

Supporting transit and cycling in small and medium sized cities in the Netherlands

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AQTr – Montréal

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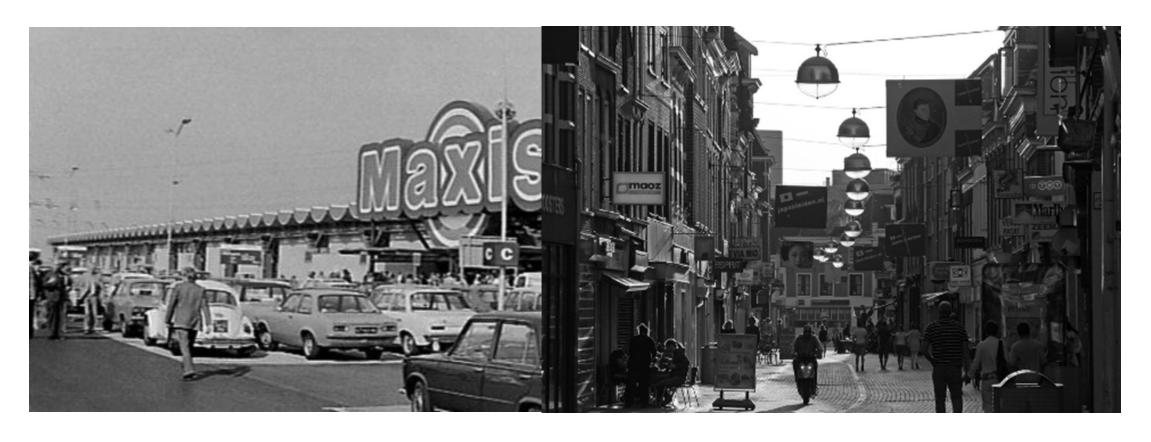




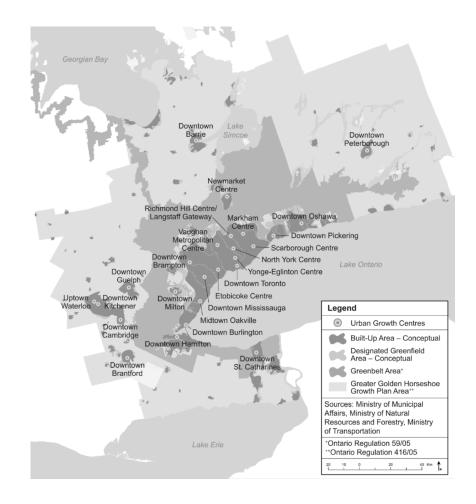
# Why do Dutch people cycle so much?



## Planning law: No big box retail for daily shopping







**Greater Golden Horsehoe** 33.500 km<sup>2</sup> - 9.2 million inh.





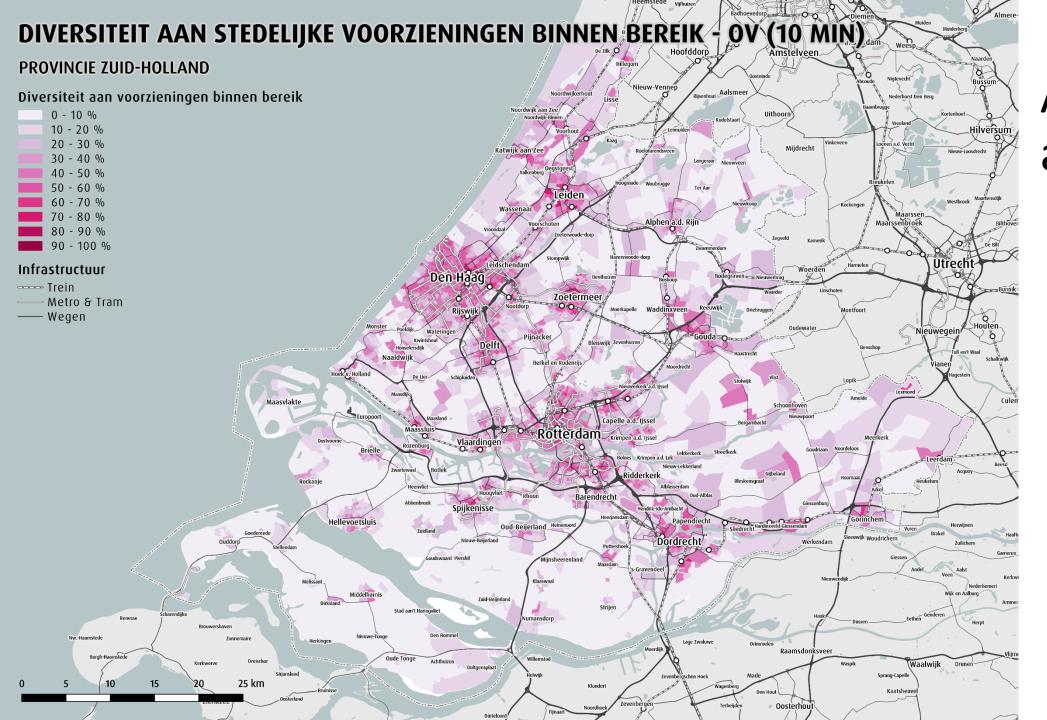
33.900 km<sup>2</sup> - 17.2 million inh.





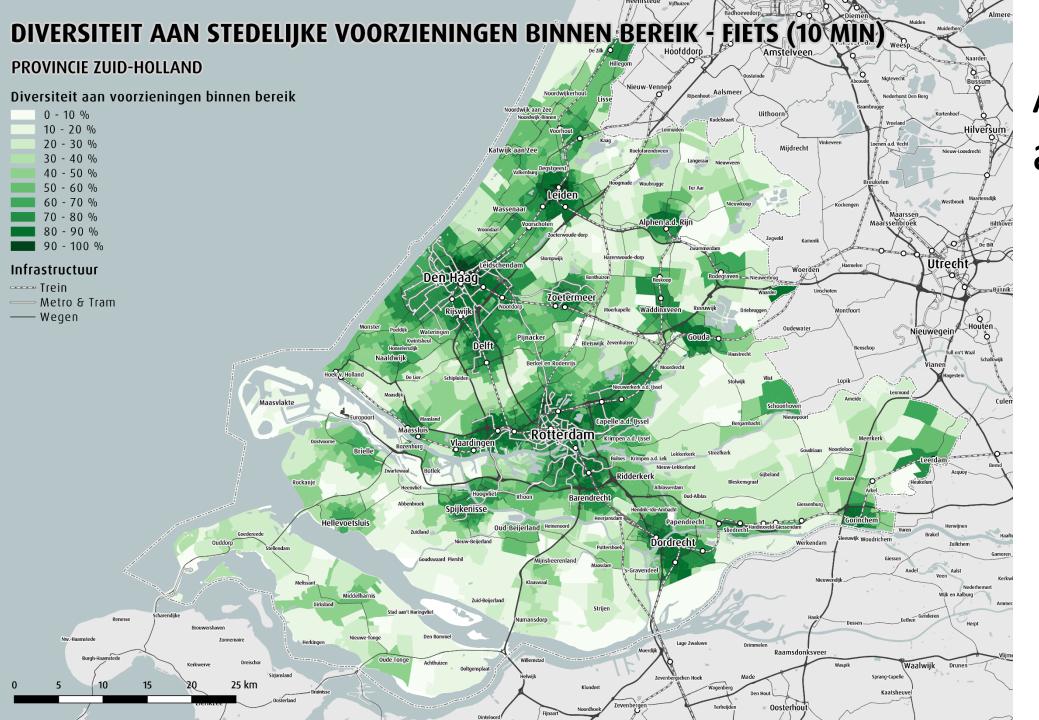






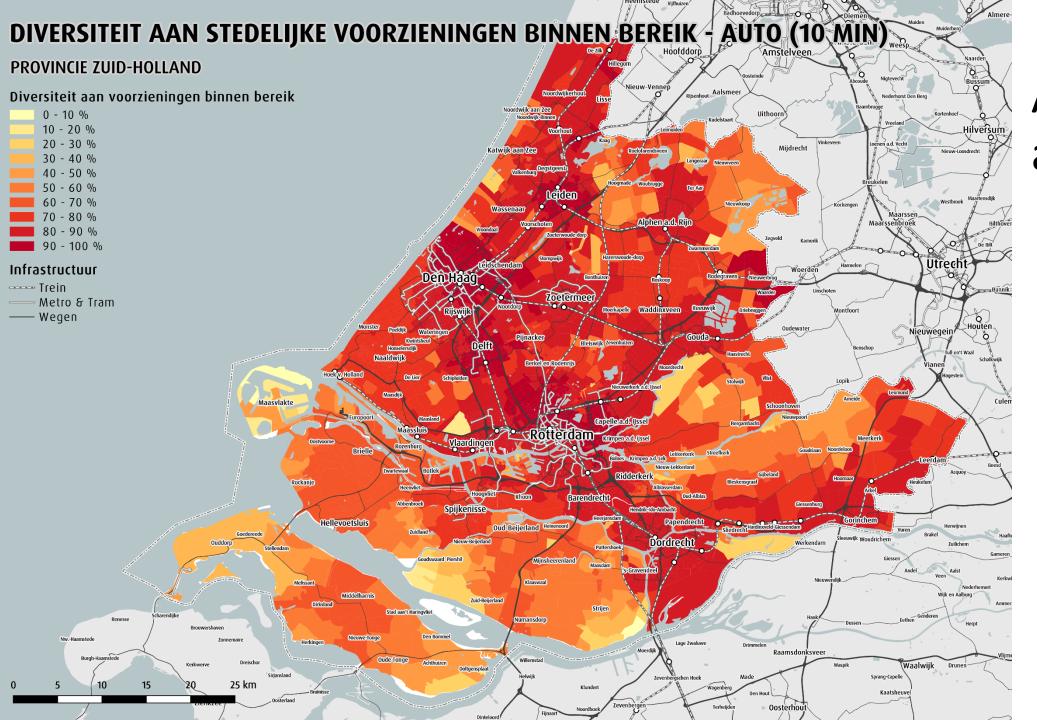
### Access to amenities





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#### Five strategies for small and medium sized cities

- Integrated planning
- Slow down the car (& retrofit land-use)
- Speed-up the bike
- Connect modes
- Community transit



### Integrated planning

#### Almere: The transit suburb



2x bus users compared to average suburb, but Loer share of cycling

#### Integrated planning

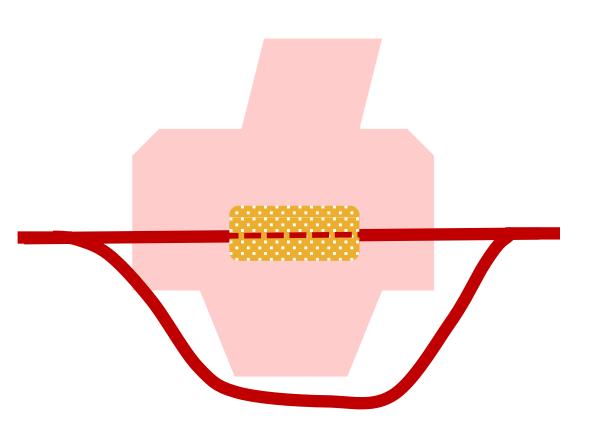
### Houten: The bicycle suburb







#### Slow the cars down Remove through traffic





### Slow the cars down Design for the right speed



Before 43 km/h

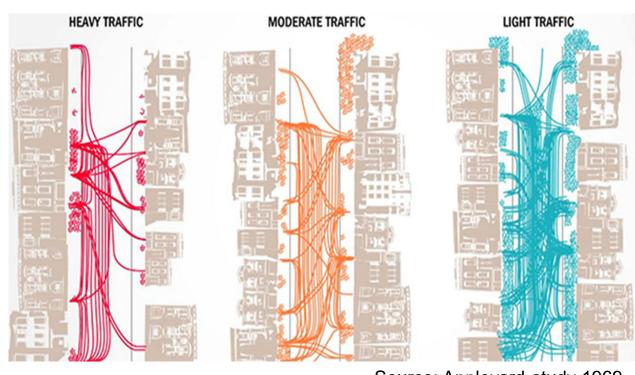


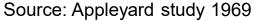
After 32 km/h 50% more cyclists

Source: Goudappel



### Slow the cars down Shared space





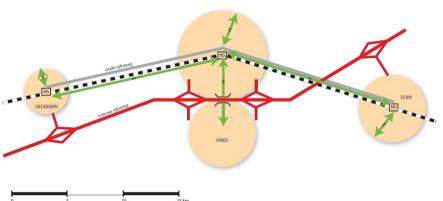






# Speed the bike up Bike highways & E-bike

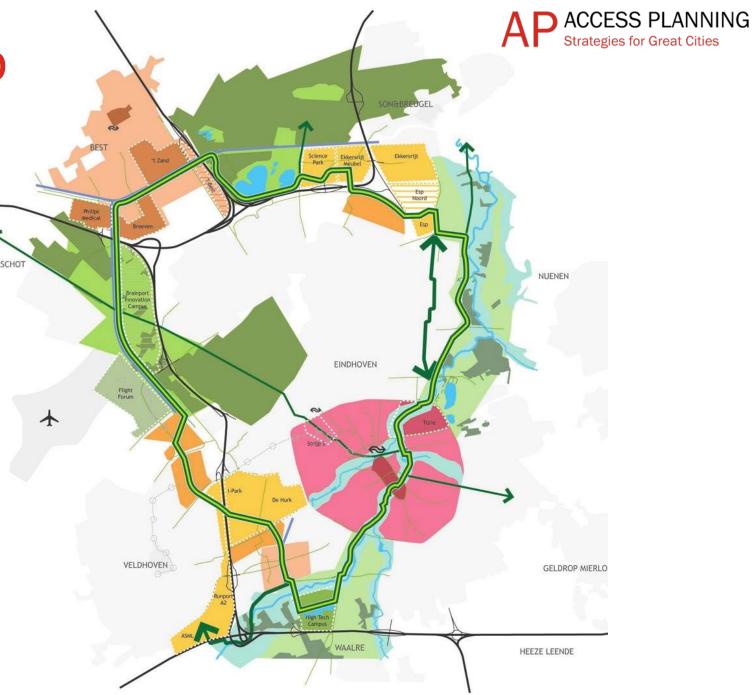






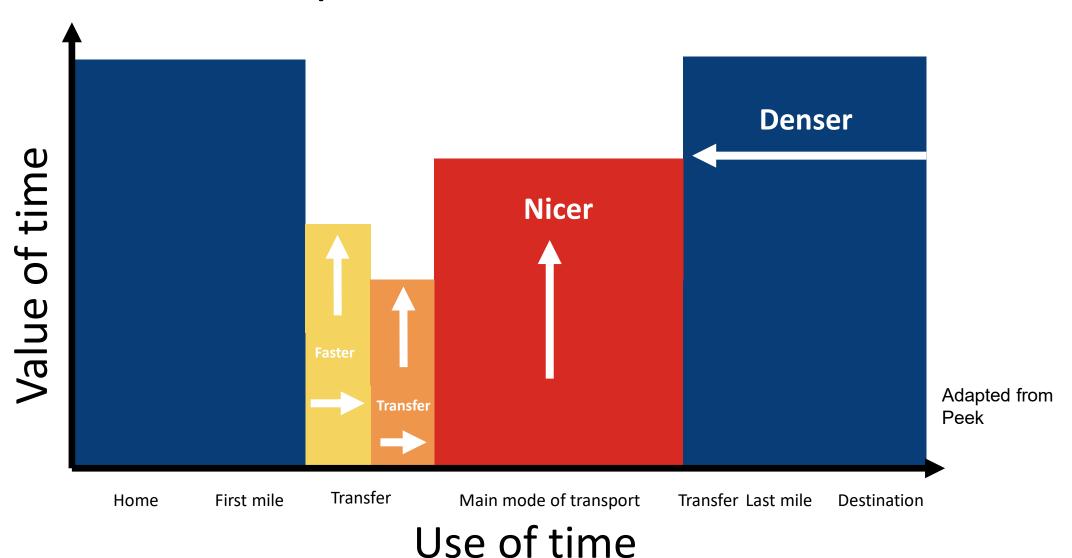
Speed the bike up Slowlanes







### Connecting modes A transit trip from home?





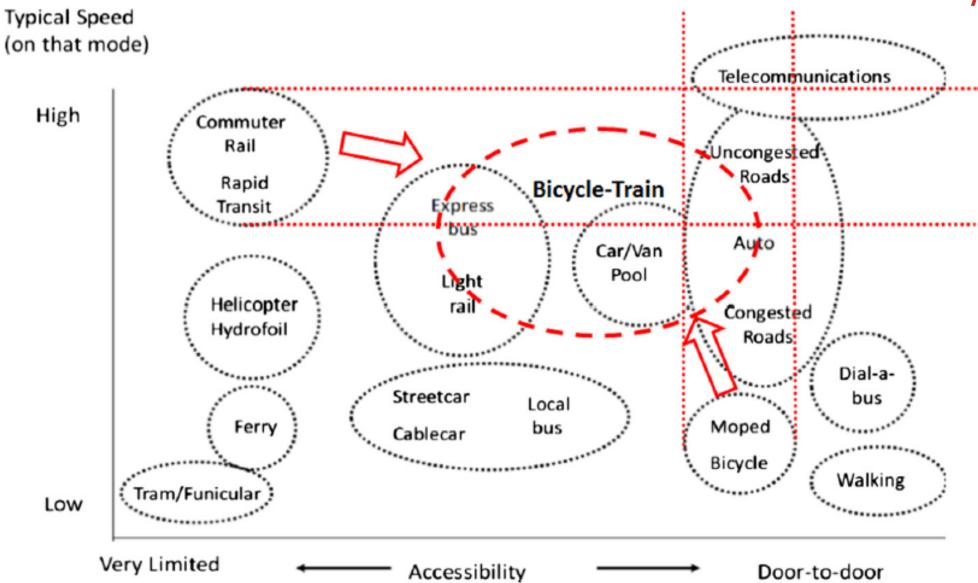
### Connecting modes Bike-train combination







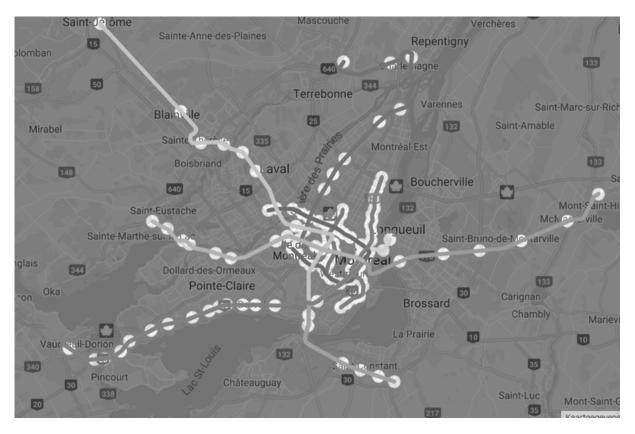


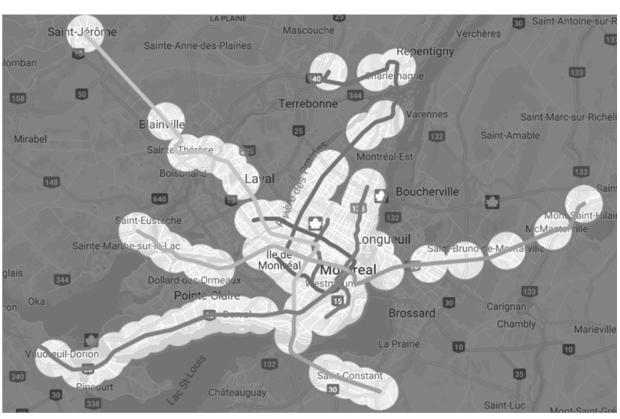


Source: Kager 2016 adapted from Meyer and Miller



### Connecting modes Bike-train combination





Transit + 10 min. walking

Transit + 10 min. cycling

### Connecting modes Attractive hubs



P+R & & & &

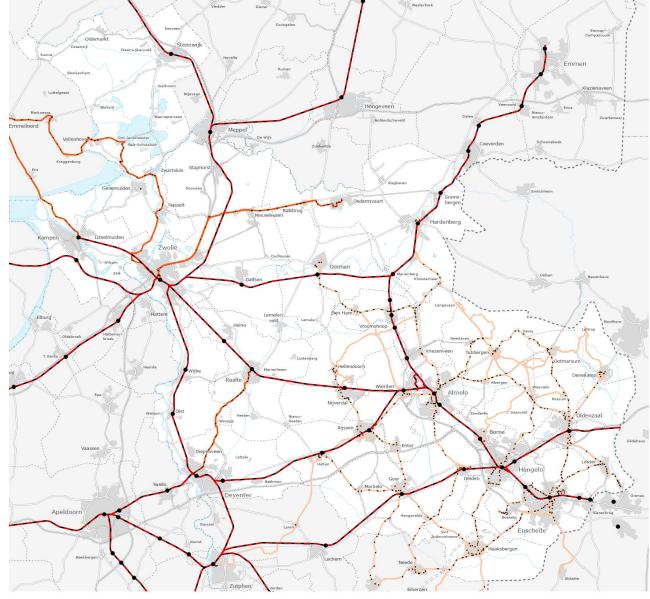
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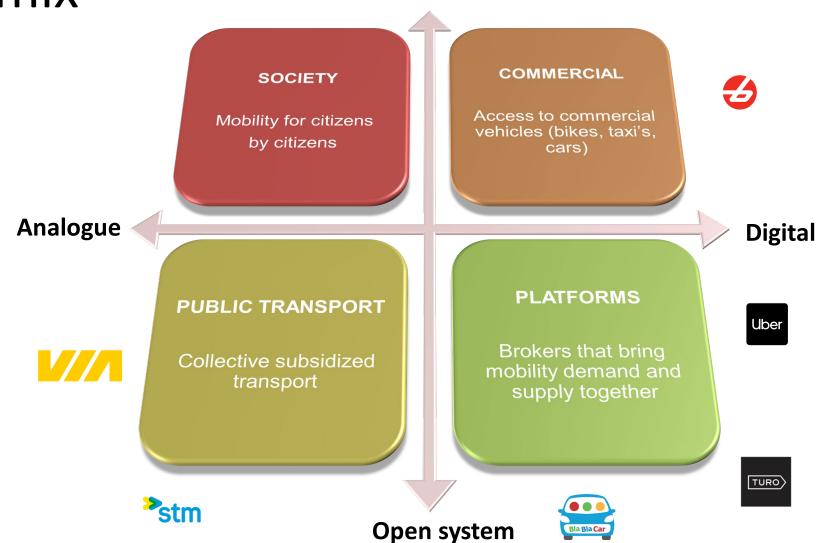


### Community transit Trial and error





#### Community transit Finding a new mix



**Closed system** 

**Communauto** 

# Community transit<br/>Village ride sharing







#### To summarize

Short trips <5 km	Slow down the car	Community transit	Integrated planning
Longer trip >5 km	Speed up the bike	Connect modes	Integrated planning

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