

SUSTAINABLE TRANSPORT

Horizon Europe (Transport)

Research and innovation for sustainable transport sectors. Developing solutions and services for clean, competitive, safe, smart and resilient transport and mobility.

Budget (2021-2027): €10.78 billion ⁽²⁾

Key Areas	<ul style="list-style-type: none"> • Road transport to zero-emission mobility (operation of electric vehicles, battery management, frugal zero emission vehicles, circular economy approaches) • Aviation (hydrogen powered & electrified aviation, digital transformation) • Waterborne transport (including inland waterway transport and maritime transport, offshore supply, environmental impact of shipyards, vessels, monitoring networks, underwater noise) • Impact of transport on environment and human health, air pollutant emissions from low-carbon fuels • Safe, Resilient Transport and Smart Mobility services for passengers and goods (Connected, Cooperative and Automated Mobility (CCAM), multimodal transport, infrastructure and logistics, operational automation, climate resilient and safe maritime ports, road transport & aviation safety, digital tools and solutions to monitor and improve the management and operation of transport infrastructure) 			
WHO can apply?	<ul style="list-style-type: none"> • EU Member States, associated countries, low to middle income countries (see Chapter 8 of the Horizon Europe Programme Guide) • Legal entities: Public or private bodies, natural persons • International organisations <p>Beneficiaries must register in the participant register before submitting applications. For Research and Innovation Actions (RIAs) and Innovation Actions (IAs), consortia must include at least one independent entity established in a Member State and at least two other independent legal entities established in different Member States or associated countries. Legal entities from Member States and associated countries that are public bodies, research organisations or higher education establishments (including private research organisations and higher education establishments) must have a gender equality plan to be eligible.</p>			
WHAT activities can be funded?	<ul style="list-style-type: none"> • R&I projects • Studies • Technology deployment • Close to market projects • Training/capacity building • Technical assistance 			
Range of EU Contribution	<ul style="list-style-type: none"> • Research and Innovation Actions (RIAs): up to 100%. • Innovation Actions (IAs): up to 70% and in specific calls/topics up to 60% (except for non-profit legal entities, where a rate of up to 100% applies). • Coordination and Support Actions (CSAs): up to 100%. 			
Links to relevant calls	HE Transport Calls for proposals			
Target Technology Readiness Level (TRL)	From 2 (Technology concept formulated) to 8 (System complete and qualified) As detailed in the TRL scale annexed to the Work Programmes of the Horizon Europe EU funding programme .			
Project examples HE Transport featured projects	<p>CHEK (June 2021 – May 2024)</p> <p>The project pioneers the development of zero-emissions shipping with a future-proof vessel design platform, which is used to develop and demonstrate two bespoke vessel designs in practice: a wind energy optimised bulk carrier and a hydrogen-powered cruise ship.</p> <p>Both use an interdisciplinary combination of technologies that work together to reduce greenhouse gas emissions by 99%, while saving at least 50% energy.</p>	<p>OLGA (October 2021 – September 2026)</p> <p>The project is part of the bigger plan for aviation decarbonisation. The consortium, consisting of airports, airlines, ground handlers, industry, research bodies and SMEs, aims at integrating sustainable aviation fuels supply chains in conventional jet fuel infrastructure and demonstrate complementary types of low-emission mobilities, electric ground support equipment, hydrogen infrastructure and reduced carbon airside operations.</p>	<p>MODI (October 2022 – March 2026)</p> <p>The project's aim is to identify and address barriers in confined areas and on public roads for autonomous vehicles (no requirement for human interaction in their operations) on the corridor from Rotterdam to Oslo and demonstrate the solutions.</p>	<p>EBRT2030 (January 2023 – December 2026)</p> <p>The project will develop technology-focused key innovation solutions for European bus rapid transport (BRT).</p> <p>It will run seven demonstrations of BRT system innovative solutions in real operation. The project will also define a new European concept of BRT for the year 2030, benefitting from the evaluation, multiplication and replication of the real operation test of innovations.</p>

⁽²⁾ Budget for Cluster 5 all sectors – Climate, Energy and Transport (without UK contribution). With estimated amounts on 2021-27 EU Missions.