



Smart Transportation Alliance

2022 Annual Conference  
& Innovation Awards

**Adapting transportation infrastructures to  
the new mobility – policy context**

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# Current situation & challenges





## Challenges to EU transport infrastructure:

- Congestion : cost €270 billion per year
- GHG emissions: 25% of GHG emissions in the EU
- Air and noise pollution from transport: ~400,000 premature deaths in the EU/year , 120 million Europeans are affected by harmful noise levels
- Climate urgency: 2050 climate-neutrality
- Transport relies on oil for over 94% of its energy needs, with daily imports of up to €0.5 billion.
- Social inclusion and human well-being, especially for disadvantaged groups
- Digitalisation

# Sustainable and Smart Mobility Strategy



## AN IRREVERSIBLE SHIFT TO ZERO-EMISSION MOBILITY

-  90 % reduction in transport emissions;
-  All transport modes are made more sustainable;
-  Sustainable alternatives are available;
-  Right incentives are in place for sustainable choice



## ACHIEVING SEAMLESS, SAFE AND EFFICIENT CONNECTIVITY

-  Seamless **multimodal** transport based on digital solutions;
-  Unleash full potential of **data**;
-  Develop and deploy **connected**, cooperative, and automated mobility services;
-  Paperless freight transport in favour of fast, digital procedures.



## A MORE RESILIENT SINGLE EUROPEAN TRANSPORT AREA: FOR INCLUSIVE CONNECTIVITY

-  Reinforced Single Market:
  - more investment in infrastructure and fleets;
  - deepening and enforcing internal market;
  - making our system crisis proof.
-  Fair and just mobility (that is affordable and accessible);
-  Enhanced safety and security.

## Legal initiatives

- European Green Deal (2019)
- TEN-T Regulation (2013, review end 2021)
- Alternative Fuels Infrastructure Regulation (2021)
- European Data Space Regulation (2020)
- Intelligent Transport Systems Directive (2010, review end 2021)

## EU Funding

- Horizon Europe, the new R&I Framework Programme (2021-2027)
- CEF (2021-2027) incl AFIF, ITS calls
- Digital Europe Programme - to make Europe greener and more digital
- InvestEU - long-term funding in sustainable recovery
- Innovation Fund (2020-2030) bringing into market low-carbon technologies
- National recovery and resilience plans (RRPs) include both reforms and investments in favour of sustainable transport
- ERDF and Cohesion Fund - main backer of urban mobility projects
- LIFE – green infrastructure, sustainable road transport
- ...and more

## CEF - AF in synergy with Horizon – The Merhlin project

9 Beneficiaries  
4 Member States

Feb. 2016  
Dec. 2022

Cost €11m+  
CEF €5m+

7 Hydrogen Refuelling  
Stations

70+ buses

UK (London, Birmingham)

DE, (Wuppertal, Wermelskirchen & Hurth)

NL (Heinenoord – South Rotterdam)

IT (Bolzano) at 350 bar. 1 HRS also for LDV

17 Sites  
6 Deployment Countries  
12 Observer Regions



European funding from the FCH JU for the JIVE & JIVE 2 projects and CEF funding for MEHRLIN catalyses private and public investment on the national and regional level.

- Buses supported by 3 H2020 Actions
- Managed by the Clean Hydrogen Joint Undertaken
- Top up from national schemes for buses & stations.
- Technical spec / bus procurement / HRS deployment simultaneous
- Allowed gathering technical, operational & financial info for further roll out, viability and bankability of the stations.

## CEF C-ITS project in synergy with Horizon

### **NordicWay2 (2017-2020) and NordicWay3 (2017-2020) actions**

#### *CEF Transport Sector*

Pilot deployment of interoperable Day 1/1.5 C-ITS and support infrastructure readiness for Connected and Automated Driving:

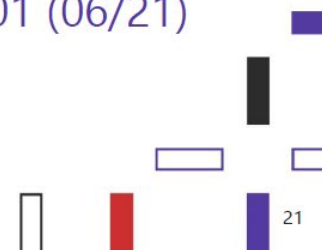
- Support deployment of new C-ITS services in Nordic countries and vital road transport routes subject to extreme weather conditions and in urban and interurban environments;
- Assess impacts of Day 1/1.5 C-ITS services, including users mobility, traffic behaviours and public acceptance.



- **Projects complement and build on Horizon 2020 research and innovation actions, pursuing a market-oriented approach and deploying innovative technological and organisational solutions;**
- **Pilots are accomplished in European collaboration with other platforms and projects, for example the STARDUST project by H2020, which includes joint evaluation of the solutions.**



- Grants #190155287
- Acronym: Hyperloop for sustainable freight transport
- Title: Hyperloop, for smarter, faster, greener and better transportation starting with freight
- Call: HORIZON-EIC-2021-ACCELERATORCHALLENGES-01 (06/21)
- Start date: 01/01/2022; End date: 31/12/2023
- Maximum Grant Amount - € 2,500,000
- [www.hardt.global](http://www.hardt.global)







Smart Transportation Alliance

**THANK YOU  
FOR YOUR  
ATTENTION**

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