



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

Get lunch with 2Zero Pillar 3

Welcome to Get lunch with 2Zero Pillar 3

Thank you for joining us.

Please make sure to have your micro muted.

Any question can be asked through the chat.

The presentations will be accessible on the EGVI website and will be shared by email to the participants, after the event.

The meeting is being recorded.



2Zero partnership overview

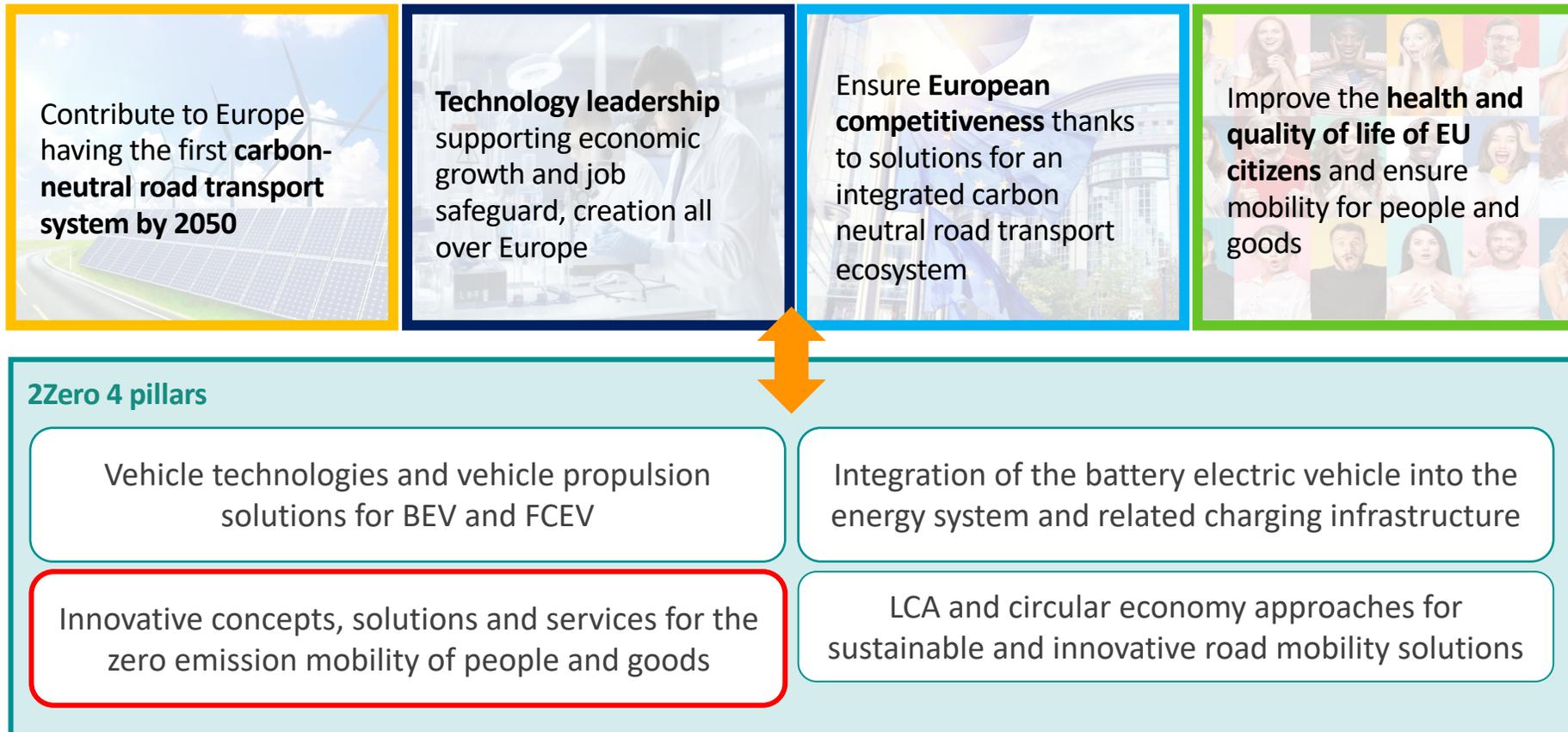
Lucie Beaumel

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
- **Main objectives:**
 - Deliver research topics recommendations for 2Zero calls
 - Disseminate information within the research community
 - Promote the partnership and its collaborative cooperation
- **The Association is** currently composed of **99** industry, research and associate members

What do we want to achieve?



Focus on zero tailpipe emission solutions



Battery Electric

Fuel cell electric vehicles



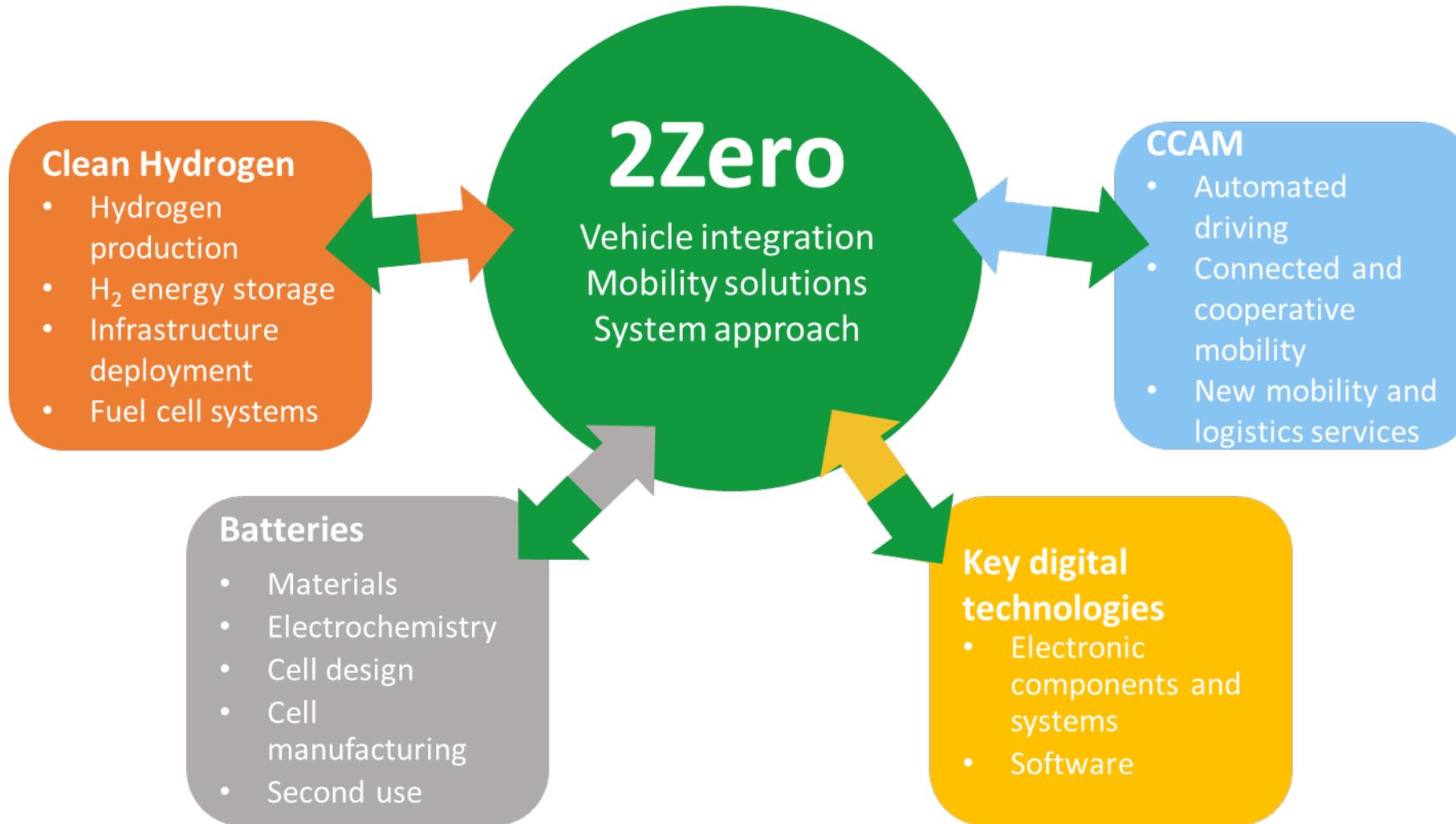
BEV

- Vehicle integration of innovative battery technologies
- Vehicle architecture
- Battery management systems and thermal system
- Battery packs and modules
- Power electronic and charging solutions
- Advanced electric motors
- Integration of BEV into the grid

FCEV

- Electrification of heavy duty vehicles
- Integration of fuel cell systems into vehicles, focusing on heavy duty vehicles
- Synergy of electronics and vehicles architecture with electric vehicles
- Integration of hydrogen components (tank, sensors,...)

Coordination with other partnerships





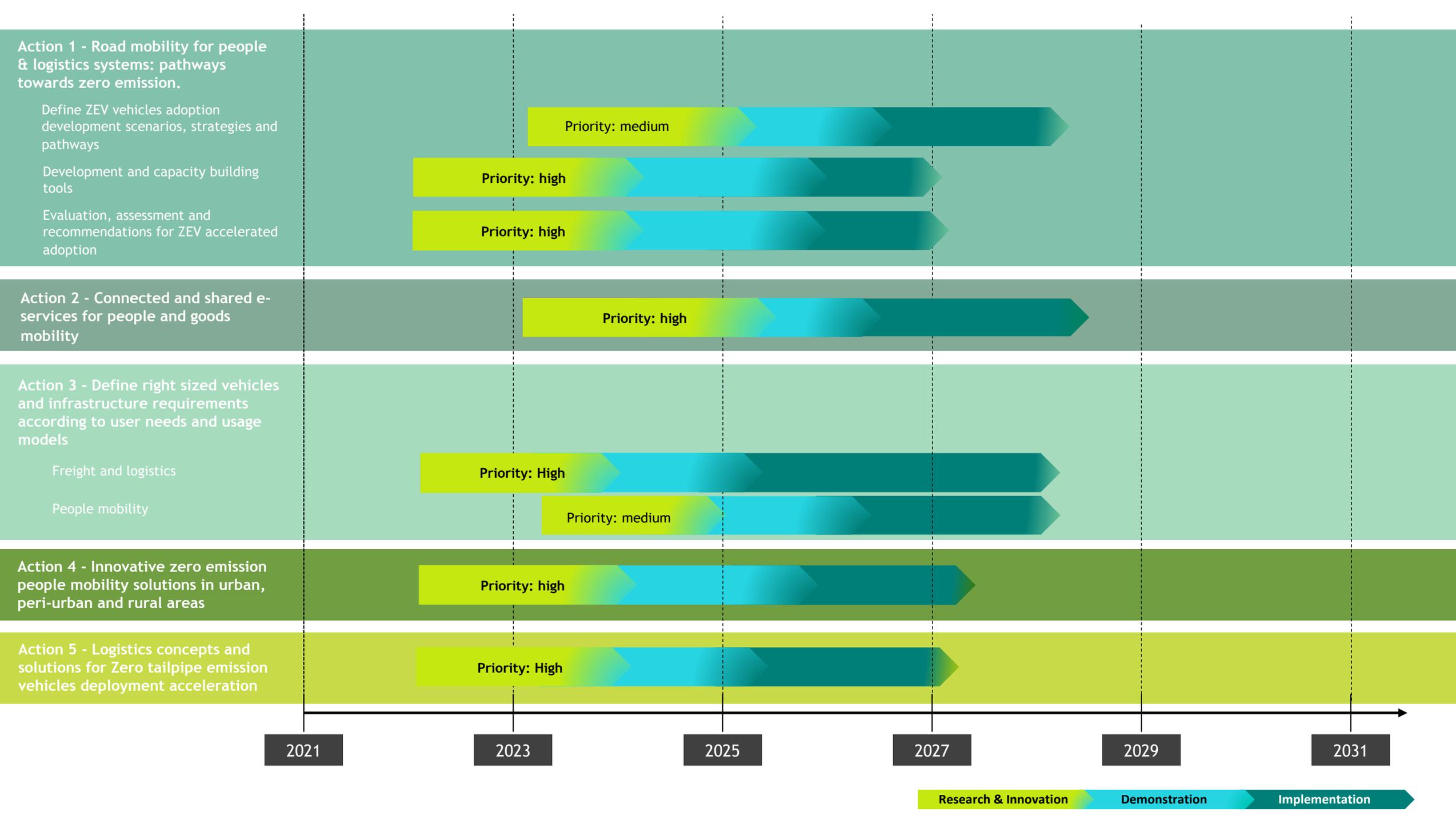
What to expect from Pillar 3?

Co-leaders

Pillar 3 key objectives



- **Develop and support evidence-based deployment integrated strategies and solutions** allowing quick and effective roll-out and upscale of zero tailpipe vehicle fleets in cities, regions and corridors.
- **Develop and expand the portfolio of zero tailpipe emission mobility and logistics use-cases**, with emphasis on feasible and higher socio-economic and financial impacts cases. The objective is to leverage the integrated system approach. (i.e. vehicle, infrastructure, operations and services) to serve the transport demand effectively with zero emission vehicles.
- **Demonstration and validation of zero tailpipe emission fleets and associated infrastructure** (charging) in connected, shared and on-demand mobility and logistics networks.
- **Demonstration and validation of zero emission fleets** in high frequency and high capacity bus lines and high demand freight transport corridors.
- **Test and learn from use cases to identify and overcome adoption barriers:** operational (vehicle performance, integration with charging infrastructure, etc.) user driving behaviours, user acceptance and legal/regulatory aspects and providing input to further vehicle and infrastructure developments.
- **Capacity building and R&I based policy recommendations** for the effective transition towards zero tailpipe emission road transport.



Action 1 - Road mobility for people & logistics systems: pathways towards zero emission.

- Define ZEV vehicles adoption development scenarios, strategies and pathways
- Development and capacity building tools
- Evaluation, assessment and recommendations for ZEV accelerated adoption

Priority: medium

Priority: high

Priority: high

Action 2 - Connected and shared e-services for people and goods mobility

Priority: high

Action 3 - Define right sized vehicles and infrastructure requirements according to user needs and usage models

- Freight and logistics
- People mobility

Priority: High

Priority: medium

Action 4 - Innovative zero emission people mobility solutions in urban, peri-urban and rural areas

Priority: high

Action 5 - Logistics concepts and solutions for Zero tailpipe emission vehicles deployment acceleration

Priority: High

2021 2023 2025 2027 2029 2031

Research & Innovation Demonstration Implementation

What will we start with?



- Modular multi-powertrain zero-emission systems for HDV (BEV and FCEV)
 - Highlight of the importance of efficient and economic operation
- Innovative EV architectures for zero-emissions trucks for regional freight haulage
- New generation of full electric urban and peri-urban buses (e-BRT)
- *LCA and design for sustainable circularity - holistic approach for zero-emission mobility solutions and related battery value chain*

Towards Zero Emission Road Transport
Partnership



THANK YOU

See you next week for **Get Lunch with 2Zero - Pillar 2** (8 June - 12:00 to 13:00 CEST).

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Follow us on

