

# SAM PROJECT USE CASES AND SERVICES TESTED

SIP Adus – November 2019



# A common approach for individual and shared mobility stakeholders



# A National initiative towards deployment of CCAM

## Strategic guidelines for public action



To build the regulatory framework allowing CCAM on French roads from 2022

### Topics addressed

- Regulatory framework
- Safety validation
- Connectivity, data exchange, cartography
- Experimentations and territorial adaptation
- Human and society aspects

## 1. Strategic plan for Automotive 2018-2022



To create the ecosystem for large-scale experimentation of automated vehicles and mobility

## 2. « France Véhicule Autonome » programme

- Usages & experimentations
- Technical regulation
- Information/Training
- Validation
- Technology
- Law enforcement
- Safety and security
- Etc.

## 3. Consortium SAM



# 19 partners from industry and research sectors



... in a very active international environment



自動走行システム  
SIP-adus Innovation of Automated Driving  
for Universal Services



# SAM : Experiments, assessment, and safety demonstration

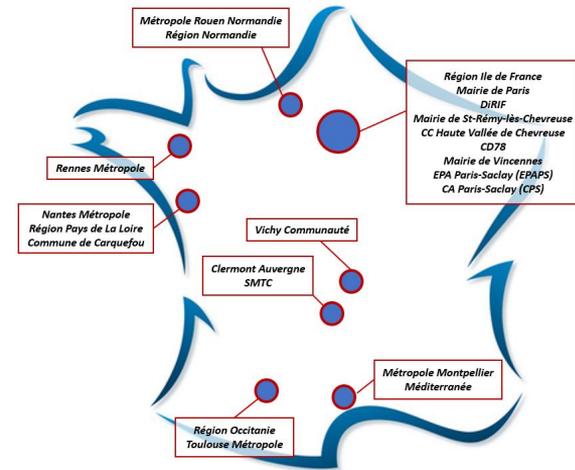
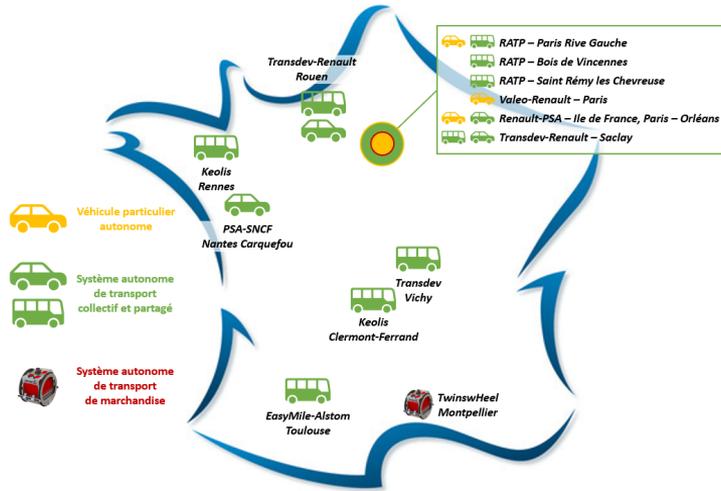
- 100 vehicles
- 500 000 users



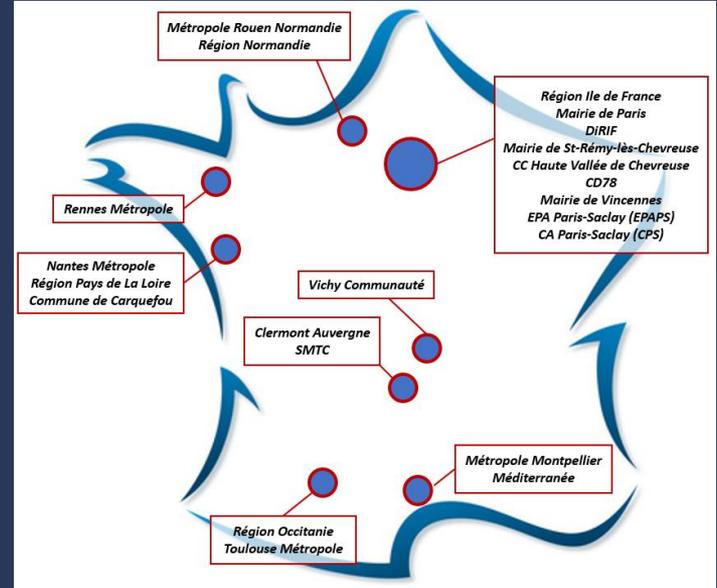
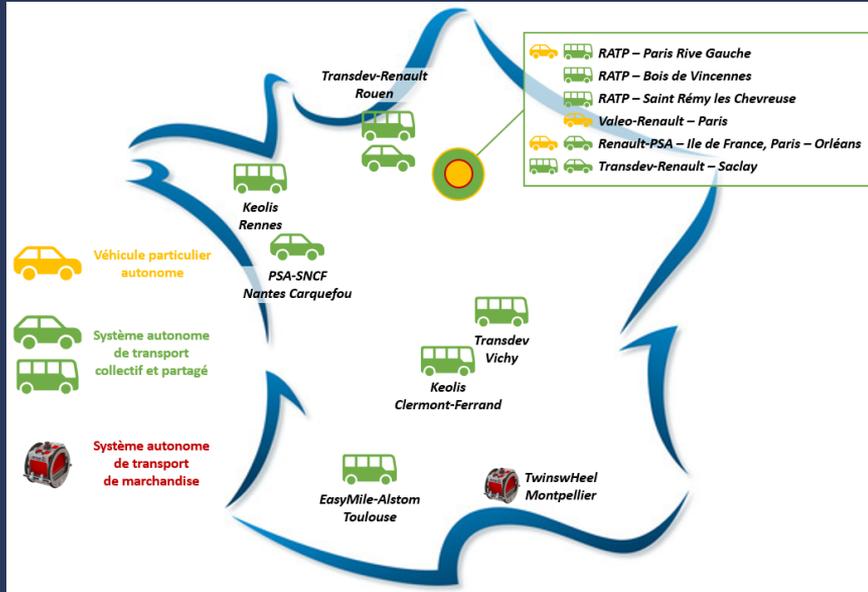
# Key elements of the project

- Project started on 20/06/19
- Various use cases

- 13 experiments
- National funding of : 35 M€



# Focus on the SAM use cases



# Methodological challenges

**Highway  
Chauffeur**



**Valet  
parking**



**Automated  
taxi**



**PT service**



**Urban  
Logistics**



Common Service Description

Common Use case and scenario description

Common Data Framework

Common assessment methodology



# SAM assessment areas

## Performance Evaluation



Technical performance

Service efficiency (users, traffic...)

## Acceptance



Vehicle / service users

Other road users

## Road Safety, users behaviour



Vehicle / service users

Other road users

Critical situations & expected impact on road safety

## Environment



Life cycle analysis

Emissions & air quality

Land use & urban planning

## Socio- Economic Impacts & upscaling



Transport demand

Business models

Economic impacts at local level (job creation, land development...)

Land use and urban planning

Local authorities working group : lessons learned at city level and framework for local implementation

Methodology for safety demonstration



# SAM contribution to the EVRA programme

- Methodology for experimental implementation
- Common methodology for service/use case/scenario description
- Common Data framework and KPI for assessment
- Upscaling : simulation of impacts at higher scale of deployment
- Recommendations for public policies and local implementation
- Methodology for safety demonstration : new relevant scenarios and critical situations for simulation environment

