

EU-LIVE (Efficient Urban Light Vehicles) Modular electrified powertrains for future urban L-category vehicles

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Werner ROM
VIRTUAL VEHICLE Research Center

CHALLENGES CONCERNING L-CATEGORY VEHICLES



Industry, end customers & society

Sales figures (total per vehicle model)

Automotive (passenger cars): 10^6 . 10^7

2-wheelers: 10^5 . 10^6

3-wheelers: 10^4 . 10^5

Current Challenges

Industry: Long development times & high costs (as compared to Automotive industry)

End customers: Bad benefit-cost ratio, but also lack of safety & comfort

Society:

- Emissions (GHGs, PM, Noise)
- Traffic jams
- Lethal and serious injuries

Platforms / **„Gleichteileí** Strategy

well established in Automotive industry

not yet established in L-category industry

PROJECT BASICS

EU-LIVE - Efficient Urban Light VEHICLES



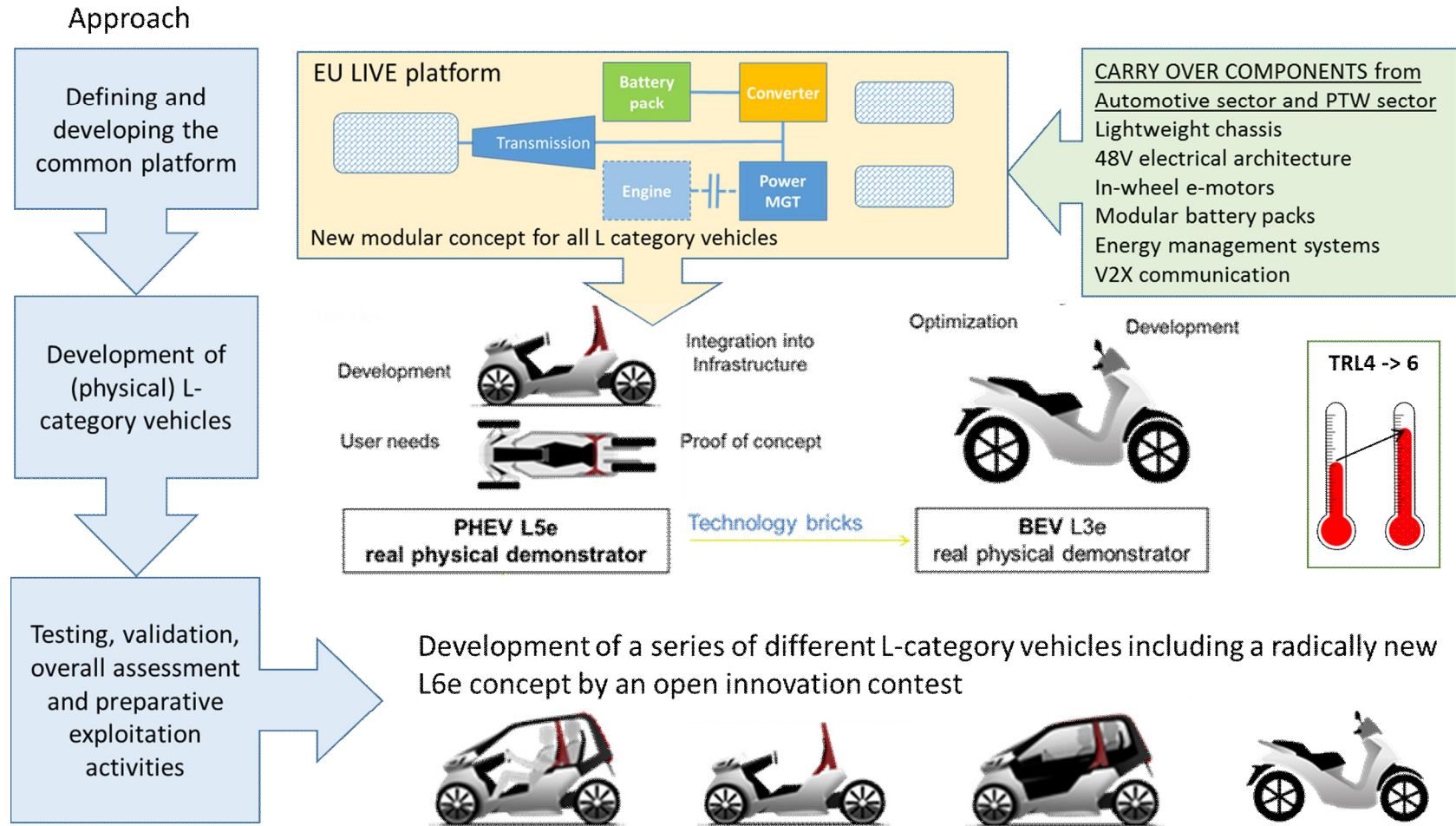
Project volume: 6.7 M”
Project duration: 36 months (06/2015 . 05/2018)
Project partners: 12 from 6 countries (AT, DE, ES, FR, IT, SI)
Project coordination: VIRTUAL VEHICLE Research Center



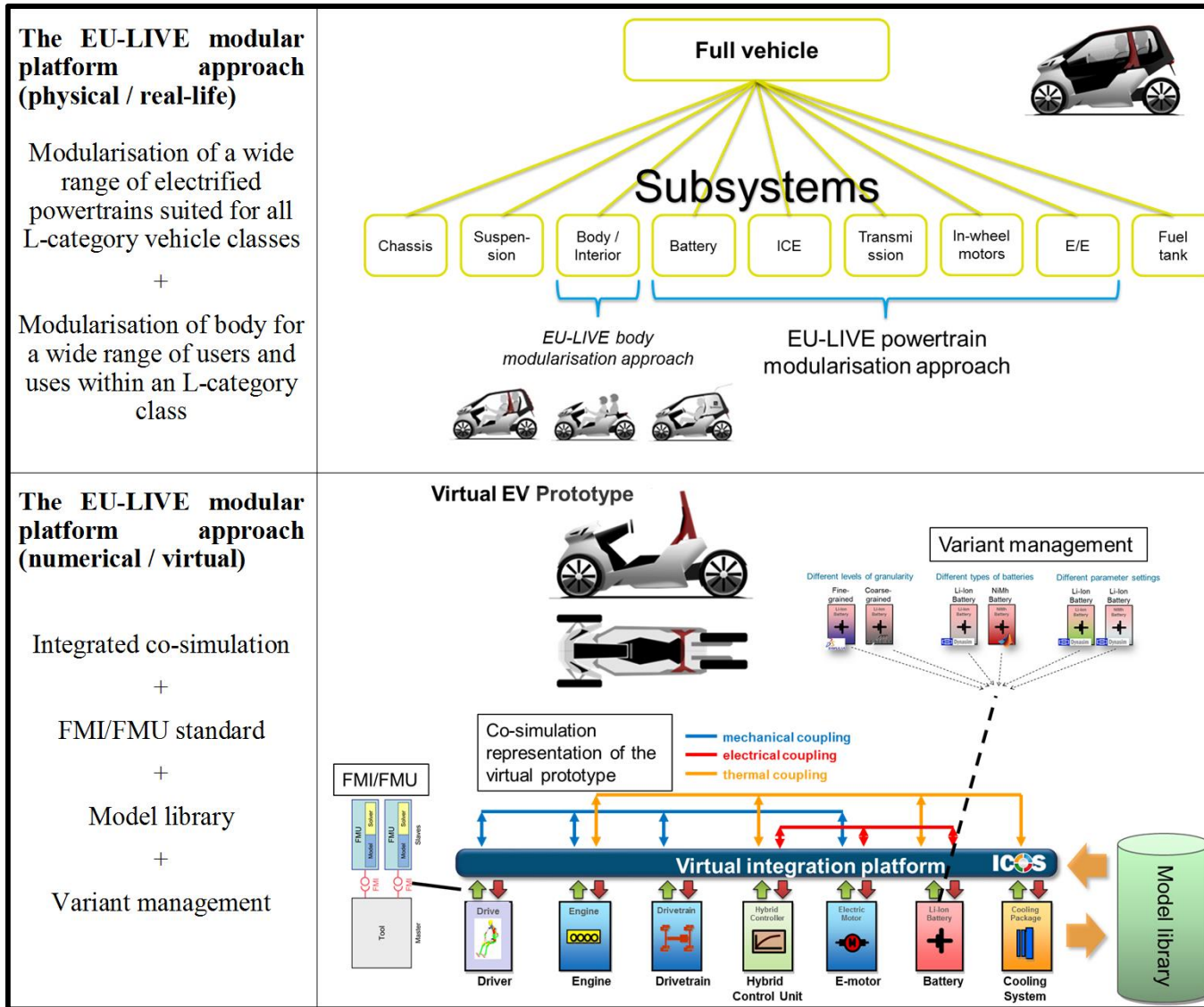
Grant Agreement
N° 653203



Overall concept and approach



EU-LIVE Modular Platform



Meeting the challenges

Main goals

Establish common methodology

for efficiently designing and building a range of L category vehicles

Develop a set of cost-efficient electrified powertrains

based on an overarching modular approach for BEV and PHEV

Efficient transfer of know-how

from Automotive to L category industry

Comprehensive concepts for full functionality of L category vehicles

(comfort, safety, connectivity / integration into infrastructure)

3 Demonstrators

L5e PHEV real-life demonstrator

(fully featured EU-LIVE %flagship+vehicle, beyond EURO5 in RDE)

L3e BEV real-life demonstrator

L6e BEV virtual demonstrator from open design contest

EU-LIVE
EFFICIENT URBAN
LIGHT VEHICLES



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