

SHOW Project

Shared Automation Operating Models for Worldwide Adaptation



17 March 2022

SHOW in a nutshell

Deployment of shared, connected and automated vehicles to advance sustainable urban mobility



70 partners from 13 EU-countries



January 2020 – December 2023



Real-life urban demo in 20 cities



H2020 R&I programme GA No 875530



30 M€ funding



<https://show-project.eu/>





Real-life demonstrations started at several sites



Demo Sites

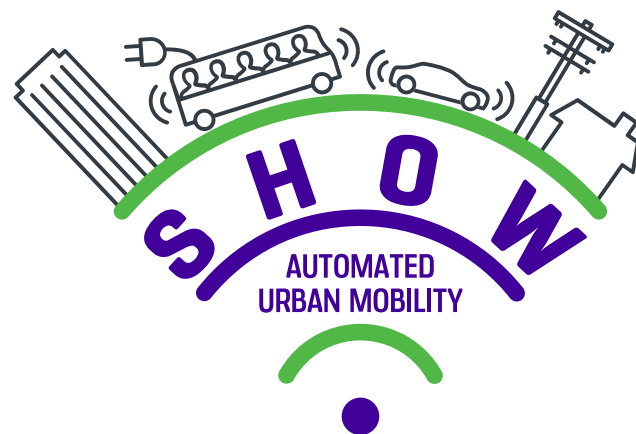


70

Automated Vehicles

Robotaxis, buses,
and shuttles
for persons & goods



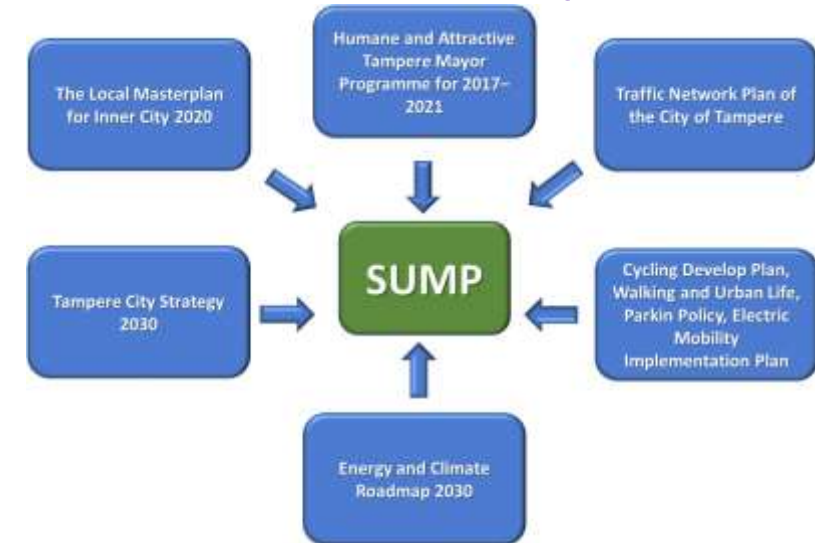


Tampere Pilot in Hervanta Suburb



Tampere scope

- In Tampere, especially the issues related feeder & first/last km services and seamless integrated public transport system have been essential and in the focus.
- The City aims to develop sustainable and integrated mobility services and a transport system that will attract private car users voluntarily to start using more environmentally friendly public transport services, city bikes, e-scooters, and walking.
- Tampere SHOW pilot is based on and supports the strategic objectives and sustainability goals of the City.
- One of the challenges in Tampere is the weather:
 - In winter time the roads and streets are icy and slippery.
 - Lane markings are covered with snow which may also be drifting causing poor visibility.
 - The temperatures may be as low as -30 degrees Celsius.



Hervanta pilot



- Pilot offers mobility solution for local inhabitants with cooperative connected and automated vehicles.
- Since January 2022 the service has been running on a circular route of some 3.5 km on public streets with 9 stops.
- The feeder services to tram operate at some 10 minute intervals between 8:30 – 15:30 on weekdays.
- The vehicles can drive autonomously, the safety drivers take control only if needed.
- Test runs with selected target users started in December 2021 and the actual pilot was launched in January 2022.
- First piloting with two Toyota Proace vehicles to last to mid-March.
- Additionally, one Auvetch Iseauto electric shuttle bus by VTT will be used in piloting in the spring/summer 2022.
- Three more electric shuttle buses will be used under supervision of remote control centre summer/autumn 2022 and to targeted to last until 2023.
- So far the pilot has had some 1670 passengers.



Media Event in Hervanta 11th January 2022



It was -18 Degrees Celcius



Feedback from test users



- Feedback from the first test runs from a NysseLab (local test group set up by Tampere City Transport) and from Accessibility Working Group (AWG) were received in early January was mainly very positive.
- The NysseLab test users (mostly private car users) gave the grade of 84,3/100 for the service.
- The grades from the AWG test users were lower - users liked the service itself very much, but the vehicles were not (yet) accessible enough.
- The main messages were from AWG:
 - Easy access, low floors and ramps are needed.
 - Proper lighting and interior with light colors are essential for the visually impaired users.
 - Vocal information for the visually impaired users is important.
 - For hearing impaired people good signs are needed inside the vehicles.
 - Enough space for wheelchair and walking aids, etc. is important.
 - It is also important that wheelchair users could see out from the bus windows and therefore big windows are also needed.
 - Smoothness of driving is essential (no fast movements or sudden braking) for people with impaired mobility.
 - Vehicles don't have to be fancy & luxurious, but practical & easy to use.
 - Service as such is very welcome and should be deployed all over Tampere.



Please answer



tuni.fi/robottibussikysely

Please use the QR-code or the link above.

Additionally, please answer to questions in the link:

<https://www.netigate.se/ra/s.aspx?s=984577X309034151X81302&l=152930>

Thanks!



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<https://www.youtube.com/watch?v=RwL2wBHvGM4> (video with text)

SHOW
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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101019150