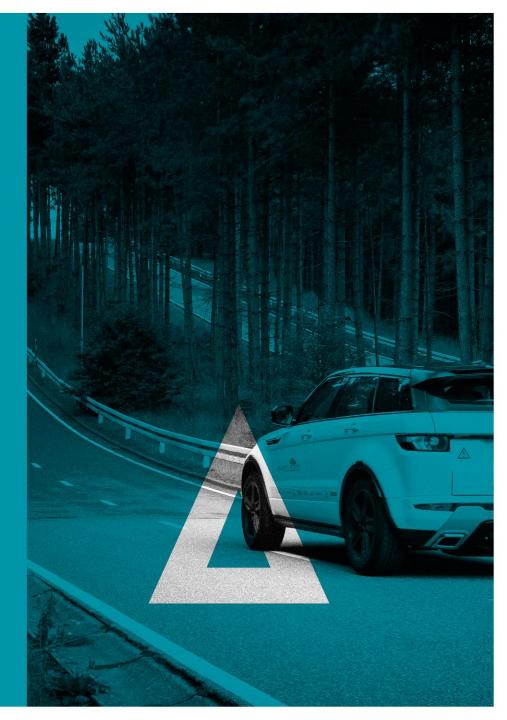
▲ Flanders Make

1st China-Belgium Innovation Dialogue Session: Factories of the Future

Bert Dexters
Brussels | March 30th, 2017



OUR MISSION

Strengthening the international long-term competitiveness of the Flemish manufacturing industry by performing industry-driven, pre-competitive, top-class research in the field of:

- Mechatronics
- Product development methods
- Innovative production technologies



Green & autonomous vehicles



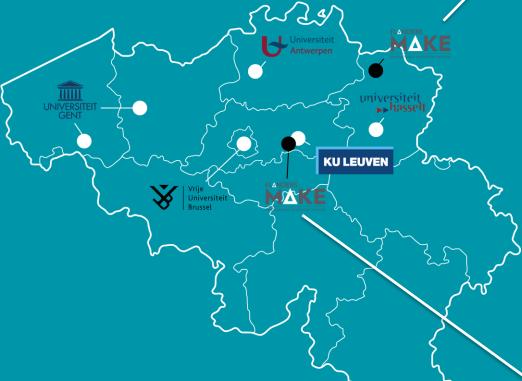
Smart, mutually connected machines



Flexible production and assembly



OUR PEOPLE



400+ highly specialised researchers active on sites in Lommel and Leuven and at the 5 Flemish universities

Site Lommel





Site Leuven





OUR FLYWHEEL IS TURNING AND ACCELERATING



100 member companies

44 companies involved in projects



€ 100 million activated



knowledge centers companies (also investing € 13 million)



34 projects

- 22 interdisciplinary cooperative research
- 8 strategic basis research
- 4 infrastructure

LARGE COMPANIES



















SIEMENS











PREMIUM SOUND SOLUTIONS



















LABORELEC

GDF SVCZ





























SMEs























































































RESEARCH FOCUS

SYSTEMS WITH INCREASING SMARTNESS AND INTERCONNECTIVITY

Performance





Green energy-efficient drivetrains



Robustness and safety





Dynamic control of mechatronics systems



Adaptability





Self optimizing systems



Multi-context adaptability



Interconnected
Vehicles and machines







Hard automation concepts



Safety of human-robot operations



Intuitive collaborative robot programming



Interconnected workcell learning and optimization



EUROPEAN ROAD TRANSPORT RESEARCH AND INNOVATION







Control of vehicle dynamics & functional safety for electric drivetrains



Adaptive Battery Management System for electric vehicles



2011

2012

2013

2014

2015

2016

2017

2018





Integrated energy management, thermal management, driveability control and vehicle dynamics



Automated obstacle avoidance for autonomous public transport





A STATE OF ART RESEARCH INFRASTRUCTURE











EXPLORATION OF RESEARCH COOPERATION WITH CHINA



Exploring cooperation with:

- Southwest Jiaotong University
- Sichuan Research Institute of New Energy Vehicles

New Energy Vehicles

- Passenger cars
- City Bus
- Touring Bus
- Airport Shuttle Bus
- Delivery Trucks



- Battery Packs
- Battery Management Systems
- Active safety systems
- Intelligent connected cars

- ..



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