



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

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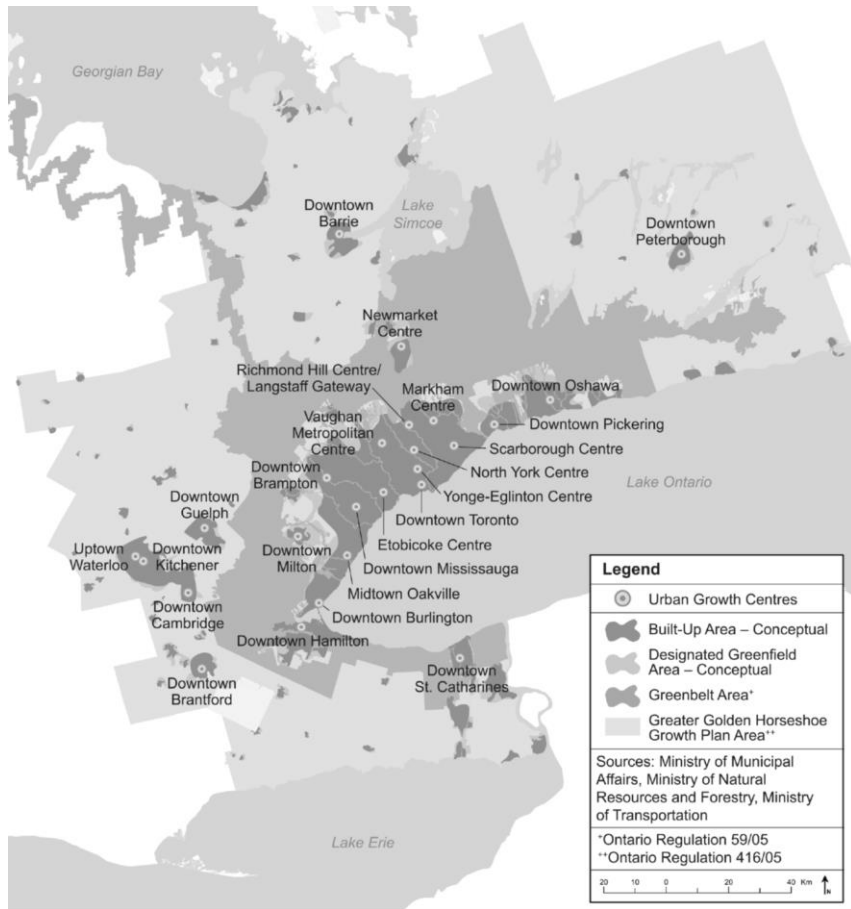
February 19th



Why do Dutch people cycle so much?

Planning law: No big box retail for daily shopping





Greater Golden Horseshoe
33.500 km² - 9.2 million inh.

Netherlands
33.900 km² - 17.2 million inh.

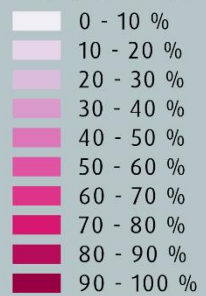


Source: Canada TTS 2016, Netherlands - CBS 2016

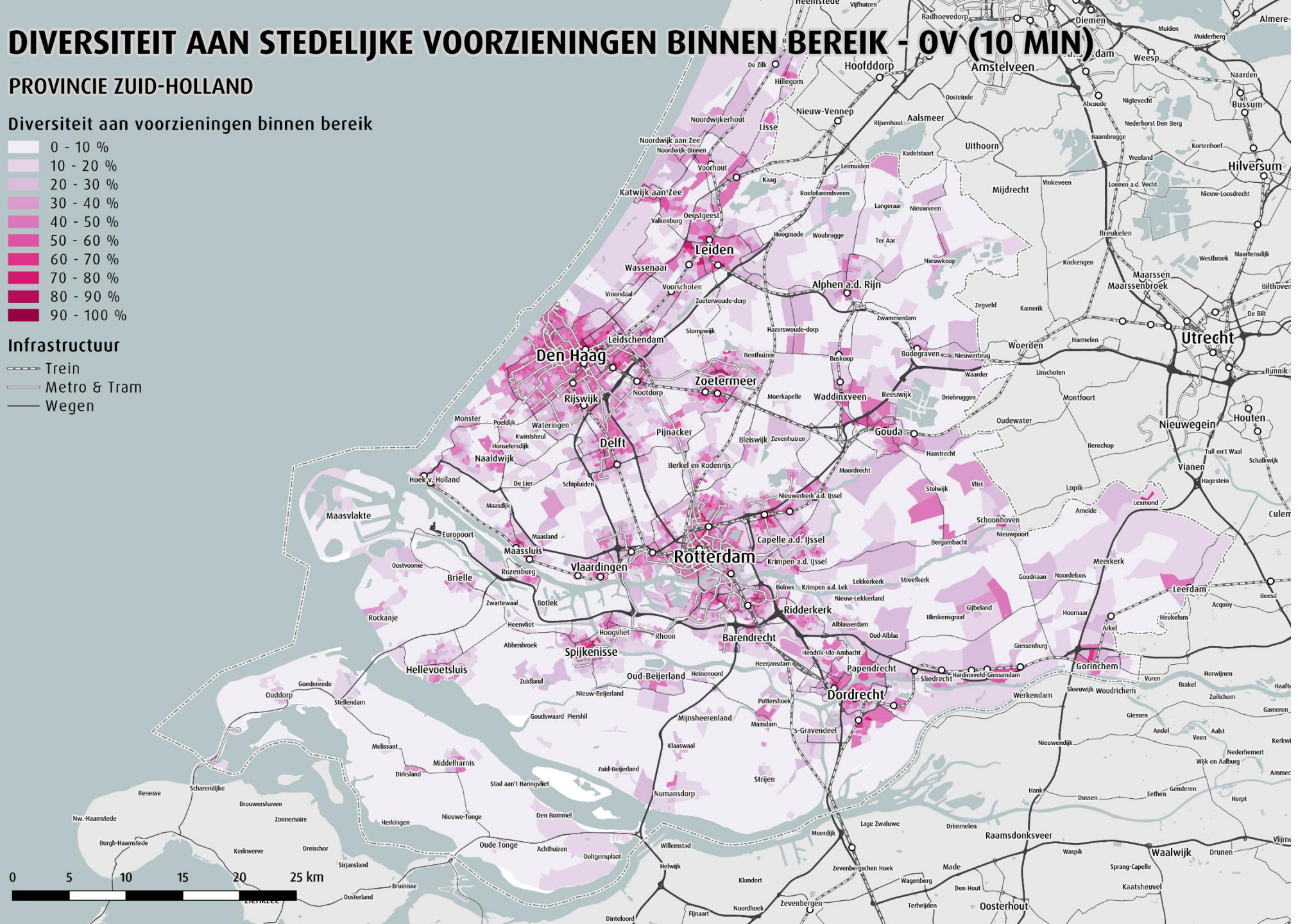
DIVERSITEIT AAN STEDELIJKE VOORZIENINGEN BINNEN BEREIK - OV (10 MIN)

PROVINCIE ZUID-HOLLAND

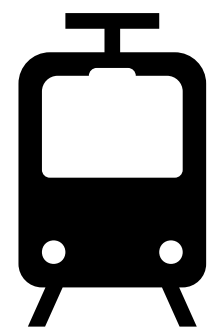
Diversiteit aan voorzieningen binnen bereik



Infrastructuur



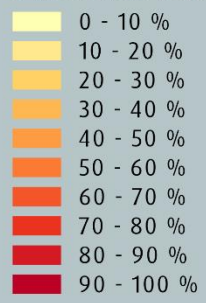
Access to amenities



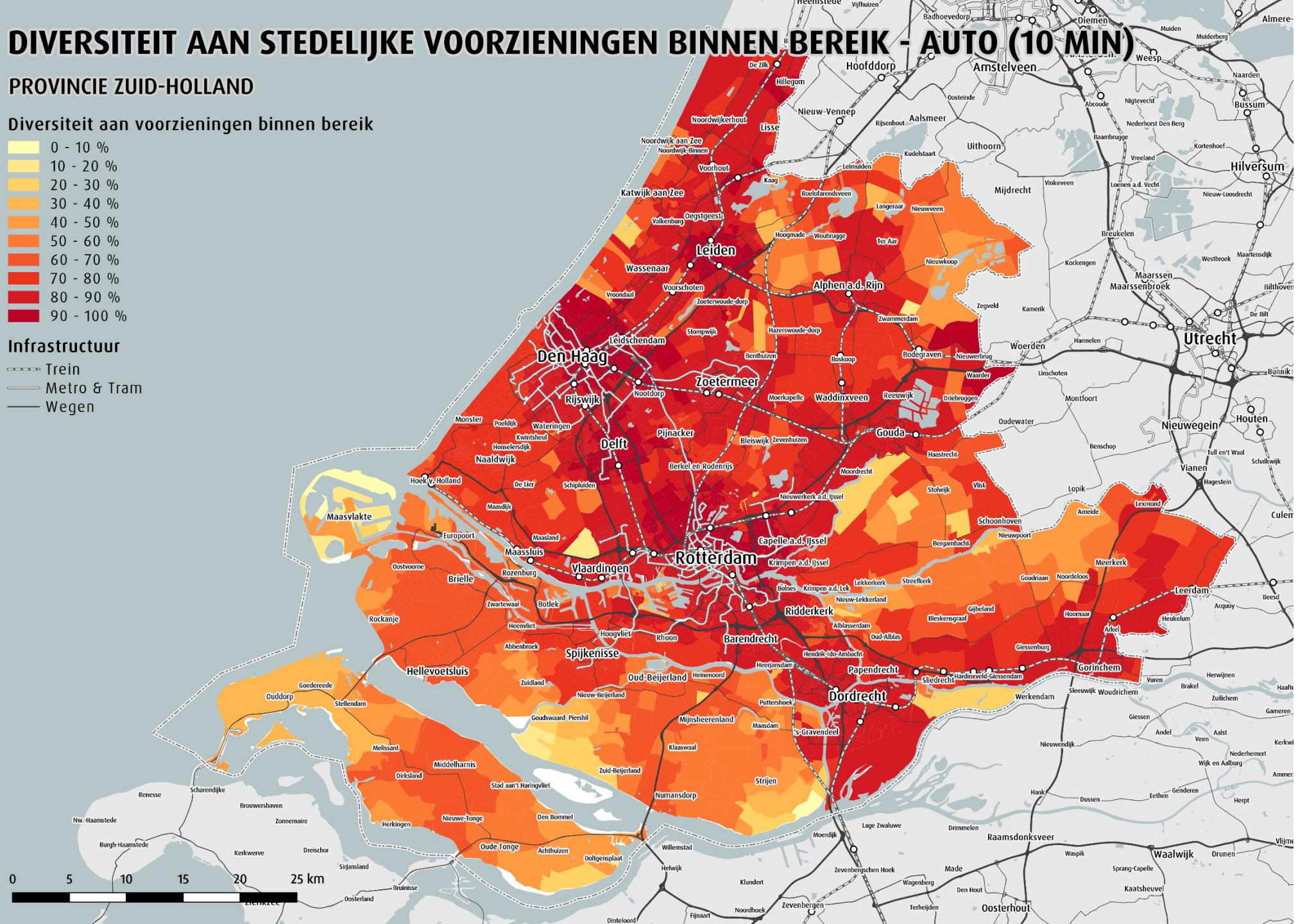
DIVERSITEIT AAN STEDELIJKE VOORZIENINGEN BINNEN BEREIK - AUTO (10 MIN)

PROVINCIE ZUID-HOLLAND

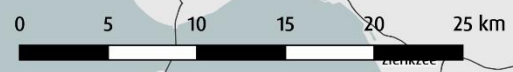
Diversiteit aan voorzieningen binnen bereik



Infrastructuur



Access to amenities

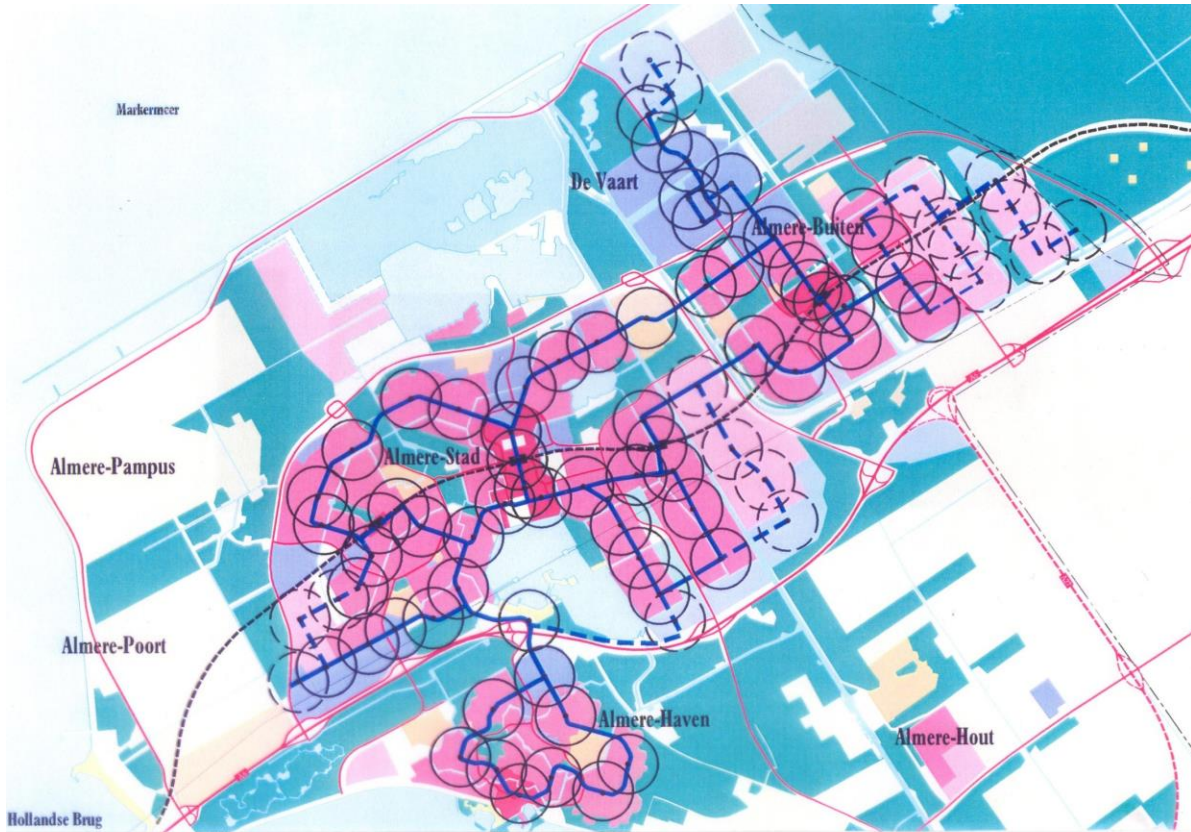


Five strategies for small and medium sized cities

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

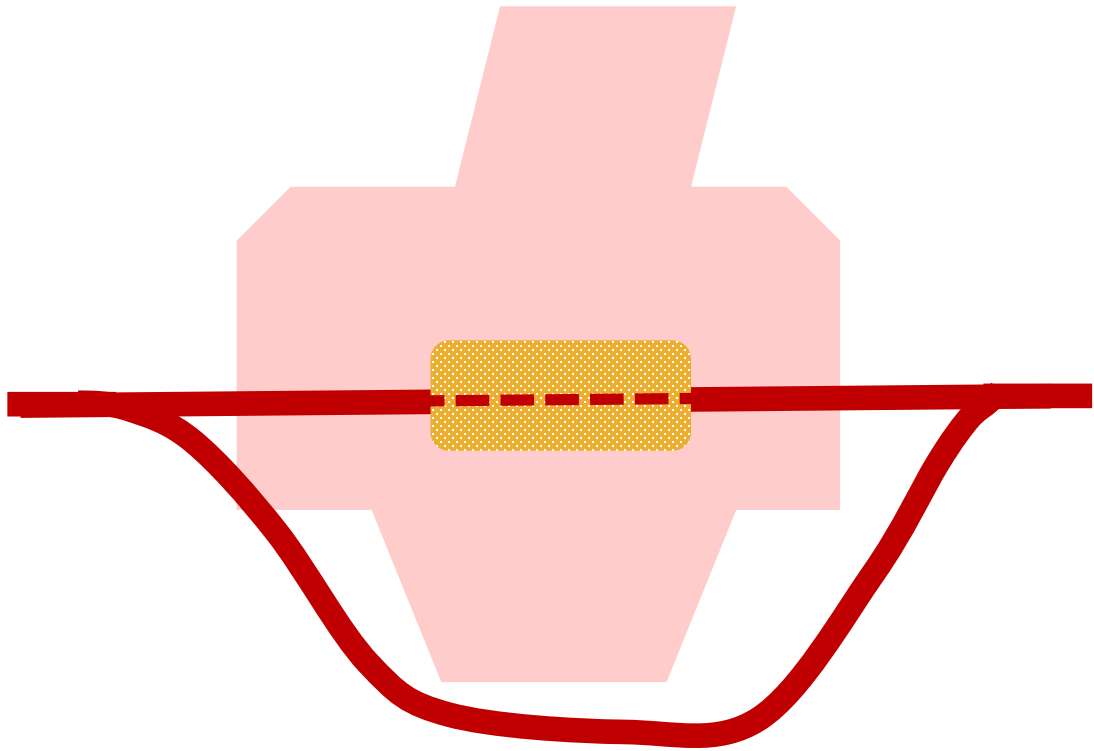
Integrated planning

Almere: The transit suburb



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

Slow the cars down Remove thru traffic



Slow the cars down

Design for the right speed



Before 43 km/h

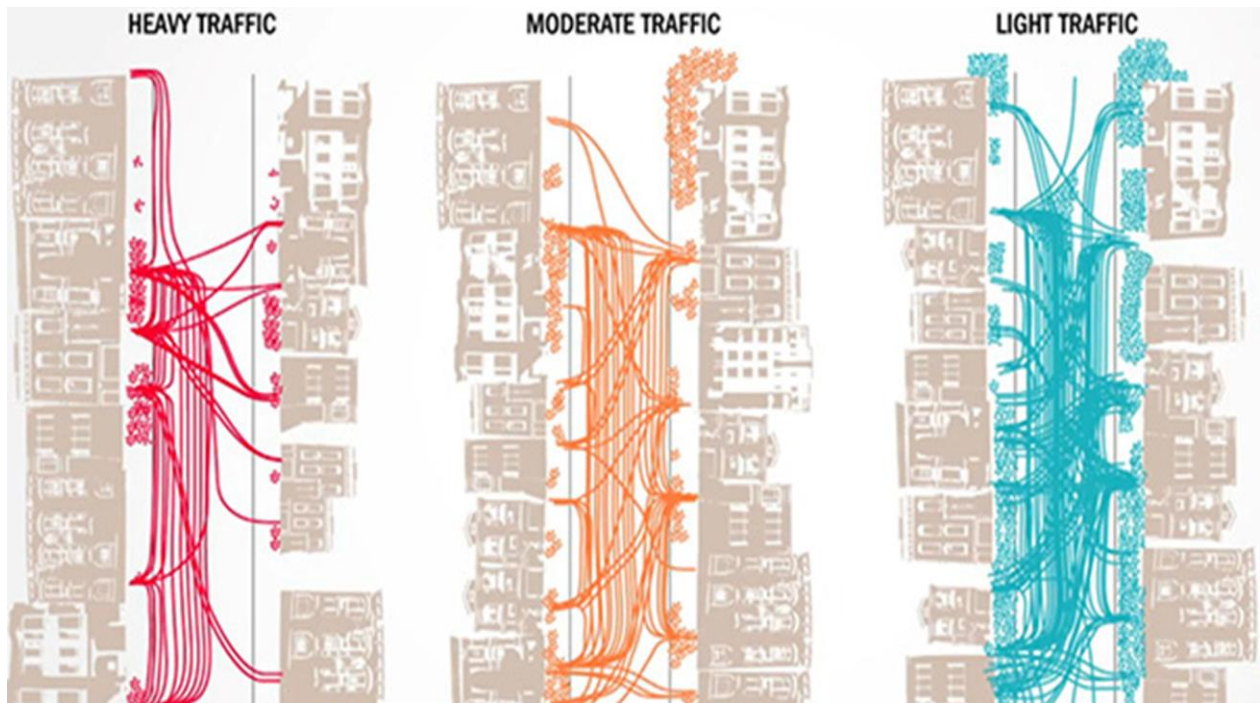


After 32 km/h
50% more cyclists

Source: Goudappel

Slow the cars down

Shared space

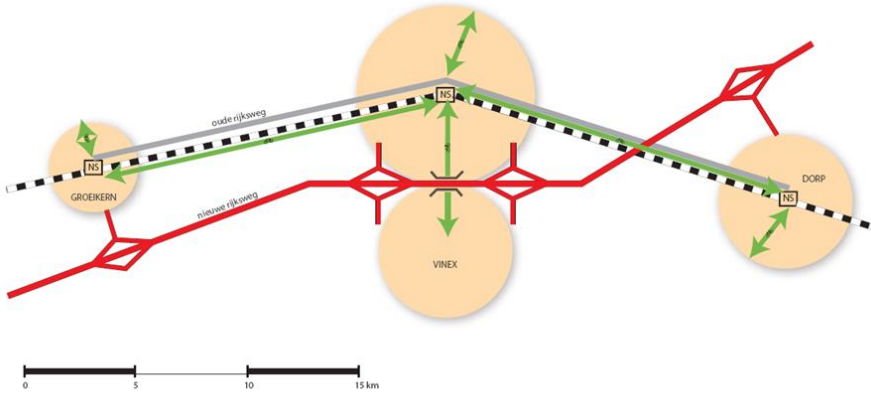


Source: Appleyard study 1969



Speed the bike up

Bike highways & E-bike



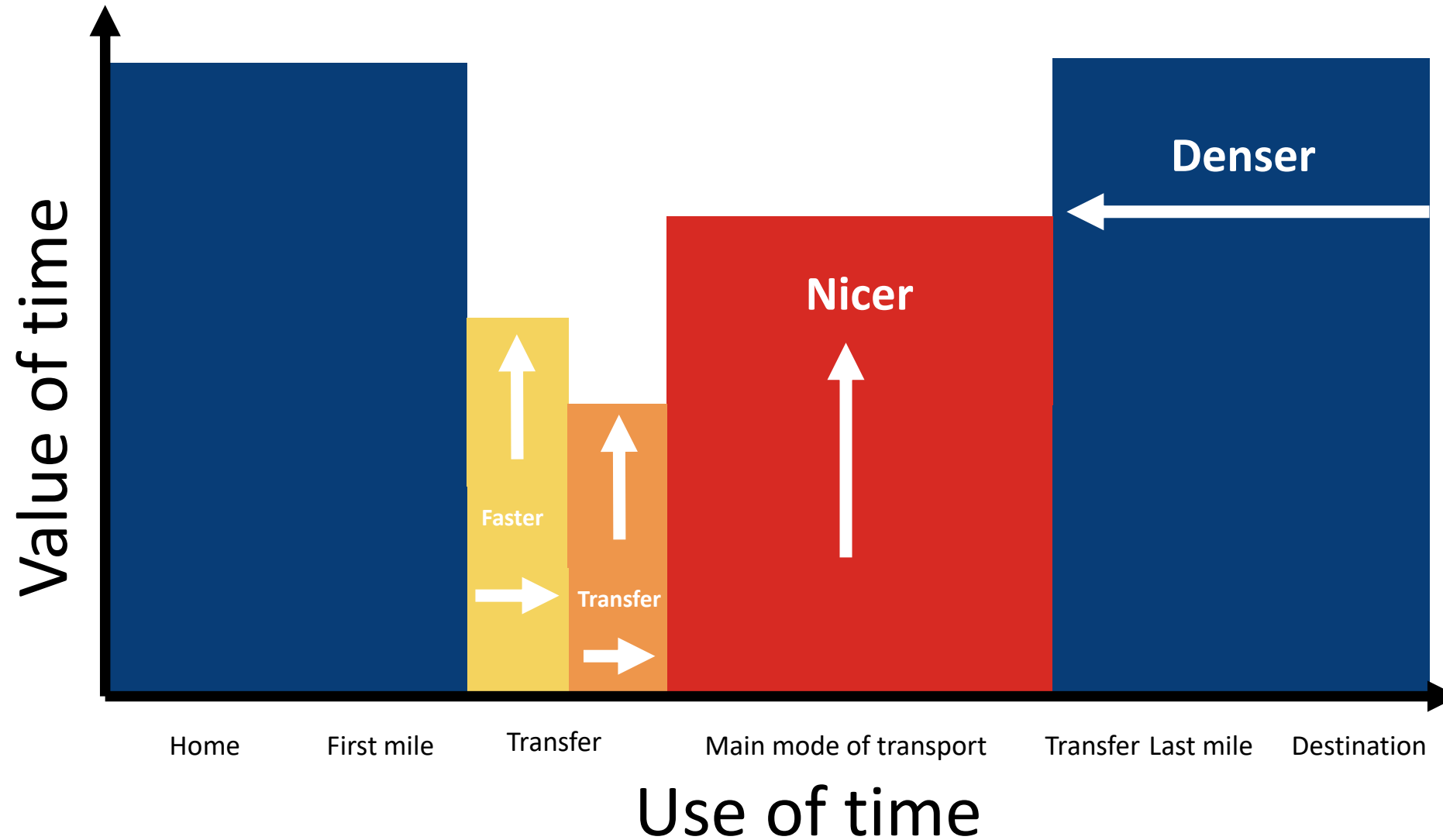
Speed the bike up

Slow lanes



Connecting modes

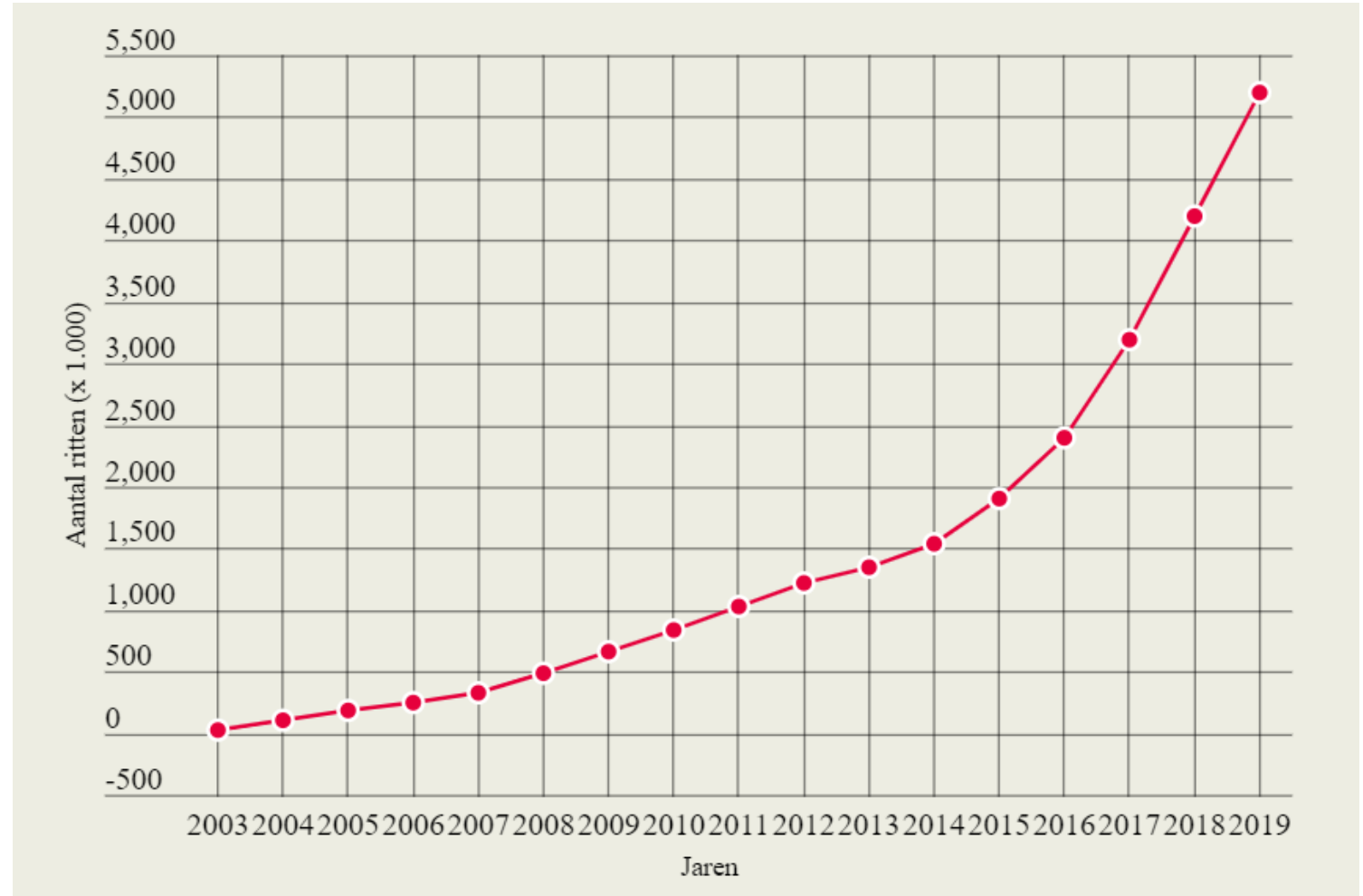
A transit trip from home?



Adapted from Peek

Connecting modes

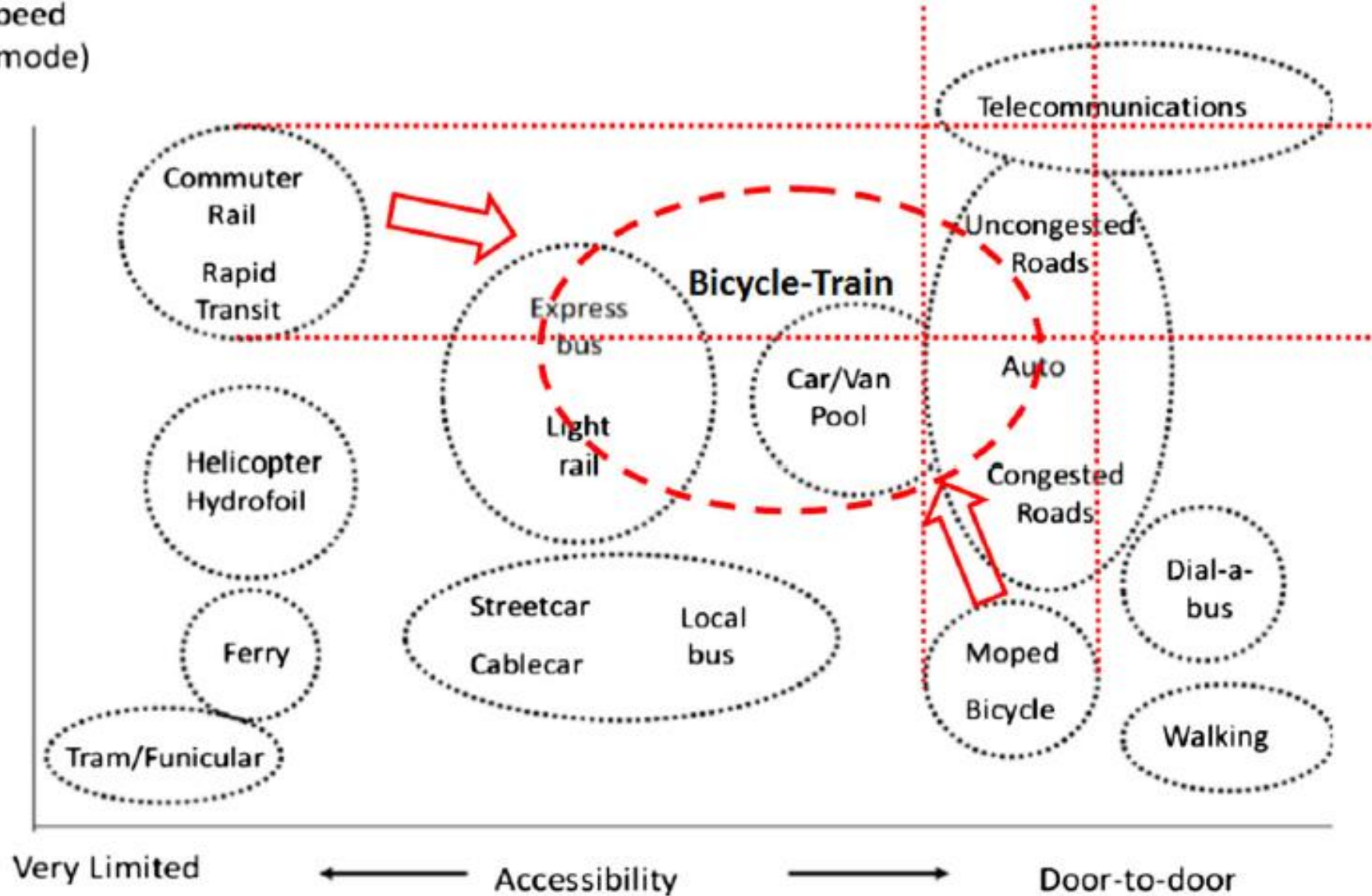
Bike-train combination



Typical Speed
(on that mode)

High

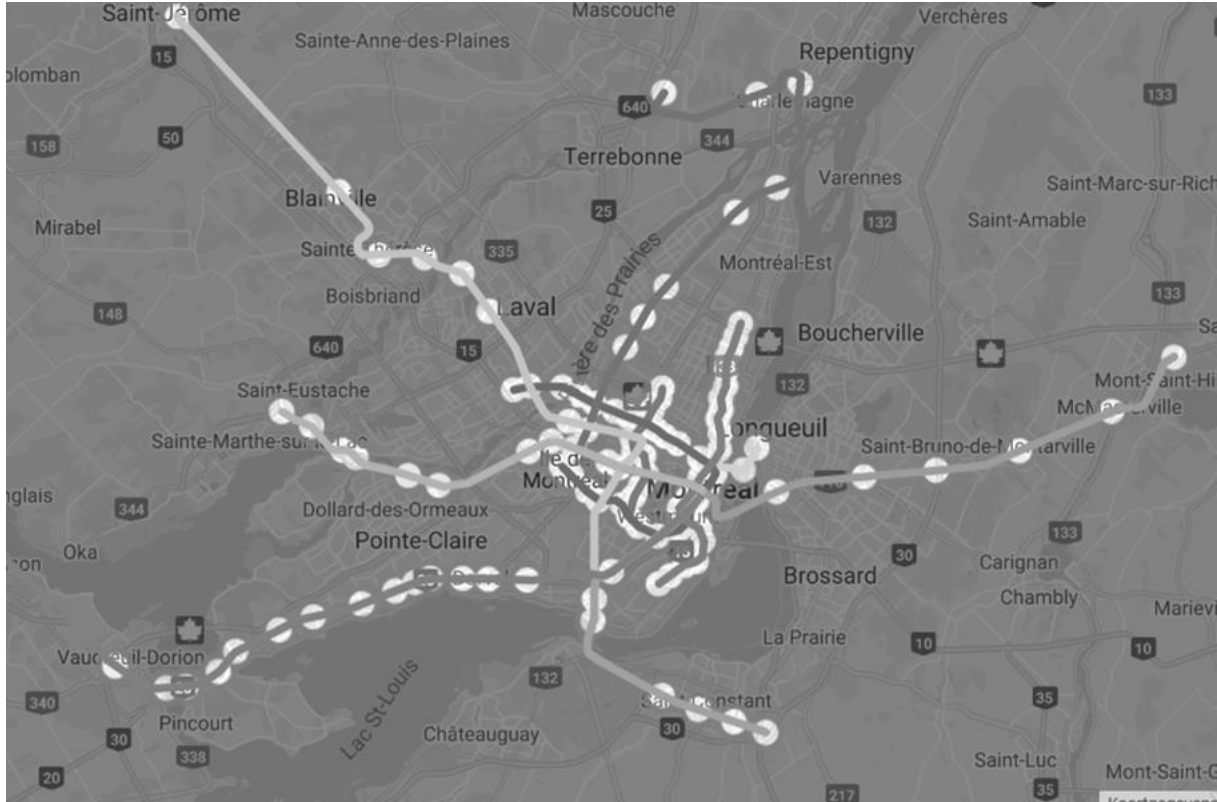
Low



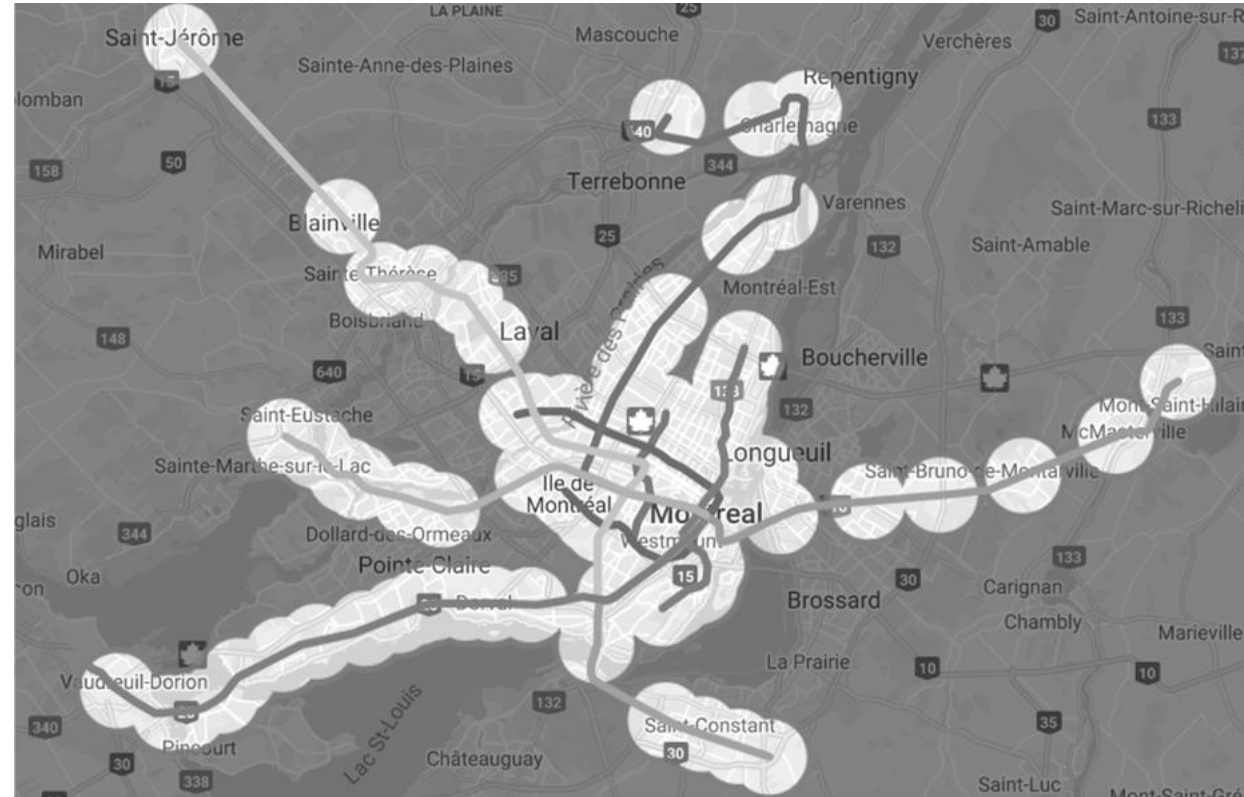
Source: Kager 2016 adapted from Meyer and Miller

Connecting modes

Bike-train combination



Transit + 10 min. walking



Transit + 10 min. cycling

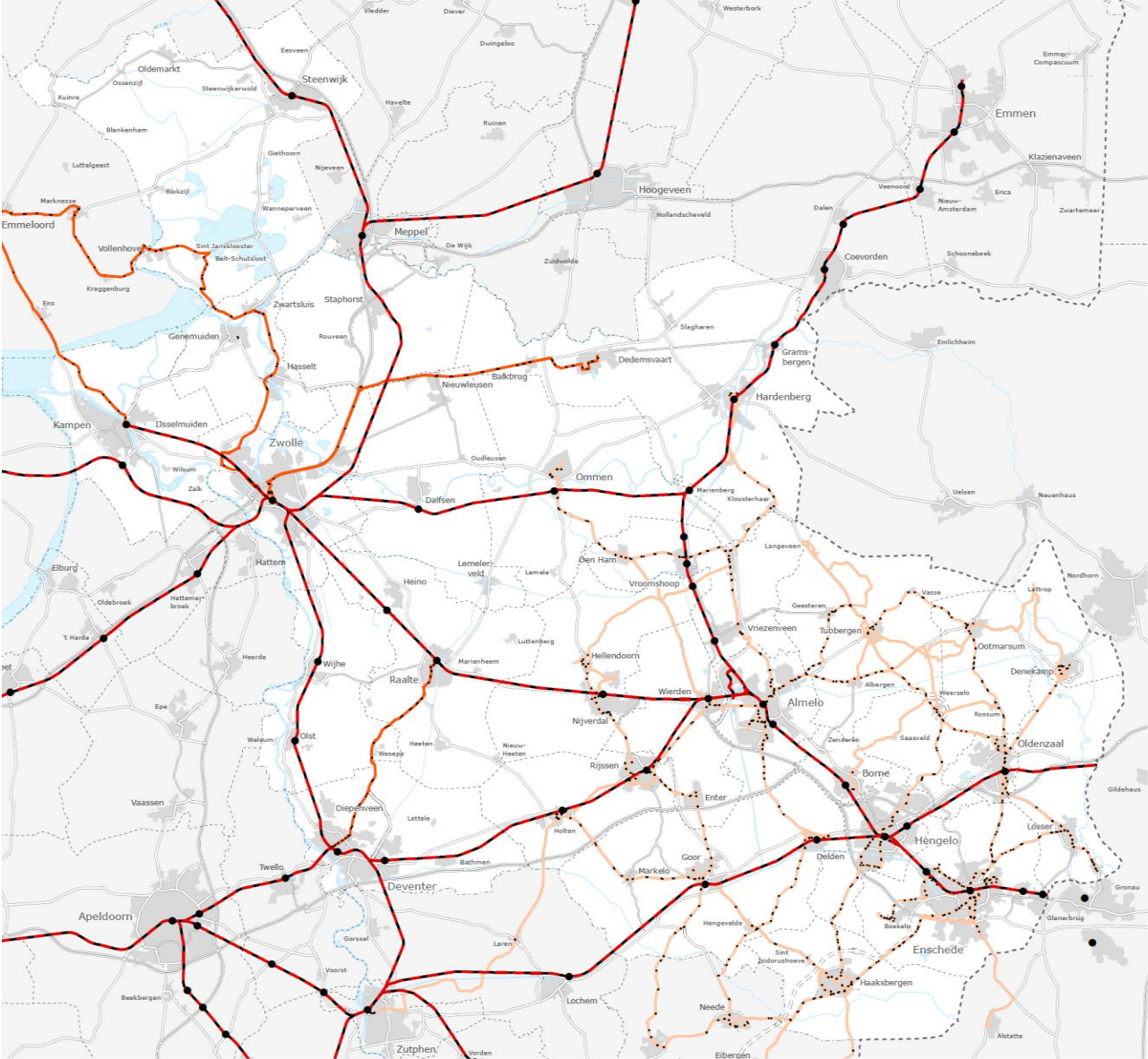
Connecting modes

Attractive hubs



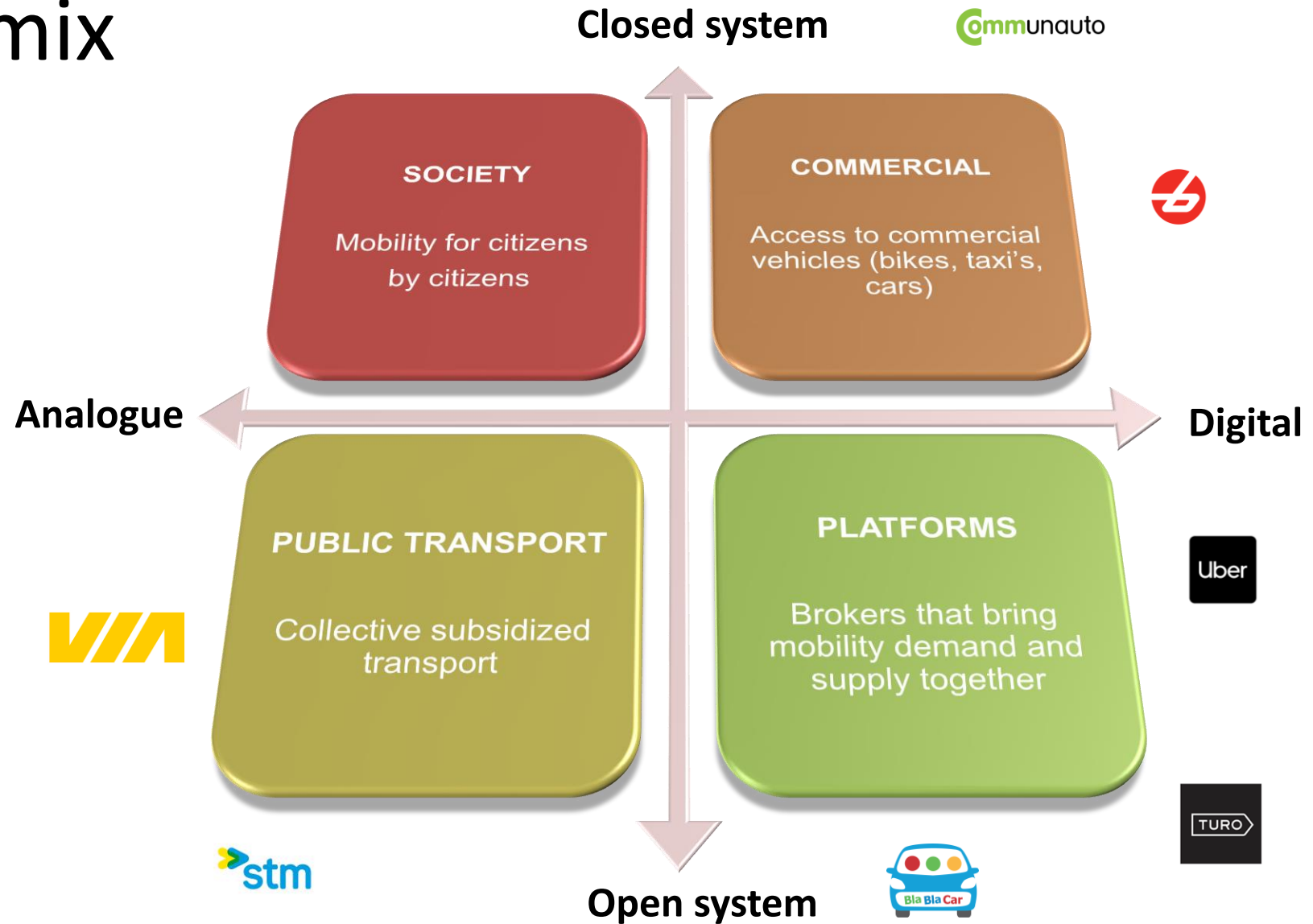
Community transit

Trial and error



Community transit

Finding a new mix



Community transit

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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