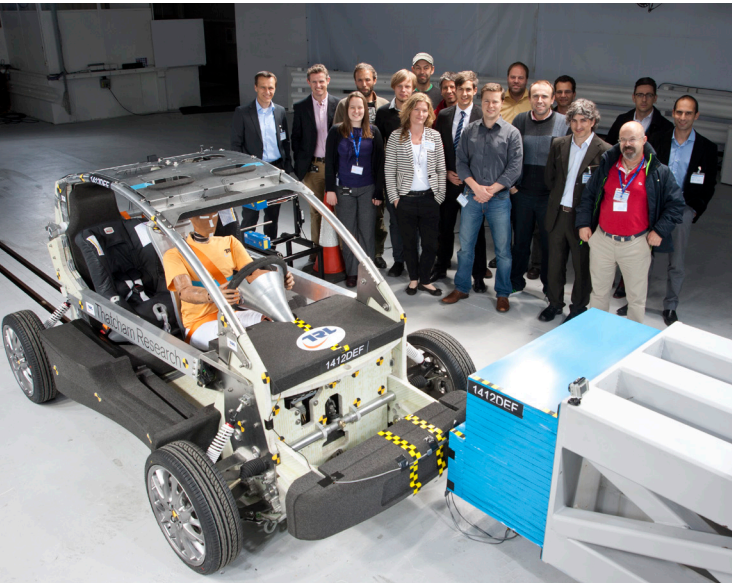




WHERE ELECTRIC VEHICLES MEET SAFETY



The BEHICLE project will deliver a safe, lightweight, performance enhanced and updated version of an existing urban electric vehicle. The main objective in BEHICLE is to demonstrate and validate a new integrated urban EV approach which combines power requirements and balanced energetic performance for urban environments and fulfills 100% safety assessment according to Euro NCAP crash tests.

With the intention of filling the gap between M1 vehicles and quadricycles, the BEHICLE has been designed with emphasis on:

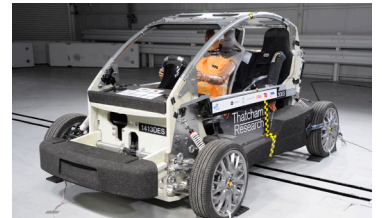
- Reduced consumption by optimization of the electric drive-train and radical weight reduction compared to current M1 vehicles.
- High level of safety comparable to the best super-minis (M1) currently in the market.
- Optimized for use in an urban environment offering swift acceleration, braking, and cornering as well as easy parking.

VEHICLE SPECIFICATIONS

Length:	<3000 mm
Width:	<1800 mm
Vehicle weight:	550 kg (including battery and driver)
Top speed:	120 km/h
Acceleration 0-100 km/h:	<10 s
Range:	150 km (NEDC)
Consumption target:	40 - 80 Wh/km
Safety level:	Comparable to that of a contemporary super-mini M1 vehicle
Traction:	In-wheel drives in each rear wheel

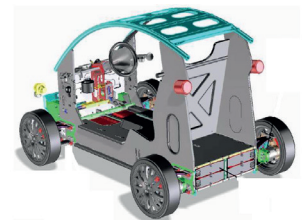
BENCHMARKING

EuroNCAP frontal and side impact tests: Composite based rolling chassis have been manufactured and crashworthiness assessed according to EuroNCAP legislation.



BEHICLE'S ELECTRIC POWERTRAIN

A feasibility study has been performed in order to verify the longitudinal performance targets of BEHICLE's electric powertrain, taking into account different requirements such as weight, efficiency, torque/power and available space and related safety aspects in order to come up with a powertrain specification fulfilling longitudinal dynamic performance targets.



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 605292.

PROJECT PARTNERS



MORE INFO

<http://behicle.eu>

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