EFFICIENT POWER ELECTRONICS,
POWERTRAIN & ENERGY SOLUTIONS
RESEARCH GROUP

ELECTRIC & HYBRID POWERTAINS

YOUR EXPERT RESEARCH GROUP IN DEVELOPING CLEAN AND ENERGY-EFFICIENT VEHICLES OF TOMORROW

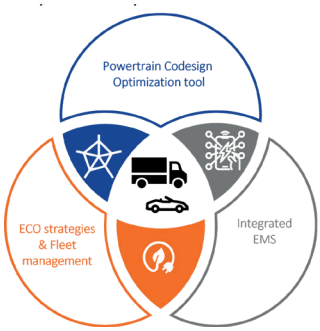
EPOWERS offers advanced research, development and testing services for electric and plug-in hybrid vehicles, thanks to its expertise in vehicle roller bench & on-road testing, smart charging solutions and fleet monitoring. The unique lab infrastructure and equipment at our disposal allow a broad range of comprehensive assessments of powertrains and their components in terms of performances and behavior.

POWERTRAIN CODESIGN OPTIMIZATION TOOL

- Design and prototyping of emerging power electronics converters and modular powertrain concepts
- Codesign optimization
- Cloud-connected digital twin modeling and validation
- EV modeling & testing

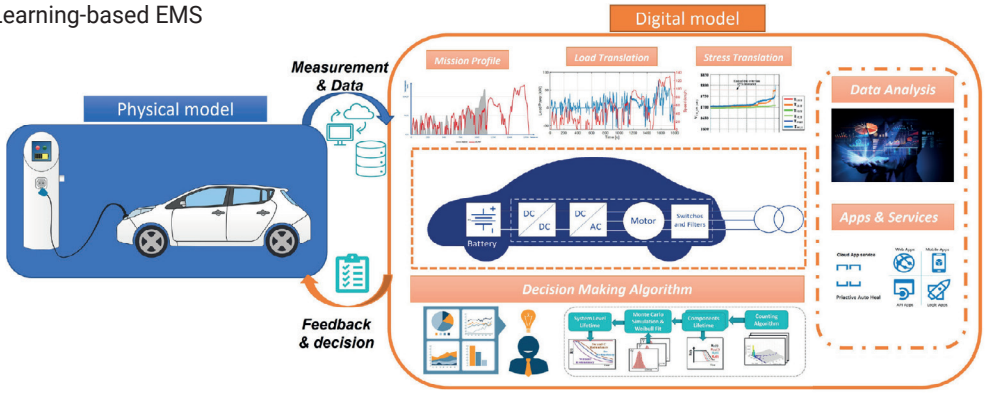
MULTI-LEVEL AND ECO-STRATEGIES FOR CONNECTED PLUG-IN/HYBRID/ ELECTRIC VEHICLES AND FLEETS

- Full electrification of public transport in cities
- ECO-driving
- ECO-charging
- ECO-comfort



INTEGRATED ENERGY MANAGEMENT SYSTEM (EMS) FOR CONNECTED PLUG-IN/HYBRID/ELECTRIC VEHICLES

- Rule-based EMS
- Optimization-based EMS
- Learning-based EMS



EPOWERS is part of MOBI Core Lab @ Flanders Make

ELECTROMOBILITY
RESEARCH CENTRE

FLANDERS MAKE
DRIVING INNOVATION IN MANUFACTURING

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