



HSL
HRT

The best journeys
are made together

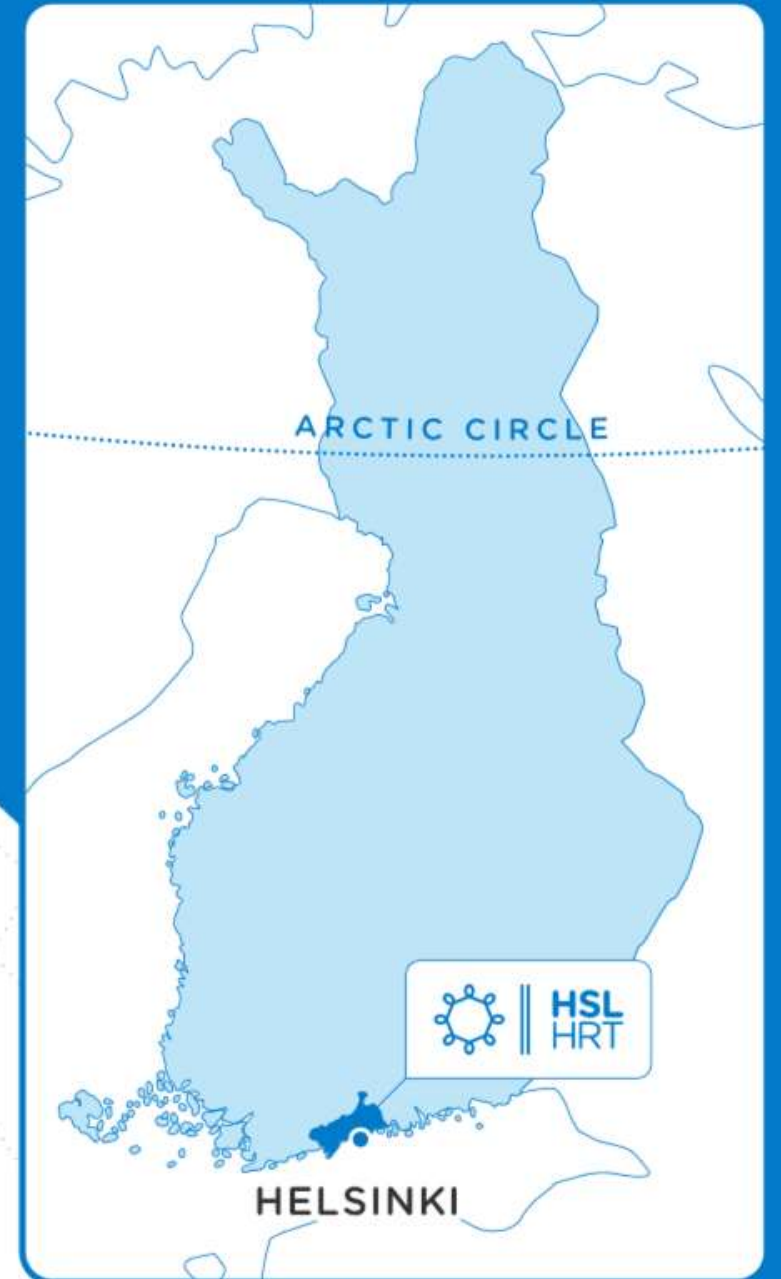
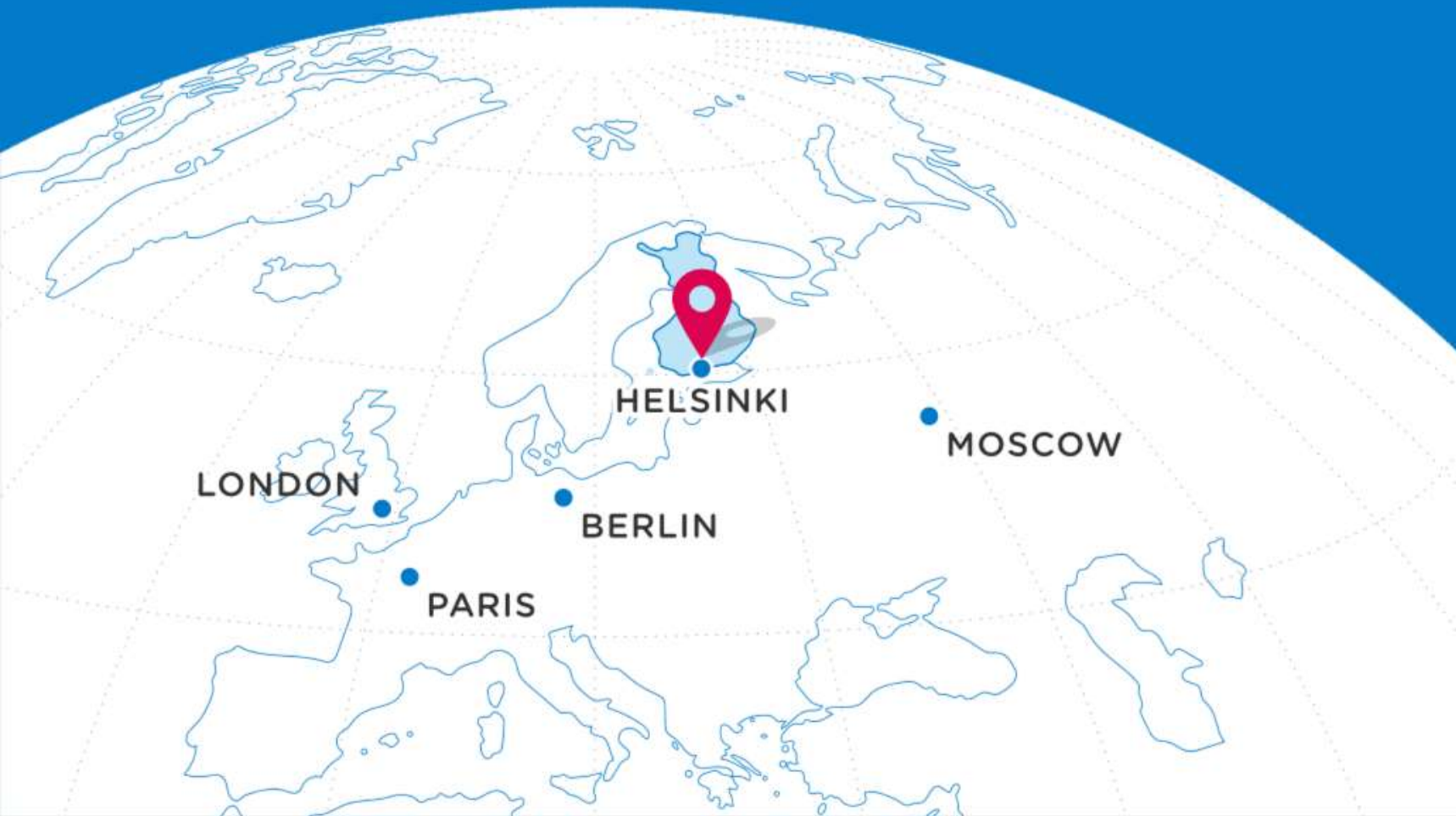
Helsinki Region Transport

Electric Buses in Helsinki

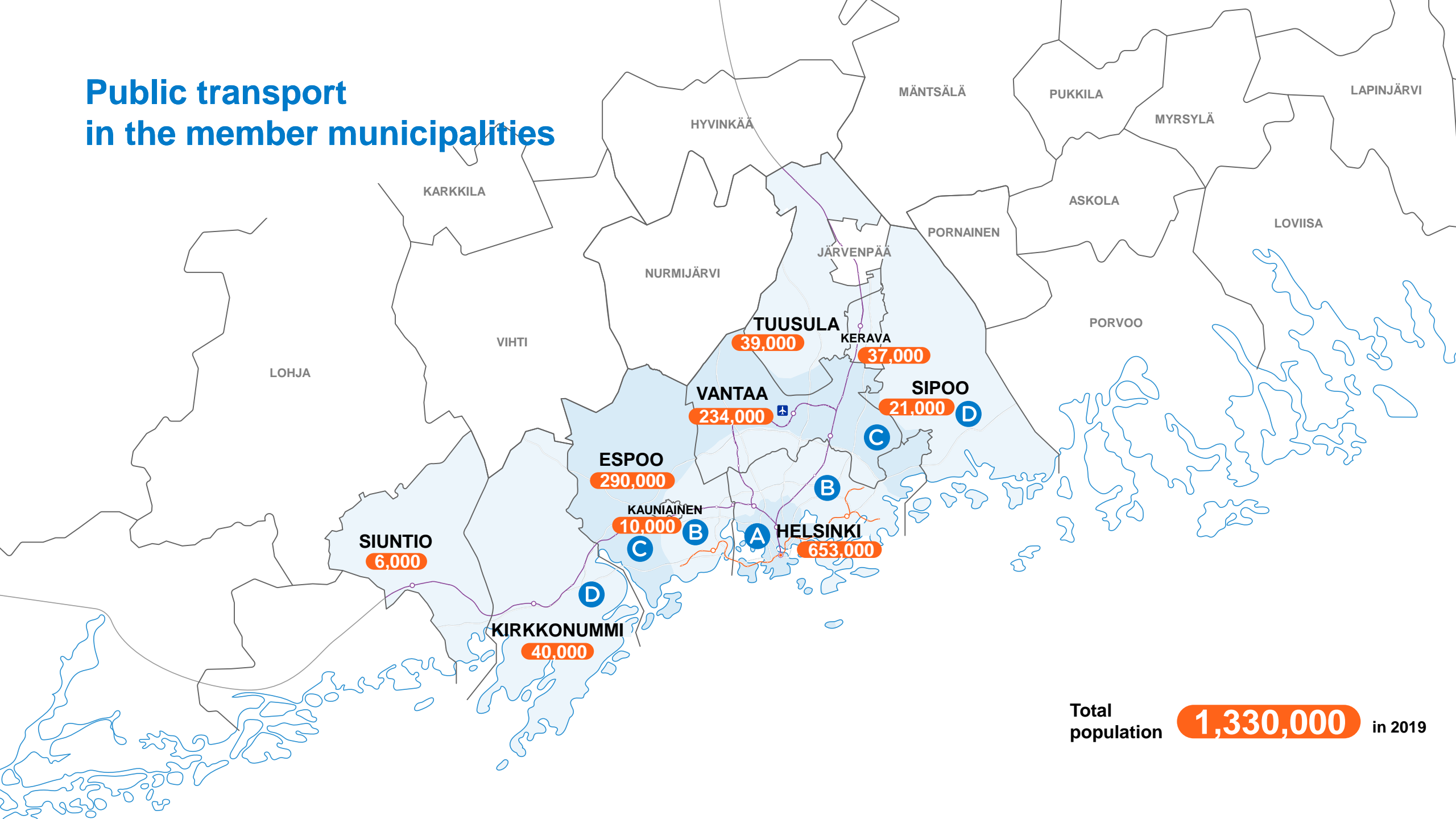
Towards zero emission fleet

Ville Uusi-Rauva, project manager

HSL on the world map



Public transport in the member municipalities



Total population **1,330,000** in 2019

Modes of transport



13 railway lines



2 ferry routes



11 tram routes



287 bus routes



2 metro lines



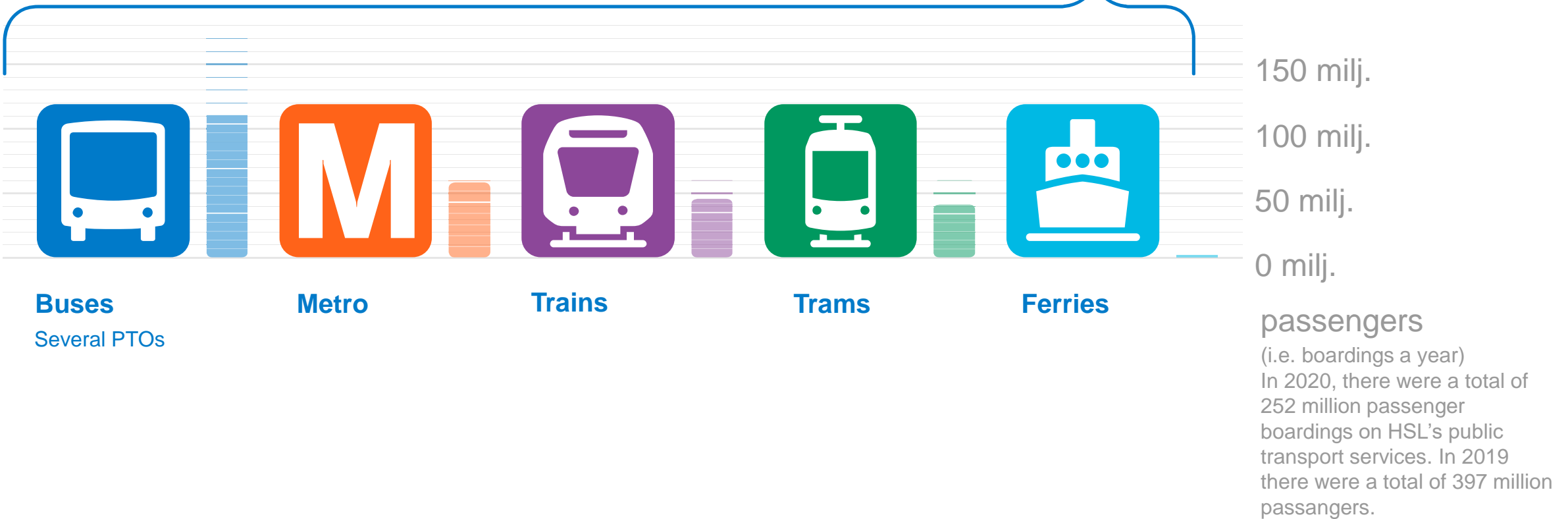
450 city bike stations



Operating model 2020



HSL plans public transport services and procures the services from its cooperation partners.



ELENA / HOCS



- The electrification of public transport in the Helsinki region is supported by the Helsinki Open Charging System (HOCS) project, which is co-funded by the ELENA Facility, managed by EIB and financed by the European Commission through the Horizon 2020 Programme.
- Project schedule: 1/2020 – 6/2024
- Project supports electric traffic roll-out in the HSL region by providing information to support decision making

Decarbonization goals



2025: -90% (compared to 2010)



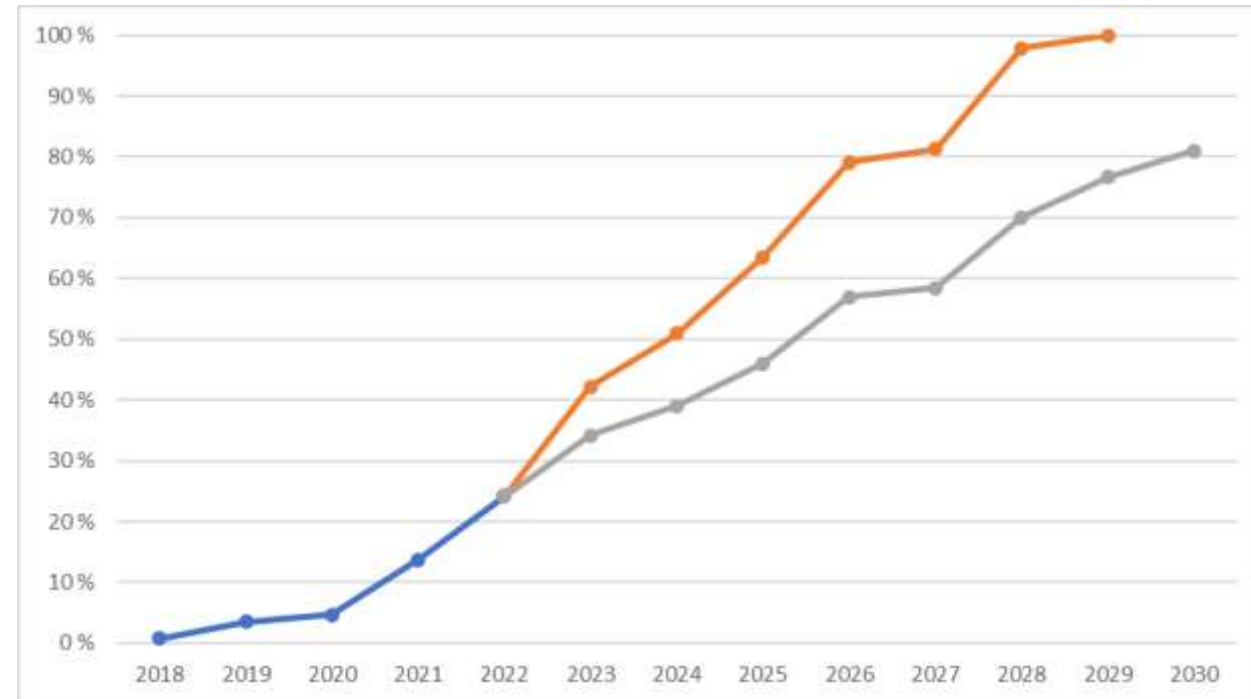
2030: fossil free



2035: zero emission

Fleet size: ~1300 buses

eBus fleet declining/accelerating development



Economy



- Prices of the operating services have gone down approximately 5%-15% with eBuses
 - + CAPEX < - OPEX
- eBuses have been offered, even there has been no requirement for eBuses

Charging policy

- Charging mostly on depots
- Opportunity charging (panto-up) will be offered as an option by HSL
 - Daily average mileage over 300 km
 - Articulated buses

Operator chooses the charging strategy and the need for opportunity charging.



Pros and cons



- Reliable operation
- Lower TCO
- Zero emission
- Customer satisfaction



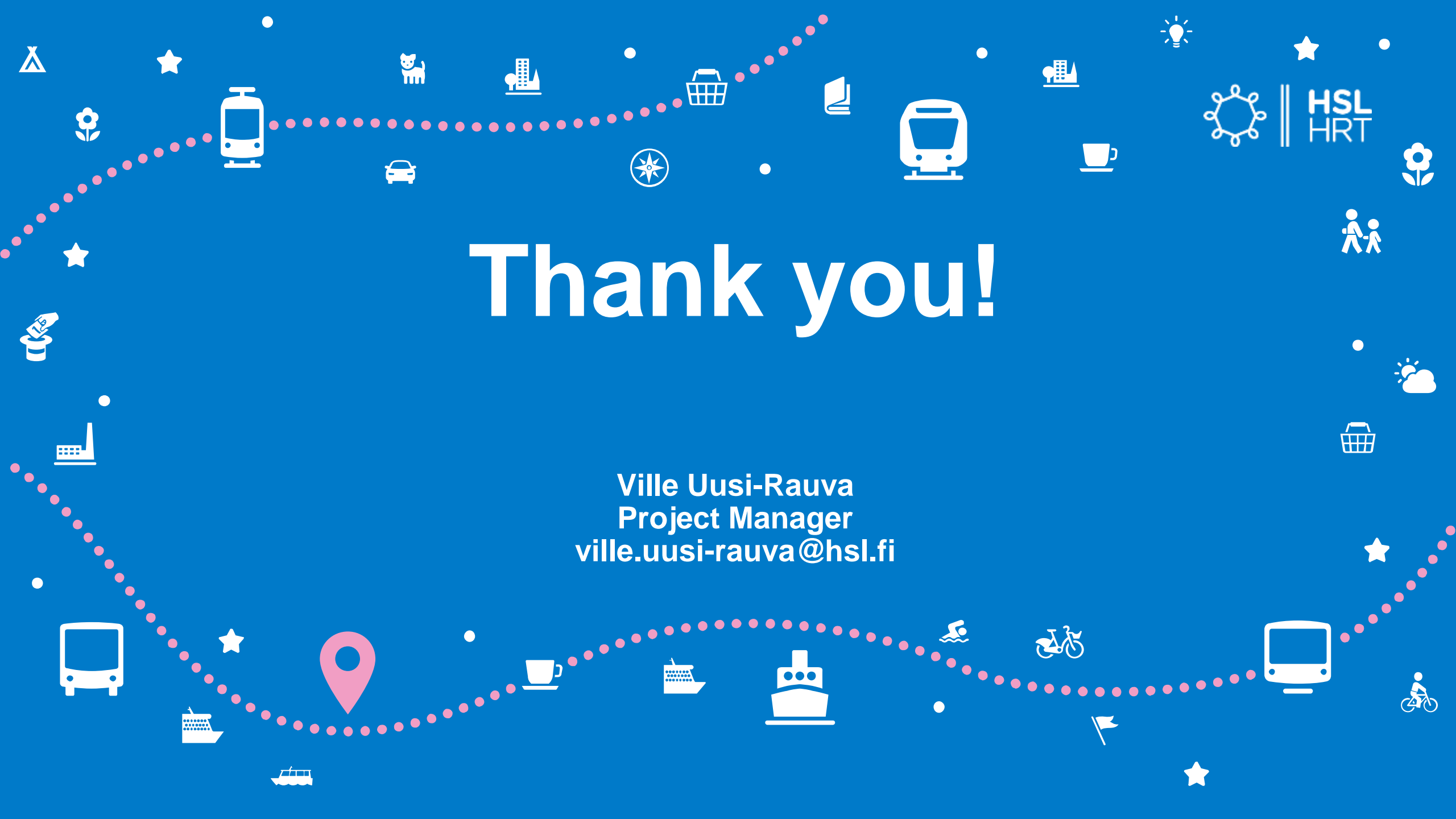
- Winter conditions and opportunity charging
- Heating in winter time with renewable diesel auxiliary heater (so technically not zero emission)





Thank you!

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More Information

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