INSTITUT VEDECOM

R&D institute, future mobilities towards energy transition.

VEDECOM : A SUSTAINABLE MOBILITIES COLLABORATIVE HUB

90 employees

Researchers
Engineers
PhD Students
Technicians

24 R&D projects
Including 9 France2030 and 12 European projects

14 Technological platforms

15 M€
Annual budget

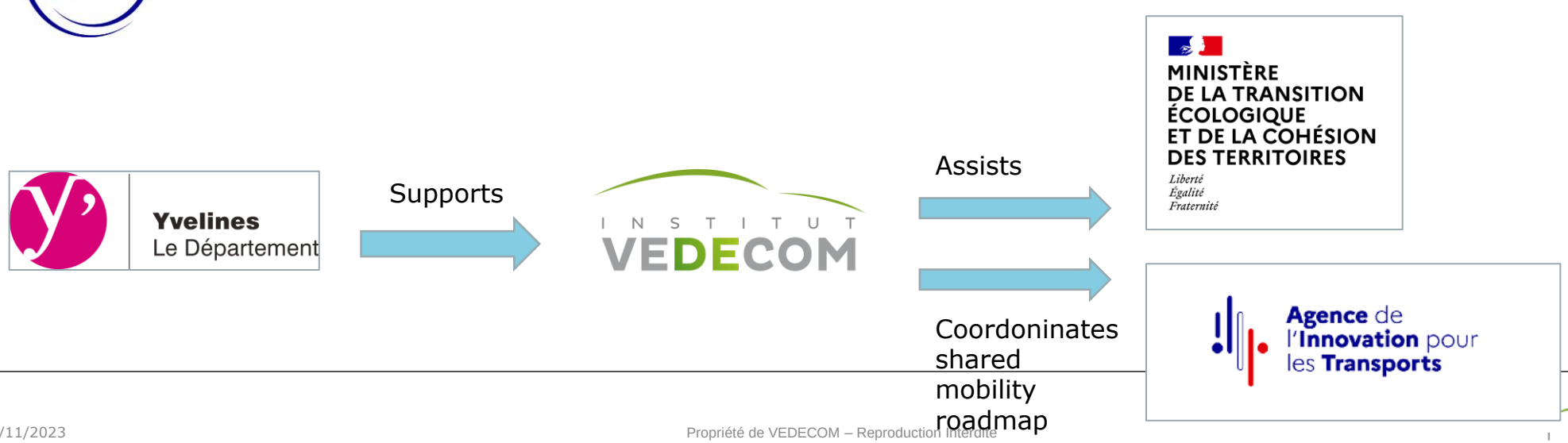
INSTITUT VEDECOM

A PUBLIC PRIVATE RESEARCH HUB

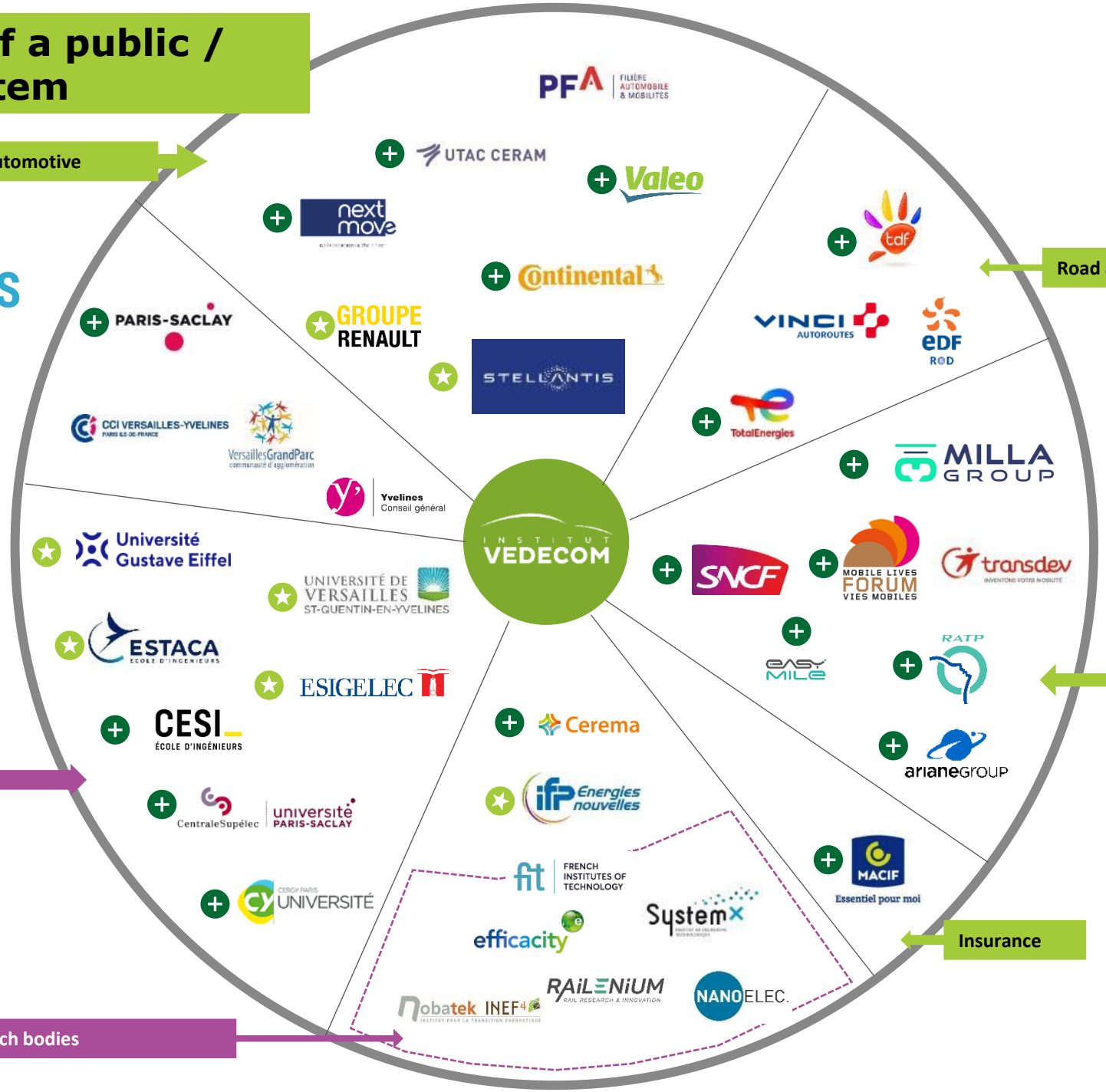
Public private partnership foundation
From Versailles Saint-Quentin-en-Yvelines (UVSQ) – Paris-Saclay University

Labelled **Institute for Energy Transition(ITE)** in 2014
Member of **FIT – French Institutes of Technology** association
which includes 15 institutes : 7 ITE (energy transition) et 8 IRT (technological research)

Set and supported within the **France 2030 framework**
Evaluated by the National Research Agency (ANR)



At the center of a public / private ecosystem



25 members*

- 7 founding members
- Donating or associate members

SUPPORT

ANR

Investir l'avenir

Yvelines Conseil général

îledeFrance

Commission européenne

AN INTERDISCIPLINARY VISION AND STRUCTURE

DOMAINS

ELECTRIFICATION

AUTOMATED AND CONNECTED VEHICLES

NEW SHARED AND ENERGY MOBILITY SOLUTIONS

ACTIVITIES

Training programs

R&D & INNOVATION
Technological developments, collaborative projects and experimentations

B2B

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- New mobilities technico-economic analysis (LCA, CBA, optimization,…)
- New mobilities human factors

- Embedded and remote perception
- Driving assistance system validation (ADAS)
- Vehicle and environment connectivity

- EV charging systems and technologies
- Electrical Storage Systems
- Energy efficiency

Current R&D topics within domains

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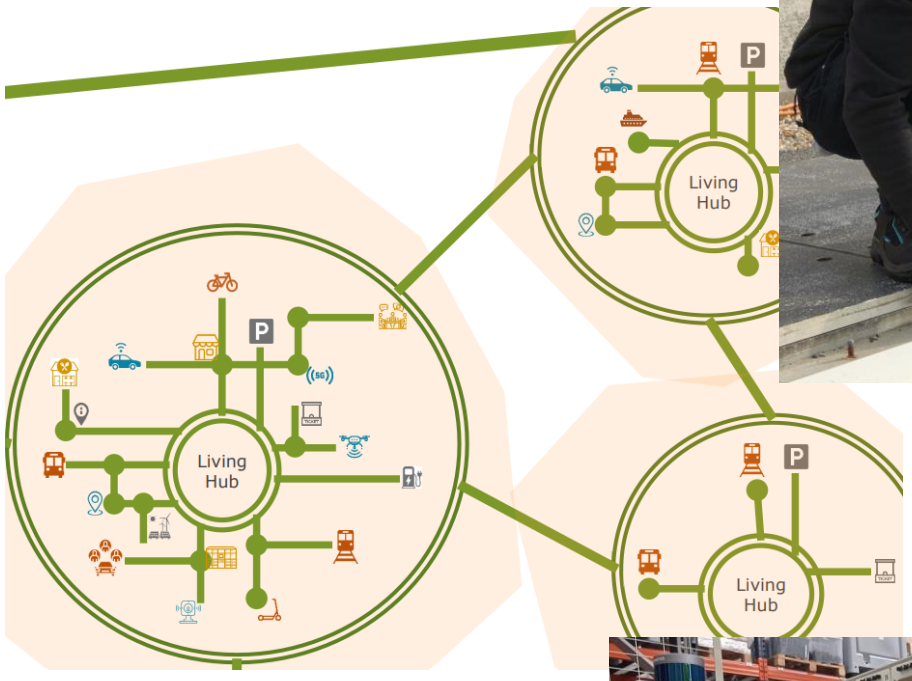
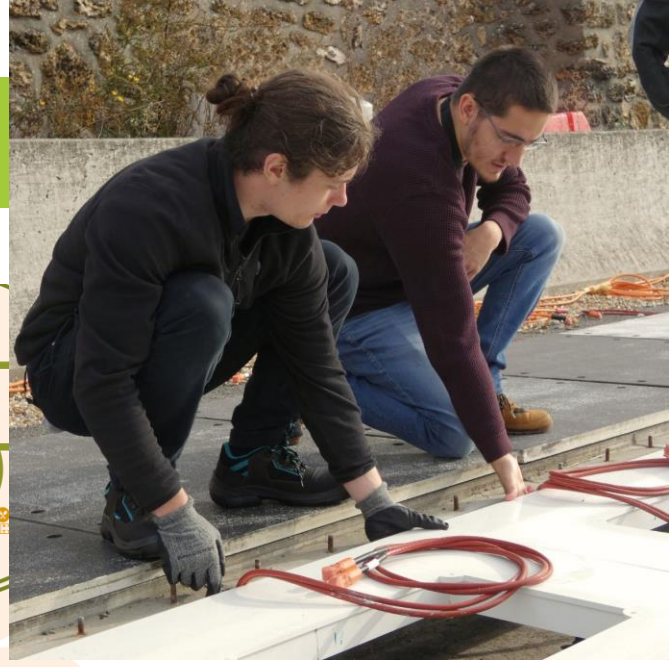
FOCUS ON LOGISTIC ACTIVITIES : OBJECTIVES

Accelerate energy transition through technical enablers and new services implementation and evaluation

- Charging services and technologies
- Integrating logistics in mobility hubs
- Evaluation of automated logistic (delivery bots, automated delivery)



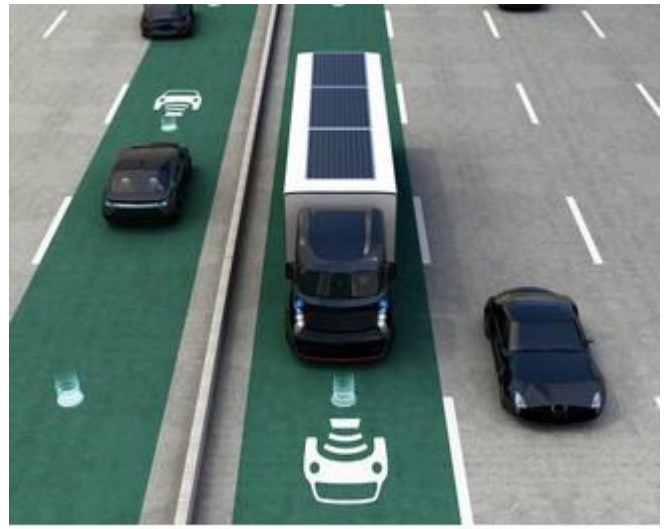


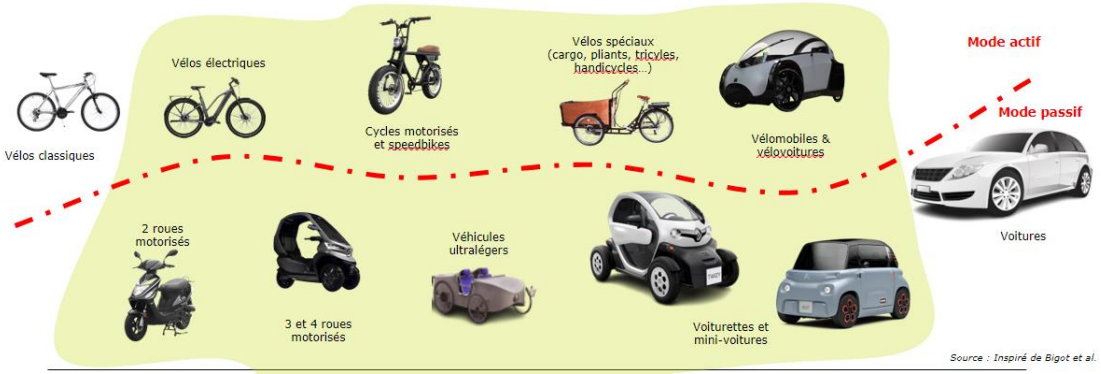
FOCUS ON LOGISTIC ACTIVITIES : PERSPECTIVES

Broadening the scope from passenger cars to other vehicles :

- Implementation, test and deployment of charging solutions
- Megawatt charging : efficiency improvement
- ERS : high power dynamic inductive charging (towards 250kW)

- Micrologistics (intermediate vehicles as cargo bikes): barriers, incentives, evaluation





A SET OF PLATFORMS AND EXPERIMENTAL MEANS FOR APPLIED RESEARCH

Test tracks

Hall A

1500 m2 of workshops and laboratories

mobiLAB

Workshops, labs and offices
7100 m2

- VEDECOM : 5300 m2
- TRANSDEV Autonomous Transport Systems
- Gustave Eiffel University
- Nexter Robotics

A short loop

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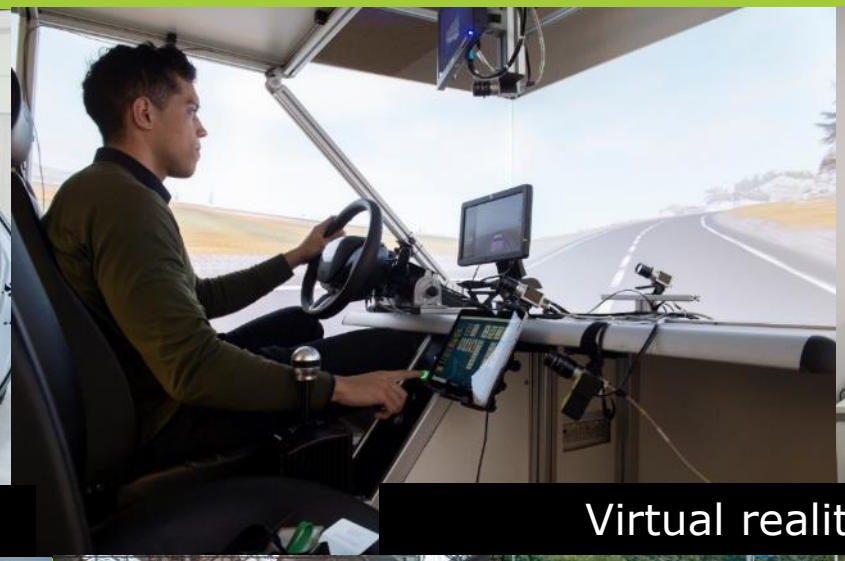
VEDECOM PLATFORMS

Interdisciplinary workshop



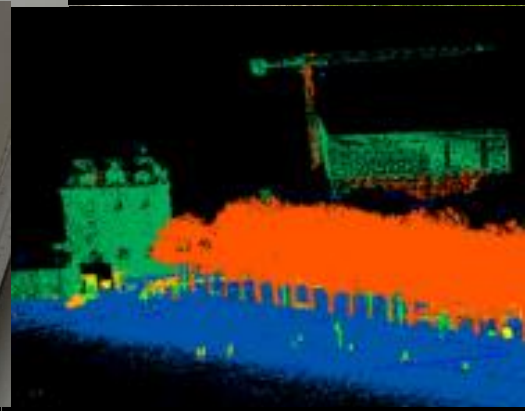
Virtual reality lab

Test track
Urban area & highway

Power electronics lab and reliability

Induction charging tracks

Connectivity lab & Supervision



Digitalized test road

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