

Tampere - Finland

Autonomous e-shuttles with advanced remote control centre and automated charging



Code: TA-UC01+ TA-UC02

Brief: Tampere moves the safety operator from inside autonomous vehicles to a remote center, where operators monitor multiple AI-driven vehicles, boosting efficiency and lowering costs.



Key Urban Challenges Addressed:

- Car dependency in underserved areas
- High labour costs for human drivers

Goals & Anticipated Benefits:

- Increase public transport and tram use in newly served areas
- Ensure pilot system safety
- Assess cost-effectiveness of automated solutions
- Validate autonomous charging and remote operations

Ownership:

- **City of Tampere:** manages infrastructure (in case of bus stop or curb changes)
- **Remoted:** is responsible for remote operation and charging solutions development
- **Tampere University:** is responsible for organising and delivering the co-design, survey and training activities.

Infrastructure:

- Charging requires grid access; remote operations need stable connectivity.
- Minor street changes (e.g. bus stops, parking) may be needed once routes are set.
- Four vehicles (two per use case) will be provided by Remoted, with chargers and vehicles equipped with sensors to collect pilot data.



Location:

Most likely Hervanta, Tampere, chosen for its size and diverse user demand. First pilot will be based there to share charging and vehicle depot resources.

Timeline:



TAMPERE

REMOTED
A REVOLUTION IN URBAN MOBILITY



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the European Union