

Topic Preview

Horizon Europe Framework Programme

1. Work Programmes, Calls, and Topics

Horizon Europe is divided into several Work Programmes, calls, and topics. The following tables give a preview of the open and forthcoming topics.

HORIZON.2 - Global Challenges and European Industrial Competitiveness

HORIZON.2.5 - Climate, Energy and Mobility

HORIZON-CL5-2024-D5-01 - Clean and competitive solutions for all transport modes

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
HORIZON-CL5-2024-D5-01-01	Smart, low-cost pervasive stationary slow charging and bi-directional solutions synergic with the grid for EV mass deployment (2ZERO Partnership)	HORIZON-IA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-02	Integration and testing of next generation post-800V electric powertrains (2ZERO Partnership)	HORIZON-RIA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-03	Advanced battery system integration for next generation vehicles (2ZERO Partnership)	HORIZON-RIA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-04	Integrated flexible multipoint megawatt charging systems for electric truck mass deployment (2ZERO Partnership) (2024)	HORIZON-IA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-05	Advanced digital development tools to accelerate the development of software defined vehicles that enable zero-emission mobility (2ZERO Partnership)	HORIZON-RIA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-06	New designs, shapes, functionalities of Light Commercial Vehicles (2ZERO Partnership)	HORIZON-IA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-07	Accelerating climate neutral aviation, minimising non-CO2 emissions	HORIZON-RIA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-08	Competitiveness and digital transformation in aviation – advancing further composite aerostructures	HORIZON-RIA	single-stage	18.04.2024

HORIZON-CL5-2024-D5-01-09	Impact monitoring of EU Aviation R&I	HORIZON-RIA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-10	Towards a flying testbed for European leadership in aviation	HORIZON-RIA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-11	Achieving high voltage, low weight, efficient electric powertrains for sustainable waterborne transport (ZEWT Partnership)	HORIZON-RIA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-12	Combining state-of-the-art emission reduction and efficiency improvement technologies in ship design and retrofitting for contributing to the "Fit for 55" package objective by 2030 (ZEWT Partnership)	HORIZON-IA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-13	Demonstration of Technologies to minimise underwater noise generated by waterborne transport (ZEWT Partnership)	HORIZON-IA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-14	Demonstrating efficient fully DC electric grids within waterborne transport for large ship applications (ZEWT Partnership)	HORIZON-IA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-15	Advanced digitalisation and modelling utilizing operational and other data to support zero emission waterborne transport (ZEWT Partnership)	HORIZON-IA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-16	Structuring the Waterborne transport sector, including through changed business and industrial models in order to achieve commercial zero-emission waterborne transport (ZEWT Partnership)	HORIZON-CSA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-17	Coordinating and supporting the combined activities of member and associated states towards the objectives of the Zero Emission Waterborne Transport partnership so as to increase synergies and impact (ZEWT Partnership)	HORIZON-CSA	single-stage	18.04.2024
HORIZON-CL5-2024-D5-01-18	Assessment of air pollutant emissions from low-carbon fuels in the heavy-duty, aviation, and maritime sectors	HORIZON-RIA	single-stage	18.04.2024

HORIZON-CL5-2024-D6-01 - Safe, Resilient Transport and Smart Mobility services for passengers and goods

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
HORIZON-CL5-2024-D6-01-01	Centralised, reliable, cyber-secure & upgradable in-vehicle electronic control architectures for CCAM	HORIZON-RIA	single-stage	05.09.2024

	connected to the cloud-edge continuum (CCAM Partnership)			
HORIZON-CL5-2024-D6-01-02	Scenario-based safety assurance of CCAM and related HMI in a dynamically evolving transport system (CCAM Partnership)	HORIZON-RIA	single-stage	05.09.2024
HORIZON-CL5-2024-D6-01-03	Orchestration of heterogeneous actors in mixed traffic within the CCAM ecosystem (CCAM Partnership)	HORIZON-IA	single-stage	05.09.2024
HORIZON-CL5-2024-D6-01-04	AI for advanced and collective perception and decision making for CCAM applications (CCAM Partnership)	HORIZON-RIA	single-stage	05.09.2024
HORIZON-CL5-2024-D6-01-05	Robust Knowledge and Know-How transfer for Key-Deployment Pathways and implementation of the EU-CEM (CCAM Partnership)	HORIZON-CSA	single-stage	05.09.2024
HORIZON-CL5-2024-D6-01-06	Optimising multimodal network and traffic management, harnessing data from infrastructures, mobility of passengers and freight transport	HORIZON-RIA	single-stage	05.09.2024
HORIZON-CL5-2024-D6-01-07	Scaling up logistics innovations supporting freight transport decarbonisation in an affordable way	HORIZON-IA	single-stage	05.09.2024
HORIZON-CL5-2024-D6-01-08	Improved transport infrastructure performance – Innovative digital tools and solutions to monitor and improve the management and operation of transport infrastructure	HORIZON-IA	single-stage	05.09.2024
HORIZON-CL5-2024-D6-01-09	Policies and governance shaping the future transport and mobility systems	HORIZON-RIA	single-stage	05.09.2024
HORIZON-CL5-2024-D6-01-10	Ensuring the safety, resilience and security of waterborne digital systems	HORIZON-RIA	single-stage	05.09.2024
HORIZON-CL5-2024-D6-01-11	Effects of disruptive changes in transport: towards resilient, safe and energy efficient mobility	HORIZON-RIA	single-stage	05.09.2024
HORIZON-CL5-2024-D6-01-12	A new framework to improve traffic safety culture in the EU	HORIZON-RIA	single-stage	05.09.2024

HORIZON-CL5-2024-D2-01 - Cross-sectoral solutions for the climate transition

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
HORIZON-CL5-2024-D2-01-01	Advanced sustainable and safe pre-processing technologies for End-of-Life (EoL) battery recycling (Batt4EU Partnership)	HORIZON-RIA	single-stage	18.04.2024
HORIZON-CL5-2024-D2-01-02	Non-Li Sustainable Batteries with European Supply Chains for Stationary Storage (Batt4EU Partnership)	HORIZON-IA	single-stage	18.04.2024

HORIZON-CL5-2024-D2-01-03	Development of technical and business solutions to optimise the circularity, resilience, and sustainability of the European battery value chain (Batt4EU Partnership)	HORIZON-RIA	single-stage	18.04.2024
HORIZON-CL5-2024-D2-01-05	Furthering the development of a materials acceleration platform for sustainable batteries (combining AI, big data, autonomous synthesis robotics, high throughput testing) (Batt4EU Partnership)	HORIZON-RIA	single-stage	18.04.2024

HORIZON-CL5-2024-D2-02 - Cross-sectoral solutions for the climate transition

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
HORIZON-CL5-2024-D2-02-01	Sustainable high-throughput production processes for stable lithium metal anodes for next generation batteries (Batt4EU Partnership)	HORIZON-IA	single-stage	05.09.2024
HORIZON-CL5-2024-D2-02-02	Post-Li-ion technologies and relevant manufacturing techniques for mobility applications (Generation 5) (Batt4EU Partnership)	HORIZON-RIA	single-stage	05.09.2024
HORIZON-CL5-2024-D2-02-03	Size & weight reduction of cell and packaging of batteries system, integrating lightweight and functional materials, innovative thermal management and safe and sustainable by design approach (Batt4EU Partnership)	HORIZON-IA	single-stage	05.09.2024

EU-RAIL JU Call Proposals 2024-01 (HORIZON-ER-JU-2024-01)

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
HORIZON-ER-JU-2024-FA5	DIGITAL AUTOMATIC COUPLER – TESTING TO SUPPORT DAC AUTHORISATION, MIX AND MATCH FOR DAC COUPLER HEAD AND DRAFT GEAR INTERCHANGEABILITY AND DAC HYBRID COUPLER FITTING SOLUTIONS	HORIZON-IA	single-stage	07.05.2024
HORIZON-ER-JU-2024-FA7	HYPERLOOP – ROADMAP TOWARDS INDUSTRIALISATION AND HARMONIZED IMPLEMENTABLE CONCEPT	HORIZON-RIA	single-stage	07.05.2024
HORIZON-ER-JU-2024-FA2-SNS	EU-RAIL – SNS SYNERGY: DIGITAL & AUTOMATED TESTING AND OPERATIONAL VALIDATION OF THE NEXT EU RAIL COMMUNICATION SYSTEM	HORIZON-IA	single-stage	07.05.2024

2. More Information on Calls and Topics

Funding and Tender Opportunities Portal

The [Funding and Tender Opportunities Portal](#) is the online entry point for Horizon Europe applicants. The portal provides the full topic texts, updates, links to regulations etc.

Work Programme (PDF Version)

In addition to the Funding and Tender Opportunities Portal, the PDF version of the Work Programme, available in the section “Topic conditions and documents” of the topic, provides further information on the topic texts (introduction to the policy background, budget overview etc.).

3. Types of Actions

Type of Action (Abbr.)	Type of Action	Funding Rate	Conditions*	Comment
RIA	Research & Innovation Actions	100%	≥ 3 legal entities from ≥ 3 MS/AC**	Establish new knowledge and/or explore the feasibility of a new or improved technology
IA	Innovation Actions	70% (100% for public & non-profit bodies)	≥ 3 legal entities from ≥ 3 MS/AC**	Produce plans & arrangements or designs for new, altered or improved products, processes or services
CSA	Coordination and Support Actions	100%	≥ 3 legal entities from ≥ 3 MS/AC**	Contribute to the objectives of the Horizon Europe Programme, excluding research and innovation activities
PCP	Pre-Commercial Procurement	≥ 100%	≥ 1 MS/AC Public Procurer(s) [≥ 1 MS/AC private and/or NGO procurer(s)]	Enable a transnational buyers' group to reinforce the public procurement of R&I (possibly with first deployment of new solutions)
PPI	Public Procurement of Innovative Solutions	≥ 50%	≥ 1 MS/AC Public Procurer(s) [≥ 1 MS/AC private and/or NGO procurer(s)]	Enable a transnational buyers' group to reinforce the early deployment of innovative solutions by overcoming the fragmentation of demand

* MS: Member State; AC: Associated Country

** Each consortium has to include at least one Member State

4. Partnering Services

Provider	Platform
Euresearch	Overview of Partnering Platforms
European Commission	Funding and Tender Opportunities Portal
European Commission	CORDIS
Enterprise Europe Network (EEN)	Swiss EEN - Innosuisse

5. Further Questions

Your Euresearch Office in the Region for questions regarding formal and administrative matters (proposal submission, eligibility criteria, budgeting, etc.)

[Office in your Region](#)

Your National Contact Point for questions concerning the scientific aspects of your proposal.

[National Contact Points](#)