



Institute for **E**nergy **T**ransition



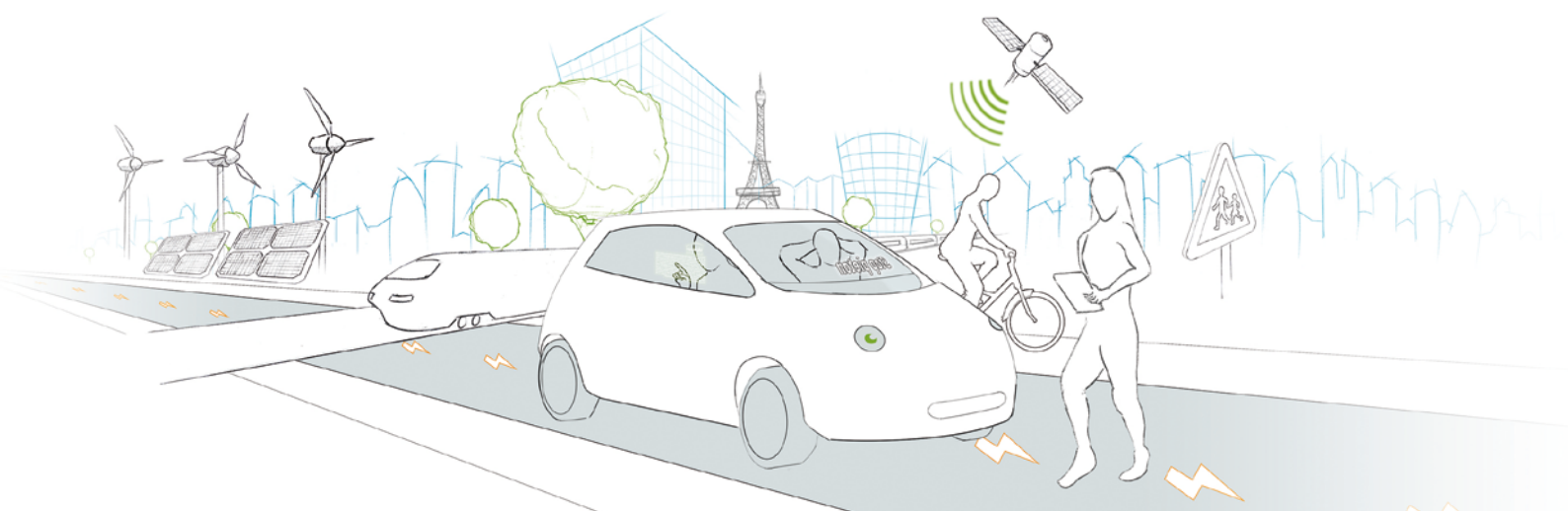
**Vehicle
electrification**



**Driving delegation
and connectivity**



**Shared mobility
and energy**





VEDECOM, a cooperative research hub

Created in February 2014, VEDECOM is an **Institute for Energy Transition** ('ITE'), dedicated to individual, carbon-free and sustainable mobility, established as part of the French 'governmental plan, 'Investment for the future'. It contributes to the 'Autonomous vehicle plan', which was recently incorporated into the Solution for Future Industry Program alongside Eco-mobility; both of which are part 'Nouvelle France Industrielle', the government's plan to invigorate the country's industry.



Supported by the competitive cluster, Mov'eo since 2010 and by its founders*, VEDECOM is a partnership-based foundation that belongs to Université de Versailles Saint-Quentin-en-Yvelines. The Institute's **50 members**, which comprise firms in the automotive and aerospace sectors, mobility ecosystem infrastructure and service operators, academic **research bodies** and Ile-de-France **local authorities**, **work together in an unprecedented partnership**.



VEDECOM responds to the challenges posed by the electrical and autonomous vehicle and mobility in the future

The aim of VEDECOM is to become an operational player in terms of innovation, research and training applied to sustainable modes of transport and mobility, all the while generating business and creating jobs.

VEDECOM aims to become the leading Institute in the standards and use of electrical, autonomous and connected vehicles, bringing about changes to regulations and standards at a national and European level. It aims to become a French technological research institute of global renown within its areas of activity and research by drawing on its multidisciplinary fields of expertise and the undertaking of experiments by its institutional partners.

Ours values : cooperation, innovation and competitiveness



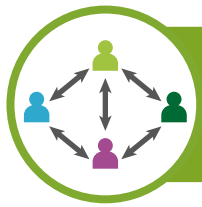
In 2016, VEDECOM welcomed into its ranks the **City on the move Institute (IVM)**, a major player in international action-research on mobilities, and their interaction with **the evolution of lifestyles, territories and territorial governance**.



In 2017, VEDECOM created the commercial subsidiary VEDECOM Tech, reinforcing VEDECOM's link between its research and the market at large:

- **Strengthen** the Institute's physical and intellectual production, transforming it into various commercial services.
- **Consolidates** innovation strategy in a way that is receptive to market demand.

* **Founders** : Cetim, ESIGELEC, ESTACA, IFPEN, IFSTTAR, PSA Groupe, Groupe Renault, Safran, UVSQ, Valeo



3 fields of research 1 training program

Our ITE must become a **center of excellence** whose main purpose is the **development of industry and/or services** through the grouping and strengthening of public and private research teams. The Institute covers the entire innovation process, including demonstration and industrial prototyping.

In order to fulfil our ambition of becoming a **European leader**, we focus our research is focused on the following three areas:



Vehicle Electrification

The aim of this field of research is to significantly reduce the consumption of fossil fuels and the emissions of individual combustion-engine vehicles in the long term this should allow the French car industry, through the use of new technology, to scale up the production of electric and hybrid cars by a factor of one thousand.

In order to meet our target, VEDECOM's research is directed at finding innovative electrical motor structures, power electronics and static and dynamic charging.



Driving Delegation and Connectivity

The aim of this field of research is to introduce major technological breakthroughs in the way vehicles -which are becoming increasingly automated- are used. Another aim is to significantly improve the safety and flow of traffic, by introducing vehicles that foster new types of use (multimodality, automatic parking, etc.).

The challenge is to offer a sustainable mode of transport that is entirely safe, turning time wasted in traffic jams into time that can be used. This requires research on vehicle equipment, software, and connectivity but also on acceptability within society and regulations.



Shared Mobility and Energy

The aim of this field of research is to ameliorate road-sharing, optimise parking space and manage electric (or 'plug-in') vehicle battery charging systems by developing digital mobility services (traffic forecasting, dynamic carpooling, etc.). These services are likely to encourage new uses that are more environmentally-friendly and to have a positive impact on household budgets thanks to the development of multimodal travel and the sharing of vehicles (carsharing, carpooling).

Upstream of these actions, research is being carried out by a 'new usage laboratory' to observe and analyse mobility on the ground.



Formation

As an approved training institution, VEDECOM designs and hosts training modules in order to support the actors of the automotive and mobility sectors in improving their skills and knowledge of innovation. In detail, we offer:

- Expert training: as research advances, we give back
- Support and management of the transition linked with technical innovation and new mobility uses
- Raise public awareness surrounding innovative mobility solutions



Governance

As a foundation, the VEDECOM Institute is governed by a **board of directors** comprised of its founders and donors.

The Board delegates governance to a **Bureau**, which is chaired by Rémi Bastien. He relies on a **Strategic and Scientific Orientation Advisory Committee** (COSS) and three Domain Committees that correspond to the Institute's three fields of research.

Board of Directors

40 ex-officio members +
20 qualified individuals

1 Strategic and Scientific
Orientation Advisory Committee
3 domain committees

Bureau

15 members:
10 founders +
5 members



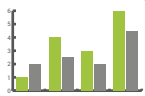
Rémi Bastien,
Chairman of the Board and of the Bureau



Luc Marbach, CEO

Operational department

The Chief Executive Officer and
a management committee



Key Figures

175 Employees
in 2017



110 R&D (90 doctors)
45 PhD Students
20 Staff

100 publications

21 patents

10 supported theses

2 software programs
deposited

by the end of 2016

€

30 million
per year

50 members
and partners

7 000 m² of workshops
and offices dedicated to research

3 fields of research
1 training program



Vehicle
electrification



Driving delegation and
connectivity



Shared mobility
and energy

TRAINING



A new research model to make progress together

The Institute's strength lies in its ability to bring together high-level players from the private and public sector, collaborating to develop new technologies that are responsive to the mobility challenges of the future.



For industrial partners

- Build, with VEDECOM, future mobility scenarios
- Strengthen technological expertise and train employees
- Optimise Research & Development costs
- Make use of test platforms



For academic partners

- Support research on applied technology projects
- Benefit from test sites and equipment
- Involve VEDECOM in French and European projects
- Develop training courses in our three strategic areas



For local authority partners

- Help entrench innovation in sustainable personal mobility
- Boost the appeal of the regions with regards to development
- Benefit from experiments

Founders



Associated donors



Active donors



In collaboration with



Supported by



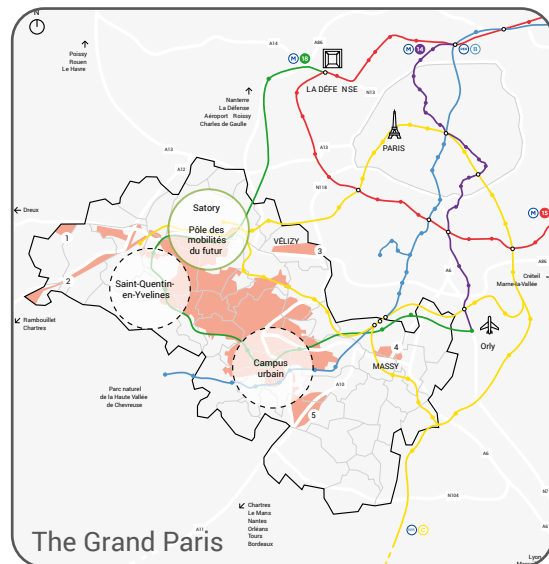


Satory

Location

In 2018, VEDECOM will move to the heart of the mobility innovation cluster, on its new site at Satory-Ouest in Versailles.

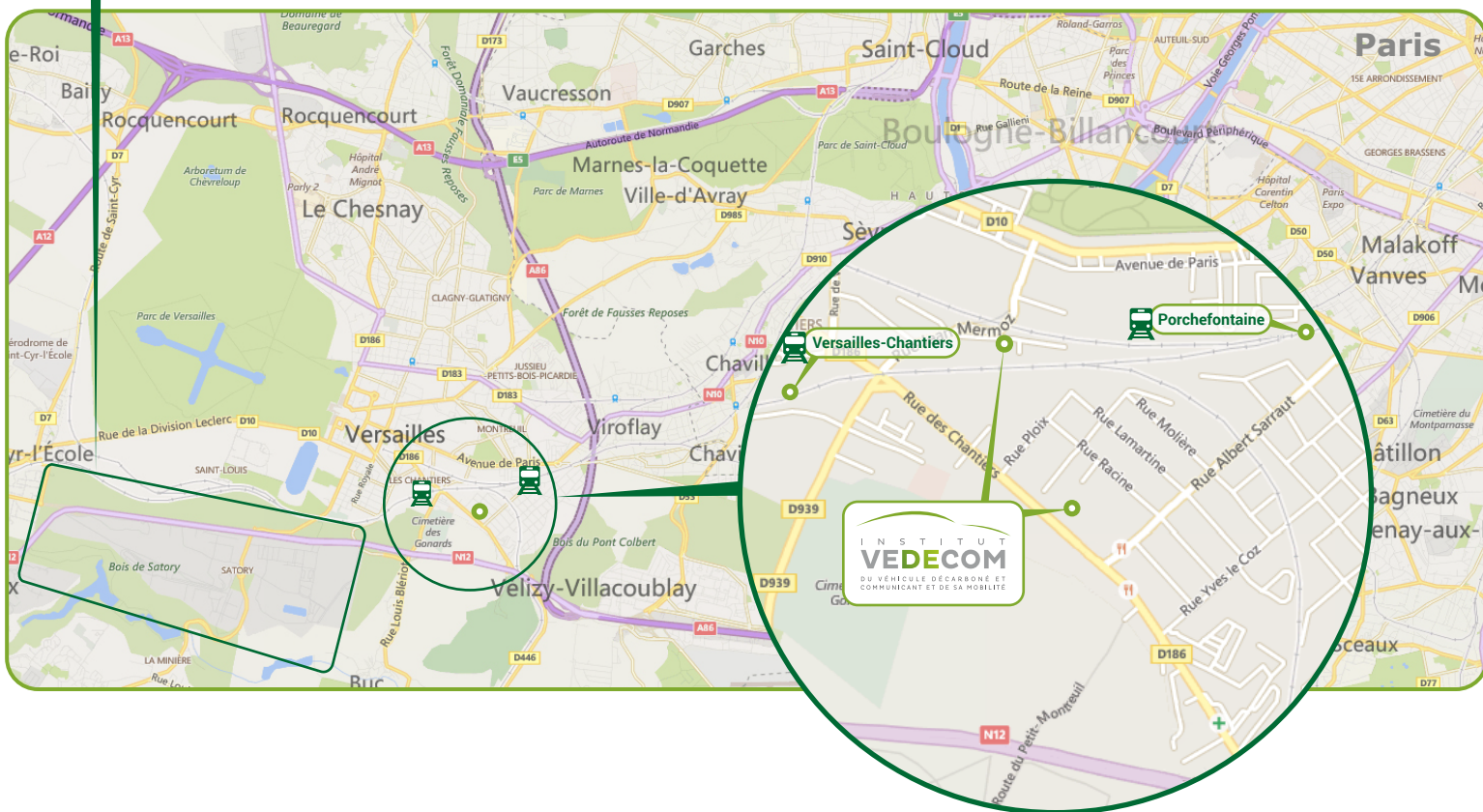
This new site allows for close proximity between the entirety of VEDECOM's partners, fusing research and innovations under the same roof.



The Grand Paris

Currently, VEDECOM maintains:

- two buildings in Versailles, 77 rue des Chantiers and 7 rue Jean Mermoz,
- offices at City on the Move Institute, 10 rue des Halles à Paris 1^{er},
- an Electrification workshop in Satory, Allée des marronniers 78022 Versailles.



INSTITUT
VEDECOM

77, rue des Chantiers
78 000 Versailles - France



Close from stations
Versailles Chantiers (C,N,U)
or Porchefontaine (C)



Phébus B, Sarraut stop



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