



# CONFERENCE

## Results from road transport research

5<sup>th</sup> to 7<sup>th</sup> February 2024

BluePoint Brussels

Blvd Auguste Reyers 80, 1030 Brussels

### DRAFT PROGRAMME



5<sup>th</sup> February



12.00 – 13.20 Welcome lunch  
Visit the RTR exhibition area

### OPENING SESSION



13.20 – 13.50

**Moderator:** [Simon Edwards](#) (Global Director, Technology, Ricardo, ERTRAC Vice-Chairman and RTR Conference Chair)

**Dr.-Ing. Stephan Neugebauer**, Director Global Research Cooperation, BMW and ERTRAC & EGVIafor2Zero Chairman  
**Armin Gräter**, BMW Group, CCAM Association Chairman

**Rosalinde van der Vlies**, Director Clean Planet, DG Research and Innovation (DG RTD), European Commission  
**Herald Ruijters**, Director Investment, Innovative & Sustainable Transport, DG Mobility and Transport (DG MOVE), European Commission

**Paloma Aba Garrote**, Director, European Climate, Environment and Infrastructure Executive Agency (CINEA)

### PARALLEL SESSIONS



14.00 – 16.00

#### 1. Network and traffic management for future mobility

**DIT4TraM** - Distributed Intelligence and Technology for Traffic and Mobility Management

**FRONTIER** - Next generation traffic management for empowering CAVs integration, cross-stakeholders collaboration and proactive multi-modal network optimization

**ORCHESTRA** - Coordinating and synchronising multimodal transport improving road, rail, water and air transport through increased automation and user involvement

**TANGENT** - ENHANCED DATA PROCESSING TECHNIQUES FOR DYNAMIC MANAGEMENT OF MULTIMODAL TRAFFIC

#### 2. Understanding and mitigating the effects of particle emission and noise

**nPETS** - NANOPARTICLE EMISSIONS FROM THE TRANSPORT SECTOR: HEALTH AND POLICY IMPACTS

**LEON-T** - Low particle Emissions and IOW Noise Tyreultimate ICE efficiency

**ULTRHAS** - Ultrafine particles from TRansportation – Health Assessment of Sources

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

**TUBE** - Transport derived Ultrafines and the Brain Effects

#### 3. Advancements in Li-ion batteries Generation 3b

**3beLiVe** - Delivering the 3b generation of LNMO cells for the xEV market of 2025 and beyond

**SeNSE** - Lithium-ion battery with silicon anode, nickel-rich cathode and in-cell sensor for electric vehicles

**COBRA** - CObalt-free Batteries for FutuRe Automotive Applications

**IntelliGent** - Innovative and Sustainable High Voltage Li-ion Cells for Next Generation (EV) Batteries



16.00 – 16.30 Coffee break  
Visit the RTR exhibition area



## PARALLEL SESSIONS

16.30 – 18.30

### 4. Digitalisation of logistics

**PLANET** - Progress towards Federated Logistics Through The Integration Of TEN-T into A Global Trade Network  
**ePIcenter** - Enhanced Physical Internet-Compatible Earth-frieNdly freight Transportation ansWER  
**STORM** - Smart freight TranspOrt and logistics Research Methodologies  
**FOR-FREIGHT** - Flexible, multi-mOdal and Robust FREIGHt Transport

### 5. User-centric charging solutions

**INCIT-EV** - Large demonstratiON of user Centric urban and long-range charging solutions to boost an engaging deployment of Electric Vehicles in Europe  
**EV4EU** - Electric Vehicles Management for carbon neutrality in Europe  
**SCALE** - Smart Charging ALignment for Europe

### 6. CCAM coordination frameworks, inclusiveness and societal impact

**FAME** - Framework for coordination of Automated Mobility in Europe  
**SUNRISE** - Safety assUraNce fRamework for connected, automated mobility SystEms  
**SINFONICA** - Social INnovation to FOster iNclusive Cooperative, connected and Automated mobility  
**Move2CCAM** - MethOds and tools for comprehensive impact Assessment of the CCAM solutions for passengers and goods

**6<sup>th</sup> February**

## PARALLEL SESSIONS

9.00 – 10.30

### 7A. Next generation electrified vehicles for urban and suburban use

**LEONARDO** - MicrovehicLE fOr staNd-Alone and shaReD mObility - LEONARDO  
**REFLECTIVE** - RECONFIGURABLE LIGHT ELECTRIC VEHICLE  
**SOLUTIONSplus** - Integrated Urban Electric Mobility Solutions in the Context of the Paris Agreement, the Sustainable Development Goals and the New Urban Agenda

### 8A. CCAM and connectivity

**PODIUM** - PDI connectivity and cooperation enablers building trust and sustainability for CCAM  
**AUGMENTED CCAM** - Augmenting and Evaluating the Physical and Digital Infrastructure for CCAM deployment  
**MobiDataLab** - Labs for prototyping future Mobility Data sharing cloud solutions

### 9A. Fuel cells applications in HDV (FCH)

**MORELife** - Material, Operating strategy and RELiability optimisation for LiFEtime improvements in heavy duty trucks  
**IMMORTAL** - IMproved lifetiMe stacks FOR heavy duty Trucks through ultra-durable components  
**StasHH** - Standard-Sized Heavy-duty Hydrogen

10.30 – 10.50 **Coffee break**  
 Visit the RTR exhibition area

10.50 – 11.50

### 7B. Next generation electrified vehicles for urban and suburban use

**URBANIZED** - modUlaR and flexible solutions for urBAN-sized Zero-Emissions last-mile Delivery and services vehicles  
**Multi-Moby** - Safe, Secure, High Performing Multi-Passenger and Multi-Commercial Uses Affordable EVs

### 8B. CCAM and connectivity (5G)

**5GCroCo** - 5G Cross-Border Control  
**5G Carmen** - 5G for Connected and Automated Road Mobility in the European union  
**5GMOBIX** - 5G for cooperative & connected automated MOBility on X-border corridors

### 9B. Fuel cells applications in HDV (FCH)

**PRHYDE** - Protocol for heavy duty hydrogen refuelling  
**H2Haul** - Hydrogen fuel cell trucks for heavy-duty, zero emission logistics



## PARALLEL SESSIONS

12.00 – 13.00

### 10. Virtual modelling of batteries

**DEFACTO** - Battery DEsign and manuFACTuring Optimization through multiphysic modelling  
**MODALIS2** - MODelling of Advanced LI Storage Systems

### 11. Medium and heavy-duty vehicles developments

**LONGRUN** - Development of efficient and environmental friendly LONG distance powertrain for heavy dUty trucks aNd coaches  
**NextETRUCK** - Efficient and affordable Zero Emission logistics through NEXT generation Electric TRUCKs

### 12. Verification and Validation: building trusted systems (ECSEL)

**VALU3S** - Verification and Validation of Automated Systems' Safety and Security  
**ArchitectECA2030** - Trustable architectures with acceptable residual risk for the electric, connected and automated cars

13.00 – 14.15 Lunch, Networking and Exhibition

14.15 – 15.45

### 13. Solid state batteries

**ASTRABAT** - All Solid-sTate Reliable BATtery for 2025  
**SAFELiMOVE** - advanced all Solid stAte saFE Lithium Metal technology tOWards Vehicle Electrification  
**SOLIDIFY** - Liquid-Processed Solid-State Li-metal Battery: development of upscale materials, processes and architectures

### 14. Crash protection and collision avoidance

**SALIENT** - Novel Concepts for Safer, Lighter, Circular and Smarter Vehicle Structure Design for Enhanced Crashworthiness and Higher Compatibility  
**V4SAFETY** - Vehicles and VRU Virtual eValuation of Road Safety  
**SAFE-UP** - proactive SAFETy systems and tools for a constantly UPgrading road environment

### 15. Trustworthy CCAM

**CONNECT** - Continuous and Efficient Coop-erative Trust Management for Resilient CCAM  
**SELFY** - SELF assessment, protection & healing tools for a trustworthy and resilient CCAM  
**EVENTS** - Reliable in-Vehicle pErception and decisioN-making in complex environmenTAl conditioNS

15.45 – 16.15 Coffee break  
 Visit the RTR exhibition area

16.15 – 18.15

### 16. Urban mobility – cities as urban hubs and urban logistics

**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  
**LEAD** - Low-Emission Adaptive last mile logistics supporting 'on Demand economy' through digital twins  
**ULaads** - Urban Logistics as an on Demand Service

### 17. CCAM on the roads

**SHOW** - SHared automation Operating models for Worldwide adoption  
**AWARD** - All Weather Autonomous Real logistics operations and Demonstrations  
**Hi-Drive** - Addressing challenges toward the deployment of higher automation

## PLENARY SESSION

18.20 – 19.20

Join us for an insightful discussion on research and innovation in road transport.

## COCKTAIL

19.20 – 20.30

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



**7<sup>th</sup> February**

## PARALLEL SESSIONS

**9.30 – 11.00**

### 18A. Next generation of power electronics

**PowerDrive** - Power electronics optimisation for next generation electric vehicle components

**RHODaS** - Reinventing High-performance pOwer converters for heavy-Duty electric trAnSport

**HiPE** - High Performance Power Electronics Integrations

### 19A. Human factors in transport safety

**HEIDI** - Holistic and adaptive Interface Design for human-technology Interactions

**MEDIATOR** - MEdiating between Driver and Intelligent Automated Transport systems on Our Roads

**FITDRIVE** - Monitoring devices for overall FITness of Drivers

### 20. Materials and production processes

**REVOLUTION** - Supporting the Electric Vehicle REVOLUTION through maximising EV Range and End-of-Life Vehicle Recovery through optimisation of recycled plastics and advanced light materials

**ALMA** - Advanced Light MAterials and processes for the eco-design of electric vehicles

**Fatigue4Light** - Fatigue modelling and fast testing methodologies to optimize part design and to boost lightweight materials deployment in chassis parts

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

**11.30 – 12.30**

### 18B. Next generation of power electronics

**HighScope** - High efficiency, high power density, cost effective, scalable and modular power electronics and control solutions for electric vehicles

**PROGRESSUS** - Highly efficient and trustworthy electronics, components and systems for the next generation energy supply infrastructure

### 19B. Human factors in transport safety

**HADRIAN** - Holistic Approach for Driver Role Integration and Automation Allocation for European Mobility Needs

**NextPerception** - Next generation smart perception sensors and distributed intelligence for proactive human monitoring in health, wellbeing, and automotive systems

### 21. Noise and emission measurement, assessment and mitigation

**NEMO** - Noise and Emissions Monitoring and radical mitigation

**LENS** - L-vehicles Emissions and Noise mitigation Solutions

## CLOSING DISCUSSION

**12.45 – 13.15**

**Philippe Froissard**, Head of Unit, Future Urban & Mobility Systems, DG Research and Innovation (DG RTD), European Commission and **Simon Edwards**, Ricardo, ERTRAC Vice-Chairman and RTR Conference Chair.

**13.15 – 14.00 Farewell lunch**  
Visit the RTR exhibition area



## Exhibitors

2ZERO

ERTRAC

CCAM

European Commission

**Greenet project**  
(network of NCP)

**TRA2024 Dublin -  
Transport Research  
Arena Conference 2024**

### Projects

**CIVITAS ELEVATE** - CIVITAS 2020 Coordination and Support Action

**BISON** - BIODIVERSITY AND INFRASTRUCTURE SYNERGIES AND OPPORTUNITIES FOR EUROPEAN TRANSPORT NETWORKS

**BOOSTLOG** - Boosting impact generation from research and innovation on integrated freight transport and Logistics system

**ENTRANCE** - European matchmaking platform for innovative transport and mobility tools and services

**RECIPROCITY** - Replication of innovative concepts for peri-urban, rural or inner-city mobility

**ASSURED-UAM** - Acceptance, Safety and Sustainability Recommendations for Efficient Deployment of UAM

**FastTrack** - Fostering the Acceleration of Sustainable Transport To Regions and Authorities through Capacity and Knowledge

**WE-TTRANSFORM** - WORKFORCE EUROPE - TRANSFORMATION AGENDA FOR TRANSPORT AUTOMATION