

Greener Trondheim (Miljøpakken)

Urban mobility in Trondheim

Vision - strategy - projects

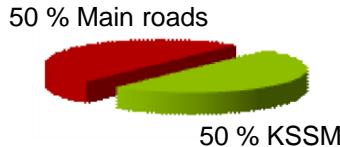


Richard Liodden Sanders

WINSPIRE workshop 27th February 2019

Greener Trondheim

1. CO₂ utslipp fra transport reduseres med minst 20 %
2. Andelen reiser med privatbil reduseres fra 58% til 50 %
3. Et helhetlig gang- og sykkelvegnett skal på plass (800 mill kr)
4. Framkommelighet for kollektivtransport bedres med 25 % (2010)
5. Alle nasjonale forskrifter for lokale bymiljø i varetas
6. Antall personer som plages av trafikkstøy reduseres med 15 %
7. 80 % av nye boliger innenfor eksisterende tettstedsstruktur, 60 % av nye arbeidsintensivt arbeidsplasser innenfor Kollektivbuen
8. Klimautslipp fra transport i egen virksomhet reduseres med 40 %
9. Arbeide for at andre private og offentlige aktører gjennomfører tilsvarende tiltak
10. Antall trafikkulykker reduseres med minst 20 % med Nullvisjonen som rettesnor



10 goals

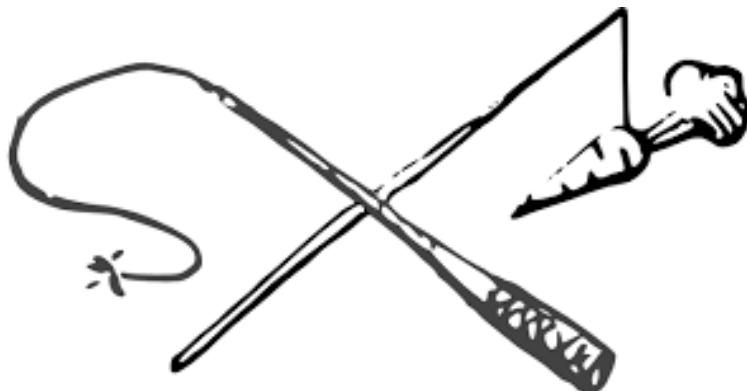
- Zero growth in car traffic, despite population growth (3 % yearly)
- 20 % reduction in emissions
- Ambitious but achievable goals

Balanced resources

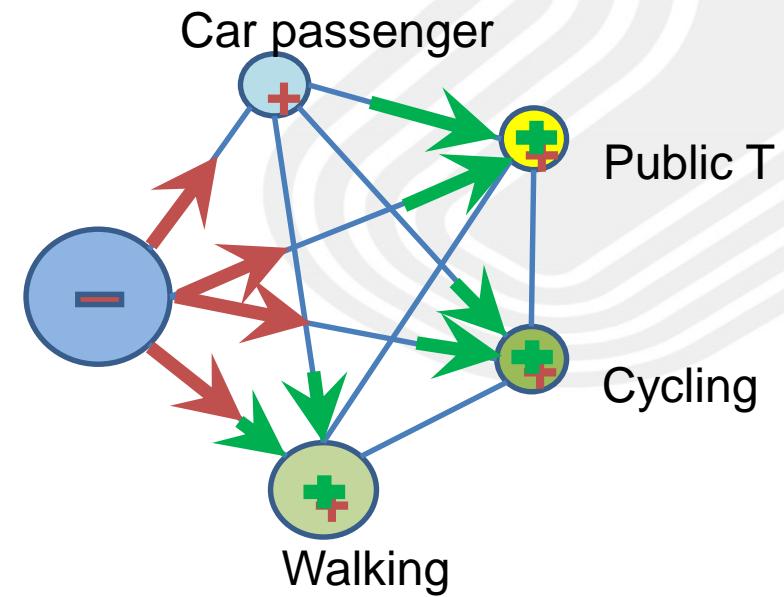
- 50 % new roads
- 50 % to non-car (public transport, cycling, walking, safety, noise, info)

Strong political engagement

Whip and carrot



Car
driver



Tolling system

21 collection points

Annual revenues:

2010 – 2014: NOK 230 Million

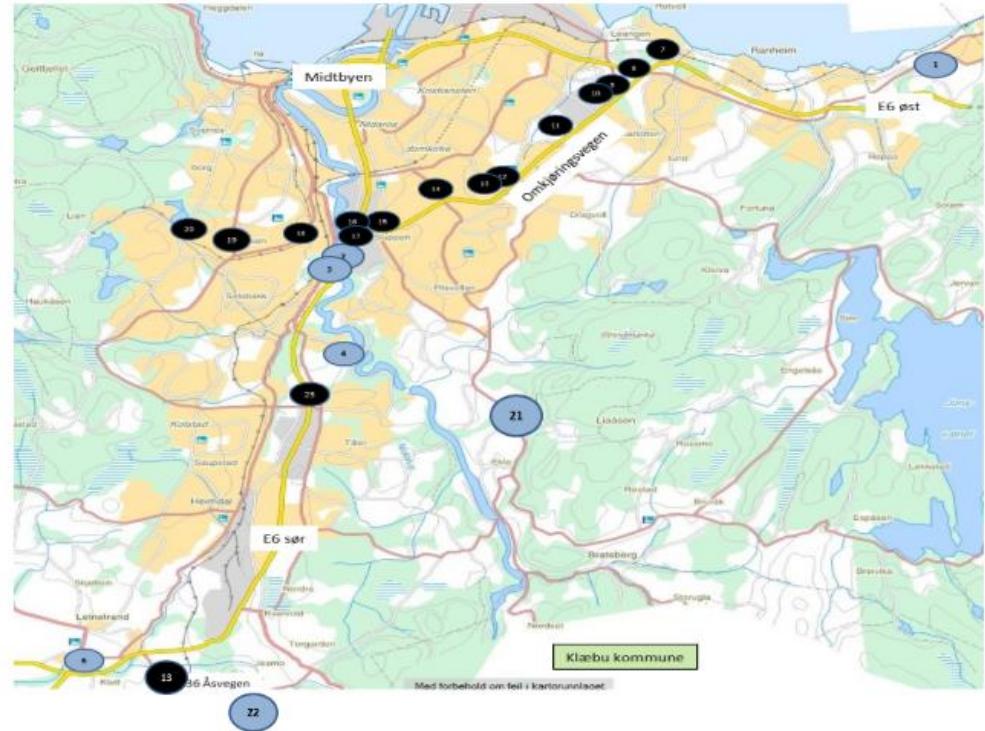
After 2014: NOK 500 Million

Secures project funding

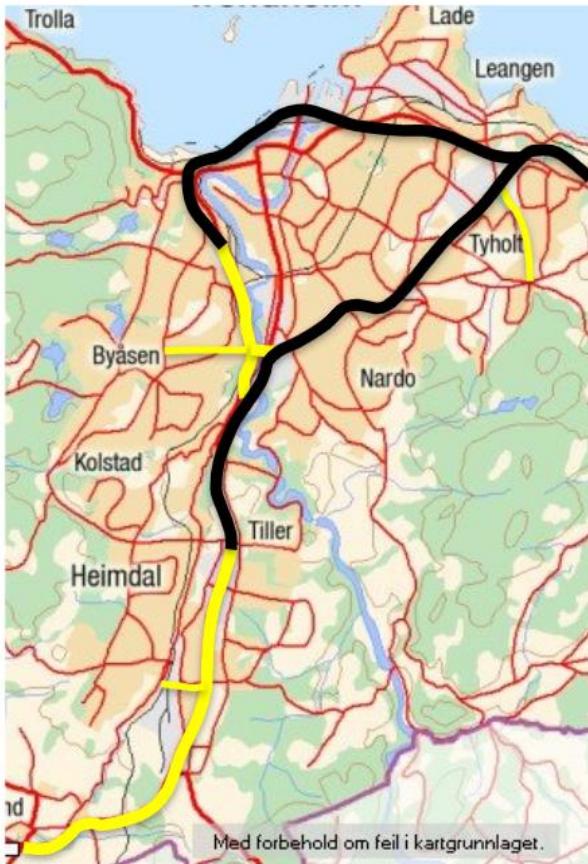
Reduces car use

14 % reduction of traffic

through the toll barriers 2009-2017.



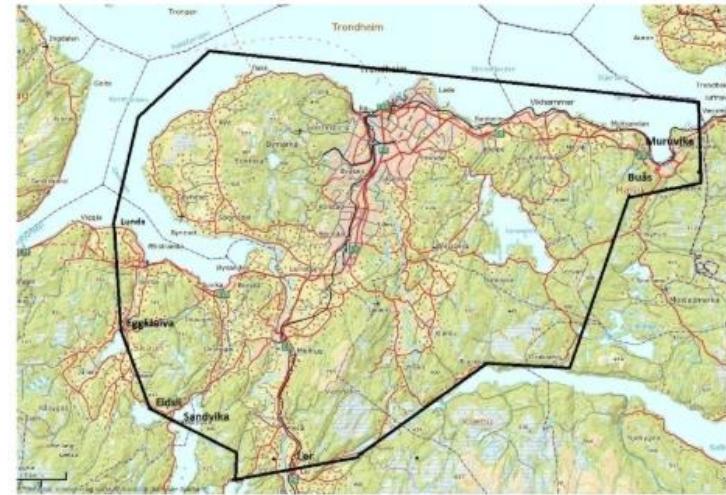
Main road projects and bypasses





Public transport

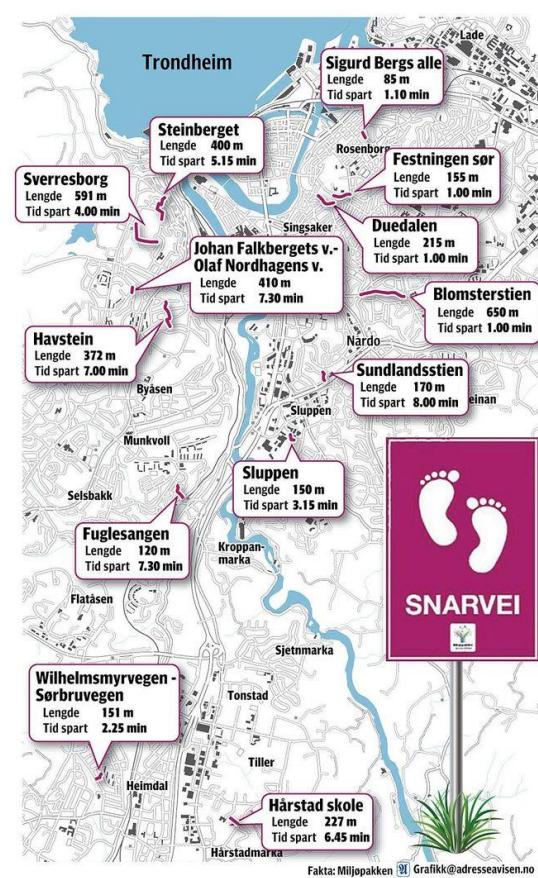
- More environment-friendly buses (natural and biogas)
- More frequent departures
- Modest pricing – larger Trondheim
- Growth: 60 % past years
- Since 2016: park and ride systems outside town



Miljøpakken
– åpner nye muligheter



Walking



Miljøpakken
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Tips

"Reiserådgiving" – Mobility advice



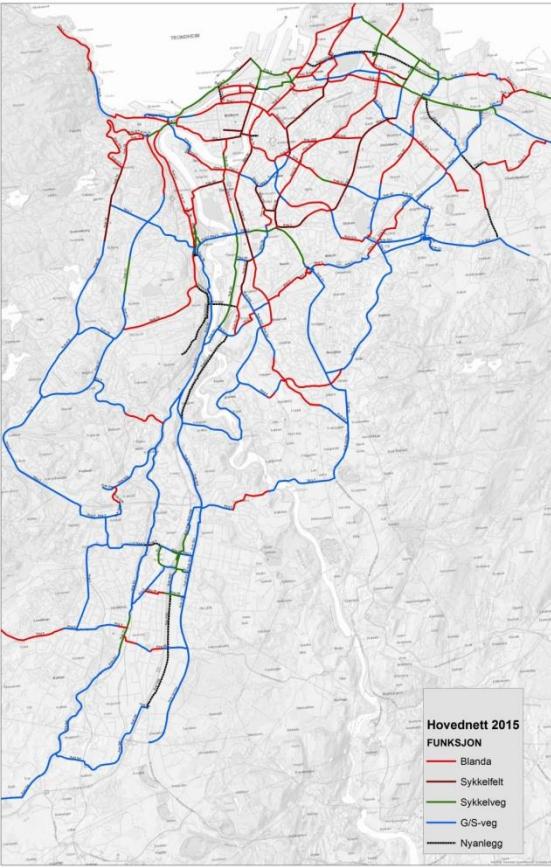
- Advice to work places (nudging)
- Counting driving of school kids to schools
- Bike service
- Cycling friendly work place





Cycling infrastructure

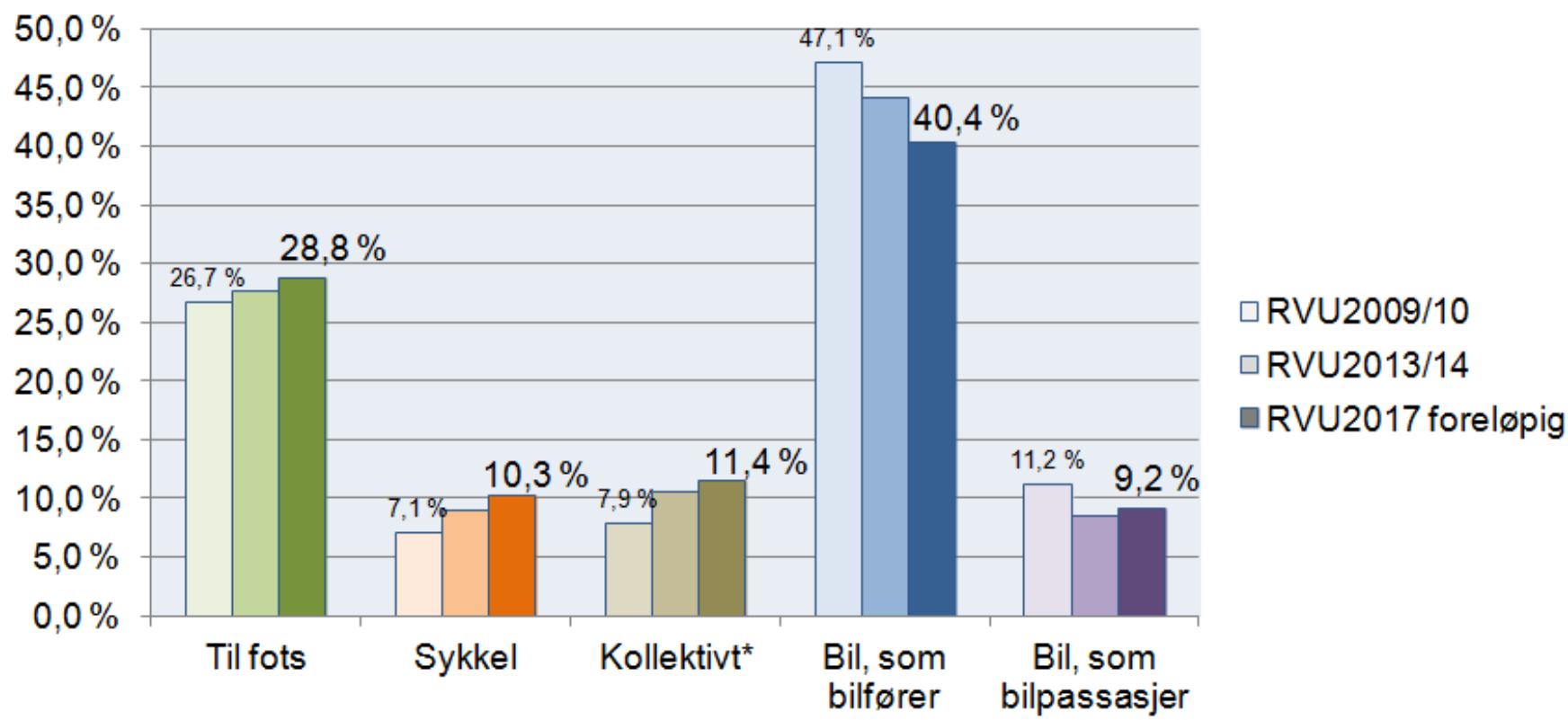
Goal: Safe and attractive



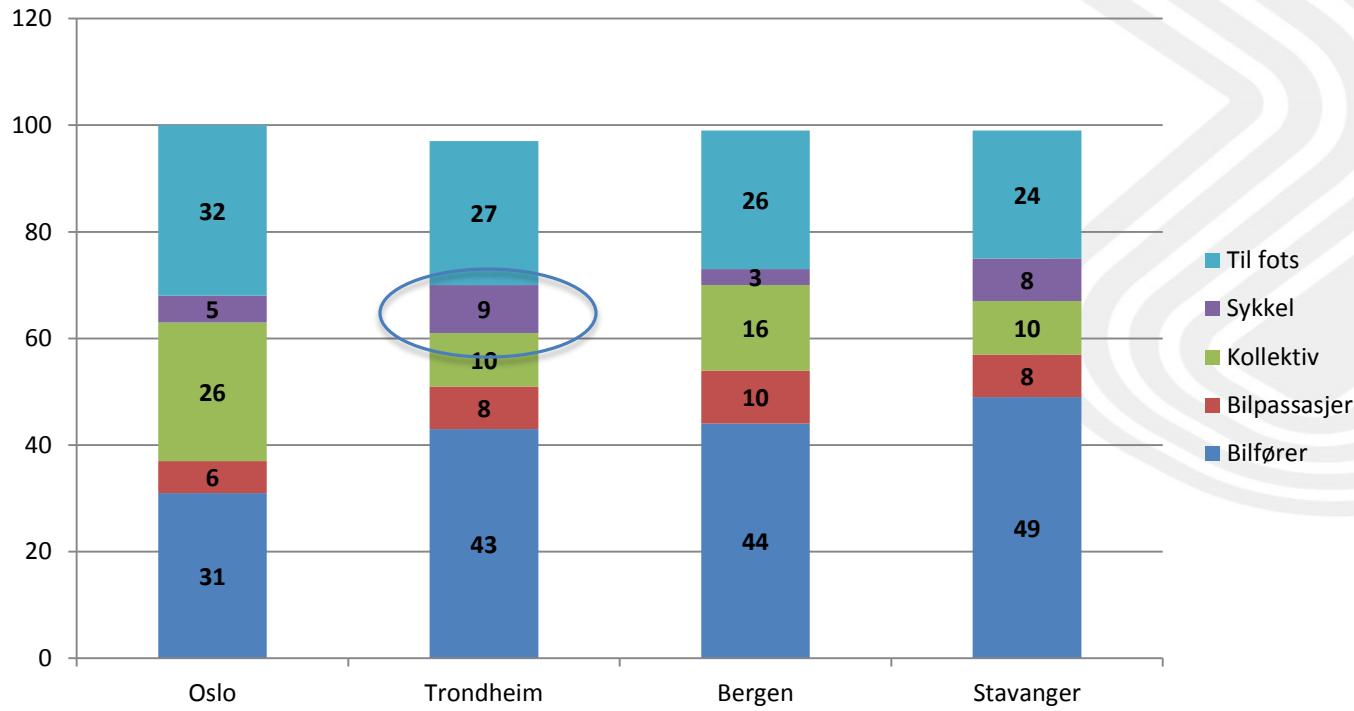
miljøparken
– åpner nye muligheter

Significant changes in transport modes

Trondheim 2009/2010 to 2017

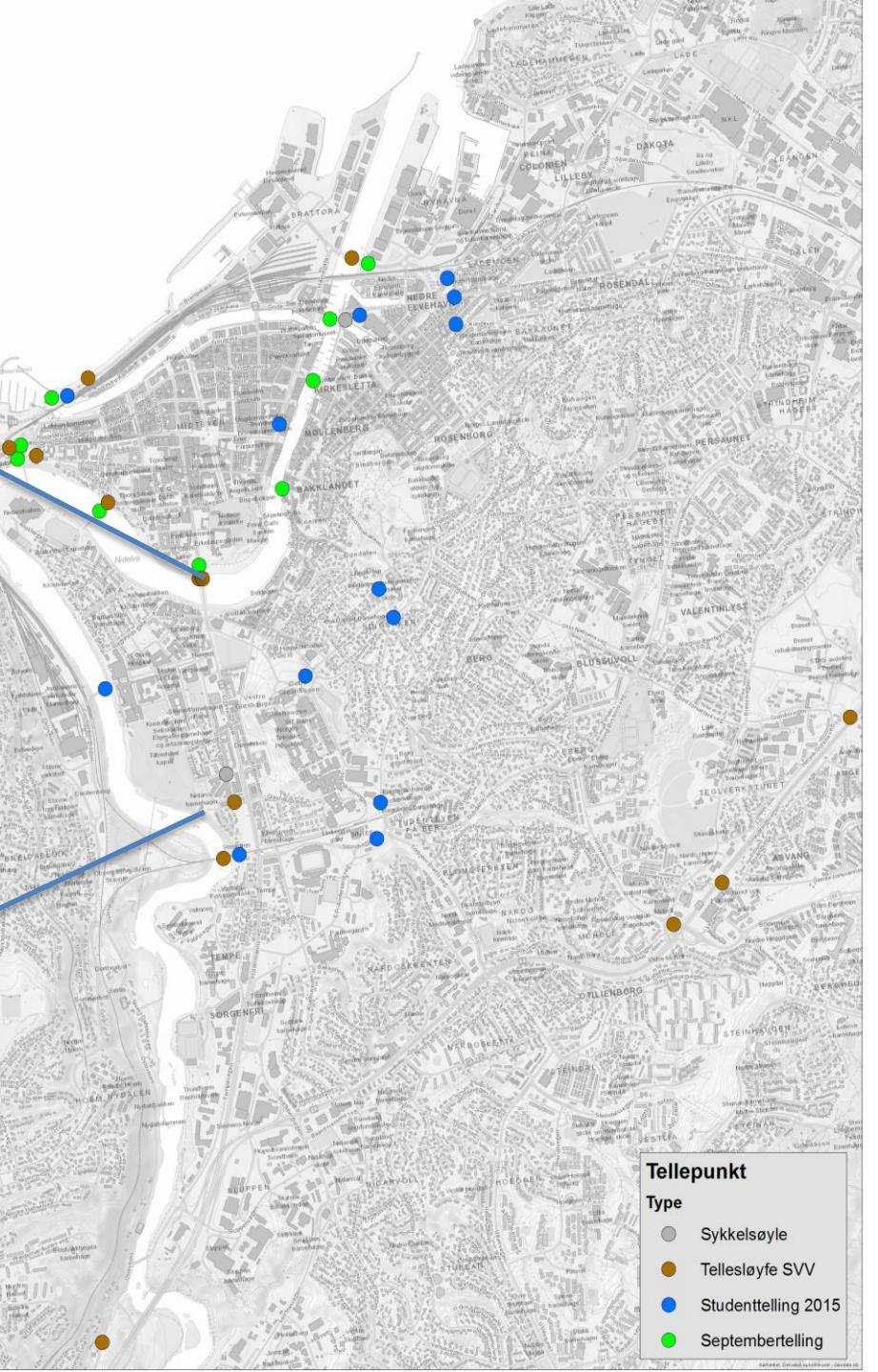
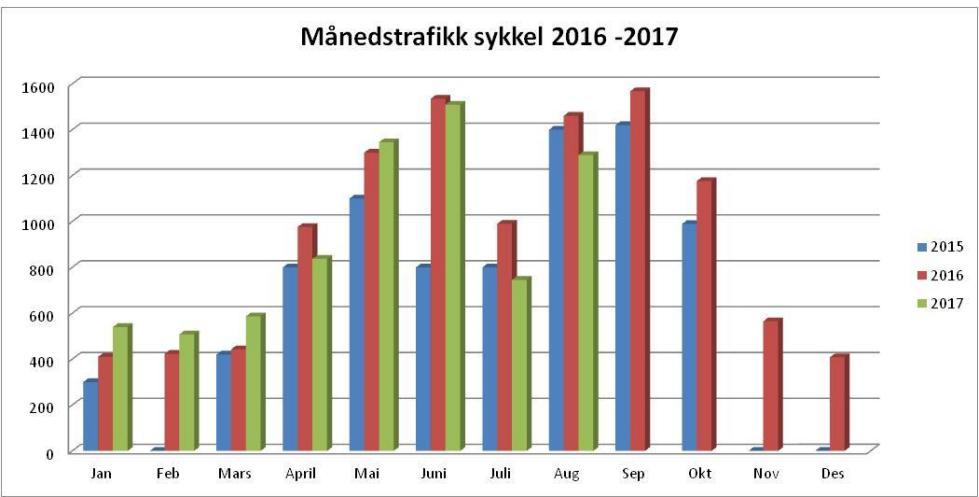
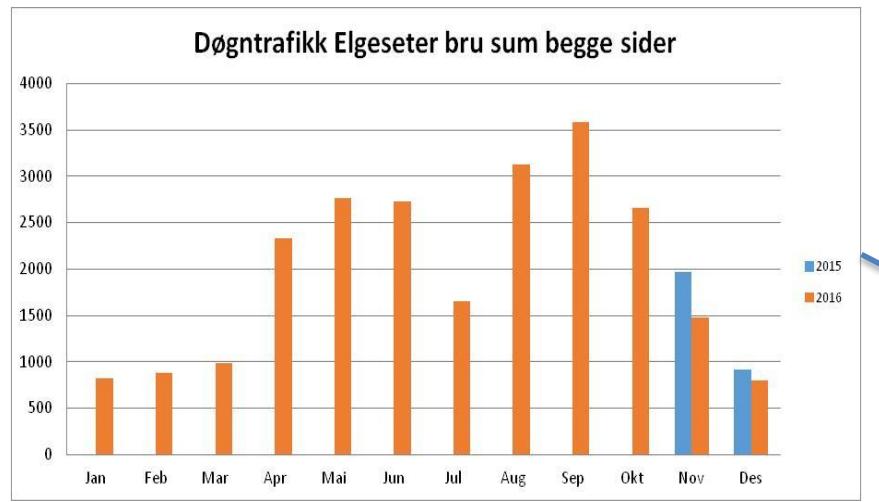


National travel survey 2013/14

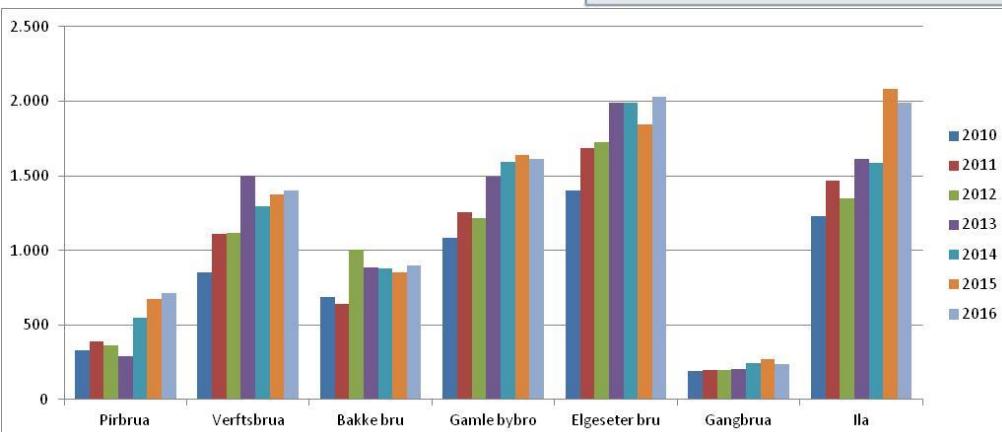
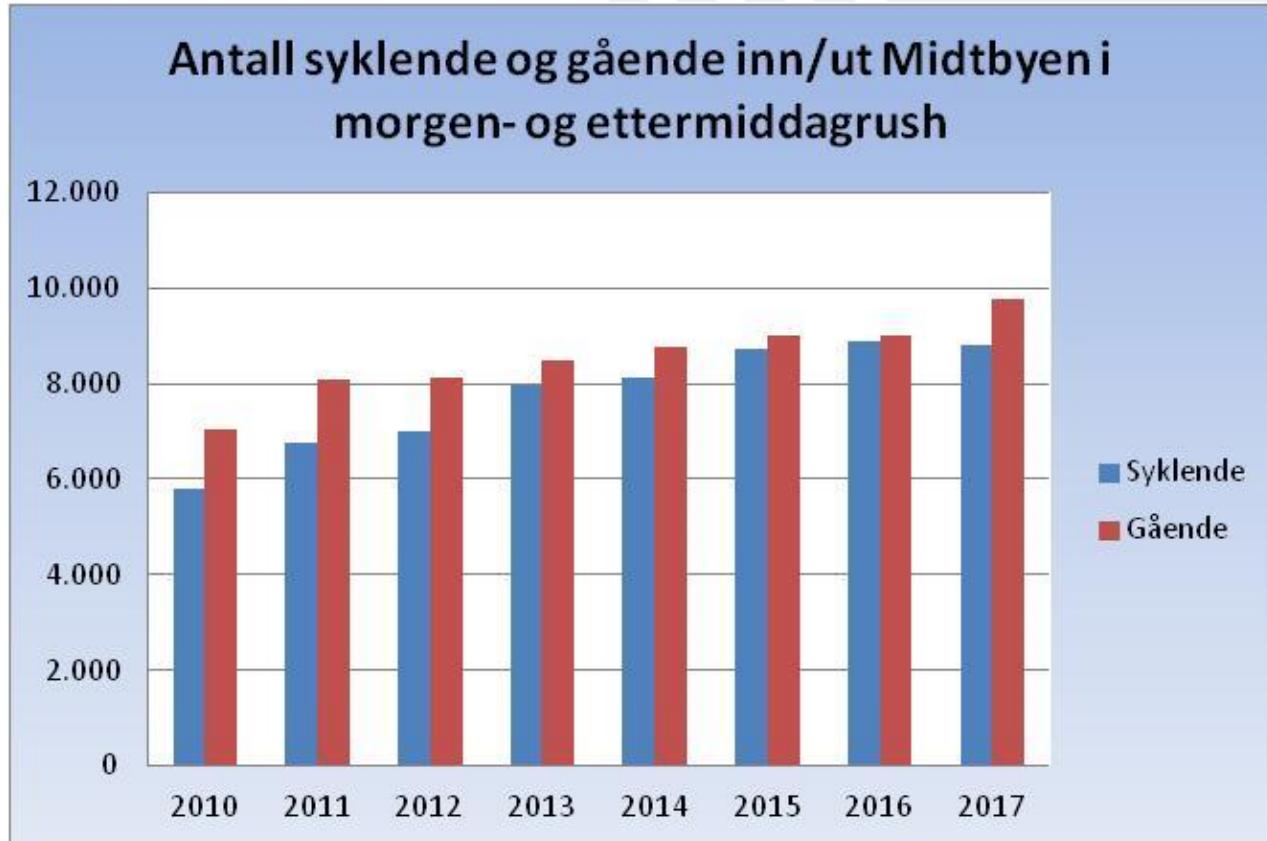


Source: TØI 2014 Den nasjonale reisevaneundersøkelsen 2013/14 - nøkkelrapport

Counting cyclists

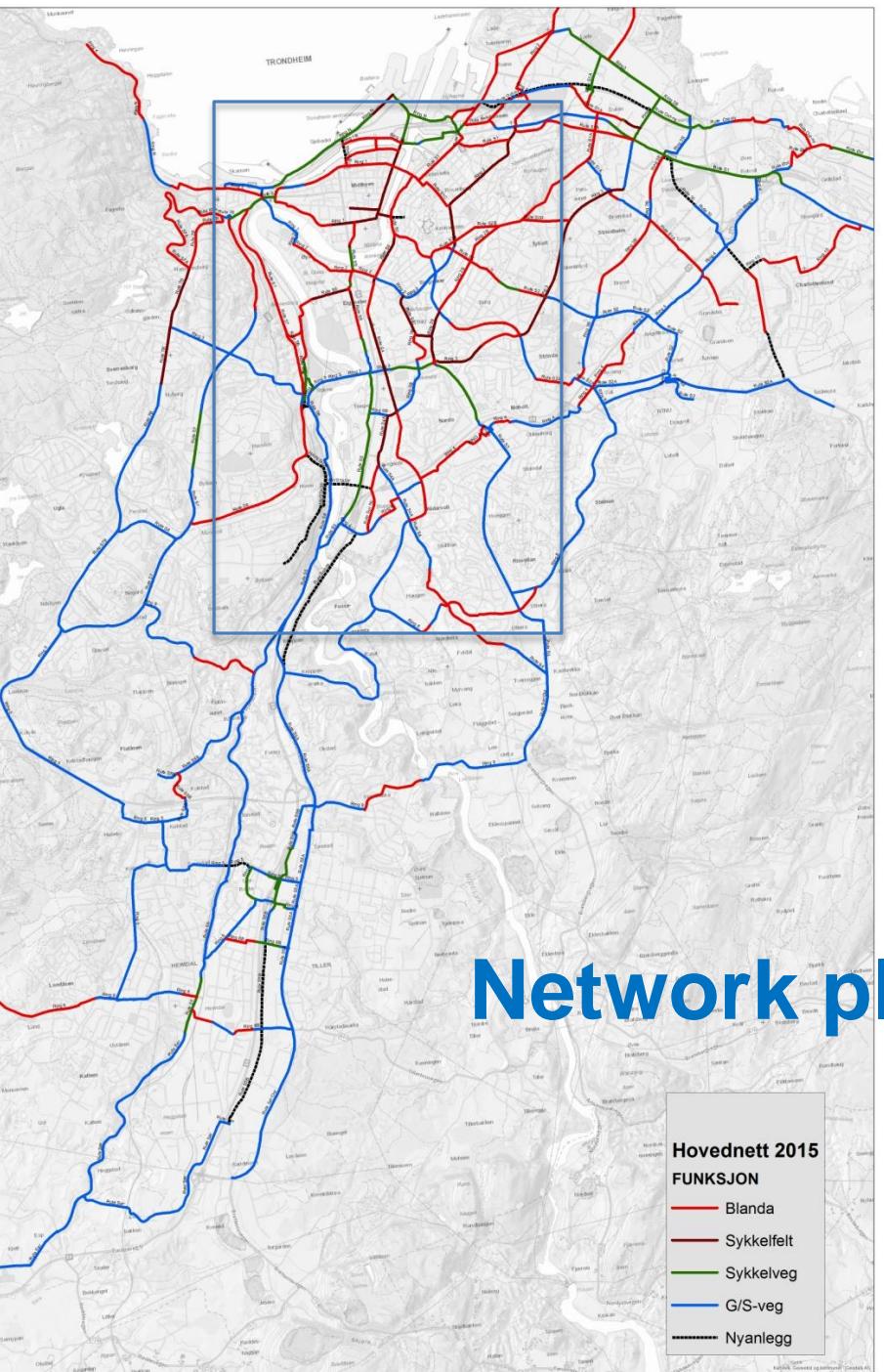


Increased walking and cycling 2010-2017

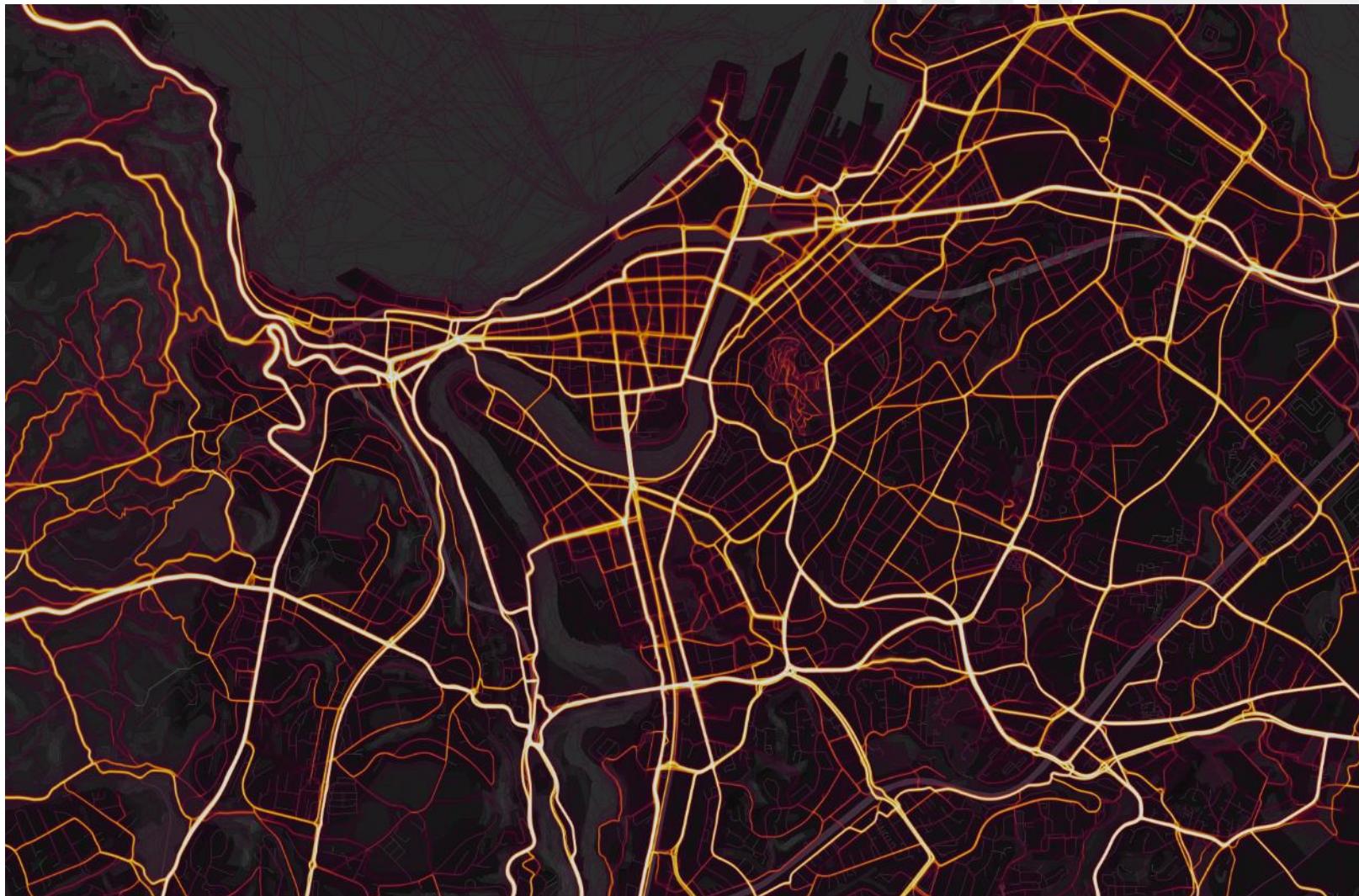


Unravelling – separating from main roads



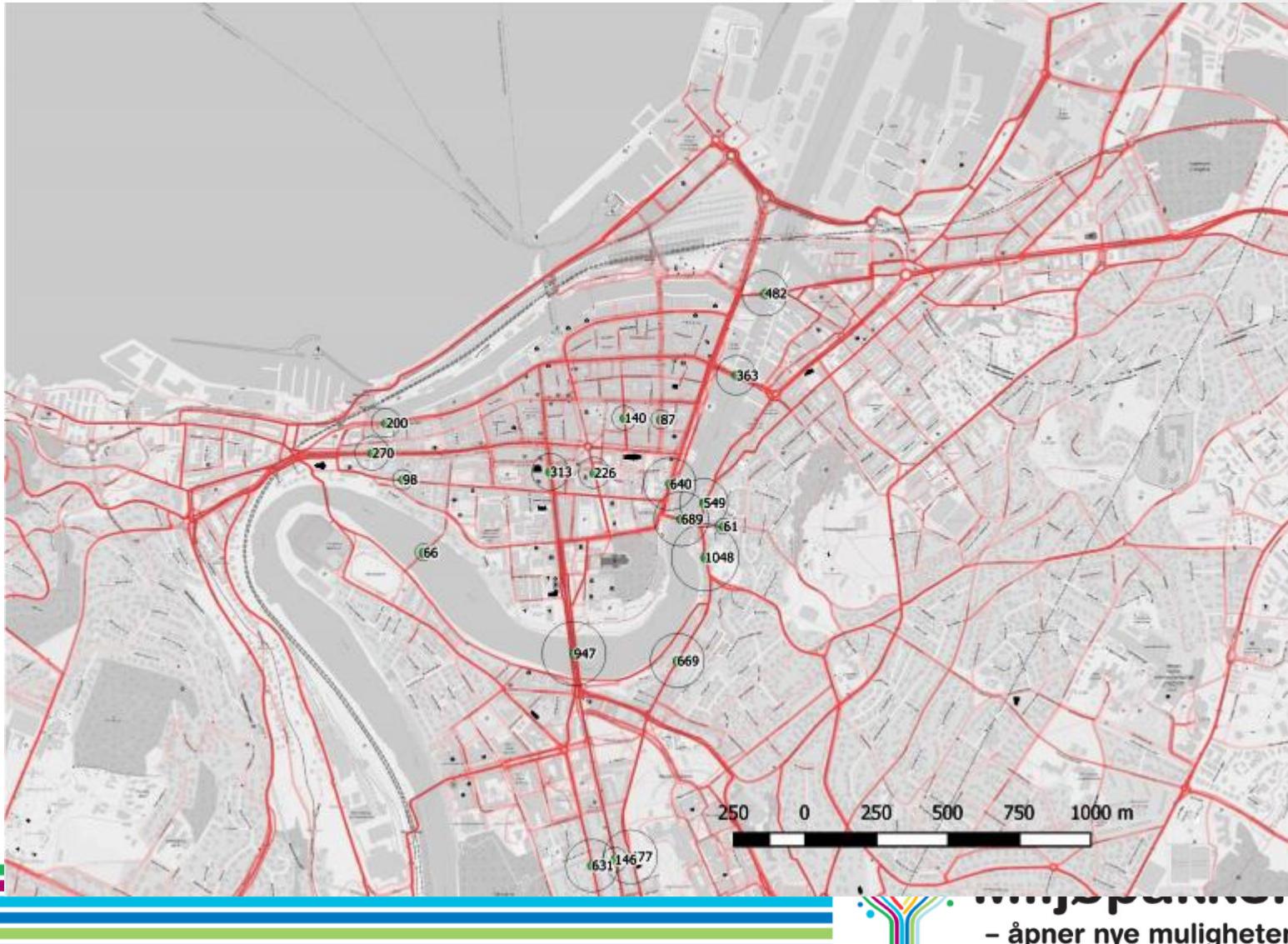


Strava heatmap ("cycling as a sport")



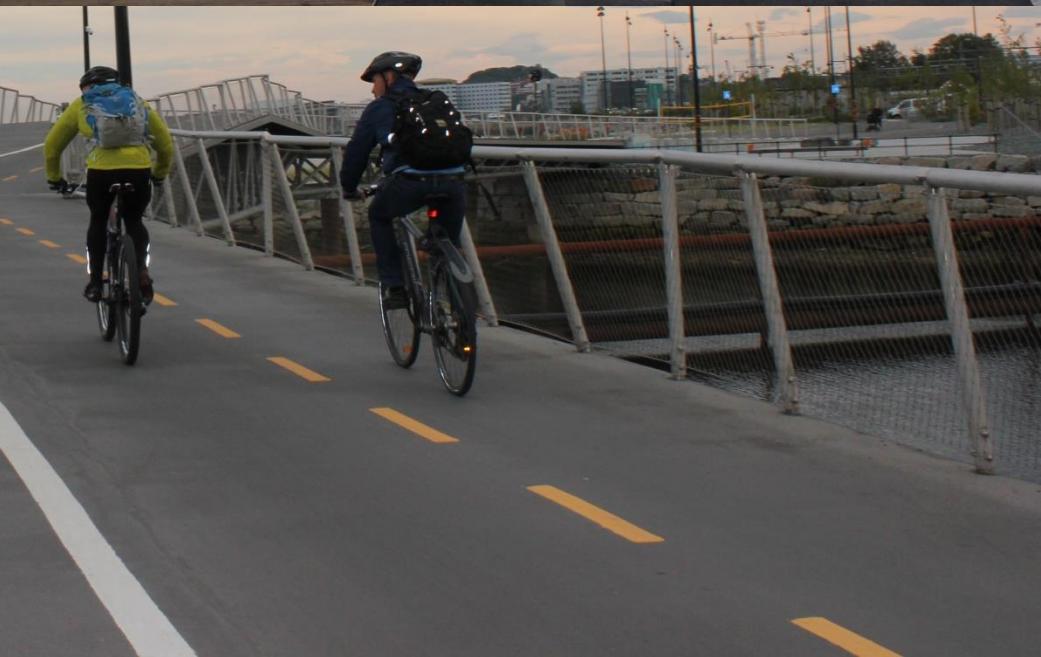
Miljøpakken
– åpner nye muligheter

Balanced view: Cyclist with Sense.DAT app - Sykkeltelledugnaden 2017



- åpner nye muligheter

Example: Harbour area



Example: visualizing cycling routes



Miljøpakken
– åpner nye muligheter

Example: Cycling "highway"

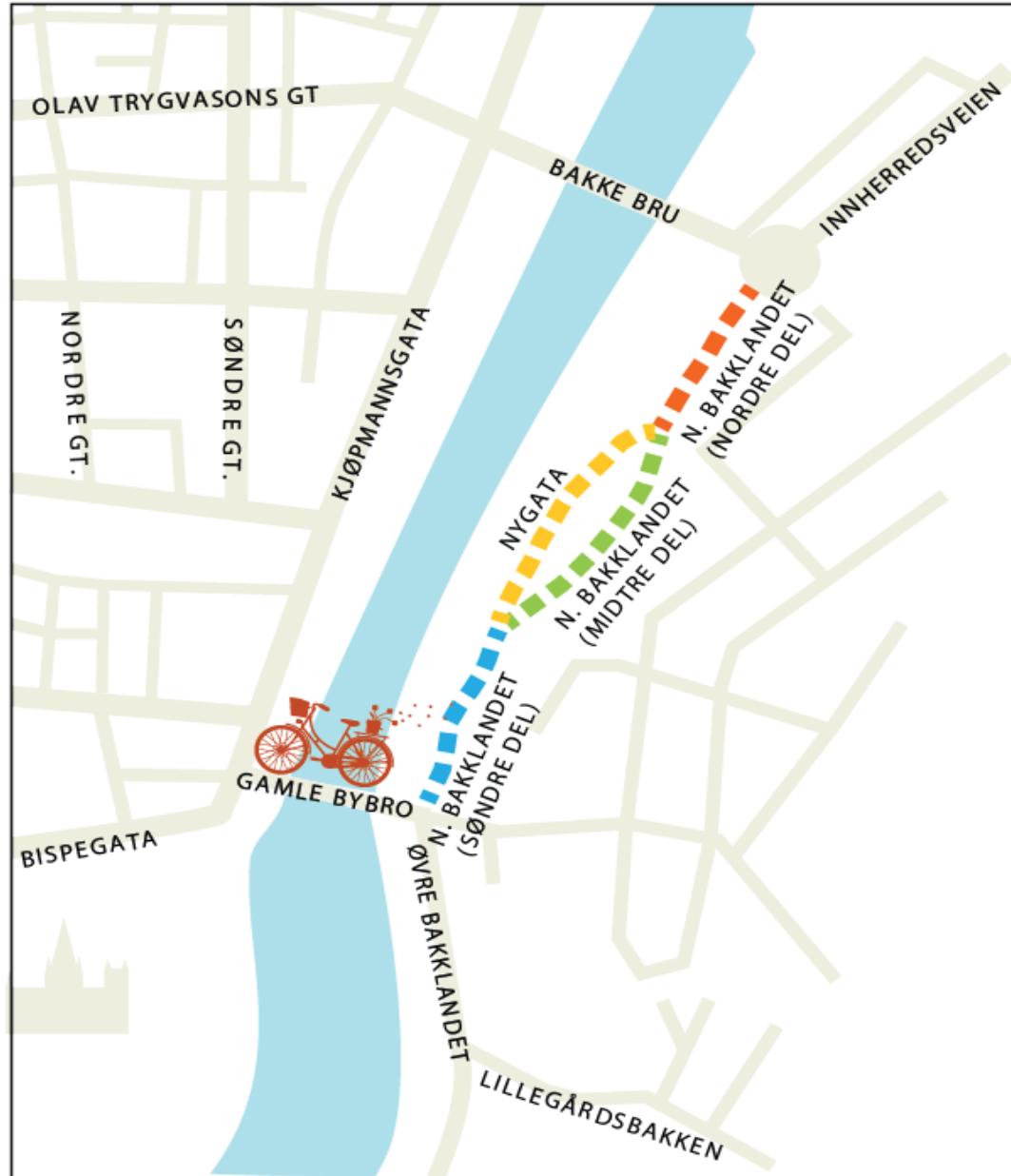


Example: cycle lanes in town centre



Example: Attention to context

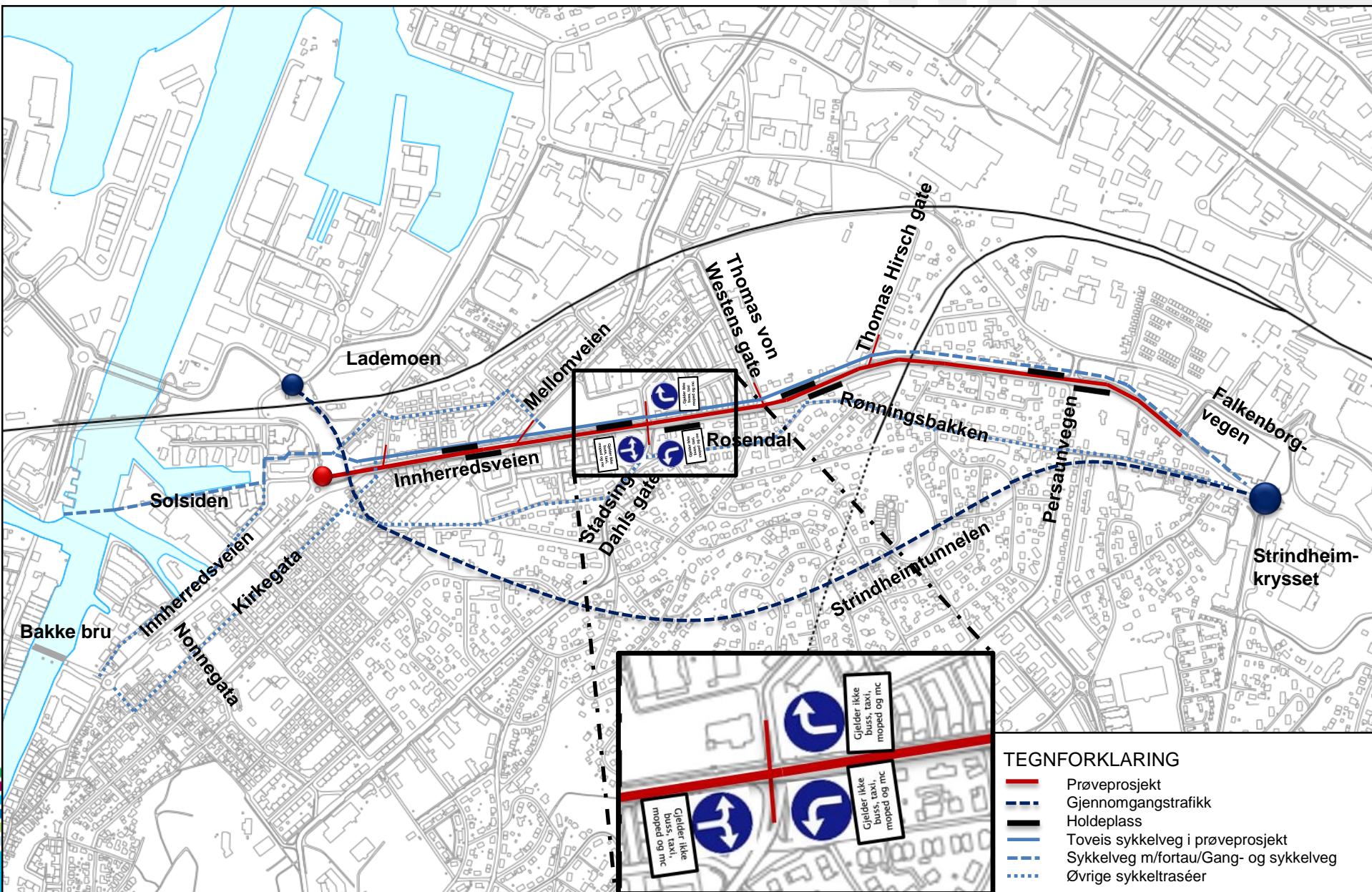
- Cycling road



Rebuilding: less room for cars, more for people



Example: Experiment in Innherredsveien



Rebuilding: less room for cars, more for people

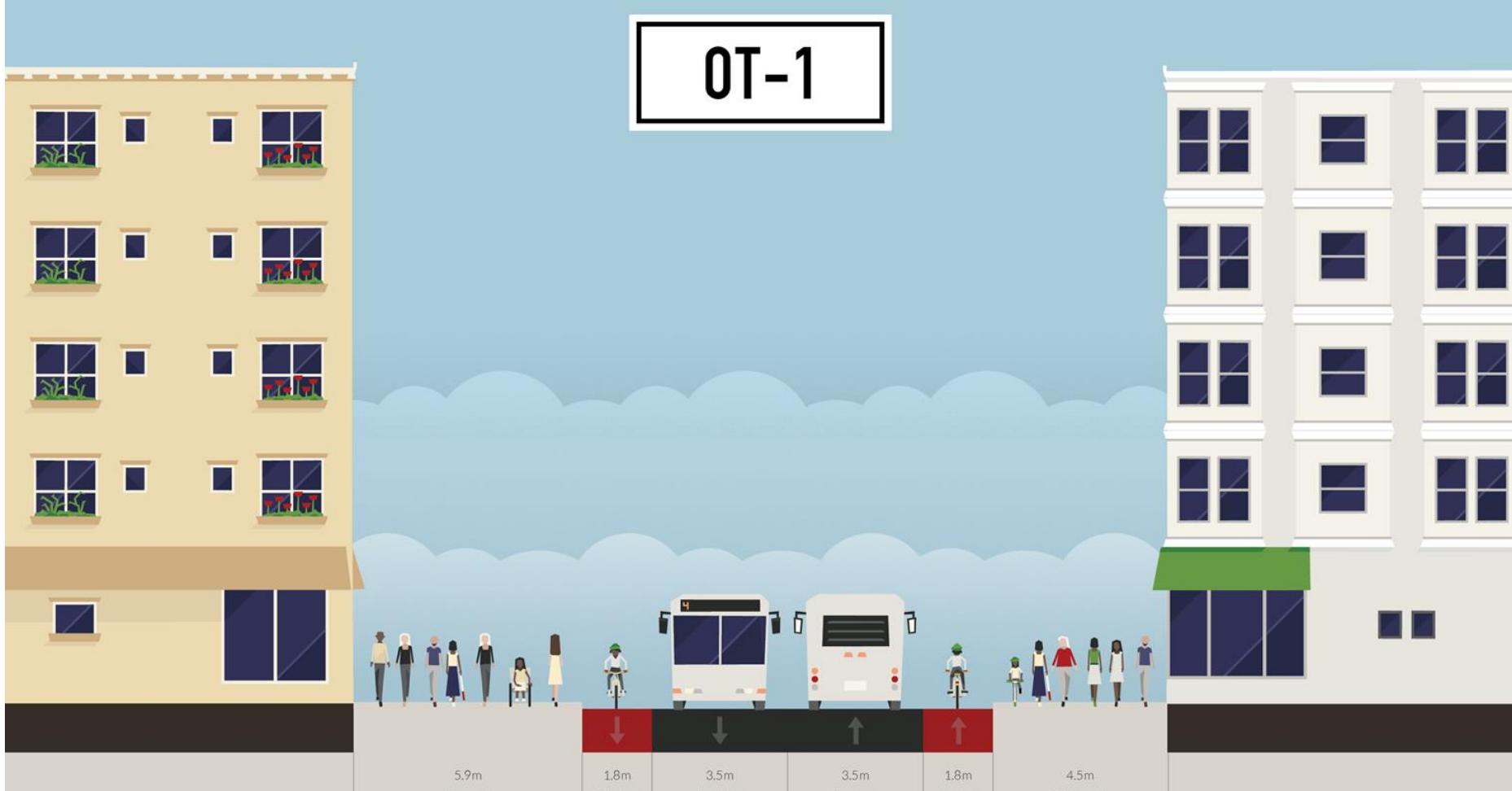


Miljøpakken
– åpner nye muligheter



Experiments: Olav Tryggvasons gt.

OT-1

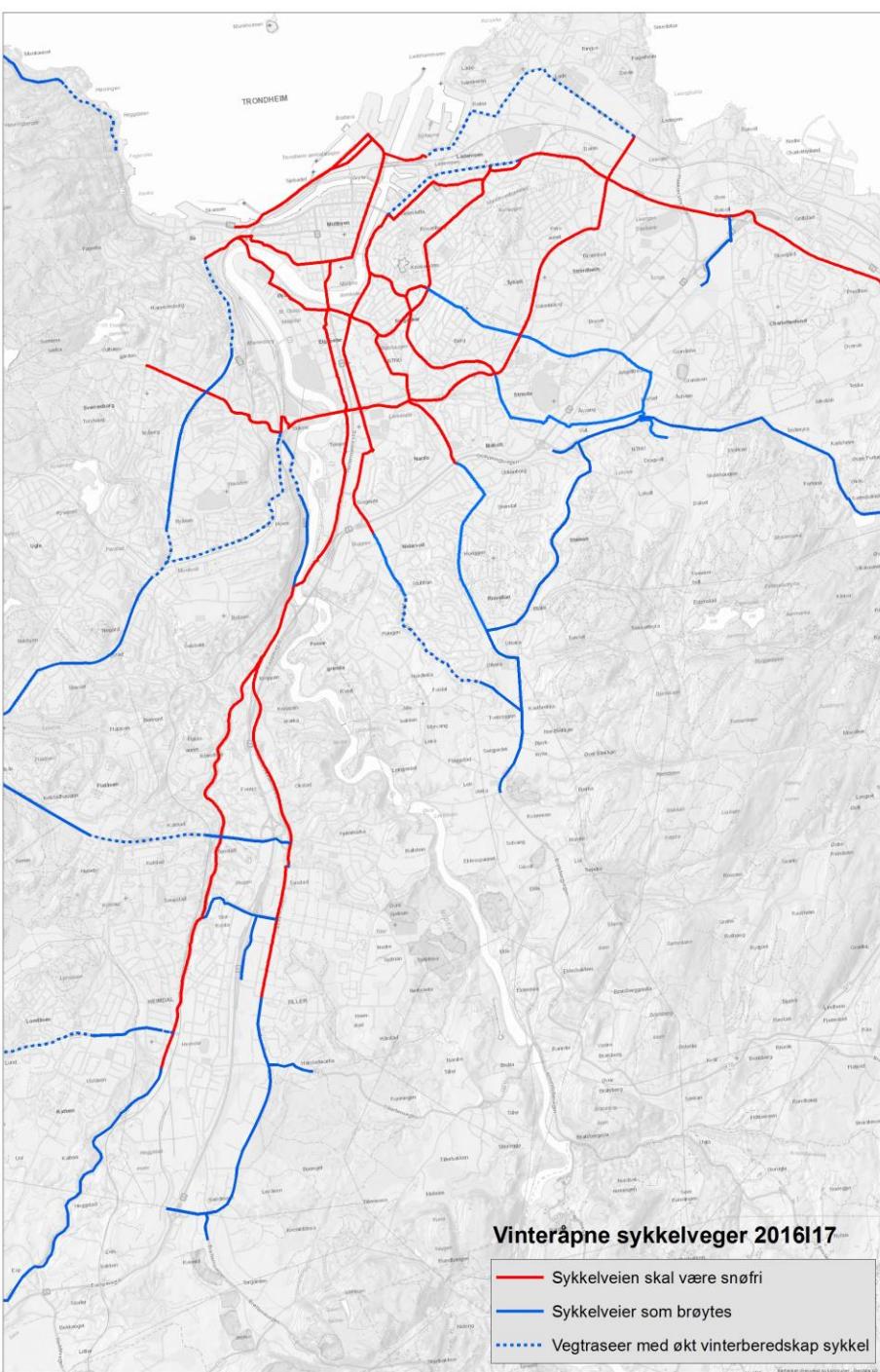


Miljøpakken
– åpner nye muligheter

Enhanced winter maintenance



<http://www.nrk.no>





Thank you!