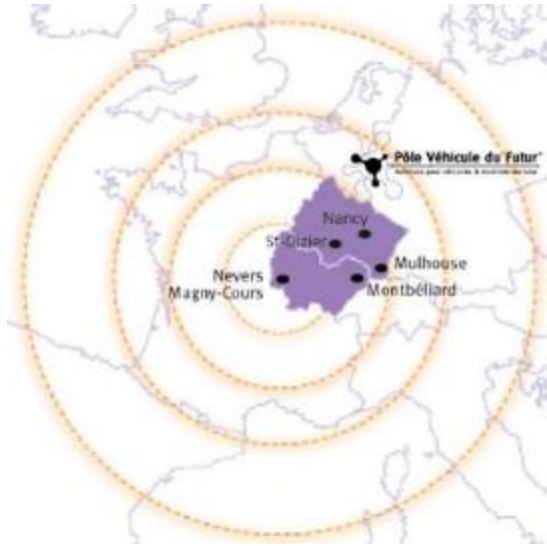




Cluster Pôles Véhicule du Futur®
Solutions for future vehicles & mobility

French automotive & mobility cluster, East of France



Electrification Hydrogen



Digitalisation process



Mobility as a Service



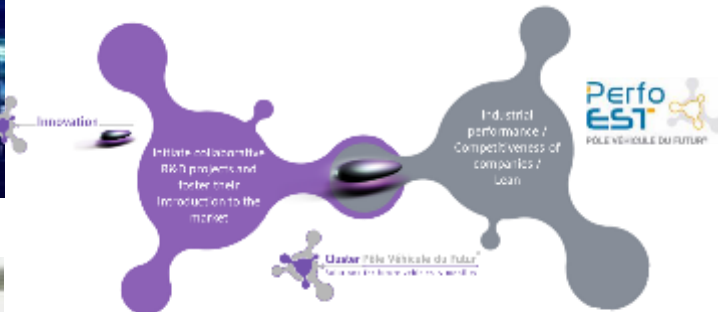
Industry 4.0



Connected Vehicle



Autonomous Vehicle



A team of 22,5 people at your service
Association created on July 2005

Innovation: 5 Strategic Areas

Energy and Propulsion

Hybrid and electric powertrains ;
Fuel cell, hydrogen ; Recharging stations

Materials, Composites, Recycling

Material features & light-weight materials ;
New smart materials ;
Reuse and recovery of usable materials

Industry 4.0

Innovation Process ; Digitalisation,
Smart devices ; Robotic

Connected and autonomous Vehicle

Automated driving ; Geolocation ;
Systems Safety

Mobility as a Service

Data ; Services ; Uses

500 members

435 companies & **101 000** jobs

Objective 2022: **600** members



Energy & Propulsion innovation activities

➤ Hybrid and electric powertrains

- Batteries, Supercapacitors.
- Power electronics, e-architecture.
- E-Motors



➤ Fuel cell – Hydrogen

- Components
- Complete vehicles



➤ Recharging stations

- Batteries
- Hydrogen

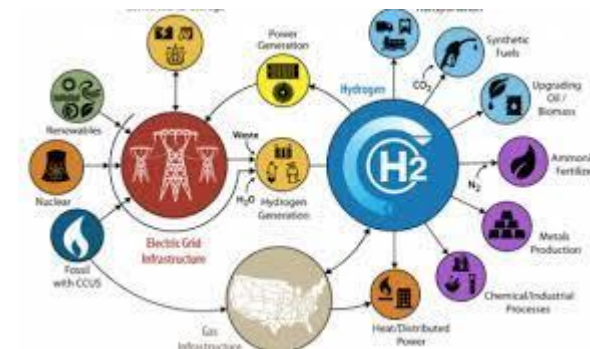


R-HYNOCA
l'hydrogène vert en construction



➤ Non-automotive uses of Hydrogen

- Stationnary
- Energy
- Process decarbonization



Hydrogen activities

ACCELERATE THE DEVELOPMENT OF THE HYDROGEN SECTOR IN GRAND EST REGION

DINAMHySE
Filière Hydrogène Grand Est

Consortium

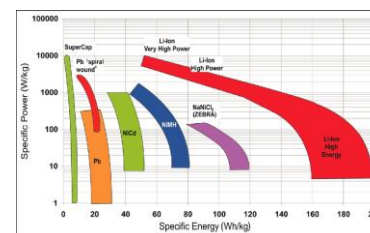


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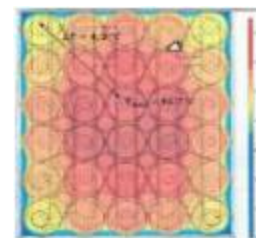


Battery activities – Innovative projects and ecosystem animation

➤ **Battery pack and integration projects**



➤ **Battery components, made by already existing industry**

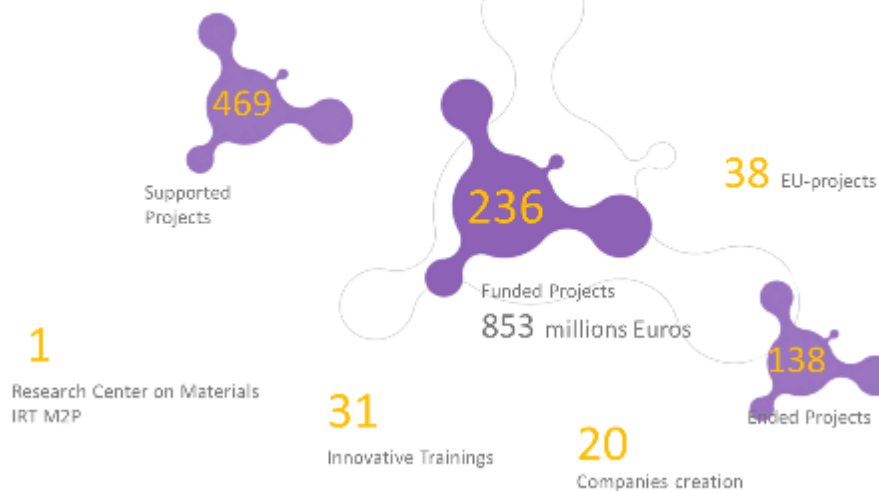


➤ Involved in **collaborative projects** (France, Europe).

➤ Involved in **working groups**

➤ **Ecosystem animation, missions in France, Europe...or worldwide**

All projects of our members, for all strategic areas





Recommendations for batteries

Support **industry for diversification** towards batteries when applicable

Support **battery market** with Zero Emission Areas in cities

Battery **circular economy is everywhere**: 2nd life, energy grid, fast charging, buses strategy, recycling.

When battery is **not in its optimal areas, forget it!** (Hydrogen, e-fuels, biofuels, ...).

Bruno JAMET – Head of Energy & Propulsion Strategic Area

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Pôle Véhicule du Futur
Innovation pour véhicules à mobilité électrique

11/05/2021

