



CONFERENCE

Results from road transport research

11th to 13th February 2025
The EGG Brussels
Rue Bara 175, 1070 Brussels

PROGRAMME



11th February



12.00 – 13.15 Welcome lunch
Visit the RTR exhibition area

OPENING SESSION



13.15 – 13.50 (AUDITORIUM)

Welcome and introduction from **Simon Edwards**, Innovation Director, Ricardo, ERTRAC Vice-Chairman and RTR Conference Chair

Rosalinde van der Vlies, Director - Clean Planet, European Commission, DG Research and Innovation (DG RTD)

Erik von Breska, Director - Investment, Innovative & Sustainable Transport, European Commission, DG Mobility and Transport (DG MOVE)

Matthias Langemeyer, Head of Department - Green research and innovation, European Climate, Environment and Infrastructure Executive Agency (CINEA)

Christian Merkt, Director EU Governmental Affairs Digitalization and Automated Driving, BMW, CCAM Association Chairman

Michael Lippert, Director Innovation and Solutions for Energy, Saft, President of BEPA and Batteries Europe

Stephan Neugebauer, Director Global Research Cooperation, BMW, ERTRAC and EGVIafor2Zero Chairman

PARALLEL SESSIONS



14.00 – 16.00

1. Air quality and particles emissions
(Aquarium)

Moderators: **Alexandru Ghiurca** (CINEA)
Leonidas Ntziachristos (LAT/AUTH)

nPETS - Nanoparticle emissions from the transport sector: health and policy impacts
LEON-T - Low particle Emissions and LOW Noise Tyres
EASVOLEE - Effects on Air quality of Semi-VOLatile Engine Emissions
PAREMPI - Particle emission prevention and impact: from real-world emissions of traffic to secondary PM of urban air

2. Road infrastructure, maintenance and circularity
(Studio)

Moderators: **Claudia Ciuca** (CINEA)
Ciaran McNally (UCD)

HERON - Improved Robotic Platform to perform Maintenance and Upgrading Roadworks: The HERON Approach
InfraROB - Maintaining integrity, performance and safety of the road infrastructure through autonomous robotized solutions and modularization
OMICRON - Towards a more automated and optimised maintenance, renewal and upgrade of roads by means of robotised technologies and intelligent decision support tools
LIAISON - Lowering transport environmentAI Impact along the whole life cycle of the future tranSpOrt iNfrastructure
CIRCUIT - Holistic approach to foster CIRCULAR and resilient transport InfrastRuctures and support the deployment of Green and Innovation Public Procurement and innovative engineering practices

3. EV charging - advanced solutions benefiting both the user and the grid
(Auditorium)

Moderators: **Guido Sacchetto** (EC, DG RTD)
Christof Schernus (FEV)

eCharge4Drivers - Electric Vehicle Charging Infrastructure for improved User Experience
FLOW - Flexible energy systems Leveraging the Optimal integration of EVs deployment Wave
XL-Connect - Large scale system approach for advanced charging solutions
Drive2X - Delivering Renewal and Innovation to mass Vehicle Electrification enabled by V2X technologies



16.00 – 16.30 Coffee break
Visit the RTR exhibition area

PARALLEL SESSIONS

 16.30 – 18.45

4. Deployment and demonstration – inputs from CEF (Auditorium)

Moderators: Sofia Papantoniadou (CINEA)
Mats Rosenquist (Volvo Group)

ISM - Iberdrola Smart Mobility

A reliable network of charging stations for electric vehicles to allow charging along the TEN-T Core and Comprehensive Networks

Atlante4EU - A reliable network of charging stations for electric vehicles to allow charging along the TEN-T Core and Comprehensive Networks

InDiD - Development of Cooperative Intelligent Transport Systems (C-ITS)

MobiliData - Connected infrastructures bringing enhanced perception to road users

5. Digital innovative solutions for sustainable urban logistics (Studio)

Moderators: Yannick Bousse (CINEA)
Yanying Li (ALICE)

SENATOR - Smart Network Operator Platform enabling Shared, Integrated and more Sustainable Urban Freight Logistics

UNCHAIN - Urban logistics and planning: Anticipating urban freight generation and demand including digitalisation of urban freight

DISCO - Data-driven, Integrated, Syncromodal, Collaborative and Optimised urban freight meta model for a new generation of urban logistics and planning with data sharing at European Living Labs

URBANE - Upscaling innovative green urban logistics solutions through multi-actor collaboration and pi-inspired last mile deliveries

DECARBOMILE - Five pillars to DECARBONize the last MILE logistics

GREEN-LOG - Cooperative and Interconnected Green delivery solutions towards an era of optimized zero emission last-mile Logistics

6. High-performance and safe-by-design next generation battery systems for road transport applications (Aquarium)

Moderators: Martha Gialampouki (CINEA)
Manasa Sridhar (IVECO Group)

EXTENDED - nEXT gEneration of multifunctional, modular and scalable solid state batteries system

TEMPEST - next gEneration MultiPle architecture battery Systems for industry

VERSAPRINT - Versatile printed solutions for a safe and high-performance battery system

NEXBAT - Next generation technologies for battery systems in transport electrification based on novel design approach to increase performance and reduce carbon footprint

BATSS - Safe efficient battery system based on advanced cell technology



12th February

PARALLEL SESSIONS

 9.00 – 11.15

7. Integration and large-scale demonstration of CCAM solutions (Auditorium)

Moderators: Suzanna Kraak (EC, DG RTD)
Guido di Pasquale (PAVE Europe)

IN2CCAM - Enhancing Integration and Interoperability of CCAM eco-system

CONDUCTOR - Fleet and traffic management systems for conducting future cooperative mobility

MODI - A leap towards SAE L4 automated driving features

ULTIMO - Advancing Sustainable User-centric Mobility with Automated Vehicles

Move2CCAM - Methods and tools for comprehensive impact Assessment of the CCAM solutions for passengers and goods

8. Innovative components for more efficient EVs (Studio)

Moderators: Joao Carrilho Miranda (CINEA)
Damian Backes (ika RWTH-Aachen)

EM-TECH - Innovative e-motor technologies covering e-axes and e-corners vehicle architectures for high-efficient and sustainable e-mobility

MAXIMA - Modular Axial flux Motor for Automotive

HEFT - Novel concept of a low cost, high power density and highly efficient recyclable motor for next generation mass produced electric vehicles

VOLTcar - Design, manufacturing, and validation of ecocycle electric traction motor

CLIMAFlex - Circular design and manufacturing techniques for next-generation highly-efficient integrated axial flux motor drives for electric vehicles



11.15 – 11.45 Coffee break
Visit the RTR exhibition area



PARALLEL SESSIONS

11.45 – 13.00

9. PHEV and retrofit systems (Aquarium)

Moderators: Salima Abu Jeriban (CINEA)
Adrian Velaers (CONCAWE)

PHOENICE - PHEV towards zero Emissions & ultimate ICE efficiency

AeroSolfd - Fast track to cleaner, healthier urban Aerosols by market ready Solutions of retrofit Filtration Devices for tailpipe, brake systems and closed environments

VERA - Vehicle Emission Retrofit Activities

10. Predictive safety assessment framework and safer urban environment for vulnerable road users (Auditorium)

Moderators: Georgios Tzamalīs (EC, DG MOVE)
Magnus Granström (CHALMERS)

PHOEBE - Predictive Approaches for Safer Urban Environments

SOTERIA - Systematic and orchestrated deployment of safety solutions in complex urban environments for ageing and vulnerable societies

11. Innovative components for more efficient EVs (Studio)

Moderators: Joao Carrilho Miranda (CINEA)
Damian Backes (ika RWTH-Aachen)

SCAPE - Switching-Cell-Array-based Power Electronics conversion for future electric vehicles

HiEfficient - Highly EFFICIENT and reliable electric drivetrains based on modular, intelligent and highly integrated wide band gap power electronics modules

13.00 – 14.15 Lunch, Networking and RTR exhibition

Visit the GREENET workshop “Empowering Horizon Europe applicants through national contact points’ tools and services” (Riverside 1)

14.15 – 17.15

12. Sustainable and resilient freight transport and long-haul logistics (Aquarium)

Moderators: Paola Chiarini (EC, DG MOVE)
Isabelle Schnell (Volvo Group)

SETO - Smart Enforcement of Transport Operations

KEYSTONE - Knowledgeable comprehensive and fully integrated smart solution for resilient, sustainable and optimized transport operations

SARIL - Sustainability And Resilience for Infrastructure and Logistics networks

ReMuNet - Resilient Multimodal freight Transport Network

TRACE - Integration and Harmonization of Logistics Operations

13. Human centric CCAM and driver safety (Auditorium)

Moderators: Andrea Arcelli (CINEA)
Peter Urban (ika RWTH-Aachen)

AWARE2ALL - Safety systems and human-machine interfaces oriented to diverse population towards future scenarios with increasing share of highly automated vehicles

i4Driving - Integrated 4D driver modelling under uncertainty

BERTHA - BEhavioural ReplicaTion of Human drivers for CCAM

FITDRIVE - Monitoring devices for overall FITness of Drivers

PANACEA - Practical and Effective tools to monitor and Assess Commercial drivers’ fitness to drive

14. Solid state batteries for electromobility (Studio)

Moderators: Alexandru Ghiurca (CINEA)
Guinevere Giffin (Fraunhofer ISC)

SUBLIME - Solid state sulfide Based LI-Metal batteries for EV applications

HELENA - Halide solid state batteries for Electric vehicles and Aircrafts

PSIONIC - High voltage, room temperature single-ion polymer electrolyte for safer all solid state lithium metal batteries

SEATBELT - Solid-state lithium metal battery with in situ hybrid electrolyte

ADVAGEN - Development of ADVanced next GENERation Solid-State batteries for Electromobility Applications

AM4BAT - Gen. 4b Solid State Li-ion battery by additive manufacturing

PLENARY SESSION

How to achieve circularity in the automotive industry?

17.30 – 18.45 (Auditorium)

Moderator: Simon Edwards, Ricardo, ERTRAC Vice-Chairman, and RTR Conference Chair

With a changing geopolitical landscape and increasing demands for natural resources, critical raw materials particularly, circularity concepts, are gaining more attention. Given this, what would a circular economy mean for the automotive industry an industry producing 85 million vehicles per year? Join our plenary session with Aurel Ciobanu-Dordea (EC, DG ENV), Thilo Bein (Fraunhofer LBF), Stefan Christiernin (Volvo Cars), Fabrice Stassin (Umicore), Wolfgang Nuechter (Robert Bosch) to discover how, together, we can tackle this multifaceted challenge.

COCKTAIL

18.45 – 20.15

Join us for an evening full of conversation, networking & fun - all centred around talking about transforming road transport for a better future.



13th February

PARALLEL SESSIONS

 **9.00 – 11.00**

15. Zero emission systems for HDV (Aquarium)

Moderators: **Eric Cerneaz** (CINEA)
Ian Faye (Robert Bosch)

ZEFES - Zero Emission flexible vehicle platforms with modular powertrains serving the long-haul Freight Eco System
EMPOWER - Eco-operated, Modular, highly efficient, and flexible multi-POWERtrain for long-haul heavy-duty vehicles
ESCALATE - Powering EU Net Zero Future by Escalating Zero Emission HDVs and Logistic Intelligence
EBRT2030 - European Bus Rapid Transit of 2030: electrified, automated, connected

16. New mobility services in cities (Auditorium)

Moderators: **Ines Elvira** (CINEA)
Ivo Cré (POLIS)

MOVE21 - Multimodal and interconnected hubs for freight and passenger transport contributing to a zero emission 21st century
SCALE-UP - Scale up user-Centric and dAta driven soLutions for connEcted Urban Poles
SUM - Seamless shared urban mobility
GEMINI - Greening European Mobility through cascading innovation INitatives

17. Next generation battery packs for BEV and PHEV (Studio)

Moderators: **Martha Gialampouki** (CINEA)
Franz Geyer (BMW Group)

LIBERTY - Lightweight Battery System for Extended Range at Improved SafeTY
MARBEL - Manufacturing and assembly of modular and reusable EV battery for environment-friendly and lightweight mobility
ALBATROSS - Advanced Light-weight BATteRY systems Optimized for fast charging, Safety, and Second-life applications.
HELIOS - High-pErformance modular battery packs for sustainable urban electrOmobility Services

 **11.00 – 11.30 Coffee break**
Visit the RTR exhibition area

 **11.30 – 12.30**

18. Improving road safety in Africa (Aquarium)

Moderators: **Patrick Mercier-Handisyde** (EC, DG RTD)
George Yannis (NTUA)

AfroSAFE - Safe System for radical improvement of road safety in low- and middle-income African countries
TRANS-SAFE - Transforming Road Safety in Africa

19. Unleashing the innovation potential of public transport (Auditorium)

Moderators: **Yannick Bousse** (CINEA)
Françoise Guaspere (Ile-de-France Europe)

UPPER - Unleashing the potential of public transport in Europe
SPINE - Smart public transport initiatives for climate-neutral cities in Europe

20. Materials for light and safe green vehicles (Studio)

Moderators: **Katerina Deliali** (CINEA)
Thilo Bein (Fraunhofer LBF)

FLAMINGo - Fabrication of Lightweight Aluminium Metal matrix composites and validation In Green vehicles
FLEXCRASH - Flexible and hybrid manufacturing of green aluminium to produce tailored adaptive crash-tolerant structures

 **12.30 – 13.30 Lunch break**
Visit the RTR exhibition area

 **13.30 – 15.00**

21. Multimodal traffic management for door-to-door transport of passengers and freight (Auditorium)

Moderators: **Thiago Tavares** (CINEA)
Vivi Michalaki (National Highways)

ACUMEN - Ai-aided deCision tool for seamless mUltiModal nEtworK and traffic management
SYNCHROMODE - Advanced traffic management solutions for synchronized and resilient multimodal transport services
DELPHI - FeDerated nEtworK of pLatforms for Passenger and freigHt Intermodality

22. CCAM enablers (Aquarium)

Moderators: **Pedro Perez-Losa** (CINEA)
Margriet van Schijndel (TU/e)

SELFY - SELF assessment, protection & healing tools for a trustworthY and resilient CCAM
Aithena - AI-based CCAM: Trustworthy, Explainable, and Accountable
AI4CCAM - Trustworthy AI for CCAM
ROADVIEW - Robust Automated Driving in Extreme Weather

23. Batteries – development of generation 3b technology (Studio)

Moderators: **Johan Blondelle** (EC, DG RTD)
Wouter Ijzermans (BEPA)

Hydra - Hybrid power-energy electrodes for next generation lithium-ion batteries
HighSpin - High-Voltage Spinel LNMO Silicon-Graphite Cells and Modules for Automotive and Aeronautic Transport Applications
SIGNE - Composite Silicon/Graphite Anodes with Ni-Rich Cathodes and Safe Ether based Electrolytes for High Capacity Li-ion Batteries
NEXTCELL - Towards the next generation of high performance li-ion battery cells



CLOSING DISCUSSION

 15.15 – 16.00 (AUDITORIUM)

Moderator: [Lucie Beaumel](#), [EGVIAfor2Zero](#)

Jane Amilhat, Head of Unit, Clean Transport Transitions, European Commission, DG Research and Innovation (DG RTD) and **Simon Edwards**, Innovation Director, Ricardo, ERTRAC Vice-Chairman and RTR Conference Chair.



Exhibitors

2ZERO

ERTRAC

CCAM

BATT4EU

European Commission/CINEA

Greenet project (network of NCP)

Workshop on 12th February - 13.00 to 14:15 - Riverside 1:

GREENET: Empowering Horizon Europe applicants through national contact points' tools and services

The workshop, promoted by GREENET, the European network of National Contact Points for Cluster 5 of Horizon Europe, explores the vital role of National Contact Points (NCPs) in supporting Horizon Europe applicants, highlighting the range of services they offer — from expert guidance to matchmaking opportunities. Discover the innovative virtual tools developed by GREENET to simplify applicants' experience. This workshop is your gateway to unlocking new opportunities.

TRA 2026 Budapest

EUCAD 2025

CSAs

TranSensus LCA

LeMesurier

STREnGth_M

STAN4SWAP

Batteries 2030+

Batteries Europe