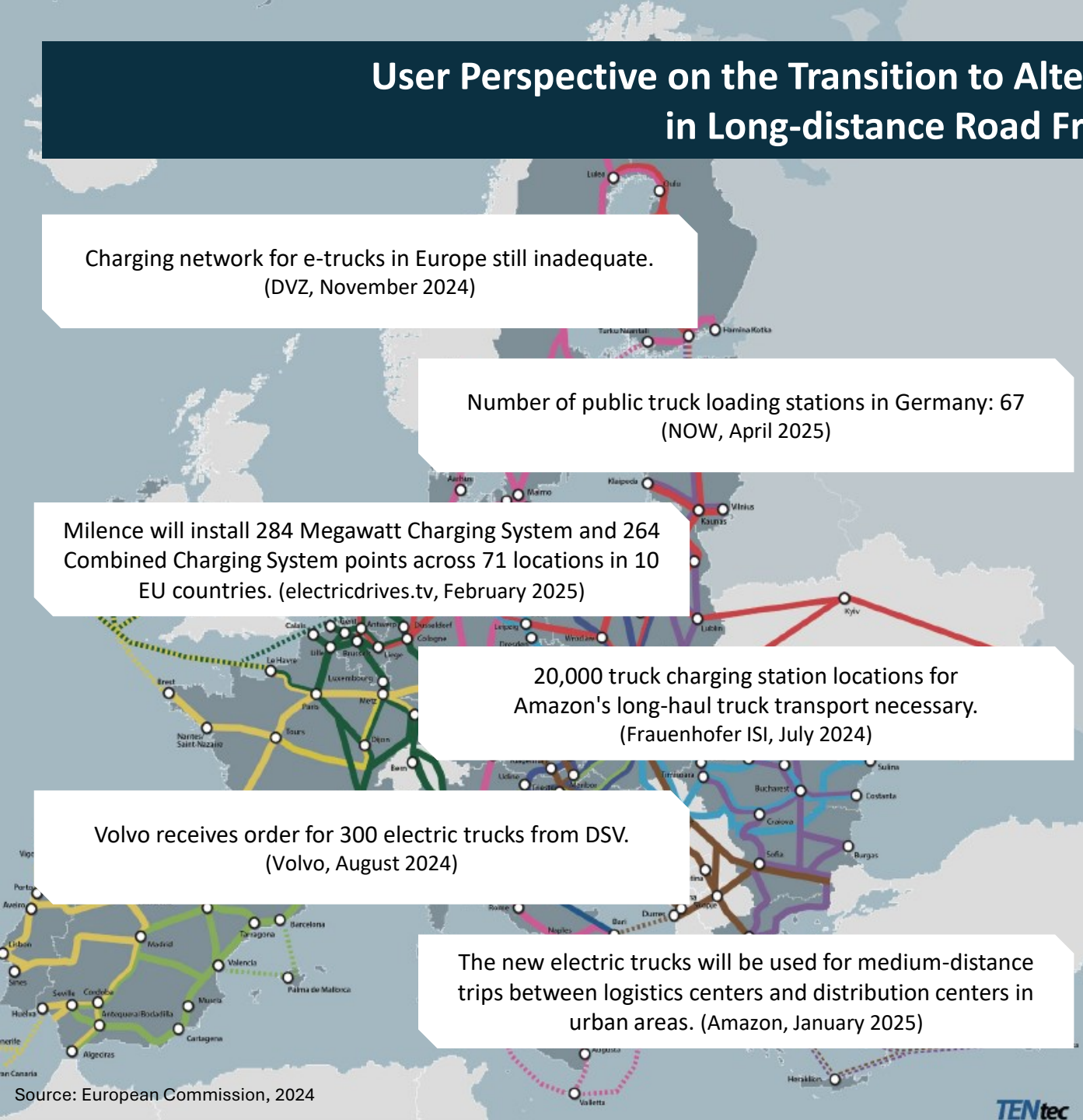
User Perspective on the Transition to Alternative Truck Drive Technologies in Long-distance Road Freight Transport



Research Questions:

- How do user requirements differ across European countries?
- Which of the alternative truck drive technologies are possible for cross-border truck deployment scenarios, now and in the future?
- How do users proceed when switching to alternative truck drive technologies?
- How can users switch to alternative drive technologies while the charging infrastructure is being expanded?
- How can the switch to alternative truck drive technologies in Europe be promoted?

Project Description:

Development of a European collaboration between vehicle manufacturers, transport companies, charging infrastructure manufacturers, science and politics to promote the transition to alternative truck drive technologies by transport companies.

TECHNISCHE UNIVERSITÄT DARMSTADT

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Institute of Transport Planning and Traffic Engineering

The Head of the Institute: Prof. Eva Kaßens-Noor, Ph.D.

The Institute for Transport Planning and Traffic Engineering (IVV) focuses its research on transport planning and traffic management. With the ELISA project "Electrified, Innovative Heavy-Duty Vehicles on Motorways", the IVV has been involved in research into climate-friendly road freight transport since 2017. A particular research focus is on evaluating the ability to integrate O-trucks into the daily operations of transport companies, analyzing the energy consumption of O-trucks and the associated reduction in greenhouse gas emissions. In addition, the IVV is investigating the acceptance of various stakeholders involved in the eHighway system, as well as society as a whole, and evaluating the resilience of the eHighway system.

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