

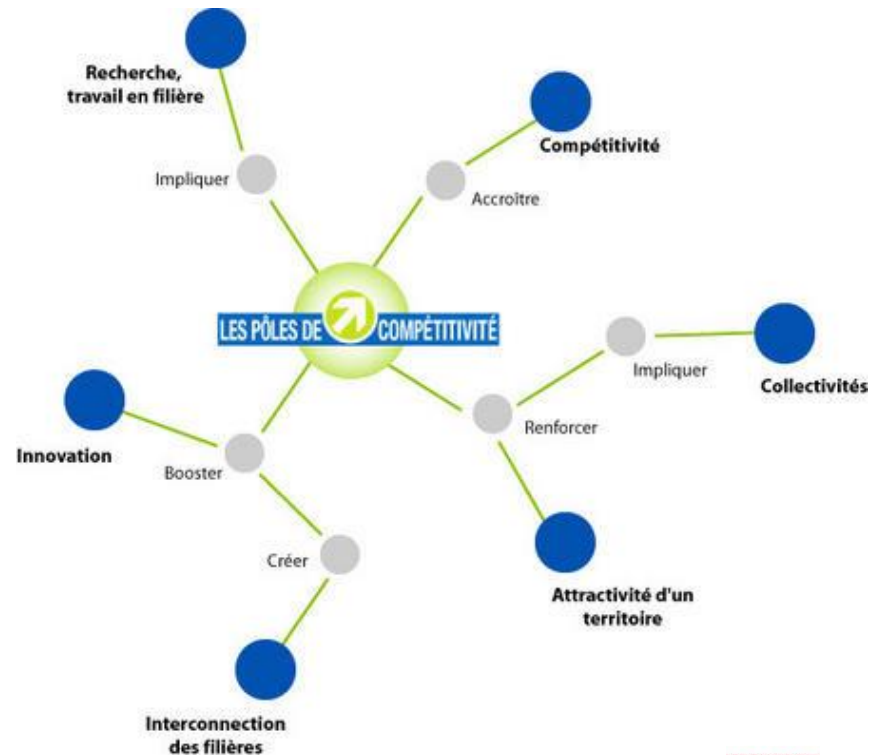


***Build your network,  
Transform your future***

# What is a competitiveness cluster ?



- \* A competitiveness cluster **brings together companies, research laboratories and training institutions** on an **identified territory** and on a **specific topic**.
- \* A cluster aims to **support innovation**. It promotes the **development of collaborative research and development projects (R&D) that are particularly innovative**.



Source: **LUSINE**







# Mov'eo today




# Mov'eo today

**70%**   
**Of Automotive R&D**  
*on Mov'eo territories*



**A very efficient cluster**   
*According to DGE assessment*

**380**   
**members**  
200 SMEs  
growing for 7 years

 **335** Labelled projects  
**€ 1,4b** budget  
**a recognized label**

**An internationally Active cluster**   
*Two major European projects*

 **+100**  
technological experts

 **+400**  
*Press impacts per year*



# Among our members

Manufacturers

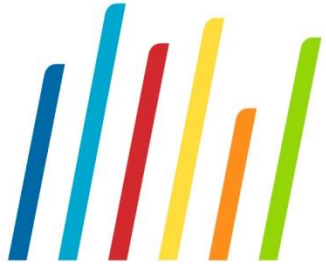
SMEs

Research organizations



200  
innovative  
SMEs





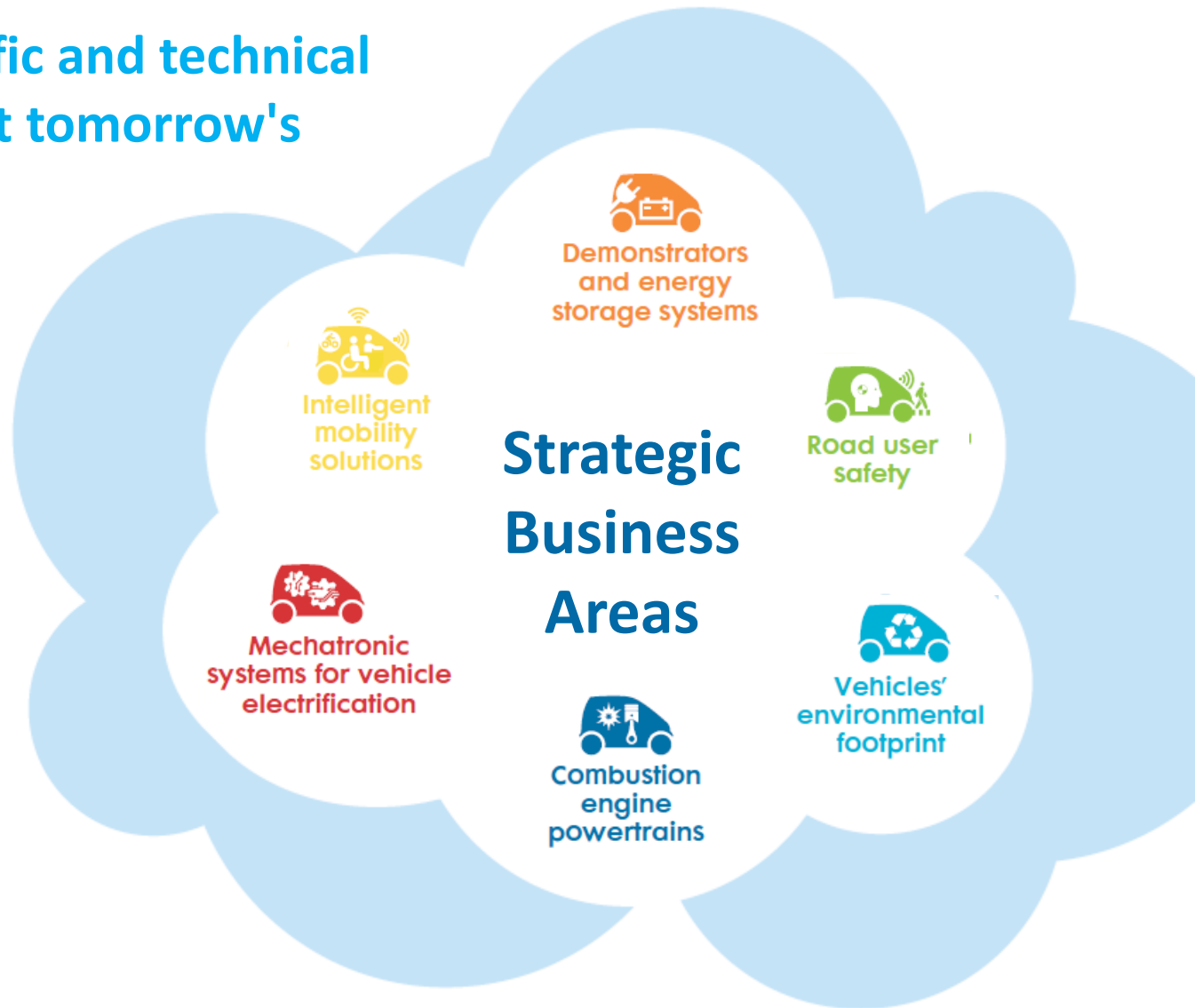
# R&D collaborative projects





# 6 strategic key areas

Address the scientific and technical challenges to invent tomorrow's mobility...





# Intelligent Mobility Solutions

## SMI key area

*Challenge: design, develop and integrate intelligent and sustainable solutions for mobility of persons and goods in urban and rural areas.*

- \* **Intelligent Transportation Systems (ITS) for safety and services**
- \* **Infrastructure: 5<sup>th</sup> generation roads**
- \* **Technologies at the service of seniors and people with reduced mobility**



## SUR key area

*Challenge: increase road safety for all types of users in cities and on roads*

- \* **ADAS and automated driving technologies**
- \* **Human/Machine Interaction and coordination for safety and services**
- \* **Safety of motorised two-wheelers (2WD)**



# Vehicle environmental footprint

## EEV key area

*Challenge: reduce the environmental and health footprint of vehicles, taking account of life-cycle analysis.*

- \* **Lightweighting**
- \* **Health interactions** (passenger compartment air quality, noise, electromagnetic compatibility)
- \* **Environmental footprint reduction technologies for the "Vehicle" system** (recycling, deconstruction, logistics, green materials etc. )
- \* **Digital chain adapted to new materials, assembly and environmental requirements**



# Demonstrators and Energy Storage Systems

## DSE Key area

### *Challenges:*

- *Promote carbon-free vehicles and new vehicle concepts through demonstrator projects*
- *Develop energy storage systems*

- \* **New carbon-free mobility**
- \* **Aerodynamics and rolling resistance**
- \* **Static and dynamic inductive charging**
- \* **Management of embedded multi-energy systems**
- \* **Supercapacitors**
- \* **New vehicle interfaces and charging infrastructures**
- \* **Battery Management System Architecture and Battery Expertise**



# Combustion Engine Powertrain

## CTT key area

*Challenge: develop and optimize low CO<sub>2</sub> emission powertrains, considering new international regulations and opportunities for the evolution of the energy mix.*

- \* **Powertrain architecture**
- \* **Combustion, aftertreatment system and fuel**
- \* **Management and recovery of thermal energy**
- \* **Digital Engineering**



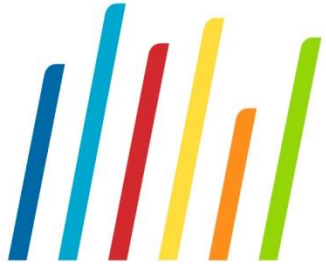
# Mechatronic systems for vehicle electrification

## SME key area

*Challenge: generalize the electrification of functions through innovative mechatronic components and systems.*

- \* **Electrical machines and actuators for electrified and hybrid vehicles**
- \* **Active and passive components integrated into mechatronic objects**
- \* **High performance materials for mechatronics**
- \* **Robustness and manufacturing processes**





# Services for Mov'eo members





# 4 complementary cross-cutting tools

MOV'EO PME 

*Support SMEs in their innovation process*

MOV'EO INTERNATIONAL 

*Strengthen the international competitiveness of companies and regions*

MOV'EO COMPÉTENCES 

*Preparing tomorrow's skills*

MOV'EO INTELLIGENCE ECONOMIQUE 

*Promoting the principles of Economic Intelligence*



# International

*With Mov'eo International, we actively assist our members in their R&D and international business development*

- \* **Organisation of four thematic missions per year** in USA, Canada, Brazil, China, Japan, Korea...
- \* **Access to contacts and contracts within Europe** through partner clusters as SAFER (Sweden) , Bayern Innovativ (Germany), ISMB (Italy), CEAGA (Spain), Auto Muntenia (Romania) or AC Styria (Austria)
- \* **Supporting members in their international development strategy** , in connection with Mov'eo Development services.

## Fast Fact

*SME cluster members forge more partnerships abroad on an innovative project than other SMEs : 20% against 2% (Source : DGE)*

# Europe

*To participate in European projects means to open up to new markets and networks, access new technologies, take advantage of attractive financing (up to 100 % of R&D costs) and a recognized label of excellence.*



- \* **Monitoring of European calls for projects**
- \* **Supporting our members** : awareness, consultancy, search for partners or connection with existing consortia
- \* **Recommendation and labelling** of projects by committees of experts
- \* **Representation** with European Authorities (EGVIA, CE...)
- \* **National Contact Point** (NCP) for Transport
- \* **« Cluster Management Excellence »** Gold label



# Vision

- ✧ The future of the automotive industry in France depends more on the ability to compete through innovation than on a downward trend in labor costs
- ✧ The challenges of tomorrow's mobility require that actors work together in a collaborative way, using all the skills of the ecosystem
- ✧ Better efficiency will be achieved by simplifying innovation support schemes as well as optimizing industry support organizations



**This is the fundamental purpose of Mov'eo**



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