



PRESS RELEASE

RATP Group becomes a VEDECOM member to speed up innovation in autonomous mobility and connected roads

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Marie-Claude Dupuis, Director of Strategy, Innovation and Development at RATP Group, and Philippe Watteau, General Manager of the VEDECOM Institute for Energy Transition, announce the signing of a partnership agreement to accelerate RATP's research and innovation in the field of future mobility.

This partnership is a result of the agreement signed last December certifying RATP's membership in VEDECOM. Both partners will work together on research projects, primarily in the fields of autonomous vehicles, connected and cooperative roads and new mobility services.

The first results will be part of RATP group's self-driving vehicles programme to offer new services that complement the existing range of mobility services. RATP group has already held five experiments in France and abroad with nearly 100,000 commuters.

Toward self-driving public transport systems

These new transport systems will be implemented to fit three lines of research:

- First, to test and optimise these new vehicles' **driving intelligence** with both the on-board equipment and the equipment installed in the infrastructure as part of ongoing experiments.
- Then, to approve a **multi-manufacturer system of supervision and command inspection** of fleets of self-driving vehicles. For this, the partners will pool their expertise. RATP will bring its know-how in security and safety in operating multi-modal transport networks. The VEDECOM institute will bring its experience gained from its experiments in on-demand self-driving vehicles based on Zoe and Twizy.

- Finally, RATP group will expand its collaboration to other **large-scale projects of autonomous vehicle experiments**.

Big data and artificial intelligence in service of operational safety

This partnership will also be an occasion to reflect on the use of data in service of these new vehicles' operational safety, in particular in identifying risky situations. This study will combine VEDECOM's expertise acquired in the MOOVE project¹ with RATP's expertise in automated subway lines.

In the words of **Marie-Claude Dupuis, Director of Strategy, Innovation and Development at RATP Group**: "Autonomous vehicles are a priority field of innovation for RATP group. Working with VEDECOM will allow us to develop new mobility services faster to propose a global, connected, sustainable, door-to-door transport offer."

Philippe Watteau, General Manager of the VEDECOM Institute for Energy Transition, said: *"Integrating RATP group into our research programmes means taking part in the path of innovation of a group that is active internationally. With RATP group, we share the desire to create a French reference in putting autonomous commuter transport systems on the road."*

¹ Over three years in the MOOVE project, VEDECOM built a database using a fleet of vehicles with instruments that drove over 900,000 km throughout Europe. A series of risky situations has been identified, qualified and processed to ensure that future autonomous vehicles follow a safe trajectory. These works were carried out using artificial intelligence, learning, and neuronal network methods.

About RATP group

With 16 million journeys each day worldwide, RATP group is one of the world leaders in urban transport. Present in 14 countries on four continents through its subsidiary RATP DEV, the group operates eight modes of transport every day (subway, urban and intercity buses, tramway, rail, sightseeing, cable, ferries, and on-demand transport). It is also present throughout the chain of new mobilities in partnership with four other modes (electric scooters, carsharing, carpooling, and autonomous shuttles).

A renowned expert in both infrastructure management and engineering, the group offers a wide range of services through its subsidiaries in urban real-estate management and engineering, commercial surface operations, fibre optics, bespoke commuter information and innovative ticketing solutions. In Ile-de-France, RATP has operated one of the densest multimodal networks in the world for more than 70 years.

The RATP group's 61,000 employees design, implement and operate daily mobility solutions and innovative services for a more human, sustainable city.

About VEDECOM

VEDECOM is an institute for energy transition (ITE) founded on unique cooperation between firms in the automotive and aviation sectors, mobility ecosystem infrastructure and service operators, academic research bodies and Ile-de-France local authorities. The role of VEDECOM is to forge closer ties between academia and industry. The institute helps them to achieve a high standard of innovation in the area of mobility and, in particular, in electric vehicles, autonomous and connected vehicles and shared energy and mobility infrastructure and services. VEDECOM is a part of the French government's PIA future investment plan. Its founding members are Cetim, ESIGEELEC, ESTACA, IFPEN, IFSTTAR, PSA Group, Renault Group, Safran, UVSQ and Valeo.

Key figures in 2019 : over 50 members, 3 research areas and 1 training program, 200 employees, 14 R&D projects, 12 European projects, over 300 publications, 37 patents, 24 copyrighted projects, 70 thesis, 1 business subsidiary, VEDECOM Tech, created in February 2017.

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