

# LOMBARDY MOBILITY CLUSTER



## GENERAL INFORMATION

### REFERENCE ECOSYSTEM

Smart Mobility and Architecture

### TECHNOLOGY AREAS

Sustainable and smart mobility

### EUROPEAN PROJECTS AND INTERNATIONAL NETWORKS

Attending several European projects (such as COSME, Horizon, LIFE, CEF). International Network: EUSALP, ARA- Automotive Regions Alliance, Four Motors of Europe, ECH2A, C2Future

### HEADQUARTERS

Piazza Leonardo da Vinci 32, Milano (Italy)

### OPERATIONAL OFFICES

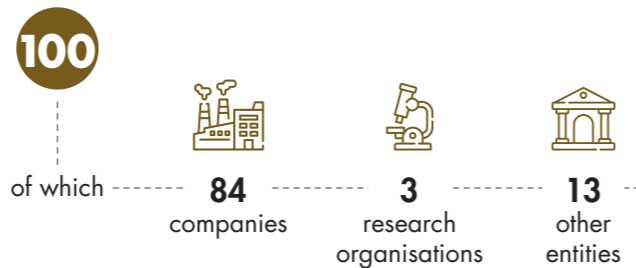
Via Cefalonia 60, Brescia (Italy)

### WEBSITE

[www.clusterlombardomobilita.it](http://www.clusterlombardomobilita.it)



## NUMBER OF MEMBERS



## SUCCESS STORIES

CLM projects, also at national and European level, cover various areas, in particular:

- Sustainability and alternative drives (electric, endothermic engine, fuel cells) and Renewable Fuels;
- ITS technologies, digitalization and AI for new transport service;
- vehicle lightweighting and new materia

For each area, successful projects have been developed that have led to the development of new product and process technologies. Noteworthy are the recent projects for electric traction (Hyper, Inproves, COEVE), methane (DualNG) or hydrogen (Shine) and the one on on-board sensor technology - AI (Road Safety).

## ONGOING PROJECTS 2024

### COEVE

#### Componenti Eccellenti lombardi per Veicoli Elettrificati (Lombardy's Excellent Components for Electrified Vehicles)

The project is based on the creation of a supply chain capable of responding to the demands of global manufacturers of electric vehicles, with the aim of creating in Lombardy an excellent ecosystem in automotive component industry (but including also railway, waterborne and aircraft vehicles industry).

The supply chain made up of 38 excellent companies (operating in electric motors or transmissions, power systems, batteries, energy/thermal management systems and other key components) will be able to meet the future needs of vehicle electrification to ensure a green and digital transition and promote sustainable and safe mobility.

Innovation and production autonomy of electric vehicle components, development of technologies to make electric vehicles more efficient and safer, and increasing the competitiveness of Lombardy component companies are other objectives of this strategic project.

### SHINE

#### Sustainable Hydrogen in New Mobility and Energy Management

The project goal is to realize 'demonstrator' that, using the electricity produced by a hydroelectric power station, produces 'green hydrogen' with a "compact" new generation electrolyser inside a 'multifunctional' fuel station, where two city buses (but in perspective also hydrogen-powered cars) in service in the Brescia city will be powered. The aim is to test the development possibilities of the hydrogen chain and its components in a medium-sized context with the possibility of extension and replication in various fields, to spread knowledge and experience on the use of hydrogen.

This highly replicable project has been included in a list of European projects worthy of support (European Commission of LIFE and European Clean Hydrogen Alliance Projects).

#### IA for the mobility and road safety

The project "Road Safety" supported by Artificial Intelligence algorithms, a sensor and image collection system for monitoring road infrastructure and increasing the road safety, developed within the MoSoRe@Unibs (Sustainable and Resilient Mobility) financed by the Regione Lombardia is evolving towards new Smart Mobility monitoring and development systems, always based on innovative use of the vehicles which, from being an "object in transit", becomes the interpreter of a territory, providing data for various, innovative services.

## SYNERGIES with other regional or national strategies

### SMART SPECIALISATION STRATEGY S3

**Smart Mobility and Architecture Ecosystem Sustainability Ecosystem**

### PNRR

#### Mission 2

Green revolution and ecological transition

#### Component 2

Renewable energy, hydrogen, grid and sustainable mobility

### SMART SPECIALISATION STRATEGY S3

**Smart Mobility and Architecture Ecosystem Sustainability Ecosystem**

### PNRR

#### Mission 1

Digitalisation, innovation, competitiveness, culture and tourism

#### Component 2

Digitalisation, innovation and competitiveness in the production system

#### Mission 4

Education and research

#### Component 2

From research to enterprise