

 Content archived on 2024-05-28



DEsign, MOdelling and TESTing tools for Electrical Vehicles powertrain drives

Fact Sheet

Project Information

DEMOTEST-EV

Grant agreement ID: 324345

Project closed

Start date	End date
1 January 2013	31 December 2016

Funded under
Specific programme "People" implementing the
Seventh Framework Programme of the European
Community for research, technological
development and demonstration activities (2007 to
2013)

Total cost
€ 976 587,65

EU contribution
€ 976 587,65

Coordinated by
UNIVERSITATEA TEHNICA
CLUJ-NAPOCA
 Romania

This project is featured in...



The grand plan for carbon capture

Objective

Advanced automotive system design and development requires a multidisciplinary and intersectoral approach connected to the integration of new powertrain concepts, such as electric and hybrid ones. This approach involves knowledge concerning the NVH issues, and/or electric motor, associated power electronics to control motor speed and torque, the transaxle that transfers the mechanical energy to the wheels, the battery and its management unit, etc.

The present proposal answers to two challenges of the electrification of the passenger cars: (i) noise-vibration-harshness (NVH) issues connected to the electric driveline integration and (ii) new advanced modelling and testing tools able to answer to the high integration level of electric vehicles (EVs).

The main objective of DeMoTest-EV aims the development of advanced and extended design, modelling and testing tools for improved concept modelling and for higher prediction accuracy of noise and vibration generated by EVs powertrain. The achievement of the objective will be possible by enhancing knowledge, know-how and technological transfer between four European partners bringing together their experience in electrical machines and drives, NVH issues in automotive, modelling and testing tools for automotive applications. The mechanisms used for the transfer of knowledge within the frame of the project are collaborative research, two-way intersectoral secondments, sharing facilities, training and dissemination activities.

Fields of science (EuroSciVoc)

[social sciences](#) > [social geography](#) > [transport](#) > [electric vehicles](#)



Programme(s)

[FP7-PEOPLE - Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities \(2007 to 2013\).](#)

Topic(s)

[FP7-PEOPLE-2012-IAPP - Marie Curie Action: "Industry-Academia Partnerships and Pathways"](#)

Call for proposal

FP7-PEOPLE-2012-IAPP
[See other projects for this call](#)

Funding Scheme

[MC-IAPP - Industry-Academia Partnerships and Pathways \(IAPP\).](#)

Coordinator



UNIVERSITATEA TEHNICA CLUJ-NAPOCA

EU contribution

€ 260 388,69

Total cost

No data

Address

STR MEMORANDUMULUI 28

400114 Cluj Napoca

 **Romania** 

Region

Macroregiunea Unu > Nord-Vest > Cluj

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (3)



SIEMENS INDUSTRY SOFTWARE NV

Belgium

EU contribution

€ 454 878,61

Address

INTERLEUVENLAAN 68
3001 Leuven

Region

Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



UNIVERSITE LIBRE DE BRUXELLES

Belgium

EU contribution

€ 254 720,35

Address

AVENUE FRANKLIN ROOSEVELT 50
1050 Bruxelles / Brussel

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



ICPE SA

 Romania

EU contribution

€ 6 600,00

Address

SPLAIUL UNIRII 313 SECTOR 3

030138 Bucuresti 

Region

Macroregiunea Trei > Bucureşti-Ilfov > Bucureşti

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data

Last update: 2 August 2019

Permalink: <https://cordis.europa.eu/project/id/324345>

European Union, 2025