

Combinatie Fiets en OV

Impact op stallingen



dr. ir. Niels van Oort

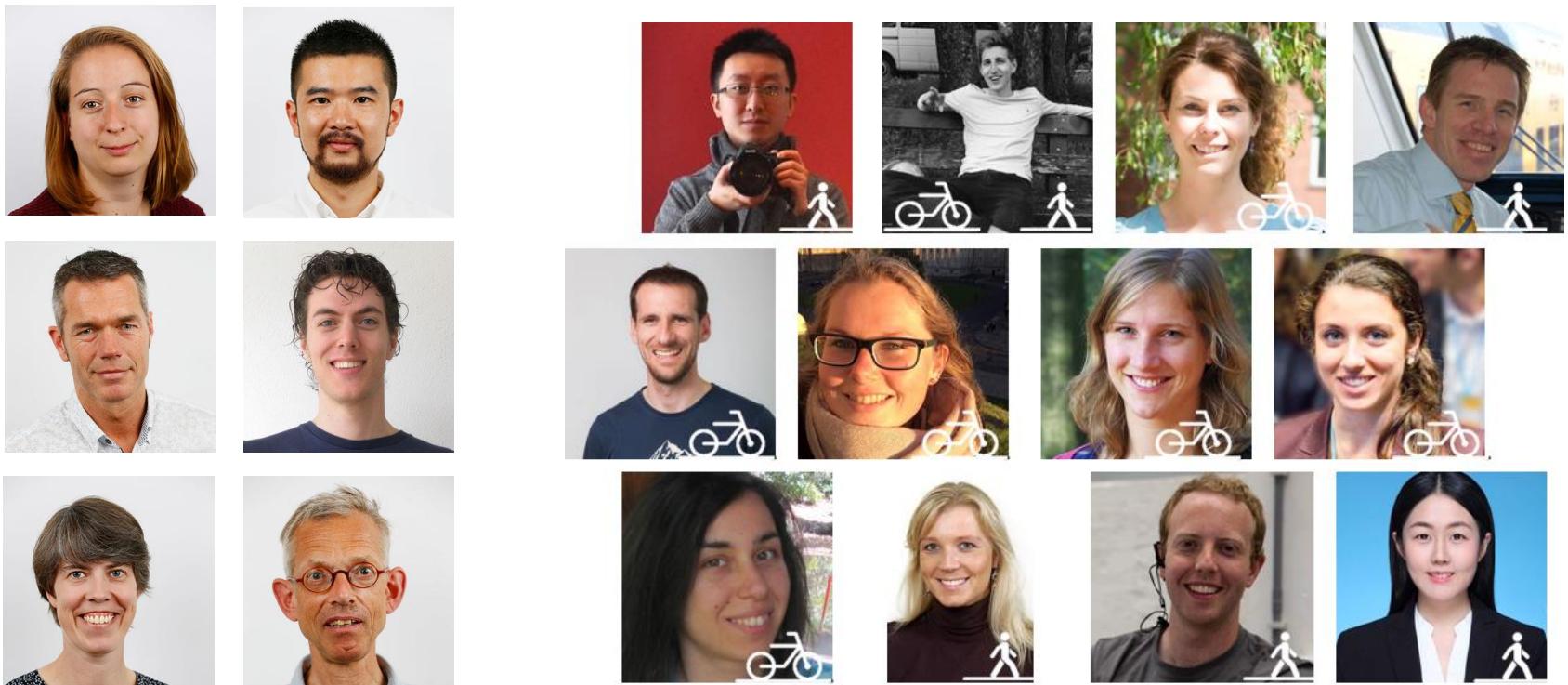
Co-director

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Active Mode Lab



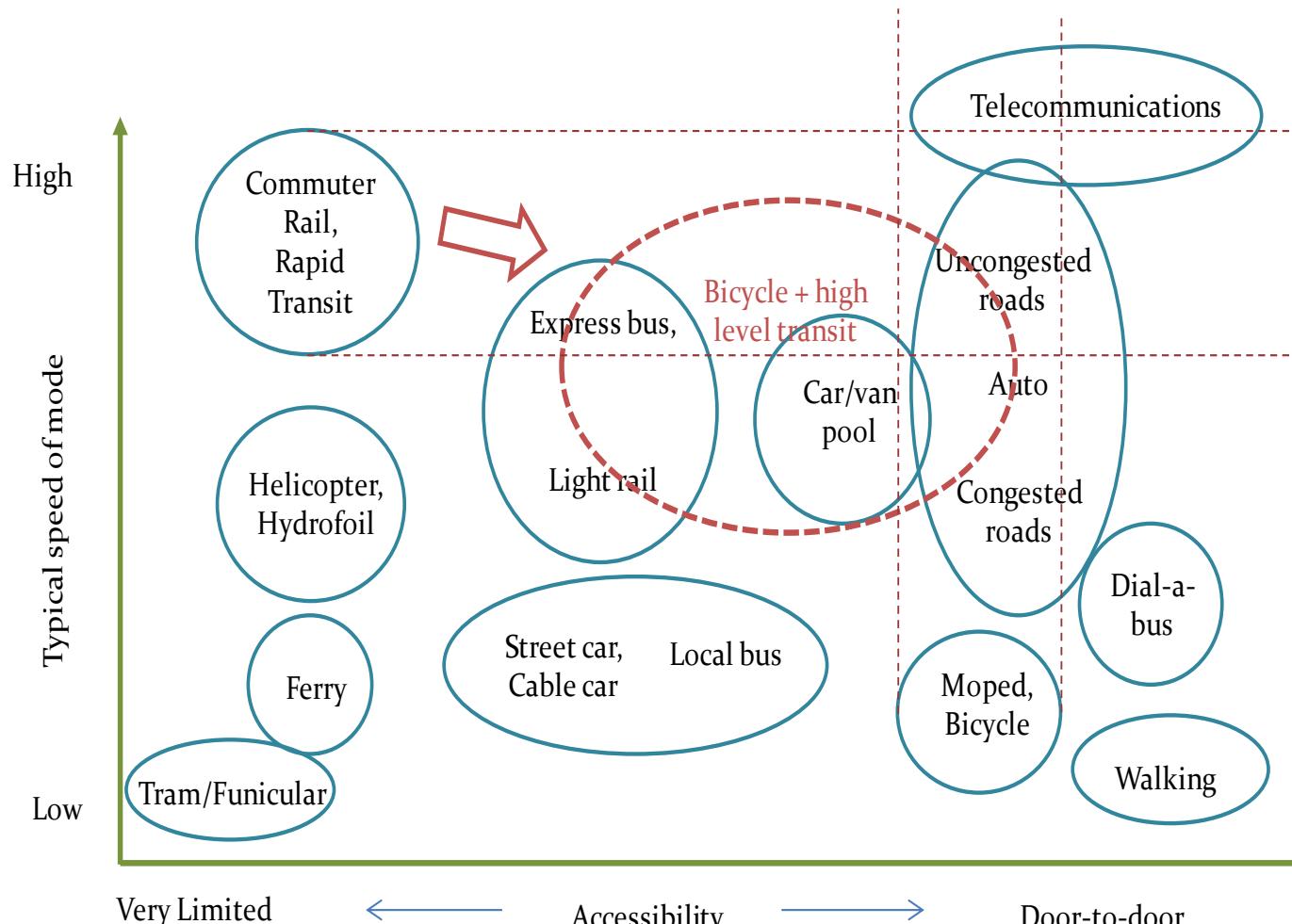
To develop theories, behavioral models, and methods to **design** and **manage** active mode infrastructures & **assess the impact of active mode ridership** on active mode infrastructures and other modes of transport

Smart Public Transport Lab



<http://smartptlab.tudelft.nl/>

Fiets en OV: Best of both worlds



[Kager et al. (2016), Shelat et al. (2017)]

Alleen maar goed nieuws?



CONGESTION



CLIMATE



AIR QUALITY



HEALTH

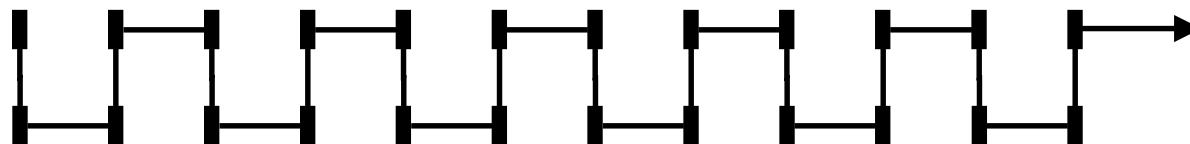
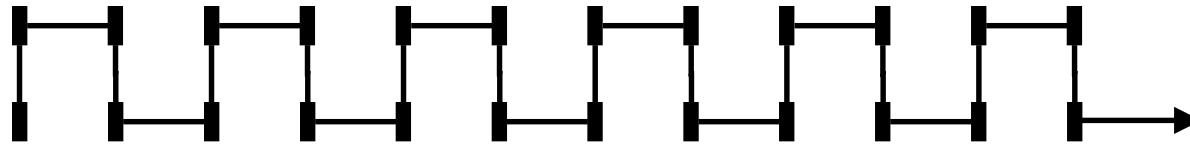


SAFETY



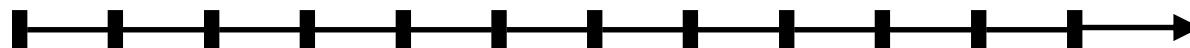
SUBSIDIES

Ontwerp dilemma



Veel haltes

Snel bij een halte; lang in het voertuig



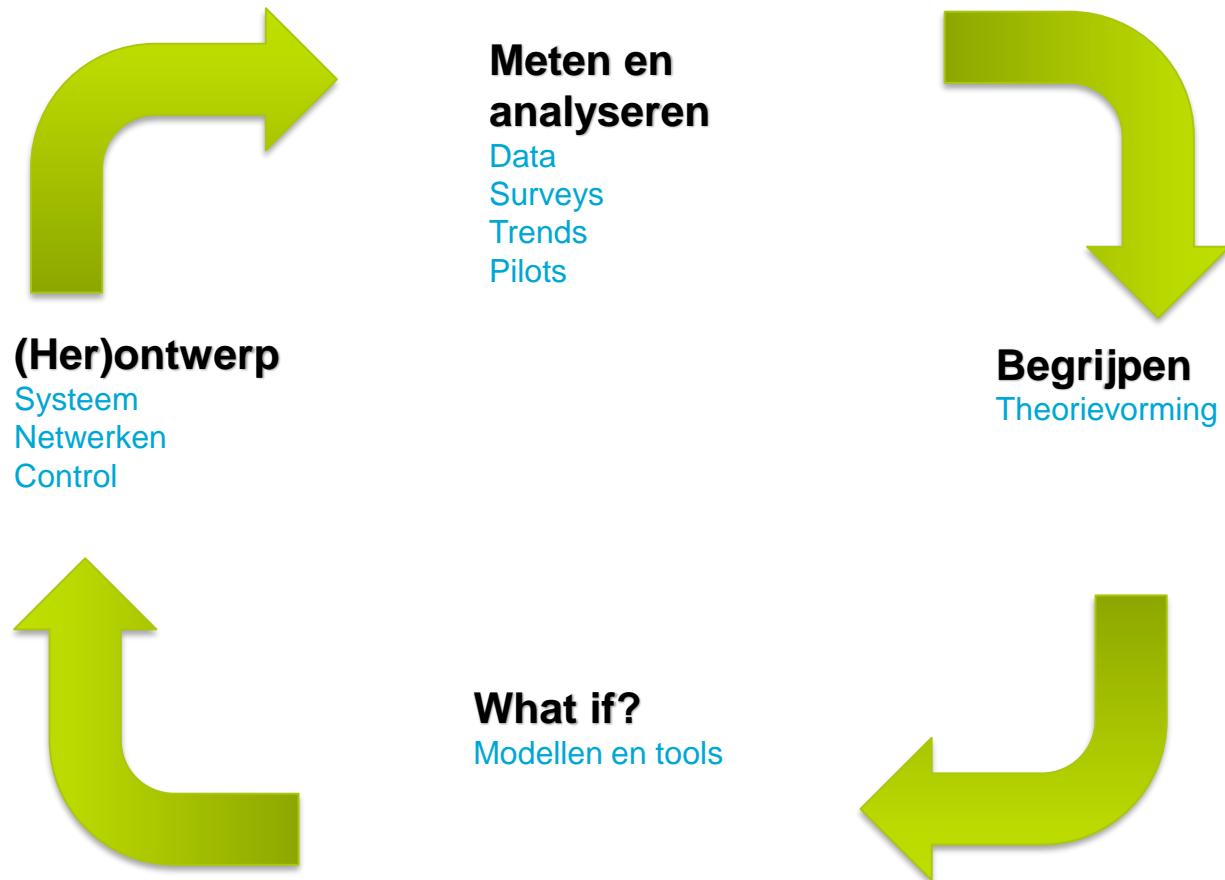
Weinig haltes

Langer naar een halte; kortere reistijd

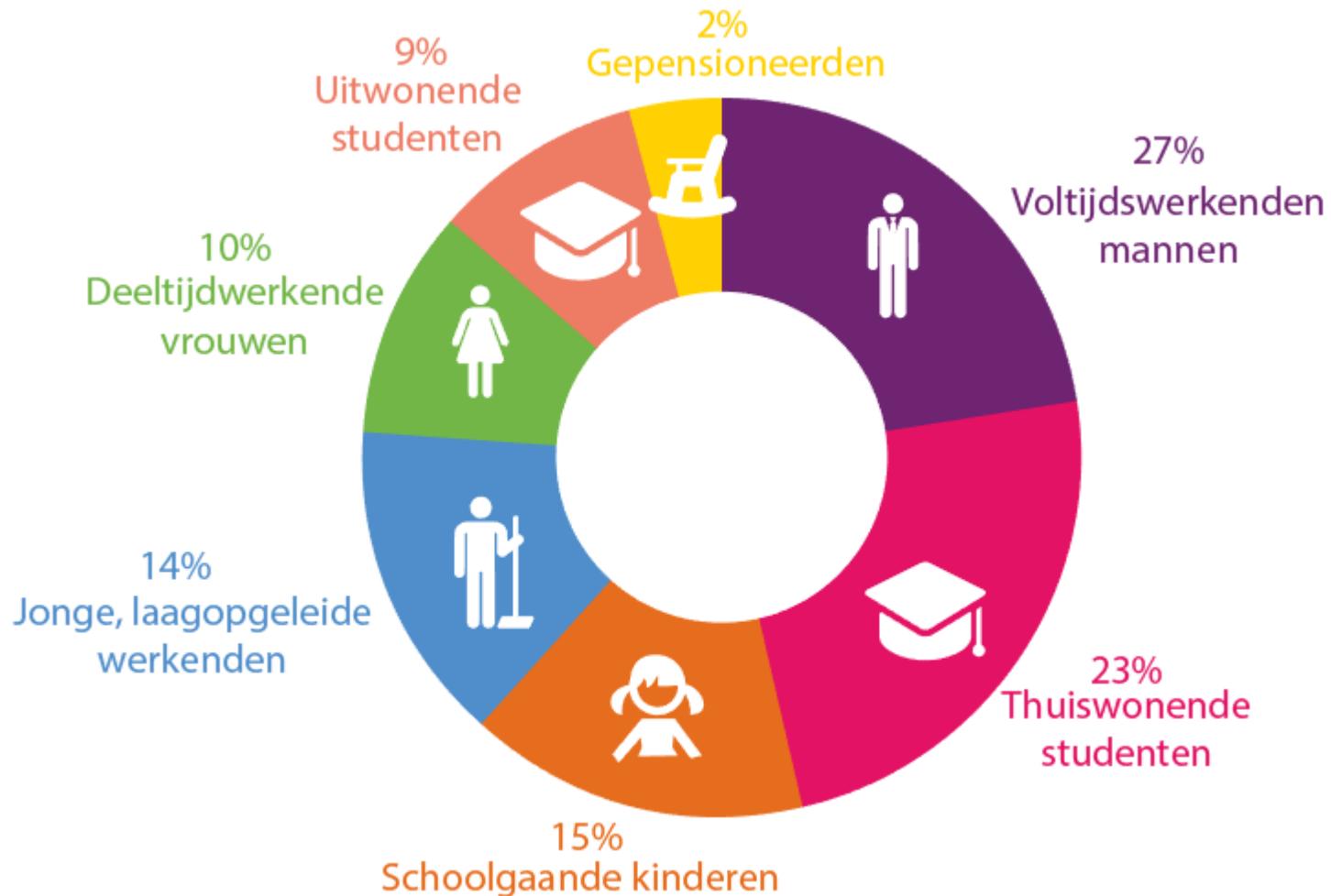
Uitdagingen

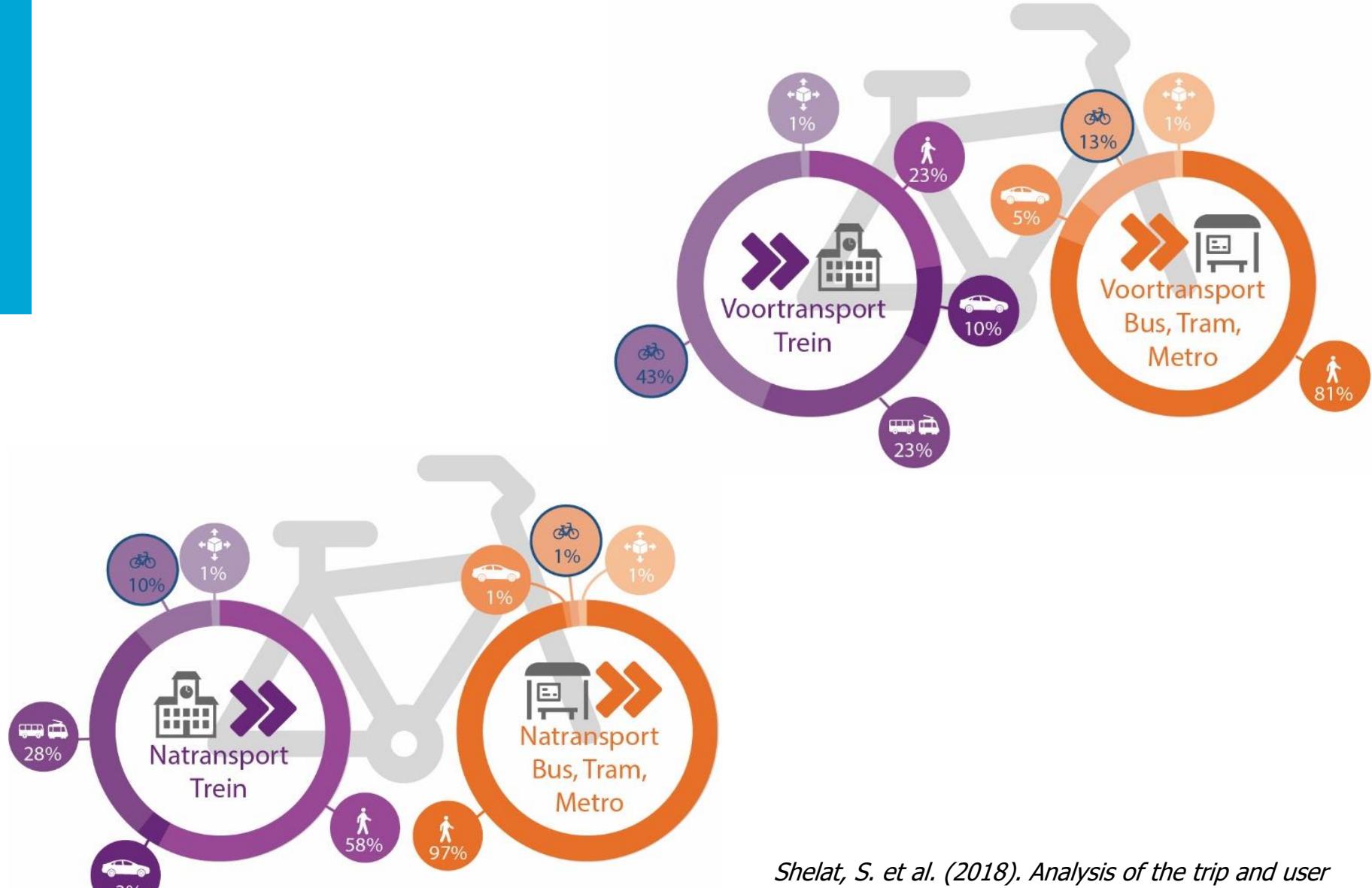


Integraal fiets+OV netwerk

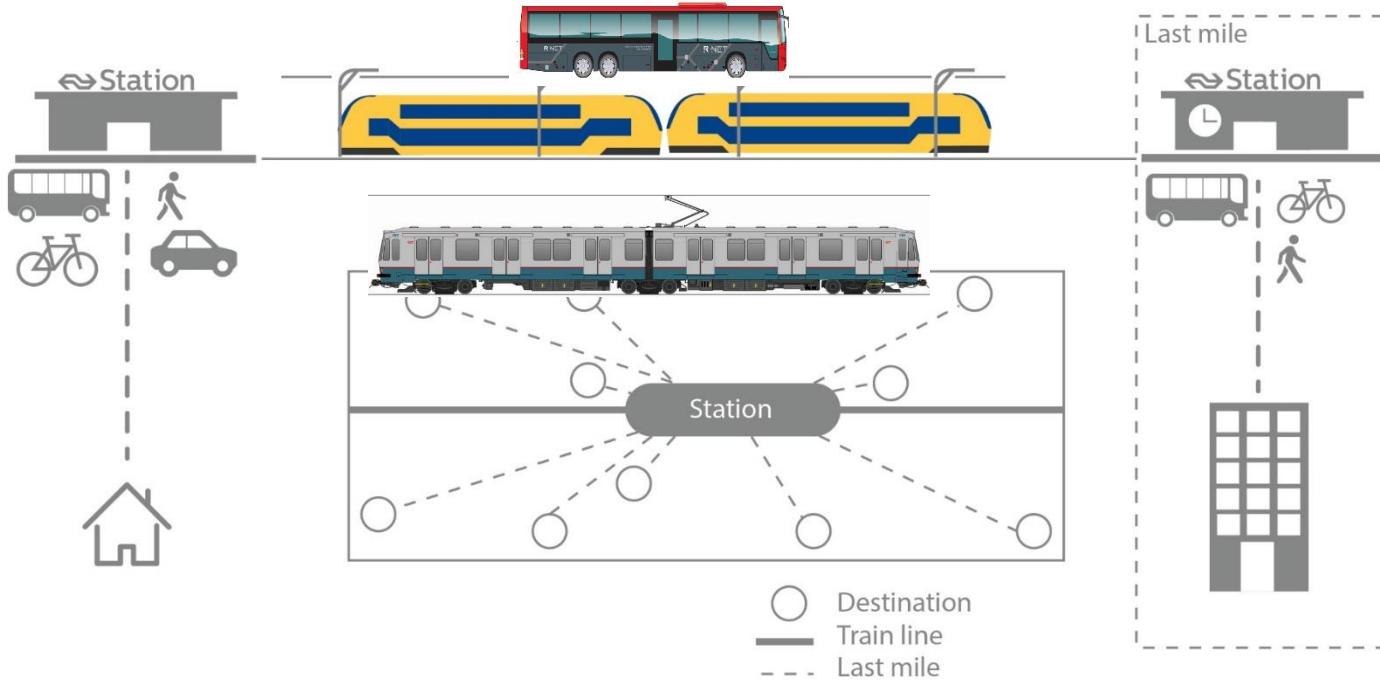


Wie is de OV+Fietser (latent class)?



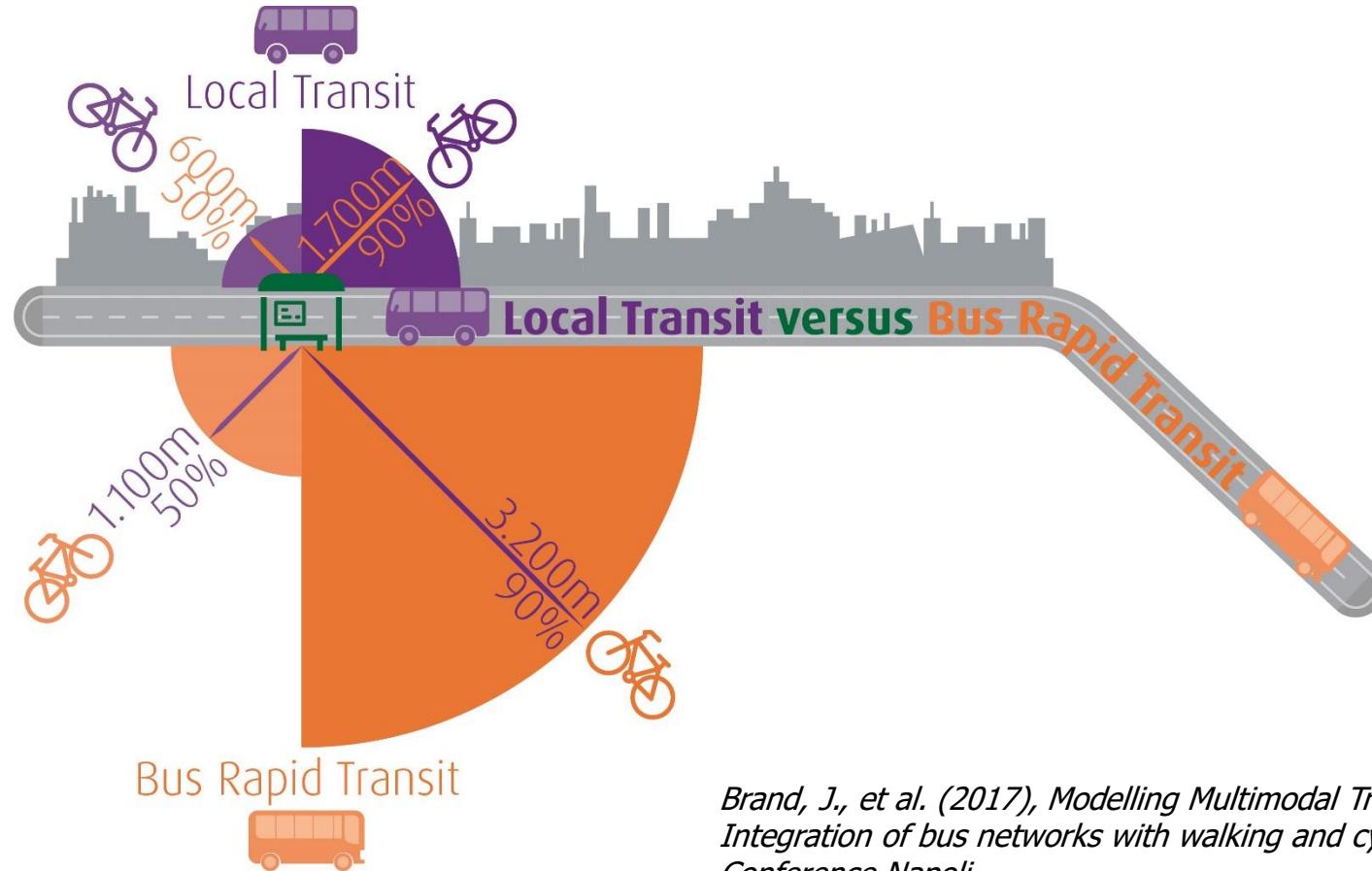


Shelat, S. et al. (2018). Analysis of the trip and user characteristics of the combined bicycle and transit mode. *Research in Transportation Economics.*

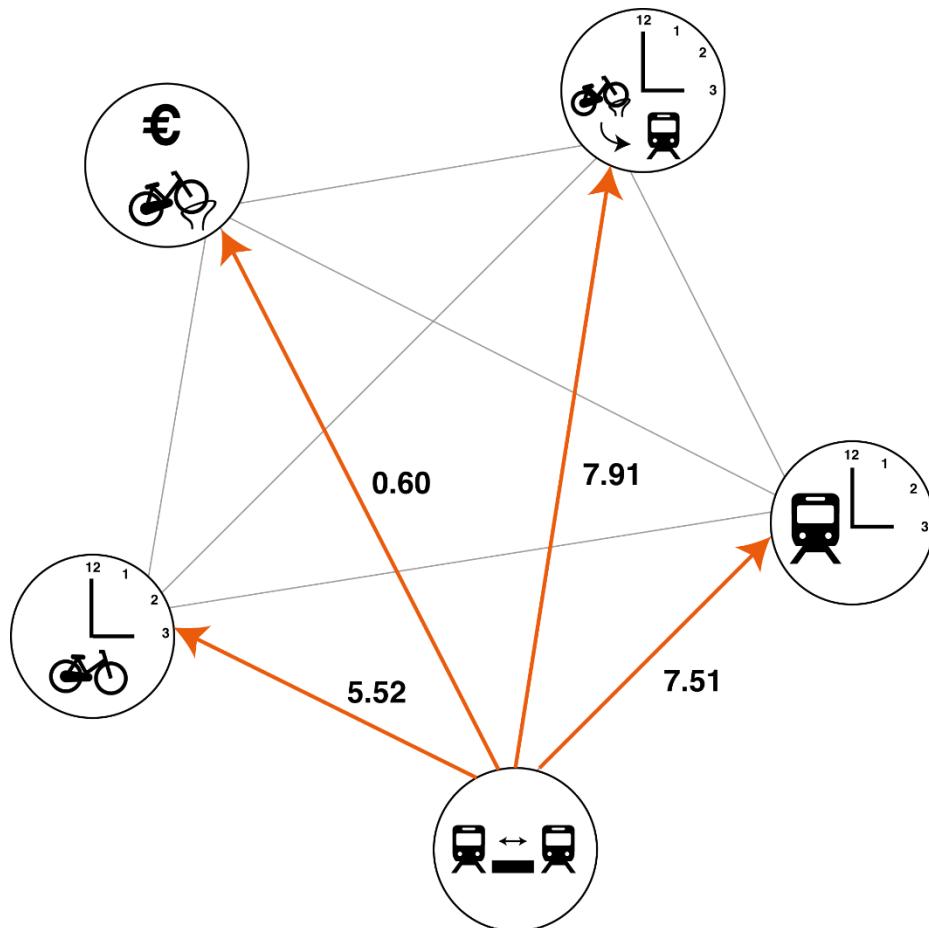


*Scheltes et al 2017
Van Oort 2018*

Kwaliteit van OV en fietsafstand

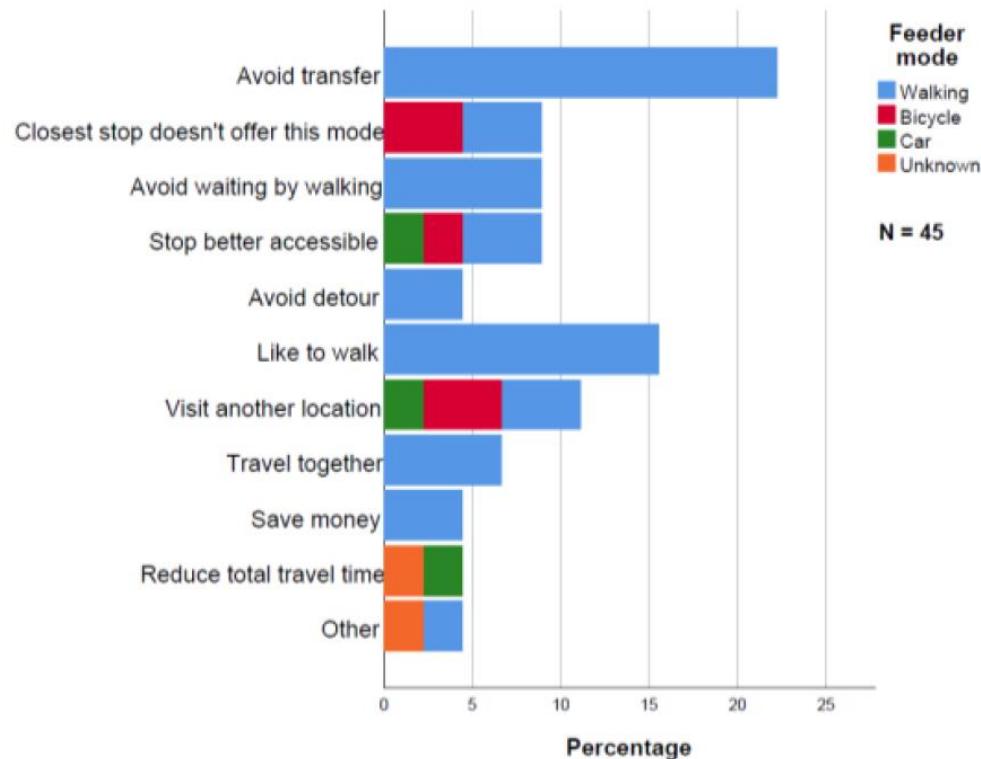


Uitruilen OV overstap



Van Mil, J.F.P., T.S. Leferink, J.A. Annema, N. van Oort (2018). Insights into factors affecting the combined bicycle-transit mode. CASPT conference, Brisbane.

Vergroten voedingsgebied



Rijsman, L., N. van Oort, D. Ton, S. Hoogendoorn, E. Molin, T. Teijl (2019), Walking and bicycle catchment areas of tram stops: factors and insights, Proceedings of IEEE MT-ITS conference, Krakow

Last mile: deelfietsen



- > 1600 systemen wereldwijd
- > 350 under construction in meer dan 50 landen



[Boor et al. (2019)]

Delftse deelfietslessen



Mobike Delft 17 september 2018



Average daily trips/ bicycle:

1.6.

Ca 20% link met stations

Avg daily trips/ active bicycle:

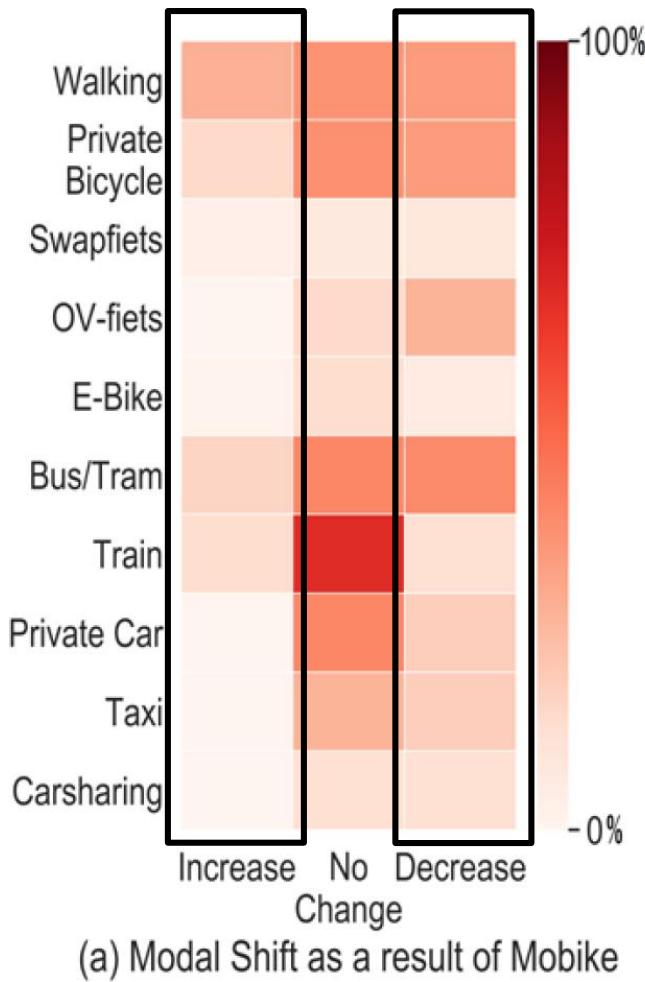
2.5-3.8

Boor et al.
(2019)

Avg trip length:

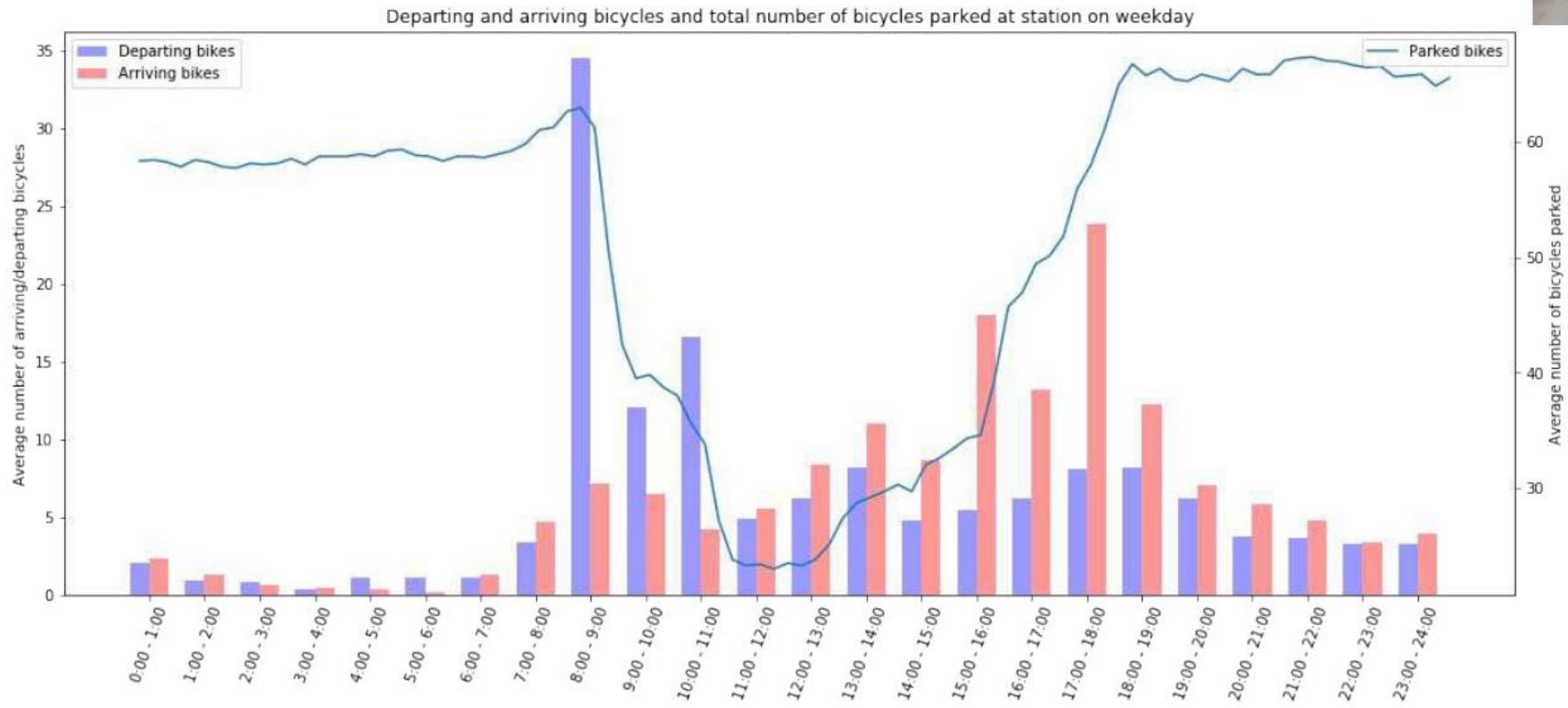
1.7- 2.3 km

Modal shift?



Ma et al. (2020)

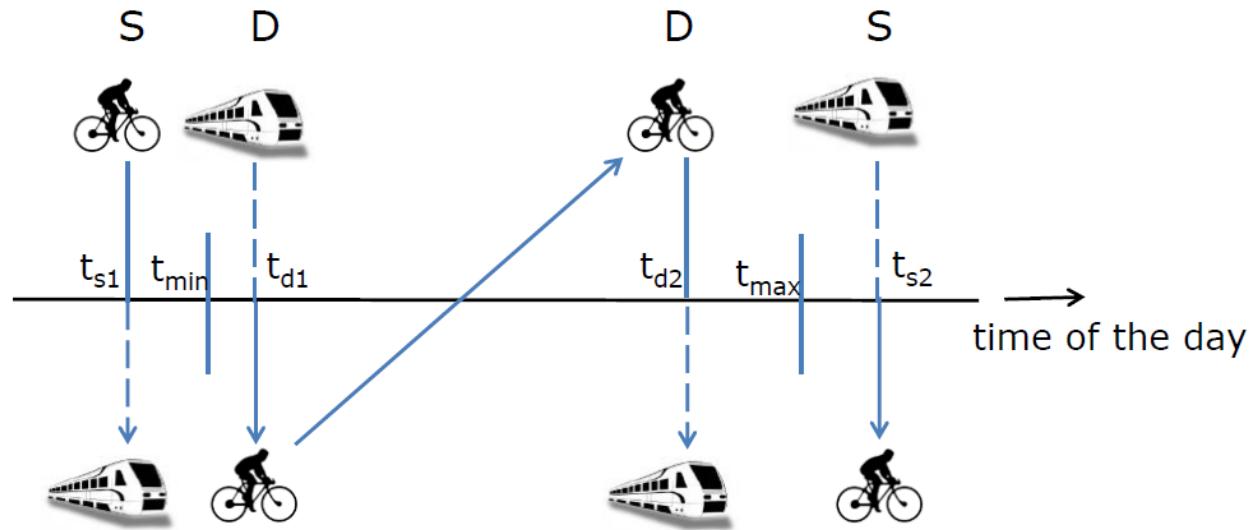
Stallingsdruk



Boor et al. 2019

Toekomst: 5de generatie?

Peer-peer bike sharing



5-20% reductie
stallingscapaciteit

Correia et al. (2018), Potential of peer-to-peer bike sharing for relieving bike parking capacity problems at railway stations

Nalezen?

<http://nielsvanoort.weblog.tudelft.nl/>

Brand, J., N. van Oort, B. Schalkwijk, S. Hoogendoorn (2017), Modelling Multimodal Transit Networks; Integration of bus networks with walking and cycling, MT-ITS Conference Napoli.

Boor, S., R. Haverman, N. van Oort, S. Hoogendoorn (2019), Ridership impacts of the introduction of a dockless bike-sharing scheme, a data-driven case study, CRB annual meeting

Correia et al. (2018), Potential of peer-to-peer bike sharing for relieving bike parking capacity problems at railway stations

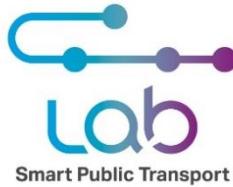
Ma, X, Y. Yuan, N. van Oort, S. Hoogendoorn (2020), Investigating Impact of Bike-sharing Systems on Modal Shift: A Case Study in Delft, the Netherlands, TRB annual meeting

Rijsman et al. (2019). Walking and bicycle catchment areas of tram stops: factors and insights. MT-ITS conference

Shelat, S., R. Huisman, N. van Oort (2018). *Analysis of the trip and user characteristics of the combined bicycle and transit mode. Research in Transportation Economics.*

Van Mil, J.F.P., T.S. Leferink, J.A. Annema, N. van Oort (2018). Insights into factors affecting the combined bicycle-transit mode. CASPT conference, Brisbane.

Questions / Contact



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www.smartPTlab.tudelft.nl

<https://www.tudelft.nl/en/ceg/active-mode-lab>

<http://nielsvanoort.weblog.tudelft.nl/>