

*** PART 3 ***

HIGH-CAPACITY ROAD TRANSPORT

FOCUSSING INNOVATION ON SMARTER MOBILITY SOLUTIONS FOR SMARTER POLICIES

Efficiency improvement up to 33% by 2030







The AEROFLEX project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no 769658




14:00h  **Opening Session:**

-  Welcome and rules of the webinar
-  ALICE introduction (by Fernando)
-  Project overview and highlights (by Ben/Per/Giuseppe)






~14:30h  **Session I - Short presentations followed by Q&A and interactive Sessions on the following topics:**

-  P&G use case and next steps: Smart Loading Units and Tools into Practice (by Ton/Hilal)
-  Modelling of freight 2040: Implications of High-Capacity Transport (by Andreas/Christoph)
-  e-Dolly and the next steps (by Julius/Henning)
-  Intelligent Access Policies initiative and next steps (by Marta/Elisah)

~15:45h  **Session II - Outlook and closure:**

-  R&I opportunities beyond AEROFLEX (by Ben)
-  Horizon Europe opportunities (by Ben)
-  Outlook and closure (by Ben/Fernando)

Use Slido:

-  To make your questions and remarks known
-  To collect opinions
-  To challenges audience
-  To find support for IAP and eDolly
-  To join project ideas beyond AEROFLEX

- 🌐 R&I opportunities beyond AEROFLEX
- 🌐 Scaling (logistics) projects to further demonstration and implementation new technologies / systems to realize the needed impact and efficiencies (autonomous handling and transportation of freight and cargo)
- 🌐 Link EMS to zero tail pipe vehicles, connections to urban logistics including last mile operations. Potential solution to speed up decarbonization at cost able to bear by the society and contributing to the Green Deal targets (50 - 55% CO2 reduction by 2030).
- 🌐 Project OEM / trailer-manufactures / transshipment / intermodal operators to demonstrate the holistic system

HORIZON-CL5-2022-D5-01 Clean and competitive solutions for all transport modes Addressed Call Topic

Modular multi-powertrain zero-emission systems for HDV (BEV and FCEV) for efficient and economic operation (Funding Code: HORIZON-CL5-2022-D5-01-08)

This topic implements the co-programmed European Partnerships on 'Towards zero emission road transport' (2ZERO)

Opportunity for AEROFLEX demonstrators

Communication:

Automotive Ethernet, new Protocol for Energy/Torque Management; no new connectors

eTrailer:

Schmitz-Cargobull from EU-Project "Transformers"

Option for BEV / FCEV in combination with AEMPT



eDolly:

Hydraulically Steered Dolly front axle Axle

eDolly:

Axle: ZF AVE130, 250kW;
Battery: AKASOL 75kWh

eTrailer:

Drive axle: Bosch 80kW
Battery:

Modular multi-powertrain zero-emission systems (HORIZON-CL5-2022-D5-01-08)

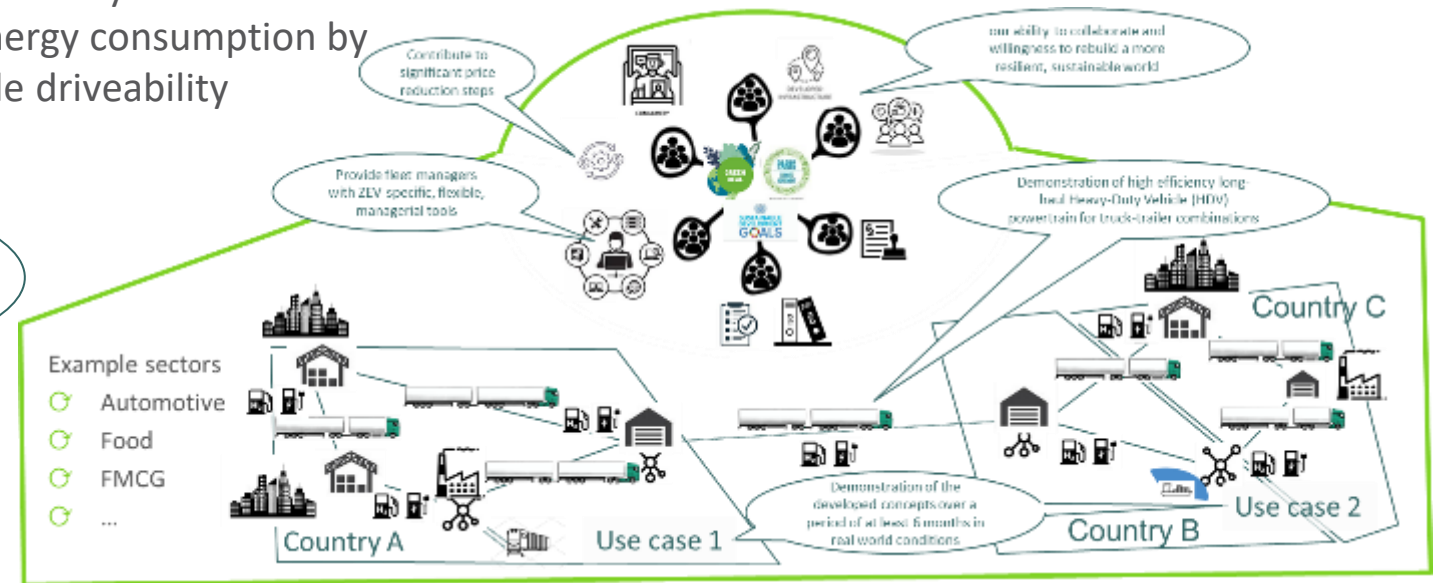
Conceptual Ideas

- Include ALICE members to align use cases from a logistic perspective:
 - to better understand needs and requirements
 - to further develop vehicle concepts and charging infrastructure
- Include cross border corridor applications to prove benefits at local, national and EU wide circumstances
- Include BEV/FCEV distributed drive train concepts, e-dolly and e-trailer to achieve zero emission driving, and to reduce energy consumption by maximizing energy recuperation, to improve vehicle driveability

zero-emission freight eco system (ZEFES), linking zero emission freight logistics with the society, building up on three pillars

- Interest to join?
- Contact

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alice | Alliance for
Logistics Innovation
through Collaboration
in Europe



MoU: supply and demand join forces to boost freight and logistics sector decarbonisation through hydrogen technologies

The ALICE Logistics Platform and [Hydrogen Europe](#) are delighted to announce a collaboration in the form of a Memorandum of Understanding.

Join follow up sessions

- We invite you to indicate your interest to join the follow up sessions.
- Below you see an overview of the intended follow up sessions.
- Please let us know your name and the number of the session of interest

Nr	Topic	Month
1	e-Dolly and the next steps	May 2021
2	Front end design for more survivability in crashes	May 2021*
3	Intelligent Access Policies	May-June2021
4	P&G use case and next steps (focus on PUZZLE ^R and CargoCam)	June 2021
5	Modelling of freight 2040	June 2021
6	Cost – Benefit Tool supporting seamless integration of AEROFLEX innovations into fleets	June-July 2021

• Contact

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AEROFLEX at IPIC 2021

Option for 2 sessions



The image shows a screenshot of the IPIC 2021 website banner. At the top left, it says "IPIC 2021". To the right is a navigation menu with links: HOME, ABOUT, REGISTRATION, PROGRAM, ACTIVITIES, SPONSORS, CONTACT. The main banner features an aerial view of a busy port with many colorful shipping containers and cranes. Overlaid on this image is a white text box with the text: "8TH INTERNATIONAL PHYSICAL INTERNET CONFERENCE" and "BOOSTING PHYSICAL INTERNET TO EUROPE". At the bottom of the banner, there is a blue bar with white text: "Towards a smart hyperconnected era of efficient and sustainable logistics, supply chains and transportation", "IPIC 2021 - 8th International Physical Internet Conference", and "June 14-16, 2021 | Virtual".

Jeversen, Germany



Next meetings:

- Follow up sessions May – July 2021
- ALICE IPIC Conference, June 14-16
- **SAVE THE DATE**
Final event, 28 September 2021
Full day hybrid event and interactive program
Registration open June onwards
- Keep on looking at our website

<https://aeroflex-project.eu>



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