

CARNET

Cooperative Automotive Research Network

TECHNOLOGY FOR URBAN MOBILITY



Founding Members



VOLKSWAGEN
AGTIENGESELLSCHAFT



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

Industrial Partners

altran

RÜCKER
LYPSA
EDAG GROUP

RACC
Automóvil Club

Applus
IDIADA

FICOSA

Strategic Goals

A Cooperation Platform with the mobility industry, universities and institutional partners

- Scouting activities on „Urban Mobility“ in Barcelona
- Strategic contribution to **strengthen the automotive sector** in Spain / Catalonia
- Proactive **Recruiting** for the Automotive Industry
- **Networking** and **international Research Funding**



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CARNET

Maturing
powertrain
technologies



Lightweight
materials



Quick advances
in connected
vehicles



New paradigm
for people
mobility choices



Emergence of
autonomous
vehicles



Objectives

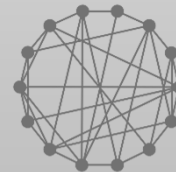
Training & Education

- Automotive Engineering Courses
- Industry Expert Lectures
- Postgraduate Program
- International Internship Program
- Industrial Seminar Projects
- Extend Automotive Master



Cooperative Research

- Bilateral Project Funding
- Initiation of Bilateral Projects
- Showcase CARNET Portfolio
- Industrial Doctorates



Networking

- International visibility and networking
- Public Projects (H2020)
- Showcase CARNET Portfolio
- Assistance for Project Funding



Further activities

- Integrated Technology Showcase (Concept Car & Mobility Demonstration in Barcelona)
- CARNET Building / Project House (central building with office and prototyping facilities)
- Investment in testing facilities (performance, emission, aerodynamics, acoustics, HMI simulator)
- IT-structures for connected driving and traffic management research (e.g. backend data server etc.)
- International Master Course
- University Institute and Chair for Mobility Engineering
- ...



Founding Members



Industrial Partners





NFF Metropolitan Car

Vehicle Concepts

Energy and CO2-Efficiency
 Functionalities supporting urban driving
 Accessible Driver Assistance Systems
 Simulation / Virtual Product Design



Mobility Apps

Mobile Online Services
 Cooperative Navigation Strategies
 Data-based mobility functionalities
 Individual Mobility Planning and Coordination



Urban Mobility



Mobility Concepts

Logistics & Routing Concepts
 Traffic Management and Control Systems
 Fleet Management Strategies
 Multi User Mobility Strategies



Business Design

Business Strategies
 Service Design Methodology
 Technological and social trends
 Predictive User Studies
 Mobility Data Collection



Barcelona „Smart City“

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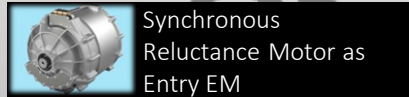
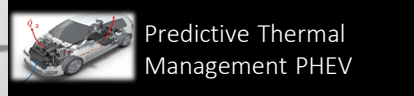
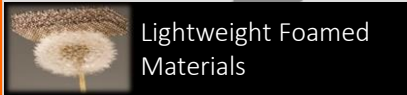


Industrial Partners

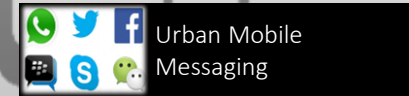
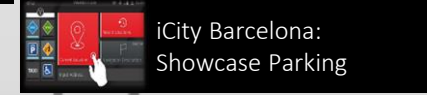


Pilot Projects

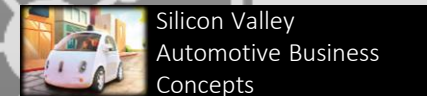
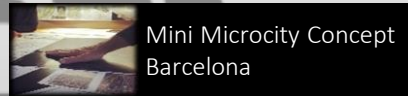
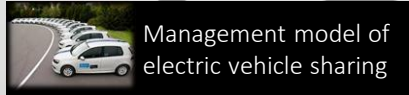
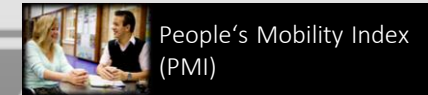
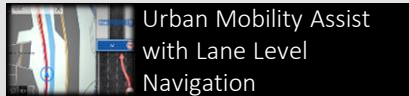
Vehicle Concepts



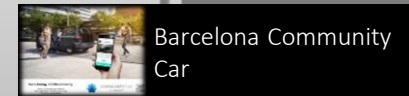
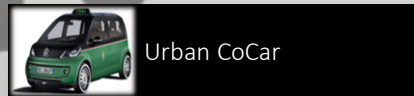
Mobility Apps



Urban Mobility



Mobility Concepts



Business Design

Founding Members



Industrial Partners



UPC



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Prof. Dr. Pedro Diez
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Laura Peraita Herrero
CIT UPC
Communication & Marketing



Academic Project Leader
/ UPC Barcelona Tech
/ Other Partners

SEAT & VOLKSWAGEN



Dr. Christoph Waller
SEAT CTS
CARNET Industrial Director



Esther Scherer
SEAT CTS
CARNET Project Leader



Industrial Project Leaders
/ Volkswagen Group Research
/ SEAT

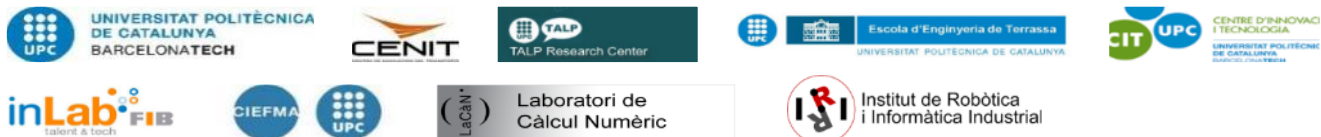
Founding Members



Industrial Partners

CARNET Partners (Status 11/2015)

Academics from UPC



Other Academic



Industrial



Institutional



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Industrial Partners



Past Events



ESCOLA D'ENGINYERIA DE TERRASSA
Creative Lab 1: Urban Vehicle Concepts



IESE BUSINESS SCHOOL:
Big Data Business Design 06/2015



IESE BUSINESS SCHOOL
Future of Urban Mobility 05/2015



UPC
Formula Student

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Future Events

Hackathon:
Sensor based
interaction methods
UPC, Barcelona
February, 2016

Grand Cooperative
Driving Challenge 2016

Barcelona
28th-29th May, 2016



Symposium
"Challenges in
Urban Mobility"

Barcelona
16th November, 2015

CARNET
Innovation Day

Barcelona
March, 2016

Smart City Expo
2016

Barcelona
November, 2016
(tbc)

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Thanks you for your attention!



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