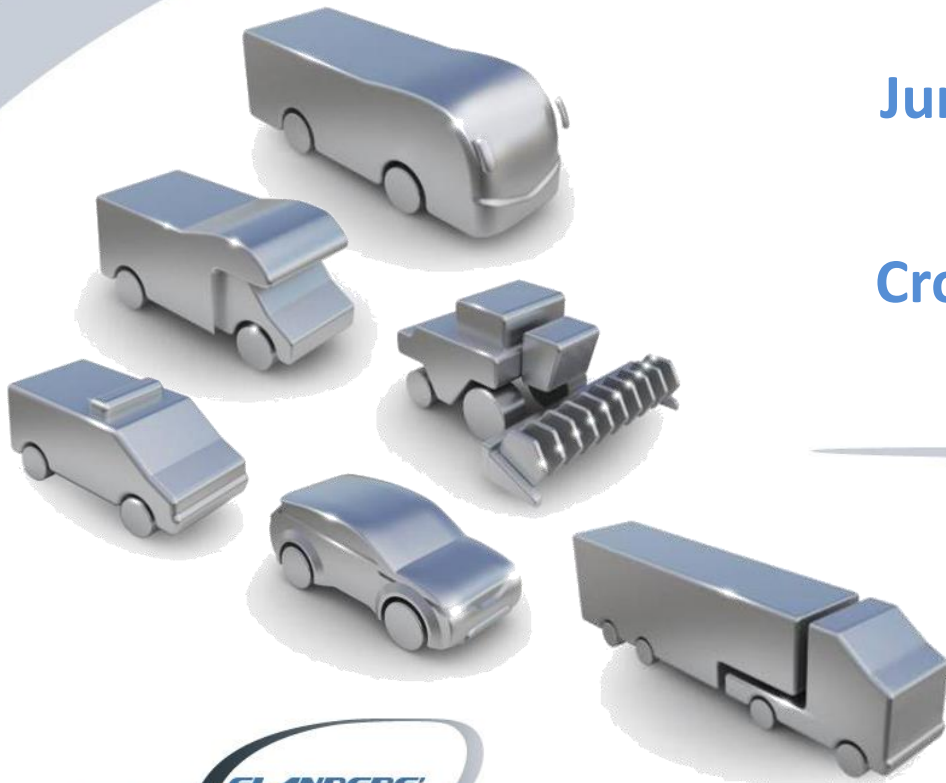


NOAE WORKSHOP
June 12, Aachen/Germany

Cross Border Collaboration



Located in an inspiring environment



- Research institute for the **vehicle and mobility industry** developing and presenting **technological solutions** in R&D domains:



- Open innovation approach **driven by the industry**
- High-tech Infrastructure** for vehicle, system and component testing
- Wide **international network** of 170 partners

R&D projects

2009

2010

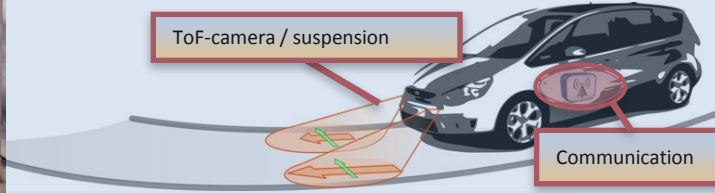
2013

2014 ...

Zero accidents

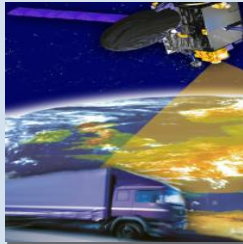


Active suspension
ReVAS



V2I communication,
VISION

Intelligent mobility



GPS vehicle positioning



Inductive charging

e-vect  rc

FP 7 2013-2014

Zero emission



Lightweight door



Battery Management
ESto



Electric Powertrain

 i-compose

Integrated Control of Multiple-Motor and Multiple-Storage Fully Electric Vehicles

FP 7 2014-2016

Click to edit Master title style

Project idea

Energy Consciuous Design



Aim and Scope of the project

Aim:

The project aims to develop a better understanding of the thermal requirements, the availability of on board energy resources, the existing energy technologies and their interactions to design and to manage thermal systems in electric and hybrid vehicles for low energy consumption.

Scope:

Strategies to apply the available energy resources have to be defined, being the internal combustion engine or the energy from the battery or the grid. Human thermal comfort, which can be defined as a combination of subjective sensation and several objective interactions (heat and mass transfer rates) in the cabin environment, has to be considered

Project description

WP1: assessment of human body comfort sensation

WP2: definition of requirements and validation criteria at vehicle level

WP3: simulation of energy and thermal flows

WP4: development of proof of concept for low energy consuming HVAC system

WP5: development of proof of concept for a self-learning energy management system

WP6: validation in industrial use-cases

Demanded partners

- OEM's or Tier-1's able to bring in an additional case study for the project
- Producers of industrial and agricultural vehicles
- Research centers with relevant expertise / experience
- Other partners with an interest in P(H)EV, thermal management, battery systems, cabin comfort



Flanders' DRIVE
Oude Diestersebaan 133
BE-3920 Lommel

Tel.: +32 11 790 590
E-mail: info@flandersdrive.be

