilient
- Climate and environmental risks to water infrastructure (e.g. droughts, flooding, slow onset events, ecological degradation) are more effectively addressed in a systemic way and safe, efficient and reliable navigability conditions are improved
- Cost-efficient and environmentally-friendly measures are identified and they improve climate resilience of inland waterways while supporting integrated co-benefit and avoiding competing water uses.

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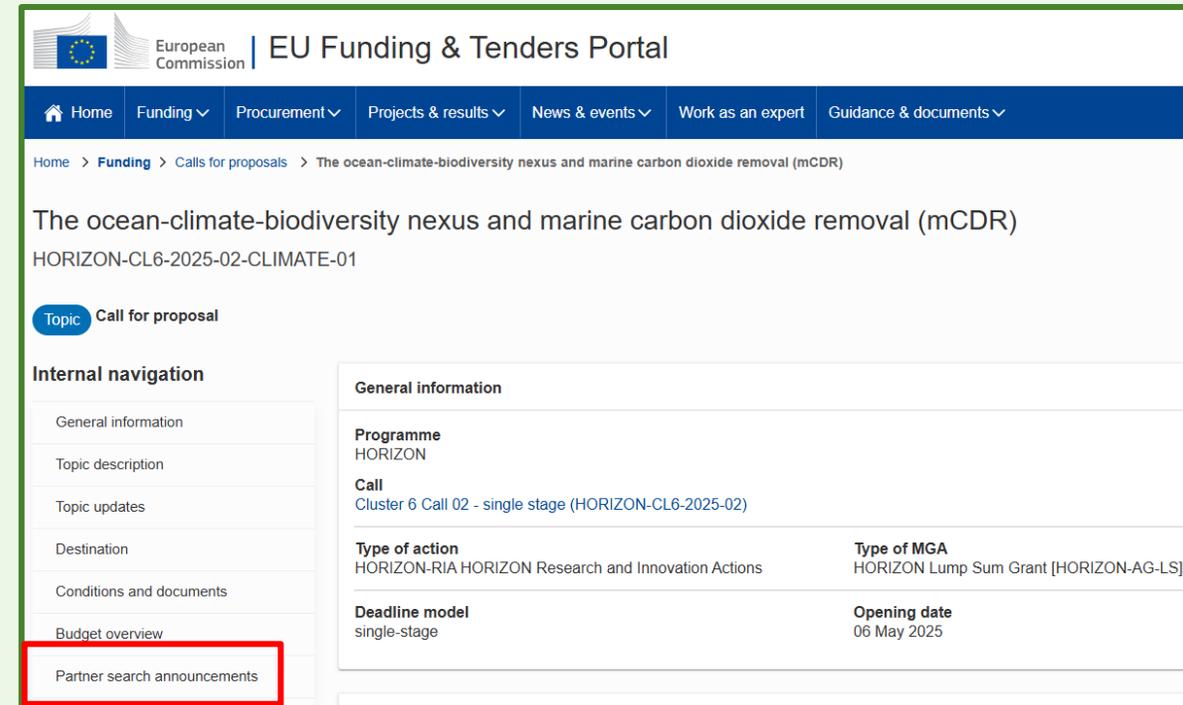
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Partnerkeresés a [Funding & Tenders Portalon](#):

Funding → Calls for proposals menüpont alatt pályázati kiírás kódja szerint keresve minden egyes kiírásnál a bal oldali menüben található egy **Partner search announcements** menüpont, ezt megnyitva az egyes téma kiírásokhoz tartozó partnerkeresések láthatók.



The screenshot displays the EU Funding & Tenders Portal interface. The main navigation bar includes 'Home', 'Funding', 'Procurement', 'Projects & results', 'News & events', 'Work as an expert', and 'Guidance & documents'. The breadcrumb trail shows the path: Home > Funding > Calls for proposals > The ocean-climate-biodiversity nexus and marine carbon dioxide removal (mCDR). The page title is 'The ocean-climate-biodiversity nexus and marine carbon dioxide removal (mCDR) HORIZON-CL6-2025-02-CLIMATE-01'. A 'Topic' tag indicates 'Call for proposal'. The 'Internal navigation' sidebar lists several options, with 'Partner search announcements' highlighted by a red box. The main content area shows 'General information' for the call, including the programme (HORIZON), call details (Cluster 6 Call 02 - single stage), type of action (HORIZON-RIA), type of MGA (HORIZON Lump Sum Grant), deadline model (single-stage), and opening date (06 May 2025).

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