



Logistiikka, kuljetukset ja jakelu Horisontti Eurooppa - ohjelmassa

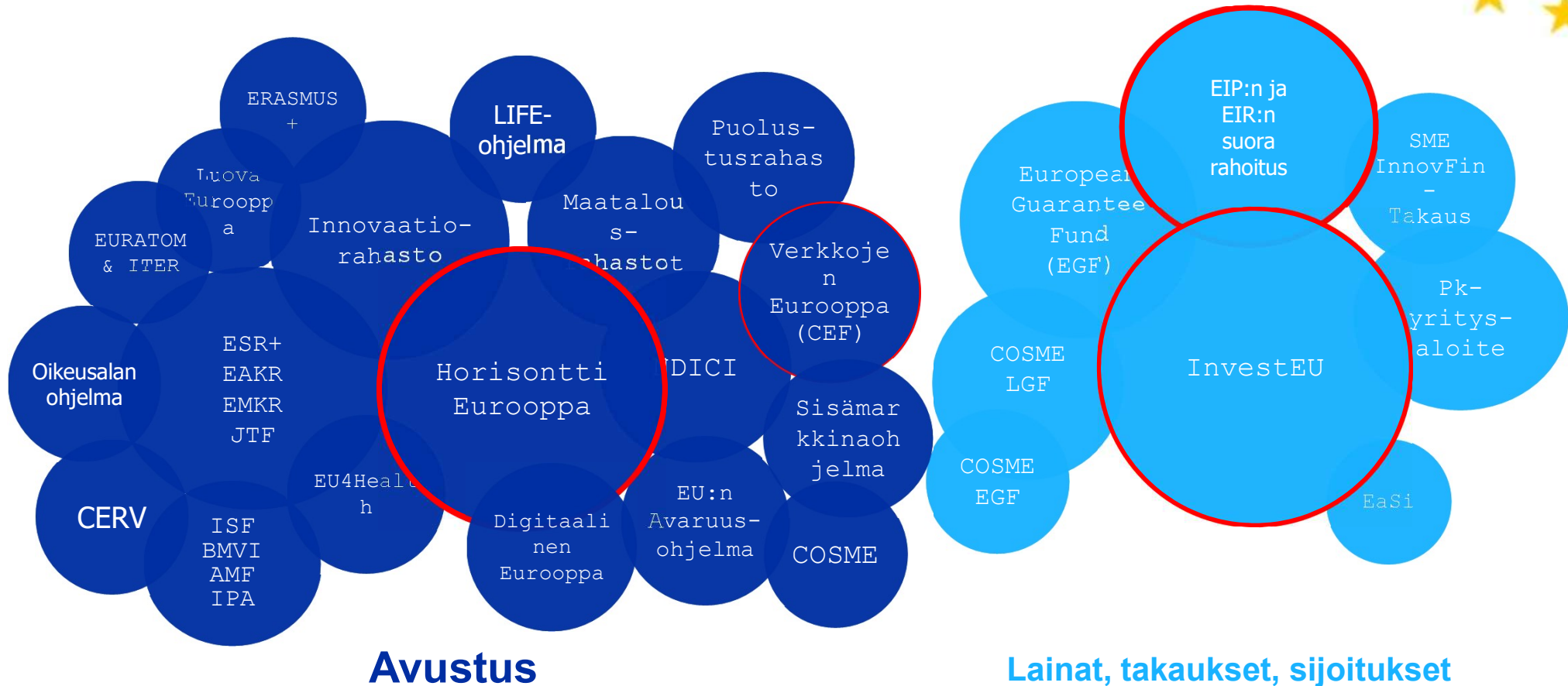
Logistiikan digitalisaatioverkosto
17.5.2022

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VIESTINTÄMINISTERIÖ

EU-RAHOITUKSEN LAAJA KENTTÄ

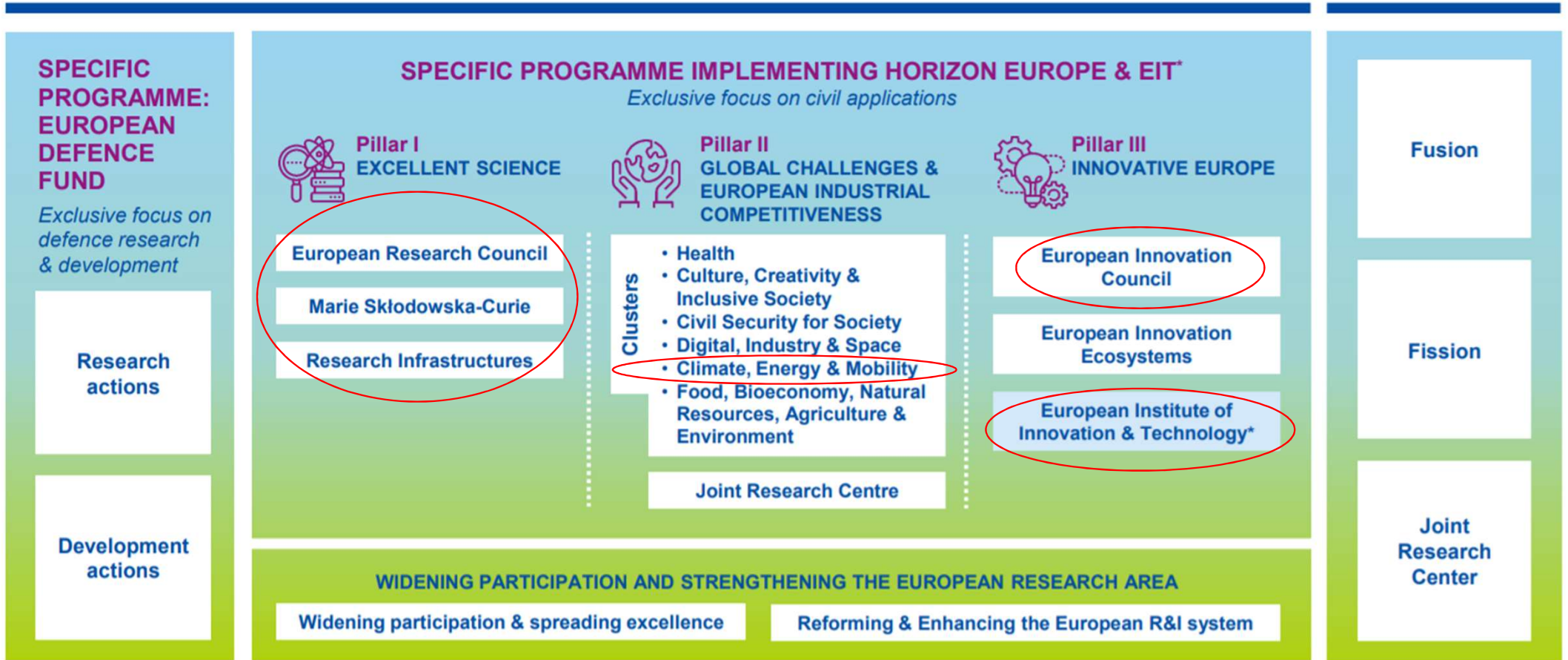
Yhteensä yli 30 ohjelmaa ja välinettä



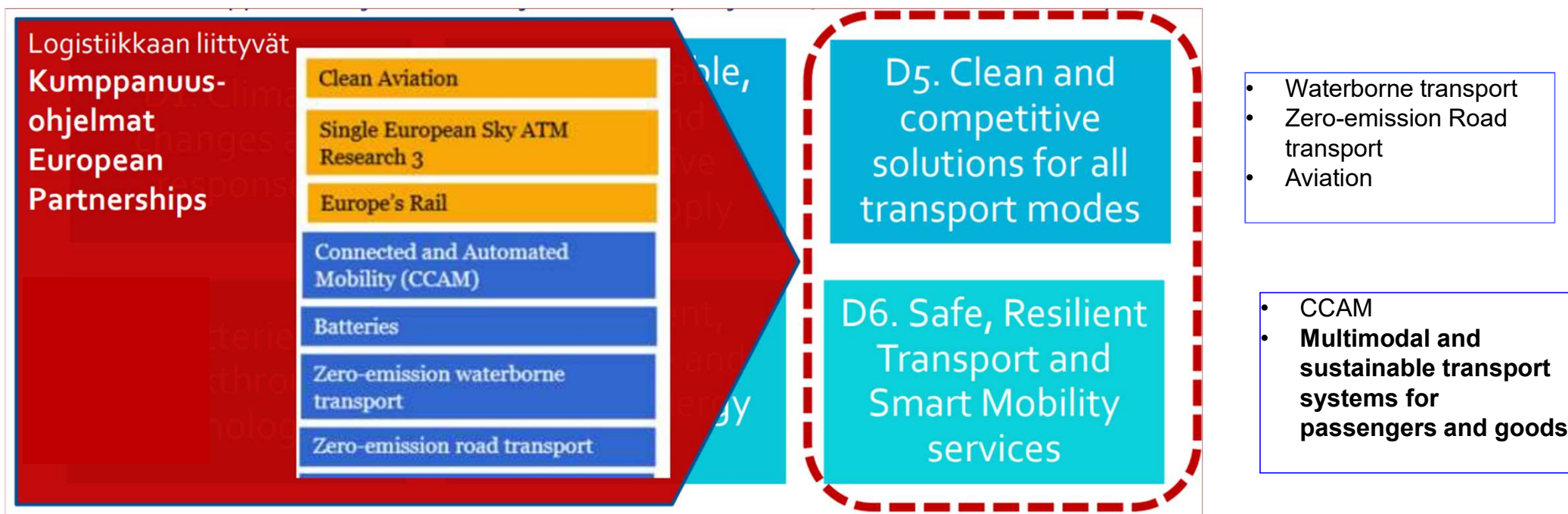
Horisontti Eurooppa – missä kaikkialla logistiikka näkyy?

HORIZON EUROPE

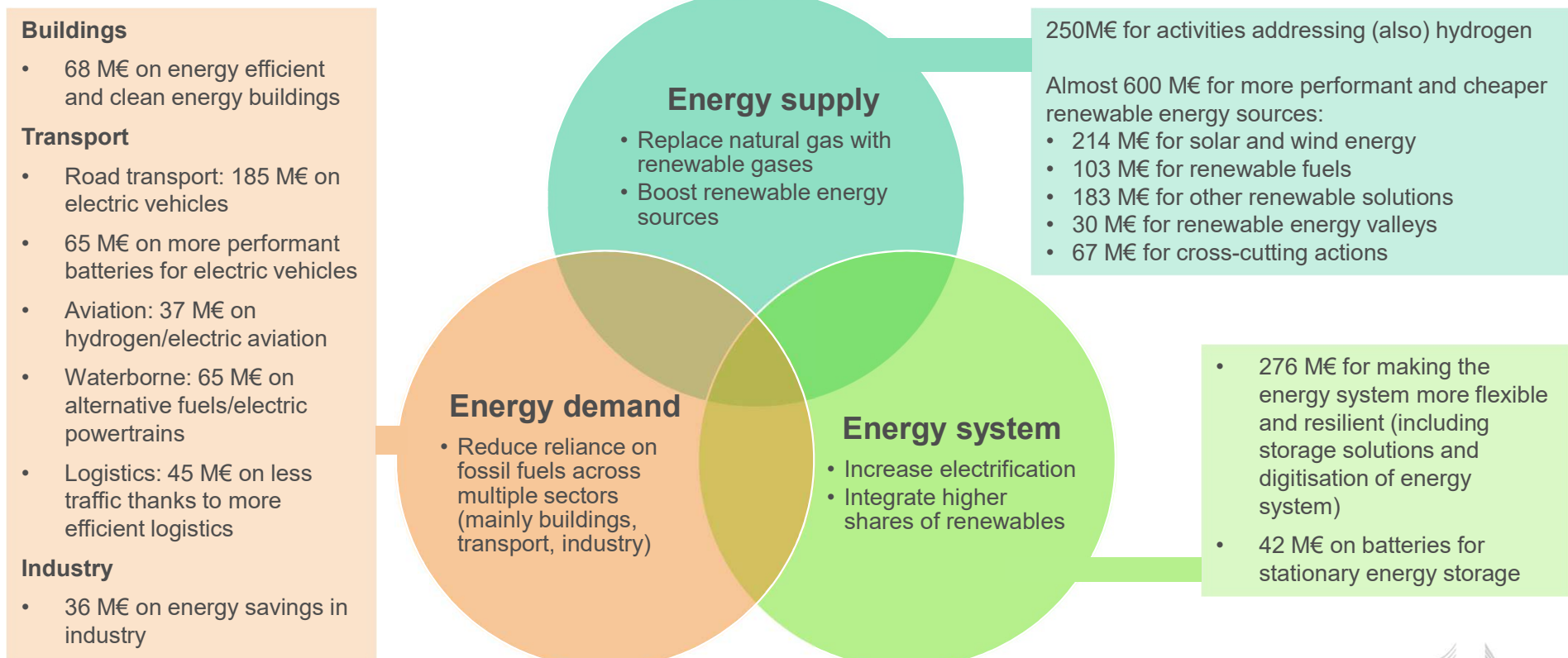
EURATOM



Klusteri 5 (Ilmasto, energia ja liikkuvuus) työohjelmat 2021-24



Cluster 5 contribution to REPowerEU



2ZERO

- **D5-1-1. Smart, low-cost pervasive stationary slow charging and bi-directional solutions synergic with the grid for EV mass deployment (2ZERO Partnership) (2024)**
 - Development of innovative optimisation functions exploiting real-time access to battery information such as state of health, state of charge, capacity and power set point, which should be provided respecting any GDPR and data disclosure terms to the owners, users or other stakeholders in the techno-economical value chain, such as building energy system managers, **mobility and logistics service providers and electricity stakeholders**.
- **D5-1-8. Integrated flexible multipoint megawatt charging systems for electric truck mass deployment (2ZERO Partnership) (2024)**
 - Opportunities for sharing and balancing power supply within studied areas and locations of logistics terminals and truck stops with nearby depots for overnight charging of trucks, buses, and construction machines, car-parking etc. should be considered.
 - Build-up logistics hubs
- **D5-1-10. New designs, shapes, functionalities of Light Commercial Vehicles (2ZERO Partnership) (2024)**
 - Expected outcome:
 - New and innovative LCVs concepts to address new requirements from zero emission logistics processes in cities increasing the affordability and scalability of the proposed solutions.
 - User-centric definition of requirements on vehicles, infrastructure and system from mobility operators and logistics companies considering new and innovative solutions.

Waterborne

- **D5-3-12. Reducing the environmental impact from shipyards and developing a whole life cycle to measure and minimise the non-operational environmental impacts from shipping (2023)**
 - Hakemuksen odotetaan vastaavan mm. “Develop and validate an environmental performance index with corresponding KPI’s and determine a benchmark for **shipyards through an investigation of shipyard floor processes, logistics and utilities** i.e. energy use and emissions to air, water and earth, taking into account current environmental regulation, including those applicable to other land based industries which may apply to shipyards.
- **D5-3-13. Developing small, flexible, zero-emission and automated vessels to support shifting cargo from road to sustainable Waterborne Transport (2023)**
 - Testing and demonstrating the flexible vessel concepts with emission-free propulsion systems in a relevant environment. **In addition, the optimisation of the logistics chain will be assessed through logistics modelling.**
 - Automated operations in multimodal logistics should be envisaged through further development and integration of single automated functions into fully autonomous systems such as; navigation and vessel command, machinery surveillance, maintenance, berthing, cargo handling, transshipment etc
 - Self-organised or remotely controlled fleet-wide coordination of operations, along with an integration of the vessels into land-based digital logistics processes.
- **D5-3-14. Towards the implementation of the inland navigation action programme with a focus on Green and Connected Inland Waterway Transport (2023)**
 - Expected outcomes: actions should establish a bridge towards future research, innovation and in particular buy in of deployment within inland waterways **in coordination with the wider waterborne and logistics sectors.**

CCAM - Cooperative Connected and Automated Mobility partnership

- **D6-1-6. Orchestration of heterogeneous actors in mixed traffic within the CCAM ecosystem (2024)**
 - System approach towards traffic management that integrates the operations and needs of road network users (vehicle drivers, passengers and all different kinds of VRUs,) **traffic management centres and public authorities, service providers, (PT/commercial/logistics fleet managers, infrastructure industry) within the mobility ecosystem.**
- **D6-1-9. CCAM effects on jobs and education, plans for skills that match the CCAM development, and prerequisites for employment growth (2023)**
 - Logistiikkasektori mukana

Multimodal transport, infrastructure and logistics

- **D6-2-1. Optimising multimodal network and traffic management, harnessing data from infrastructures, mobility of passengers and freight transport**
 - Logistics as a service
- **D6-2-2. Zero-emission e-commerce, freight delivery and return choices by retailers, consumers and local authorities**
 - Logistiikkaoperaattorit keskiössä, ml. koordinaatio-toimenpiteitä
- **D6-2-3. Operational automation to support multimodal freight transport – ESIMERKKI**
 - Linkki kaikkiin liikennemuotoihin t&i-kumppanuuksiin
 - Strategies to reduce the investment cost in this sector and support the implementation of automated solutions for logistics and multimodal freight transport are proposed.
 - Recommendations for possible regulatory and policy actions
- **D6-2-4. Scaling up logistics innovations supporting freight transport decarbonisation in an affordable way**
 - Logistiikkasolmukohdat ja logistiikkakonseptit, jotka nopeuttavat tavaraliikenteen hiilineutraalisuutta sekä nollapäästöisten ajoneuvojen/alusten ja multimodaalisuuden käyttöönottoa.
- **D6-2-5. Future proof GHG and environmental emissions factors for accounting emissions from transport and logistics operations**
 - Proposals should develop a comprehensive set of harmonised emission factors for the transport sector (freight and passenger), covering GHG emissions (CO₂ equivalent) of transport and logistics operations. The proposals should address values for the entire transport/logistics chain and take up the full energy lifecycle (Well-To-Wheel/Wake).
- **D6-2-7. Improved transport infrastructure performance – Innovative digital tools and solutions to monitor and improve the management and operation of transport infrastructure**
 - Building on the common European mobility data space and the Digital Transport and Logistics Forum (DTLF), facilitate the seamless use and provision of data and information to the end user across the transport infrastructure network and logistic chain, with a view to progress advancing towards smart mobility concepts for passengers and freight.

Vielä ehdit – logistiikkahaut 2022, DL 6. syyskuuta



01 Freight transport and logistics chain for operational connectivity and climate neutrality, pilot actions (2 IA-hanketta verkostopilotteina à 8 M€)



02 Digitalisation of urban freight for climate neutrality, optimised, shared, space management (2 IA-hanketta à 8 M€)



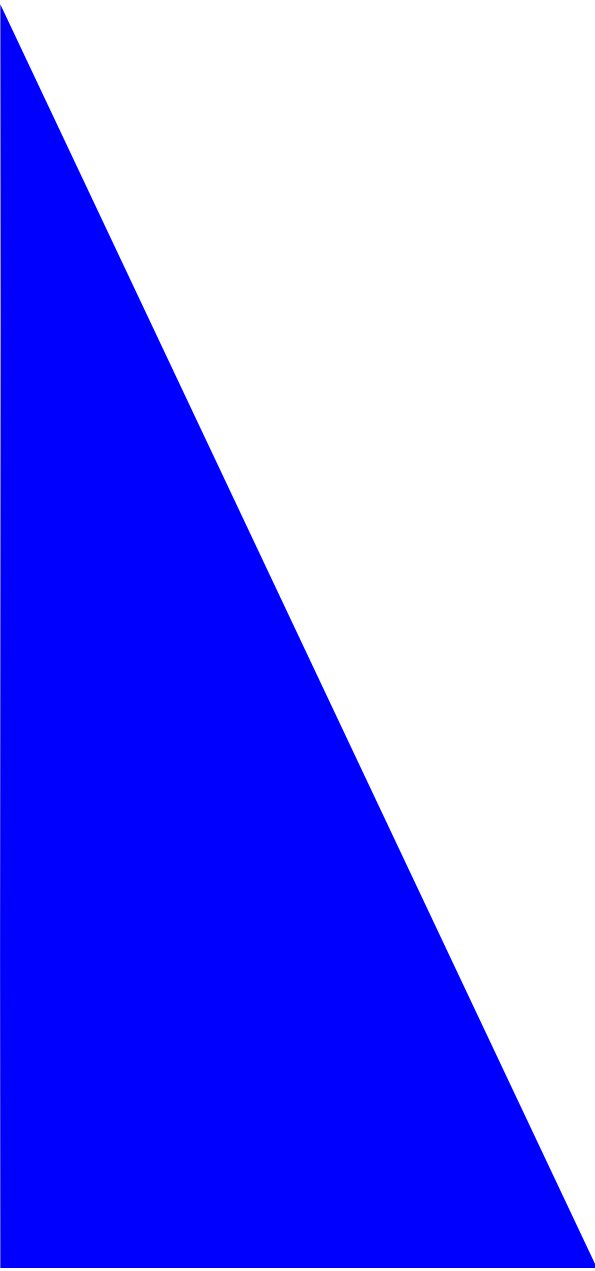
03 Enforcement for sustainable efficient transport operations, digital information exchange, human factor (2 RIA-hanketta à 4 M€)



05 Network and traffic management system for door-to-door mobility and freight transport (4 RIA-hanketta à 4 M€)



07 New concepts for resilient freight transport and logistics networks against disruption (2 RIA-hanketta à 4 M€)



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Kiitos!

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