



ZEFES Project Partners



FORD OTOSAN

Kässbohrer



VOLVO



RICARDO



alice



PrimaFrio




Facts and Figures

Start date: 01 January 2023
Duration: 42 months
EU funding: € 23,195,078.00
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40 partners from 14 European countries



Contact

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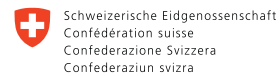
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Swiss Confederation

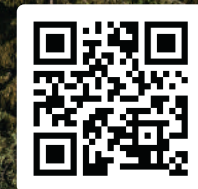
Federal Department of Economic Affairs,
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ZEFES

Zero Emissions flexible vehicle platforms
 with modular powertrains serving the
 long-haul Freight Eco System



Visit our website for more information



Taking Zero-Emission Long-Haul Freight Transport in Europe to the next level

ZEFES is a 3,5-year project, funded by the European Union, aiming to deploy 9 different long-haul truck configurations in various use cases covering important TEN-T corridors in Europe. The project addresses the decarbonisation of long-distance freight transport by demonstrating real-world applications with battery electric vehicles (BEVs) and fuel cell electric vehicles (FCEVs) across Europe.



Expected outcomes

- Efficient long-haul Heavy-Duty Vehicle powertrains for truck trailer combinations, capable of 750 km range operating at a minimum of 40 tons GCW.
- Demonstrations over a period of at least 6 months in real world conditions across Europe, covering up to 1300 km daily operation in line with driving and resting time regulations.
- Flexible & managerial tools supporting the seamless integration of zero tailpipe emissions vehicles into fleets and facilitating the assignment of tasks and routes.
- Significant price reduction steps towards TCO equality with 2020 ICE-based solutions. New business models for logistics, speeding up the deployment of BEVs and FCEVs.



15 Use Case Routes on Ten-T Corridors

In 2025, nine different vehicle concepts (6 BEVs and 3 FCEVs) will run over 1 million kilometres across EU corridors in real daily operations (use cases), guided and validated by a digital platform (developed within the project) bringing zero-emission vehicles adoption in the freight transport ecosystem a big step further.

The project will execute real-world demonstrations of long-haul BEVs and FCEVs across Europe (see map below) to demonstrate the vehicles' affordability and reliability, their efficiency, and their longer range per single charge and reduced charging times.

