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Electric Vehicle Optimized  
for Value, Efficiency and Life!

# „Driving the Future: Unveiling Breakthroughs in Electric Vehicle Technologies - Insights from European Research and Innovation“

Friday, March 15<sup>th</sup>  
10:00 - 12:00  
online

## Welcome and opening

### Powertrain design and assessment / Energy efficiency of vehicle sub-systems

- **48V systems for automotive applications** Marc Gouvernon, Valeo; Multi-Moby
- **Efficient Bidirectional On-Board Chargers** Hans Wouters, KULeuven; PowerDrive
- **Efficient Inverter Design with the latest power MOSFET Technology** Walter Faedo, DANA TM4; Multi-Moby
- **Li-ion and hybrid supercapacitor batteries and DC charging for lightweight electric vehicles** Eric Verhulst, Altreonic NV; Multi-Moby
- **Holistic and model predictive BEV thermal management** Osman Sumer, TOFAS; HighScape

### Passive and active safety of electric vehicle / Simulation tools for the rapid assessment and development of electric vehicles

- **MultiMoby Vehicles structural design for Low Production cost and cyber secure electrical and electronics architecture** Pietro Perlo and Marco Biasiotto, I-FEVS; Multi-Moby
- **Axle-Torque-Vectoring (ATV) control algorithm, tested on real vehicle** Gaetano Tavolo, USR; Multi-Moby
- **Pre-emptive traction control & ABS** Philip So, USR; Multi-Moby
- **Integral safety in urban electric vehicles** Marc Gouvernon, Valeo; Multi-Moby
- **Toolchain for vehicle-level simulation** Bo Wang, USR; EM-TECH, HighScape & HiPE

### Product life cycle assessment, materials combination, eco-design and other recyclability aspects

- **Design, manufacturing and validation of ecocycle electric traction motor** Jenni Pippuri-Mäkeläinen, VTT; VOLTCAR
- **Life Cycle Assessment for ecodesign of MAXIMA EM** Lea D'amore, VUB; MAXIMA
- **LCA and LCC of e-drives for high-efficient and sustainable e-mobility** Antonella Accardo, POLITO; EM-TECH

## Q&A & Closing

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