







disruption





OBcommute













AutoShare





















Hertz

(ON) Demand







Community CarShare



mitfahrgelegenheit.de



greensharecar_®



































City of Stockholm 10% of 18 years old

have a driver's licence

Aretun & Nordbakke, 2014







Future obsolescence of the drivers license













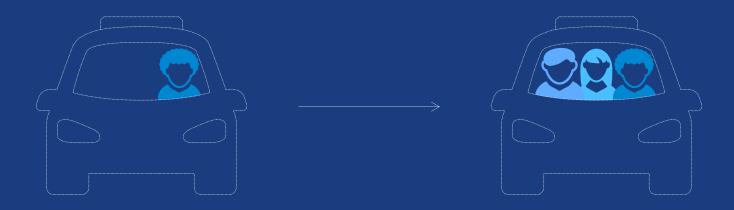






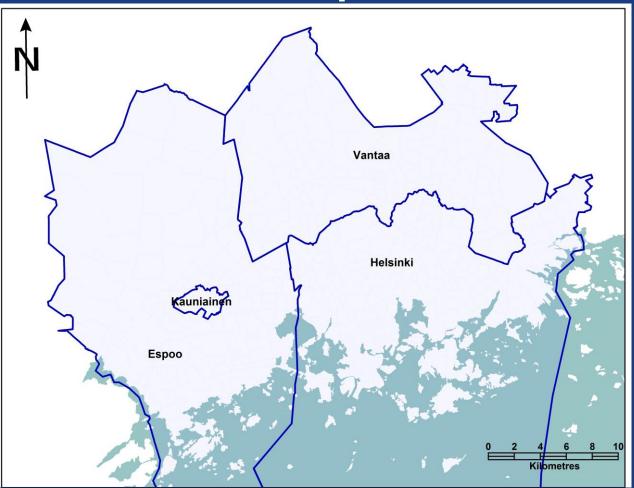


what if?





Helsinki Metropolitan Area













simultaneous ride-sharing



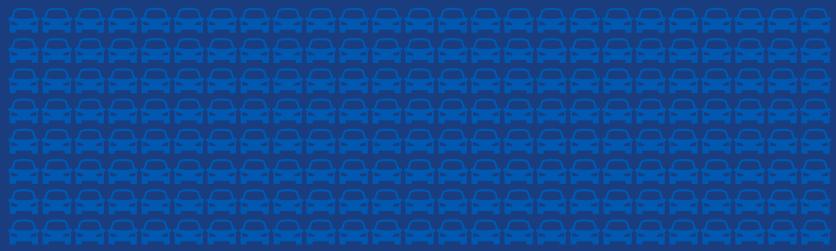




optimised on-demand bus



Lisbon



Scenario: 24 hours

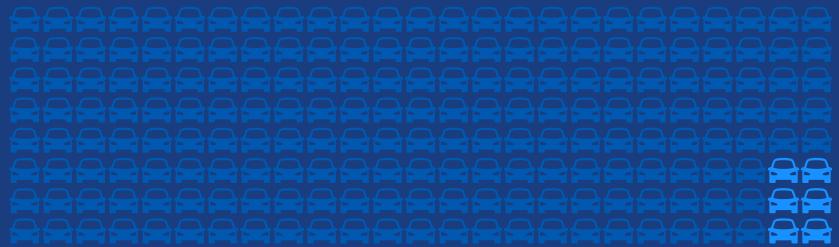




number of cars required to provide the same trips as before:

What we found

Lisbon



Scenario: 24 hours

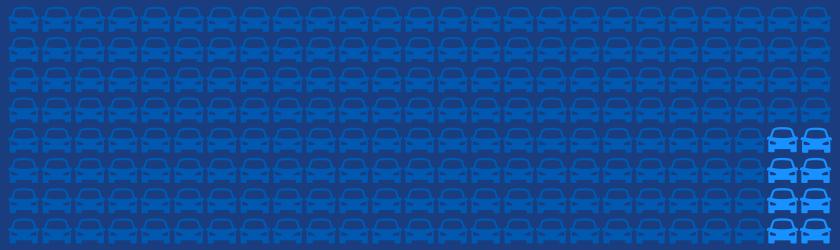






number of cars required to provide the same trips as before:

Helsinki



Scenario: 24 hours







required to provide the same trips as before: same trips as before:



Impacts (best scenario)

-62% (Lisbon)

-34%
(Helsinki)

CO₂ emissions







CO₂ /inhabitant (base year)

3.5

(Lisbon)

2.5

(Helsinki)







CO₂ /inhabitant (best scenario)

1.6 (Lisbon)

1.8
(Helsinki)







Factors affecting outcome Current modal share Public transport quality Density of the area Trip patterns





PARKING



PARK





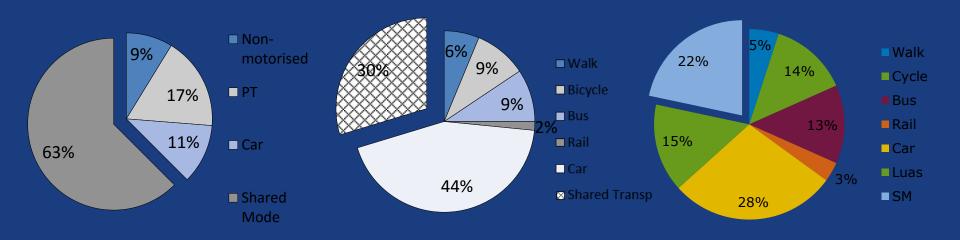
Understanding user preferences

Focus group for each city

Stated preference survey

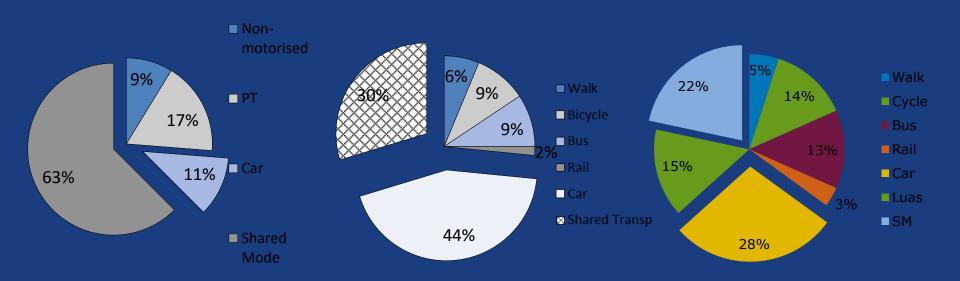


Shared mode in stated preference survey



Helsinki Auckland Dublin

Car mode in stated preference survey



Helsinki (41%)

Auckland (87%)

Dublin (65%)

Other observations

- Importance of having services across the entire area and feeder service to mass transit
- Willing to share vehicles rather with more than fewer travellers
- Early adopters: residents living far from the city centre, regular PT users young and people above 55 years
- Price important factor for all respondents
 - Waiting, access and travel time, number of transfers and comfort
- One third of respondents that own a car stated they would sell one of more cars if shared mobility services were available



CO2 emissions (20% cars replaced)

-19% * (Lisbon)

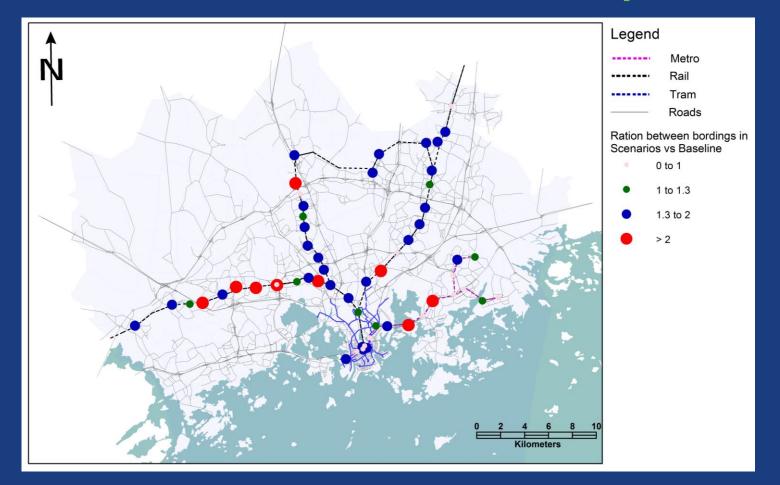
-4%
(Helsinki)

* Estimation

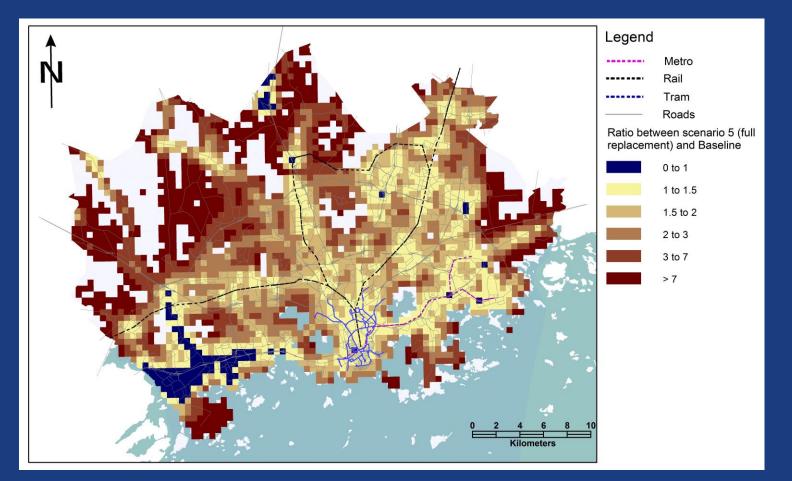




Increase in metro and rail ridership (Helsinki)



Increased access (Helsinki)

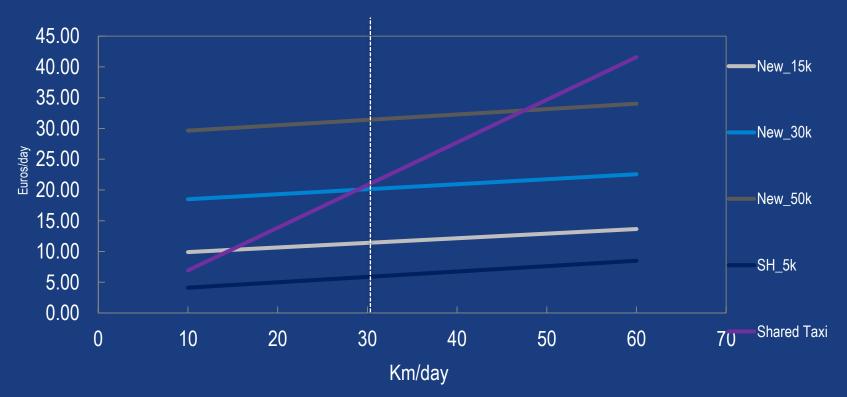


Costs/price – Helsinki Metropolitan Area

	Price per km (EUR/km) for end users				
Scenarios	Shared Taxi	Taxi bus	Average Taxi trip	Average PT user	PT operator without Subsidy
Inside ring road I	0.69	0.20	2.37	0.21	0.35
All cars and buses	0.65	0.19			
20% car trips + bus			2.37	0.21	0.55
feeder	0.79	0.20			

Price/Cost in Helsinki Metropolitan Area

Total commuting cost per day and km of car ownership vs Shared Taxi





Recommendations

Enable shared mobility as part of policy package

Introduce at a sufficient scale

Feed to mass transit

Target potential early adopters (car users)

Ensure line and station capacity





Transition

Land use policies Economic instruments Infrastructure/service measures Regulatory policies





Thank you!

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