

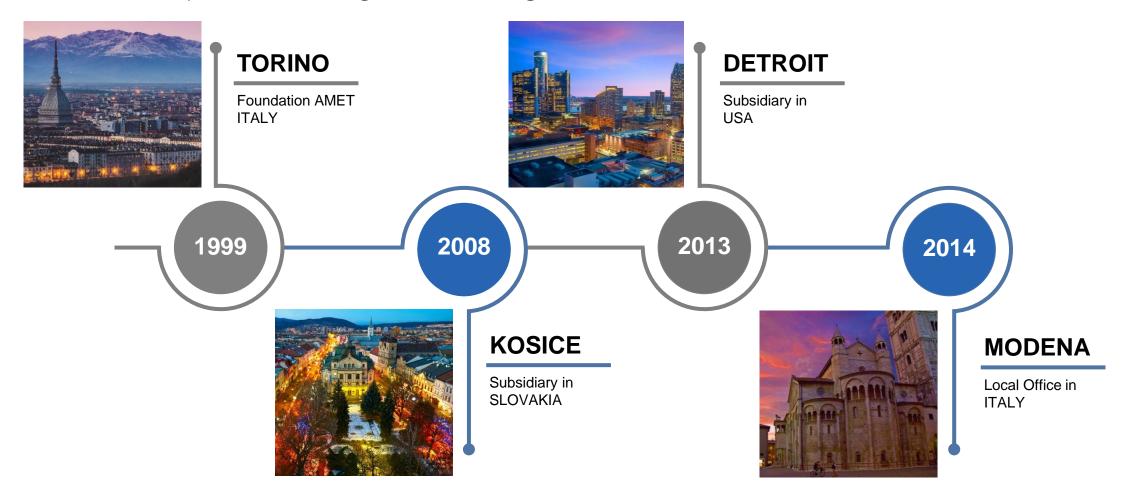
Analisi virtuale e testing fisico per innovare nel settore dei trasporti

Green mobility
21 February 2023



### **Overview**

**AMET** is an innovative high-tech **engineering company**, active in mechanic and mechatronic products **design** and **testing** 



### **Markets**









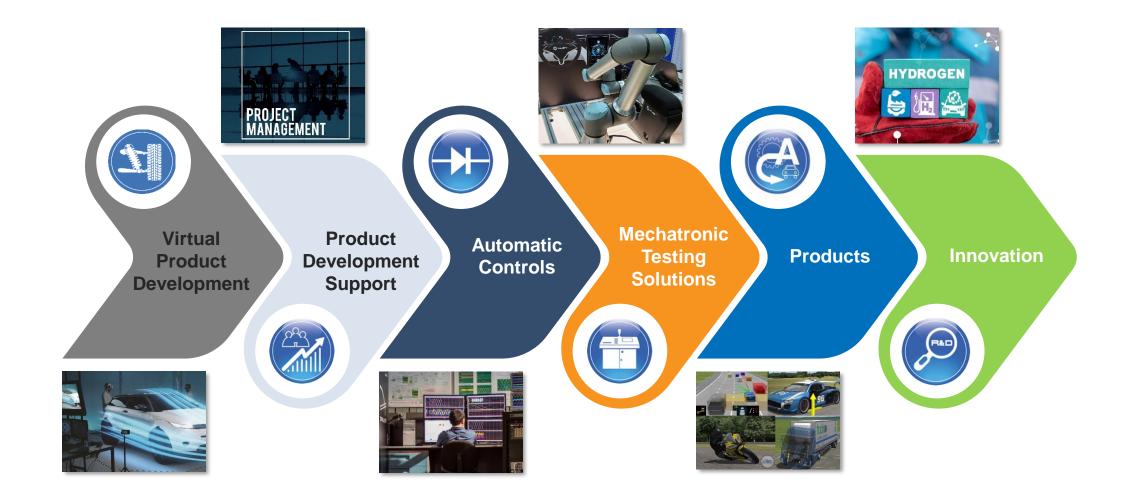








### **Competence Areas**



### **Products**

Driving Simulation.







### **AV**SIMULATION



2002

2003

Real time simulation for rapid

2016

2017

Software for Vehicle Dynamics & AD/ADAS development

control prototyping and HIL CATSIM° MECHANICAL SIMULATION'



RT-LAB







Driving Simulation Platform for AD/ADAS Driver in the Loop

**SCANeR**"studio

Performance Management Platform Life Cycle Assessment







trucksim° MECHANICAL SIMULATION

bikesim"











#### **Innovation**



# AMET is involved in collaborative R&D activities at different levels:

- EU projects
- National projects
- Regional projects

AMET continuously collaborates with Universities and start up accelerators



# AMET participates to two Piedmont innovation clusters and four Piedmont industrial clusters

Among our research interests:

- Sustainable and safe mobility
- Embedded systems















# **Funded Research Projects: EU & national technology clusters**

**MOS-FC** 













**Electric/Hybrid vehicles** 

**Industry 4.0** 

Aerospace

**Embedded Systems** 



Sustainable mobility



Smart Manufacturing

Predictive

Maintananca

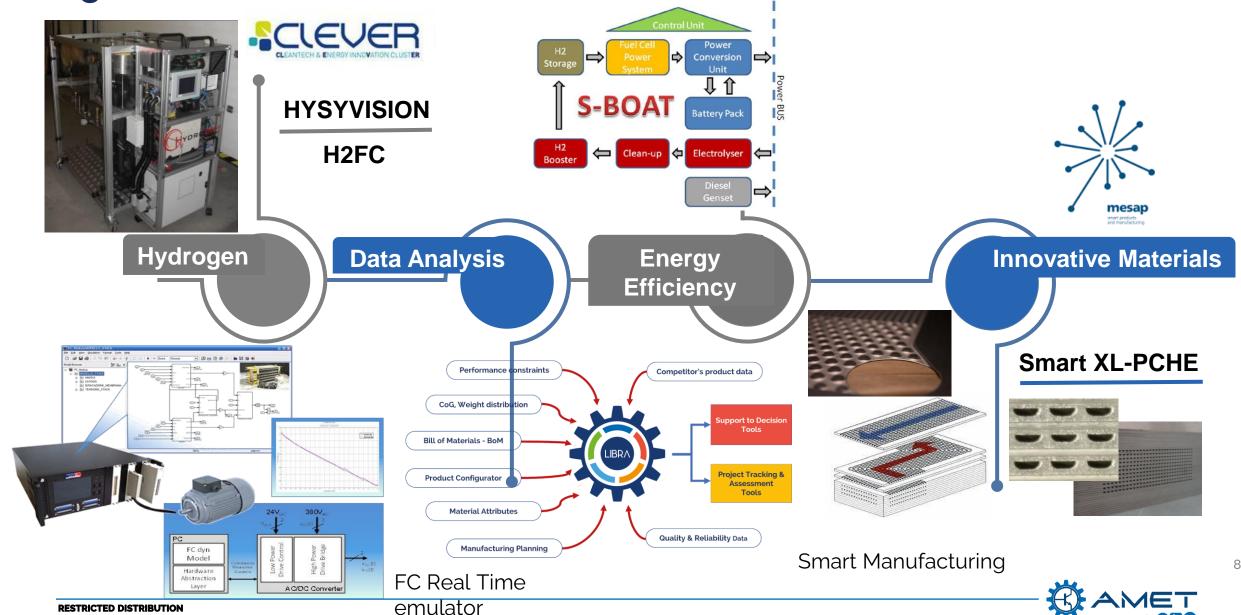






### Funded Research Projects: Regional Innovation Clusters of Piemonte

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# Topics of interest

#### **Simulations**

- ➤ Vehicle Energy Consumption calculation
- > Vehicle emissions calculation
- EM simulation for EMC/EMI

### **Control Design**

- Control logic design for energy management strategy, for FCEV (Fuel Cell Electric Vehicle) and vehicle with Hybrid Energy Storage Systems (HESS)
- > Real Time simulations and control logic
- > Energy efficiency in ADAS: control strategy in car-following scenario

## **Mechatronic Testing Solutions**

- > Test benches design for electric vehicles and related energy storage systems
- > Test benches from HIL to XIL





Thank you for your attention