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AVENUE

Autonomous
Vehicles to
Evolve to a
New Urban
Experience

**Geneva
Belle-idée
Demonstration**

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Belle-Idée demonstration

Operation phase and Results

Based on the extensive experience and knowledge gained from all AVENUE deployment sites, a new project was set up in spring 2020 at the Belle-Idée hospital area in Geneva, where the full power of automated minibuses, with *on-demand, door-to-door* services, was deployed. The deployment by the Geneva Public Transportation operator (TPG), at the Belle-Idée site is the most advanced Automated minibus public transportation deployment, operating a regular on-demand service in open, mixed traffic roads.



Three Navya Autonom® minibuses are deployed, operating under mission management mode, that is receiving directly the destination via the fleet orchestration service (by IOKI), without safety-driver intervention. Passengers use the provided mobile app (by MobileThinking) to book a ride, which is transmitted to the Fleet Orchestration Platform which chooses the optimal vehicle to fulfill the request. The service automation aims to be end-to-end human intervention-free, from depot door opening at the start of the service to the end, including induction based recharging, and of course itinerary organisation. The service operates under almost every weather condition and is meant for day and night operation.

During this experiment, the vehicles faced the regular traffic on a daily basis for weeks without generating a single incident. The behaviour of the vehicle was rough and unsteady at first but day after day it improved greatly and the journeys are now particularly smooth. Only poorly parked cars and vegetation are still causing some issues. We reached almost 100% automated operation during the initial testing and validation and during regular operation.

*One of the most promising of the AVENUE projects!
It's a World first for on-demand/door-to-door on open road conditions !*

The booking application is now fully functional and allows an on-demand access throughout the whole area.

The app and the on-demand/door-to-door services are now being daily tested in order to prevent any malfunction or bug.

The Belle-Idée site set-up:

- 38 hectares
- 9Km of routes
- 3'000 users
- 30 buildings
- 75 virtual stops
- ≈ 100% autonomy rate
- Operating hours : 7:30–19:30 (with extra shuttle during the 7:30–9:30 and 15:30–18:30 pick hours)

