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-CL5-2027-03-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:	**13.50M 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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Hungary

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:	6.5M 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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