

The AVENUE project consortium brings together 16 partners: academic institutions, public transport operators, autonomous vehicle manufacturers, major technology R&D companies and specialized start-ups.



UNIVERSITÉ DE GENÈVE  
University of Geneva (Coordinator)



NAVYA SAS



CentraleSupélec  
CentraleSupélec



HS PF  
Hochschule Pforzheim



σtpg  
Transport Publics Genevois



bestmile  
Bestmile SA



SIEMENS  
Ingenuity for Life  
Siemens AG



REPUBLIQUE ET CANTON DE GENÈVE  
POST-TÉNÉRAS LUX  
République et Canton de Genève



ceesar  
Centre Européen d'Etudes de Sécurité et d'Analyse des Risques  
Centre Européen d'Etudes de Sécurité et d'Analyse des Risques



virtual vehicle  
Kompetenzzentrum - Das virtuelle Fahrzeug Forschungsgesellschaft mbH



AVL  
AVL List GmbH



mobile thinking  
The power of many  
MobileThinking Sarl



CERTH  
CENTRE FOR RESEARCH & TECHNOLOGY HELLAS  
Centre for Research and Technology Hellas



AUTONOMOUS MOBILITY  
Autonomous Mobility A/S



Sales-Lentz  
Sales-Lentz SA



KEOLIS LYON  
Keolis Lyon



# AVENUE



## Autonomous Vehicles to Evolve to a New Urban Experience

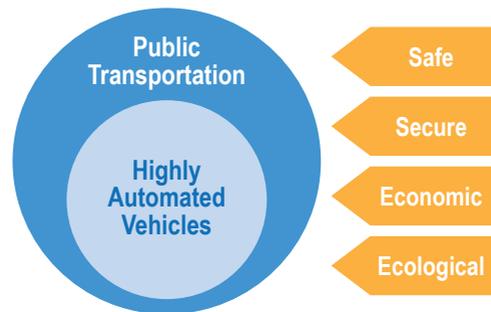
[www.h2020-avenue.eu](http://www.h2020-avenue.eu)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 769033.

### Context and objectives of the project

- ▶ European budget € 16 million over 48 months
- ▶ 16 European partners in 7 European countries:
  - Objectives: To demonstrate that autonomous vehicles will be the solution for public transport of the future.
  - Our ambition: to reach level 5!
    - Create a new concept of "disruptive" public transport.
    - Demonstrate that Europe can become a world leader in this field.



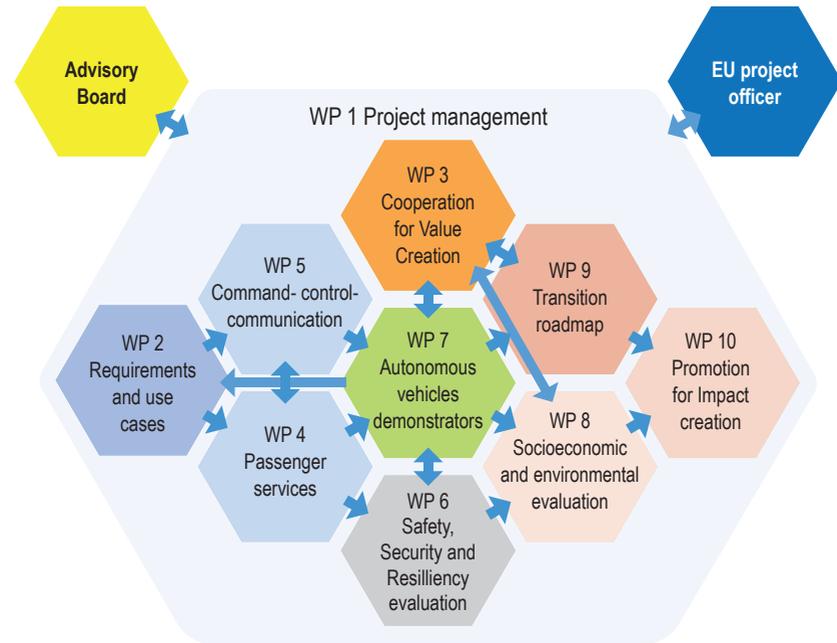
### AVENUE project's missions

Deploy and validate a fleet of autonomous minibuses integrated into the existing public transport services of 4 European cities:

**Lyon, Geneva, Luxembourg and Copenhagen** (in a first step).



- ▶ In close cooperation with public transport operators
- ▶ Provide high-performance transportation services for users
- ▶ In selected strategic areas (where existing services are weak or unsustainable) and
- ▶ In complex urban situations (automated and non-automated vehicles, pedestrians, cyclists, powered two-wheelers, etc.)



### Avenue project key tasks

- ▶ Provide personalized door-to-door services, taking into account the particular needs of passengers, including passengers with reduced mobility, the elderly, specific needs related to gender and age, etc.
- ▶ With the use of cloud computing technologies and services, passengers will define their transportation needs.
- ▶ Depending on the availability of the vehicles, the load of the vehicle and other needs (possibly the price), the route of the vehicle will be changed to take the passenger to the point requested and drop it at its destination.
- ▶ In coordination with the use of other existing means of transport to offer the passenger the optimal means for their transport needs.