

PROJECT

TVP-eNext

Torque Vectoring Platform for Next Generation of Electric Driven Vehicles

Funding: European (Horizon 2020)

Duration: Mar 2016 - Aug 2016

Status: Complete

Total project cost: €71,429

EU contribution: €50,000



Call for proposal: H2020-SMEINST-1-2015

[CORDIS RCN : 200372](#)

Objectives:

The main objective of the TVP-eNext project is the development of a modular and scalable component solution for battery electric vehicles (BEV) and serial hybrid electric vehicles (HEV), which reduces both the cost and the complexity and increases the efficiency of the new generation electric drivetrains and simplifies the effective mechanical, thermal and electrical integration into the vehicle.

The TVP-eNext project will deliver a unique Torque Vectoring hardware-software Platform (TVP) for torque vectoring system for vehicles with electric drivetrains with one electric motor per wheel. This type of new generation components enables software based torque distribution to individual wheels. It simplifies the implementation of the vehicle sub-systems, like Anti-lock Braking System, Traction Control System and Electronic Stability Program and enhances reliability, safety, stability and robustness of electric driven vehicles.

Our TVP is compatible with any kind of BEV or serial HEV, such as with urban cars, common cars, sport cars, working vehicles, All-Terrain-Vehicles, trucks, buses, urban commercial vehicles and Heavy Duty Vehicles.

We are addressing the trends and needs of the electric vehicle market. Considering the pitfalls of the existing solutions available to the commercial sector, we plan to address the market challenges of automotive component manufacturers, seeking to complement their product portfolio, as well as of the automotive manufacturers, where concrete interest in our solution already exists.

The purpose of the SME Phase 1 TVP-eNext project is to outline the full scope of further development potential of our innovative solution, involving the technical and business viability issues, also regarding the analysis of the associated risks and the exploitation of the project commercial`s potential to the fullest.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Exor Evs, Storitve In Oprema, Doo

Address:

PESNICA PRI MARIBORU 20A
2211 PESNICA PRI MARIBORU
Slovenia

EU Contribution: €50,000

Technologies:

Electric road vehicles
Lightweight modular
EV

Development phase: Research/Invention

Transport

STRIA Roadmaps: electrification

Transport mode: Road transport

Transport sectors: Passenger transport, Freight transport

Geo-spatial type: Other