



CONFERENCE

Results from road transport research

5th to 7th February 2024

BluePoint Brussels

Blvd Auguste Reyers 80, 1030 Brussels

DRAFT PROGRAMME



5th 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 Tyresultimate 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

6th 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 DDesign 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 Cooperative 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.



7th 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