

Towards zero emission road transport
partnership



2Zero Partnership objectives and current projects

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General context and overall objectives

Who we are



- Building on the success of the European Green Vehicles Initiative cPPP in Horizon 2020 and the successful experience from Green Cars.
- Involvement of the public side (DG RTD, DG MOVE, DG ENER, DG CLIMA) and the Association gathering the members of the private side of the cPPP
- EGVIafor2Zero is currently composed of 125 industry, research and associate members
- Budget:
 - 615 million euros from the European Union
 - 615 million euros from the Partners other than the Union

What do we want to achieve?



Contribute to Europe having the first **carbon-neutral road transport system by 2050**

Technology leadership supporting economic growth and job safeguard, creation all over Europe

Ensure **European competitiveness** thanks to solutions for an integrated carbon neutral road transport ecosystem

Improve the **health and quality of life of EU citizens** and ensure mobility for people and goods

2Zero 4 pillars

Vehicle technologies and vehicle propulsion solutions for BEV and FCEV

Integration of the battery electric vehicle into the energy system and related charging infrastructure

Innovative concepts, solutions and services for the zero emission mobility of people and goods

LCA and circular economy approaches for sustainable and innovative road mobility solutions



What we do?

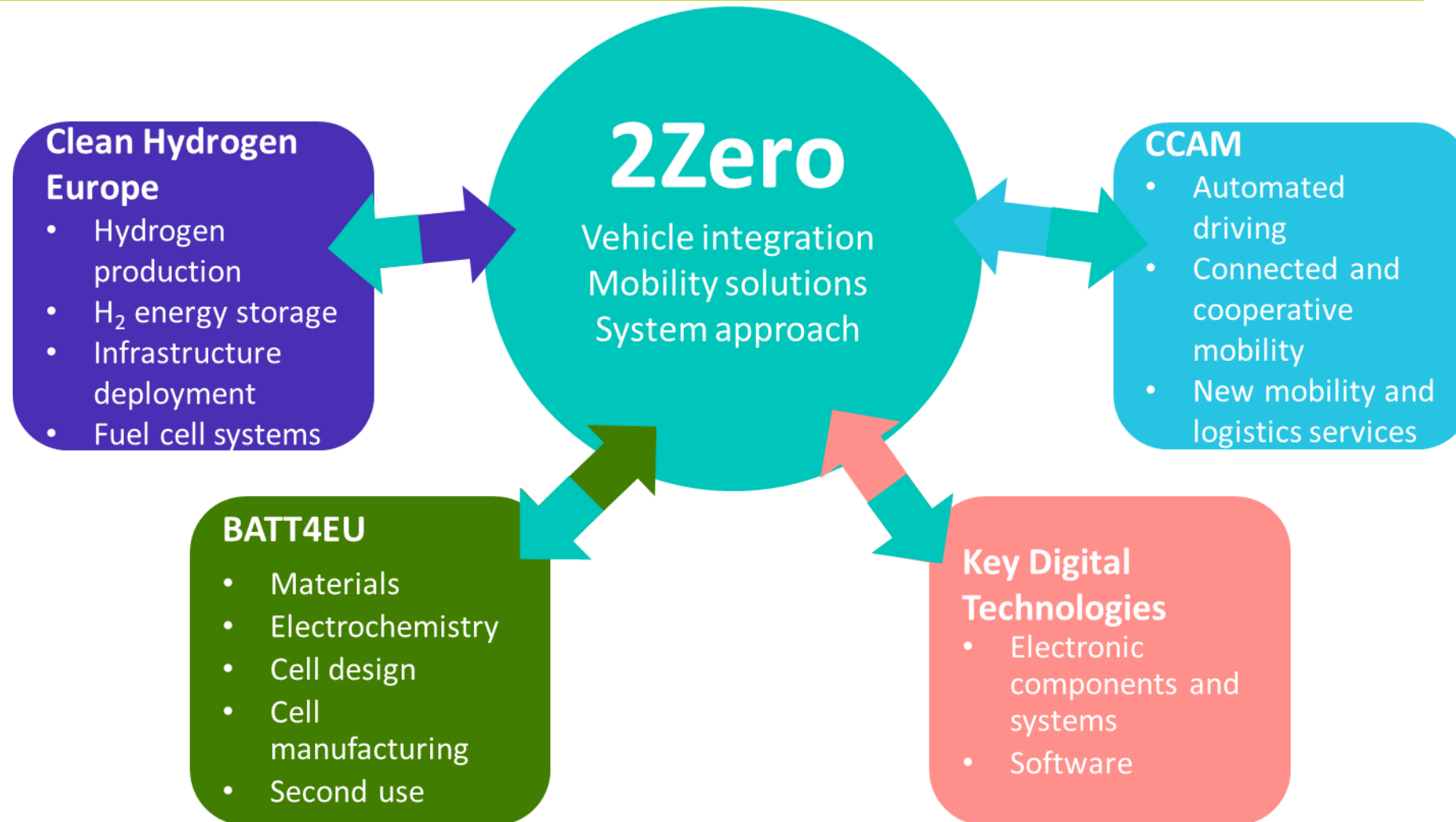
What are we doing in 2Zero?



- Covering many activities:

- Research and innovation
- Communication
- Management / coordination

Coordination with other partnerships





**What has already been covered
by the EU funding?**

9 projects in
Charging

M€ 77,25
EU Financial
Contribution



1 project in
Next
Generation
Electric
Vehicles

M€ 10
EU Financial
Contribution



4 projects
in Next
Generation
HDV

M€ 69,2
EU Financial
Contribution



ΣMPOWER





What to expect in the 2025 Work Programme?

Upcoming activities - 2025 Work Programme



HORIZON-CL5-2025-04-D5-01	Efficient wireless stationary bidirectional charging solutions for road Light Duty Vehicles
HORIZON-CL5-2025-04-D5-02	Cybersecure and resilient road e-mobility ecosystem
HORIZON-CL5-2025-04-D5-03	Safe postcrash management of road Light Duty Battery Electric Vehicles (BEVs)
HORIZON-CL5-2025-04-D5-04	Extended lifetime of road Battery Electric Vehicles (BEV)
HORIZON-CL5-2025-04-D5-05	Road Battery Electric Vehicles (BEV) optimised user-centric solutions for energy efficiency design and consistent range throughout weather conditions
HORIZON-CL5-2025-04-D5-06	Strategies, tools and concepts for optimised road Battery Electric Vehicles (BEV) long-haul logistics use cases

Expected outcomes - HORIZON-CL5-2025-04-D5-06



Accelerated uptake of HD-BEV through innovative logistics models, addressing the need to optimise battery size and charging strategies across various logistics scenarios.

Enhanced reliability and effectivity of the road freight systems enabled by the development and implementation of software tools for decision making considering truck configurations, charging strategies, missions and efficient operational planning of routes and services.

Increased portfolio of real-life HD-BEV operational demonstrations for long-haul and cross border operations and associated logistics models.

Enhanced understanding of stakeholders' needs for integrating HD-BEVs in logistics operations, also long-term novel usage models.

Key points of the scope - HORIZON-CL5-2025-04-D5-06



Derive in-depth insights and lessons learnt from current long-haul transport missions along major road arteries (e. g. TEN-T corridors and nodes) towards overcoming the limitations determined by vehicle range and TCO and propose cost-effective HD BEV based logistics and operational models, building on modular vehicles set up and sound charging strategies;

Develop and test associated digital tools for effective, robust integration in the overall logistics operations and fleets, and facilitating interoperable cross-border services – also developing where relevant digital twins to optimise concepts, models, solutions and operations;

Test and validate in real demonstrations new logistic operational concepts and models allowing a scalable deployment of HD-BEV, based on existing fleets of operators with different categories of vehicles and missions. Demonstration should at least include 8 different types of long-haul missions;

Develop scenarios for optimum balance of vehicles' performance and configuration, charging strategies and solutions.

Conditions - HORIZON-CL5- 2025-04-D5-06



Budget per
project:
€5 million



of projects to
be funded:
1



Action type:
IA

Visit the Info Day webpage for
more information



TRL to be
achieved at the
end of the
project: **TRL7-8**



Financial
set-up:
**Lump sum
funding**



Deadline to
submit your
proposal: **4th
September**

CLICK HERE





What's next?

2026 / 2027 Work Programme



- Large Scale Demonstration of Heavy-Duty Battery Electric (HD BEV) towards long-haul logistics operations
- Data-driven circular economy for e-mobility ecosystem
 - Sub-area A) Circular economy for ZEV powertrains and infrastructure
 - Sub-area B) Data-driven life-cycle management of ZEV
- Demonstration of zero emission coaches and buses in long-distance operations
- Higher voltage, MCS compatible, and modular powertrain for Heavy Duty Vehicles (HDV)
- Energy-efficient software-defined EVs
- Fire prevention and mitigation for EVs in confined areas

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THANK YOU

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