



# CONFERENCE

## Results from road transport research

14 to 16 February 2023

BluePoint Brussels

Blvd Auguste Reyers 80, 1030 Brussels

### PROGRAMME



#### 14 February



12.00 – 13.20 Welcome lunch

“Meet Horizon Europe projects” at the EC stand and visit the RTR exhibition area

### OPENING SESSION



13.20 – 13.50 (EINSTEIN)

Moderator: **Zissis Samaras** (LAT/Aristotle University, ERTRAC Vice-Chair)

**Dr.-Ing. Stephan NEUGEBAUER**, Director Global Research Cooperation, BMW and ERTRAC & EGViafor2Zero Chair

**Margriet VAN SCHIJNDEL**, Lab Director Responsible Mobility, Eindhoven AI Systems Institute and CCAM Executive Group Member

**Rosalinde VAN DER VLIES**, Director - Clean Planet, European Commission, DG Research and Innovation (DG RTD)

**Torsten KLIMKE**, Head of Unit B3, Innovation and Research, European Commission, DG Mobility and Transport (DG MOVE)

**Paloma ABA GARROTE**, Acting Director, European Climate, Environment and Infrastructure Executive Agency (CINEA)

### PARALLEL SESSIONS



14.00 – 16.00

#### 1. Building an inclusive and interconnected transport system (EINSTEIN)

Moderators: **Rafal Stanecki** (DG MOVE)

**Laura Babio** (POLIS)

**INDIMO** Inclusive digital mobility solutions

**DIGNITY** DIGital tranSport In and for Society

**TRIPS** TRansport Innovation for vulnerable-to-exclusion People needs Satisfaction

#### 2. Batteries of the future (NEWTON)

Moderators: **Johan Blondelle** (DG RTD)

**Silvia Bodoardo** (POLITO)

**SUBLIME** Solid state sUlfide Based LI-Metal batteries for EV applications

**Hydra** Hybrid power-energy electrodes for next generation lithium-ion batteries

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

**MODALIS<sup>2</sup>** MODelling of Advanced LI Storage Systems



16.00 – 16.30 Coffee break

“Meet Horizon Europe projects” at the EC stand and visit the RTR exhibition area



16.30 – 18.30

#### 3. GV - Next generation electrified vehicles optimised for the infrastructure (NEWTON)

Moderators: **Guido Sacchetto** (DG RTD)

**Roland Uerlich** (RWTH Ika)

**1000kmPLUS** Scalable European Powertrain Technology Platform for Cost-Efficient Electric Vehicles to Connect Europe

**CEVOLVER** Connected Electric Vehicle Optimized for Life, Value, Efficiency and Range

**ACHILES** Advanced Architectures Chassis/Traction concept for Future Electric vehicles

**SELFIE** SELF-sustained and Smart Battery Thermal Management Solution for Battery Electric Vehicles

#### 4. CCAM – New mobility services and future data management needs (EINSTEIN)

Moderators: **Andrea De Candido** (DG RTD)

**Margriet van Schijndel** (TUE Eindhoven)

**AVENUE** Autonomous Vehicles to Evolve to a New Urban Experience

**AWARD** All Weather Autonomous Real logistics operations and Demonstrations

**MobiDataLab** Labs for prototyping future Mobility Data sharing cloud solutions

**nuMIDAS** New Mobility Data and Solutions Toolkit



**15 February**



**9.15 – 9.45 Welcome coffee**

“Meet Horizon Europe projects” at the EC stand and visit the RTR exhibition area

## PARALLEL SESSIONS



**9.45 – 12.15**

### 5. GV - Advanced light materials and their production processes (NEWTON)

**Moderators:** [Eric Cerneaz \(CINEA\)](#)  
[Thilo Bein \(Fraunhofer\)](#)

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

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

**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

**LEVIS** Advanced Light materials for sustainable Electrical Vehicles by Integration of eco-design and circular economy Strategies

**FLAMINGo** Fabrication of Lightweight Aluminium Metal matrix composites and validation In Green vehicles

**UPSCALE** Upscaling Product development Simulation Capabilities exploiting Artificial intelligence for Electrified vehicles

### 6. Air quality: from technology to user involvement (ARCHIMEDE)

**Moderators:** [Georgios Tzamalidis \(DG MOVE\)](#)  
[Gaetano De Paola \(IFPEN\)](#)

**DIAS** Smart Adaptive Remote Diagnostic Antitampering Systems

**CARES** City Air Remote Emission Sensing

**MODALES** MODify Drivers' behaviour to Adapt for Lower EmissionS

**uCARE** You can also reduce emissions

**PHOENICE** PHEv towards zero EmissionS & ultimate ICE efficiency

### 7. City-led innovation for a renewed urban mobility (EINSTEIN)

**Moderators:** [Thiago Tavares \(CINEA\)](#)  
[Karen Vancluysen \(POLIS\)](#)

**SUMP-PLUS** Sustainable Urban Mobility Planning: Pathways and Links to Urban Systems

**SPROUT** Sustainable Policy RespOnse to Urban mobility Transition

**ReVeAL** Regulating Vehicle Access for improved Livability

**MOMENTUM** Modelling Emerging Transport Solutions for Urban Mobility

**HARMONY** Holistic Approach for Providing Spatial & Transport Planning Tools and Evidence to Metropolitan and Regional Authorities to Lead a Sustainable Transition to a New Mobility Era



**12.15 – 14.00 Lunch, Networking and Exhibition**

“Meet Horizon Europe projects” at the EC stand and visit the RTR exhibition area



**14.00 – 16.00**

### 8. GV - Next generation electrified vehicles for urban and suburban use (NEWTON)

**Moderators:** [Joao Carrilho Miranda \(CINEA\)](#)  
[Marco Pieve \(Piaggio\)](#)

**LEONARDO** MicrovehicLE fOR staNd-Alone and shaReD mObility

**REFLECTIVE** Reconfigurable Light Electric Vehicle

**URBANIZED** Society and flexible solutions for urBAN-sIzed Zero-Emissions last-mile Delivery and services vehicles

**DREEM** Designing useR centric E-kickscooters & business models for Enhancing interModality

### 9. Next generation of battery packs for BEV and PHEV (ARCHIMEDE)

**Moderators:** [Martha Gialampouki \(CINEA\)](#)  
[Denise Tapler \(AVL\)](#)

**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

### 10. Driver behaviour and acceptance of connected, cooperative and automated transport (EINSTEIN)

**Moderators:** [Suzanna Kraak \(DG RTD\)](#)  
[Ingrid Skogsmo \(VTI\)](#)

**SUaaVE** Supporting acceptance of automat-ed Vehicle

**DriveToTheFuture** Needs, wants and behaviour of ‘Drivers’ and automated vehicle users today and into the future

**Trustonomy** Building Acceptance and Trust in Autonomous Mobility

**PAsCAL** Enhance driver behaviour and Public Acceptance of Connected and Auton-omous vehiCLES



**16.00 – 16.30 Coffee break**  
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## STAKEHOLDERS’ EXPERIENCES OF SUCCESSFUL INTERACTION AND INTEGRATION OF R&I ACTIVITIES

**16.30 – 18.00 (EINSTEIN)**  
**Moderator:** Zissis Samaras (LAT/Aristotle University, ERTRAC Vice-Chair)

AVL, Volvo Group and TNO will share examples of projects that built on previous ones to accelerate innovation uptake in various fields such as decarbonisation, digitalisation and safety. You will hear from collaborative research and innovation activities interacting with one another, thus contributing to achieving long-term objectives and EU policy goals.

## COCKTAIL

**18.00 – 19.30**  
 Join us for an evening full of networking and conversations centred around transforming mobility for a better future!

**16 February**

## PARALLEL SESSIONS

**9.00 – 10.30**

### 11. Freight transport: from new methodologies to innovative solutions (ARCHIMEDE)

**Moderators:** Paola Chiarini (DG MOVE)  
 Fernando Liesa (ALICE)

**STORM** Smart freight TranspOrt and logistics Research Methodologies  
**SENATOR** Smart Network Operator Platform enabling Shared, Integrated and more Sustainable Urban Freight Logistics  
**ePICenter** Enhanced Physical Internet-Compatible Earth-frieNdly freight Transportation answER

### 12. GV - EV charging solutions: get the users on board (EINSTEIN)

**Moderators:** Monica Giannini (CINEA)  
 Evangelos Karpopoulos (ICCS)

**USER-CHI** innovative solutions for USER centric Charging Infrastructure  
**eCharge4Drivers** Electric Vehicle Charging Infrastructure for improved User Experience  
**MEISTER** Mobility Environmentally-friendly, Integrated and economically Sustainable Through innovative Electromobility Recharging infrastructure and new business models

### 13. Safety of all road users (NEWTON)

**Moderators:** Patrick Mercier-Handisyde (DG RTD)  
 Peter Urban (RWTH Ika)

**VIRTUAL** Open access virtual testing protocols for enhanced road users safety  
**i-DREAMS** Safety tolerance zone calculation and interventions for driver-vehicle-environment interactions under challenging conditions  
**PANACEA** Improving road safety by effectively monitoring working patterns and overall fitness of drivers

**10.30 – 11.00 Coffee break**  
 “Meet Horizon Europe projects” at the EC stand and visit the RTR exhibition area

**11.00 – 12.30**

### 14. Full automated infrastructure upgrade and maintenance (NEWTON)

**Moderators:** Claudia Ciuca (CINEA)  
 Thierry Goger (FEHRL)

**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  
**HERON** Improved Robotic Platform to perform Maintenance and Upgrading Roadworks: The HERON Approach

### 15. Innovative solutions to achieve sustainable mobility in urban areas (EINSTEIN)

**Moderators:** Yannick Bousse (CINEA)  
 Ivo Cré (POLIS)

**CityChangerCargoBike** Improving the quality of city life by fully exploiting the huge potential of cargo bikes as a sustainable means of transport for private and commercial logistics purposes  
**Handshake** Enabling the transferability of cycling innovations and assessment of its implications  
**Park4SUMP** Actions demonstrate how Park4SUMP will lead to achieve sustainable transport in urban areas by strategically integrating innovative parking management solutions into SUMP policies

### 16. GV - Materials for future electric vehicle batteries (ARCHIMEDE)

**Moderators:** Maurizio Maggiore (DG RTD)  
 Iosu Cendoya (CIDETEC)

**Si-DRIVE** Silicon Alloying Anodes for High Energy Density Batteries comprising Lithium Rich Cathodes and Safe Ionic Liquid based Electrolytes for Enhanced High VoltagE Performance  
**LISA** Lithium sulphur for SAfe road electrification



## CLOSING DISCUSSION

 12.45 – 13.30 (*EINSTEIN*)

Moderator: **Lucie Beaumel** (EGVIAfor2Zero)

**Philippe FROISSARD**, Head of Unit, Future Urban & Mobility Systems, DG Research and Innovation (DG RTD), European Commission and **Zissis SAMARAS**, Lab of Applied Thermodynamics, Dept of Mechanical Engineering, Aristotle University and ERTRAC Vice-Chair.

 13.30 – 14.15 Farewell lunch

“Meet Horizon Europe projects” at the EC stand and visit the RTR exhibition area



### Exhibitors

#### FUTURE-HORIZON

Future on-/off-road transport and mobility research, cross-border cooperation strategies, realization actions and procurement processes

#### REBALANCE

futuRE moBility vALues ANd CulturE

**4th European Conference on Connected and Automated Driving (EUCAD2023)**

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

2ZERO

ERTRAC

CCAM

**European Commission:  
Meet the Horizon Europe projects and coordinators**