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AVENUE

Autonomous
Vehicles to
Evolve to a
New Urban
Experience

*Geneva-Xa line
Demonstration*

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Operated by the *TPG*, The *XA line* in Meyrin, included 4 stops and connected two hubs during rush hours. From July 2018, the population used these services on a 2,1km route, running on an

open road limited to 30kmh. Minibuses operated in real world condition, with full traffic and no restriction at all. Regular costumers were carried successfully in this very selective course; a real challenge, which was succeeded by the team, proof of the effectiveness of the system's operation. A second minibus was integrated, which served as a replacement during maintenance operations, making the service particularly stable.

Early 2021, the exploitation has to stop due to the installation of many speed-bumps. The *TPG* teams are now focusing on the development of the *Belle-idée* site, at the other end of Geneva.



Real life situation!
More than 2'000 customers served



102.5 days of service
2'113 km travelled
Delay rate: 1-2%
Cancel rate: 1-2%

The experiment allowed a significant improvement of the public transport services, as it has taken full account of the connecting timetables of in and outgoing trains/trams and provided a great service to everyone.

The minibuses experienced minor technical issues, linked to 4G shadow areas and were also obstructed by trees or parked cars, but over time this happens less and less frequently. The team concluded that current roads are not yet designed for automated vehicles and needs a redesign. It's also necessary to improve the drivability and object identification in order to enhance the perceived security, to allow minibuses to operate faster, leading to an improved comfort and fluidity.

Throughout the experiment the vehicle abilities improved greatly, the vehicle experimented less emergency stops, and the driving became much smoother.

