

## PARTNERS

### Engineering Service Provider / Project Coordinator

IDIADA Automotive Technology S.A.  
[www.applusidiada.com](http://www.applusidiada.com)

### Vehicle OEMs

Centro Ricerche Fiat S.C.p.A. [www.crf.it](http://www.crf.it)  
Fiat Chrysler Automobiles Italy S.p.A.  
[www.fcagroup.com](http://www.fcagroup.com)  
Toyota Motor Europe [www.toyota-europe.com](http://www.toyota-europe.com)  
Volvo Car Group [www.volvocars.com](http://www.volvocars.com)

### TIER 1 Suppliers

AGC Glass Europe [www.agc-glass.eu](http://www.agc-glass.eu)  
Denso Thermal System S.p.A. [www.denso-ts.com](http://www.denso-ts.com)  
Faurecia Sièges d'Automobile [www.faurecia.com](http://www.faurecia.com)  
Faurecia Interieur Industrie [www.faurecia.com](http://www.faurecia.com)  
Hutchinson S.A. [www.hutchinson.com](http://www.hutchinson.com)  
IEE International Electronics & Engineering S.A.  
[www.iee.lu](http://www.iee.lu)

### University and Research Institutes

Luxembourg Institute of Science and Technology  
[www.list.lu](http://www.list.lu)  
Fraunhofer Institute for Structural Durability and  
System Reliability LBF [www.lbf.fraunhofer.de](http://www.lbf.fraunhofer.de)  
Coventry University [www.coventry.ac.uk](http://www.coventry.ac.uk)  
Institute for Automotive Engineering, RWTH Aachen  
University [www.ika.rwth-aachen.de](http://www.ika.rwth-aachen.de)  
Fundacion Tecnalia Research and Innovation  
[www.tecnalia.com](http://www.tecnalia.com)  
Kompetenzzentrum - Das Virtuelle Fahrzeug,  
Forschungsgesellschaft m.b.H. [www.v2c2.at](http://www.v2c2.at)

### Management Service Supplier

Uniresearch BV [www.uniresearch.com](http://www.uniresearch.com)

## KEY DATA

**Acronym:** DOMUS  
**Full name:** Design OptiMisation for efficient EVs based on a USer-centric approach  
**Duration:** 42 months  
**Start date:** November 2017  
**Total budget:** 9.0 M€ (100% EU Contribution)



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## CONTACT

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# DOMUS

Increasing EV's driving range through user-centric cabin design modifications, innovative solutions for comfort perception, efficient management, and advanced assessment methods.

[www.domus-project.eu](http://www.domus-project.eu)

# OBJECTIVES

The overall objective of the **DOMUS** project is to reduce the overall energy consumption of future EVs in order to increase the electric range by 25% for different ambient conditions.

This will be achieved by an in depth understanding of comfort perception of EV users before developing reliable methodologies for designing and assessing the full vehicle context from a user-centric perspective, investigating radically new cabin designs and delivering innovative components, systems and control strategies to meet customer expectations.

# RESULTS

- DOMUS will develop, integrate and demonstrate new components, systems and control strategies for EVs that are energy efficient, comfortable, safe, configurable and cost effective.
- DOMUS will achieve an increase of 25% of the electric drive range of EVs compared to their 2016 reference models.
- DOMUS will generate knowhow about user's perception of comfort and corresponding cabin requirements for future mass-market oriented efficient EVs.

# IMPACT

The **DOMUS** project will contribute to a wider adoption of EVs by the general public and accelerated transition towards the production of low and zero emission vehicles, in particular, battery EV and (plug in) hybrid EVs.

[www.domus-project.eu](http://www.domus-project.eu)



\* The Concept-i represents the vision of Toyota on future EV mobility. This concept is not directly related to the DOMUS-Project

