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bestmile
optimizing mobility

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Ingenuity for life

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virtual vehicle

AVL

mobile_thinking
The power of many

CERTH
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AUTONOMOUS MOBILITY

Sales-Lentz
moving people

KEOLIS
LYON

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 769033

AVENUE

Autonomous Vehicles for Environmental Friendly Mobility

www.h2020-avenue.eu

AVENUE is a 4 years' project with 16 European partners and financed by the EU, with mission to demonstrate that autonomous vehicles will be a key element of the solution for the tomorrow's public transportation services. The project will not only assess the road behaviour and safety of the autonomous vehicles in public transportation and complex road situations, but will also demonstrate the economic, environmental and social advantages of autonomous vehicles for both the exploiting companies and the users, opening the way for a full scale adoption and integration of autonomous vehicles in public transportation services. Innovative services like door-to-door and dynamic routing of vehicles in open mixed traffic urban environment, will tested in large scale trials with fleets of vehicles, in four cities representing the most common models in public transport in Europe, in terms of business organization, social targets, and city and road layout.

DEMONSTRATION SITES

GENEVA

Door-to-door on demand services in a large hospital area, in mixed traffic roads, including services for with special needs' passengers, and integrated to public transportation, at the periphery of the site.

LYON

On-demand services, (including also night services), in an eco-friendly economic activity district, in open roads in the middle of complex traffic, connected to existing public transportation services.

COPENHAGEN

multimodal transportation in a waterfront mixed activity residential and commercial district, integrated with existing public transportation services.

LUXEMBOURG

AV services in a residential area, not served today, linked to the existing public transportation services at the periphery of the area.

ENVIROMENTAL IMPACT

Adoption of Autonomous Vehicles could help reduce CO2 emissions by as much as 300 million tons years, by:

- Improved traffic management reducing congestion, journey times and noice
- Reducing traffic volumes and required parking areas, by promoting sharing of vehicles and automated pick up services
- Optimizing road behaviour with efficient acceleration, braking and speed variation, which help increase fuel efficiency
- Offering personalised public transportation services and contributing in the increase of the number of persons renouncing the use of private cars
- Changing the behaviour of Citizens in terms of transportation needs, making it easier to combine multimodal mobility in an optimized public transportation offer