

***FIRM Regional Conference
FEHRL Infrastructure Research Meeting***

C/ Alfonso XII, 3 28014 Madrid

***Wednesday, 15 January 2025
13.30 – 17.00***

Moderators:

Laura Parra Ruíz: Centro de Estudios y Experimentación de Obras Públicas

Thierry Goger: Forum of European National Highway Research Laboratories

13.30 – 13.45

- Welcome and introductions

Workshop 1 - Strengthening Road Transport Research

13.45 – 14.45

- Framework Programmes for Research and Technological Development
 - ✓ Status
 - ✓ Upcoming Horizon Europe calls (Work Programmes 2025, 2026-27)
 - ✓ Next framework programme – FP10
- SERRP VIII: Building Sustainable, Resilient, and Equitable Transport Infrastructure
- Stimulating Road Transport Research in Europe and around the Globe for Sustainable Mobility
- TRA Budapest 2026 - Regeneration in transport
- Discussion

14.45 *Coffee break*

Workshop 2 - Enhancing Infrastructure Readiness for Large-Scale Autonomous Deployment

15.15 – 16.00

- CCAM - European Partnership on Connected, Cooperative and Automated Mobility
- Status of AUGMENTED CCAM (Augmenting and Evaluating the Physical and Digital Infrastructure for CCAM deployment)
- Discussion

Workshop 3: Resilience

16.00 – 16.30

- Infrastructure Resilience – lessons learnt from scanning tour
- Status of MYRIAD-EU (Multi-hazard and Systemic Framework for Enhancing Risk-Informed Management and Decision-making in the E.U.)
- Discussion

Workshop 4 - Circularity

16.30 – 17.00

- Status of CIRCUIT (Holistic approach to foster circular and resilient transport Infrastructures and support the deployment of Green and Innovation Public Procurement and innovative engineering practices)
- Discussion



Background information



SERRP VIII: Building Sustainable, Resilient, and Equitable Transport Infrastructure

The Forum of European Highway Research Laboratories (FEHRL) has released its 8th Strategic European Road and cross-modal Research and Implementation Plan (SERRP VIII). SERRP VIII sets out a three-year research strategy from 2025 to 2027, addressing the urgent need to balance resilience, sustainability, and equity within our transport systems. SERRP VIII divides its research focus into three primary areas: the built, natural, and social environments. Each domain aligns with specific challenges and research goals, fostering resilience in a transport infrastructure system vulnerable to climatic, technological, and social changes.



Stimulating road Transport Research in Europe and around the Globe for sustainable Mobility

The STREnGth_M consortium will contribute significantly to the planning of research and innovation in Europe by identifying future research needs in the field of road transport, by updating and supporting the coordination of strategic research agendas and roadmaps in the field and by facilitating continuous exchange between road transport research related partnerships and platforms. It will further analyse research, innovation and cooperation capacities in Member States, explore funding instruments on national and regional level and assess potentials of national and regional roadmaps.

The project will also identify barriers that may exist for the deployment of research results on European and on international level and they will identify education and training actions to contribute to capacity building.

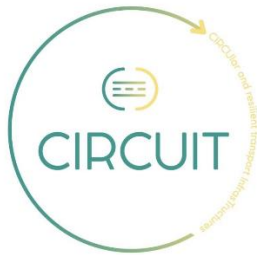


AUGMENTED CCAM - Augmenting and Evaluating the Physical and Digital Infrastructure for CCAM deployment

AUGMENTED CCAM aims to understand, harmonise and evaluate in an augmented manner adapted and novel support solutions of Physical, Digital and Communication (PDI) infrastructure, to advance its readiness for large scale deployment of CCAM solutions for all.

The project will elaborate, extend and harmonise PDI classification and support levels mapping co-determined PDI priority requirements and adaptations. Based on this and by deploying an open sharing technology agnostic service operational framework and architecture for PDI enabled CCAM, addressing all CCAM actors via multi-cooperation models, the project will develop 11 PDI support solutions (aiming

at TLR 6-7) that will apply and evaluate in different configurations in seven (7) test sites across three (3) Countries (France, Latvia, Spain).



CIRCUIT - Holistic approach to foster circular and resilient transport Infrastructures and support the deployment of Green and Innovation Public Procurement and innovative engineering practices

The overall objective of CIRCUIT is to develop a holistic approach supported by digital solutions and guidelines to foster the introduction of innovative engineering practices in the whole construction supply/value chain enabling circular, sustainable resilient and smart transport infrastructure and a wider deployment of Green Public and Innovation Procurement. This will be achieved by:

- developing and deploying an innovative open-source digital platform (with advanced Circularity analytics and Supply/value chain matchmaking tools) interoperable with traditional engineering/design (BIM, Digital Twin, LCC, LCA) and traffic simulation tools;
- introducing modular solutions, ecodesign and reusing concepts as alternative to traditional designs;
- maximizing the use of biobased, Secondary Raw Materials (SRM) and Secondary Construction Elements (SCE) as alternative to traditional ones;
- including in the decision making process of transport infrastructures design and route planning, information from updated traffic simulation tools to reduce incidents, accidents, congestion and future scenarios with autonomous vehicles.



The transport sector is a key enabler of economic growth, social development, and cultural exchange by its ability to connect people, goods, and ideas, promoting cooperation, prosperity, and progress across Europe (and beyond). However, it also faces challenges related to sustainability and environmental impacts, which require continuous attention and investment in research, development, and innovation for creating more sustainable solutions. To formulate such solutions, policy objectives and perspectives, research ideas and results, technological and industrial developments need to be discussed from time to time. Creating frameworks for impactful presentations and informative discussions are crucial to initiate or substantiate cohesive and holistic strategies and actions, which drive the European Union towards achieving a more sustainable and responsible transport sector.

In line with the above, this project has set the following goals:

- To provide high visibility for the role of the transport sector in facilitating the movement of goods and people, fostering economic growth and societal development.
- To offer a unique platform for researchers to disseminate their findings, communicate with peers, and highlight the value and impact of their research, ultimately contributing to the advancement of knowledge and the potential real-world applications of their work.
- To create opportunities for effective exchange and cooperation between researchers, policymakers, industry representatives, professionals, and other stakeholders from the transport sector and beyond.
- To raise attractiveness of research and transport related studies, as well as reinforce the pursuit of excellence in European transport research and innovation by giving recognition and visibility to the best achievements with a better involvement of the younger generations.



**Multi-hazard and Systemic Framework for
Enhancing Risk-Informed Management and
Decision-making in the E.U.**

Natural hazards have caused ~100,000 fatalities and over €100 billion in economic losses in the EU since 2000. The last decade saw huge scientific advances in understanding natural hazard risks, and within the EU there has been a shift in practice from managing hazards to managing risks. Nevertheless, most research and policy still address risk from a single-hazard, single-sector, perspective. This presents obstacles for addressing real-world challenges faced by risk managers and other decision-makers. MYRIAD-EU's vision is to catalyse the paradigm shift required to move towards a multi-risk, multi-sector, systemic approach to risk assessment and management. To achieve this vision, our overall aim is that by the end of MYRIAD-EU policymakers, decision-makers, and practitioners will be able to develop forward-looking disaster risk management pathways that assess trade-offs and synergies across sectors, hazards, and scales.