



Gemeente Amsterdam

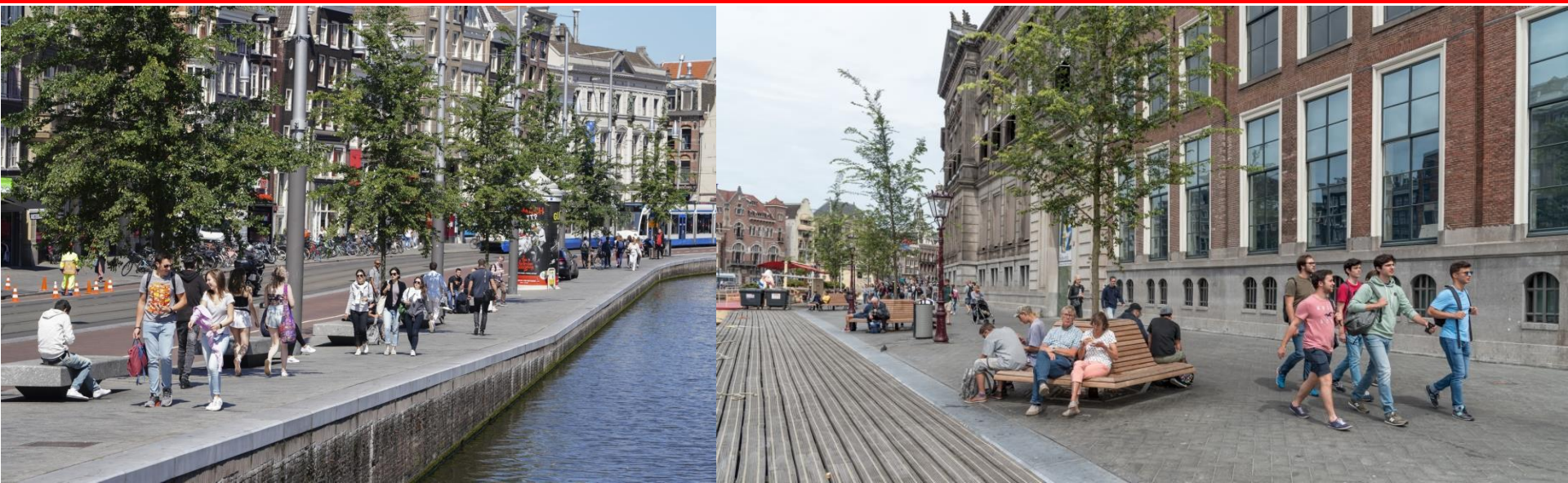


Walkability in Amsterdam

More space for the mother of all modes of transport

Eric de Kievit | Senior Advisor Transport & Traffic Research | Mobility & Public Space

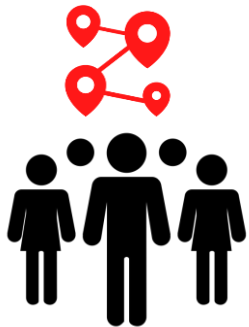
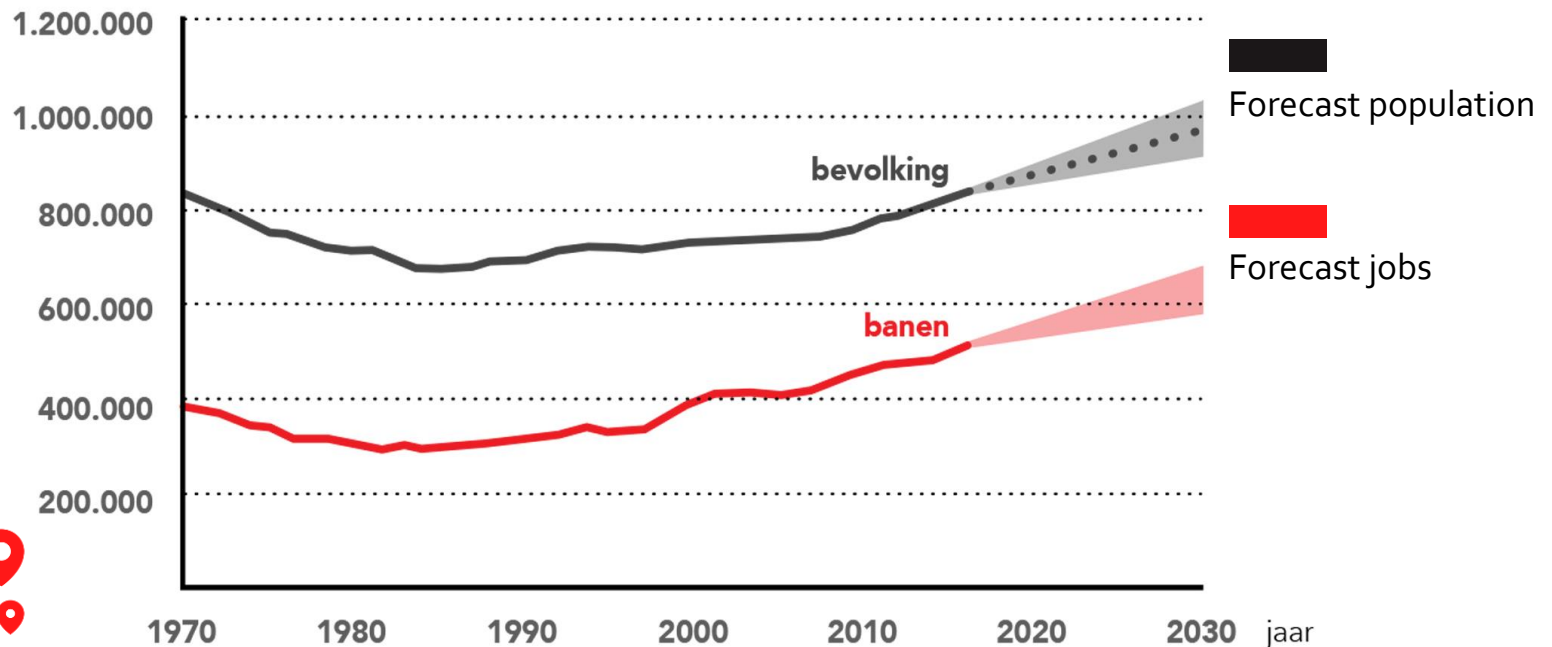
Manchester, Wednesday November 21th, 2018



✖ Amsterdam's population increasing ✖ towards 1 million inhabitants ✖

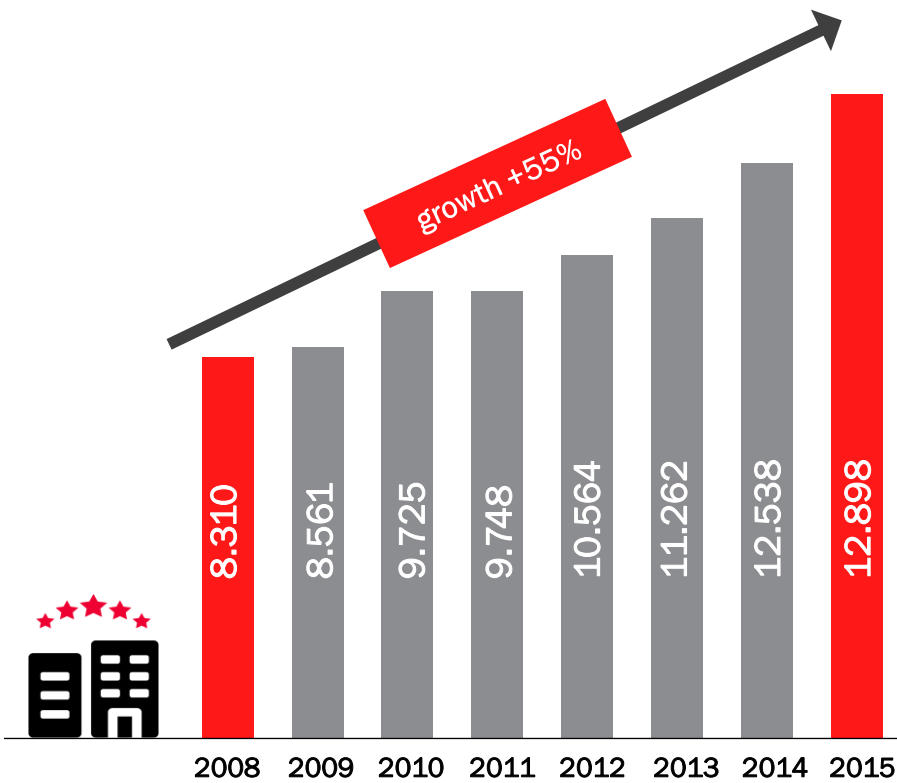
Development and forecast population and employment, Amsterdam 2016
(source: OIS, PBL/CBS)

Population



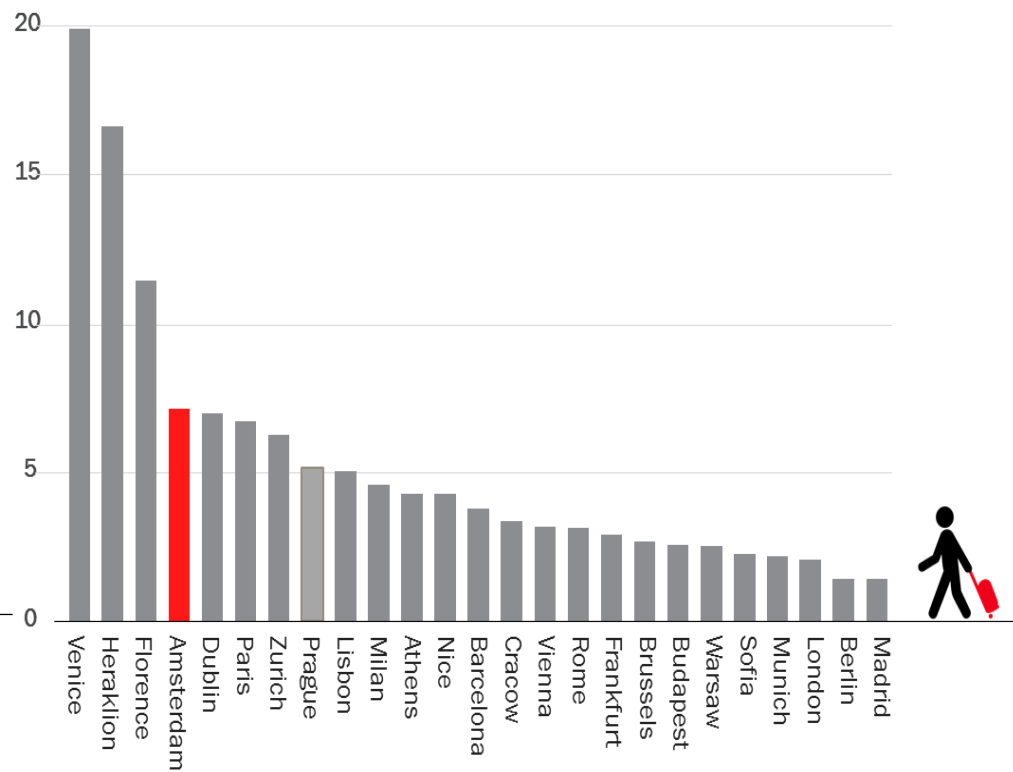
✖✖✖ Tourism: The number of hotel stays continues to increase

Number of hotel overnights (x1.000), 2008-2015



Above this growth in hotel bookings also
736.000 Airbnb-overnights (2015)

Number of tourists per 1000 inhabitants



Source ATB (left) and EuroStat (right)

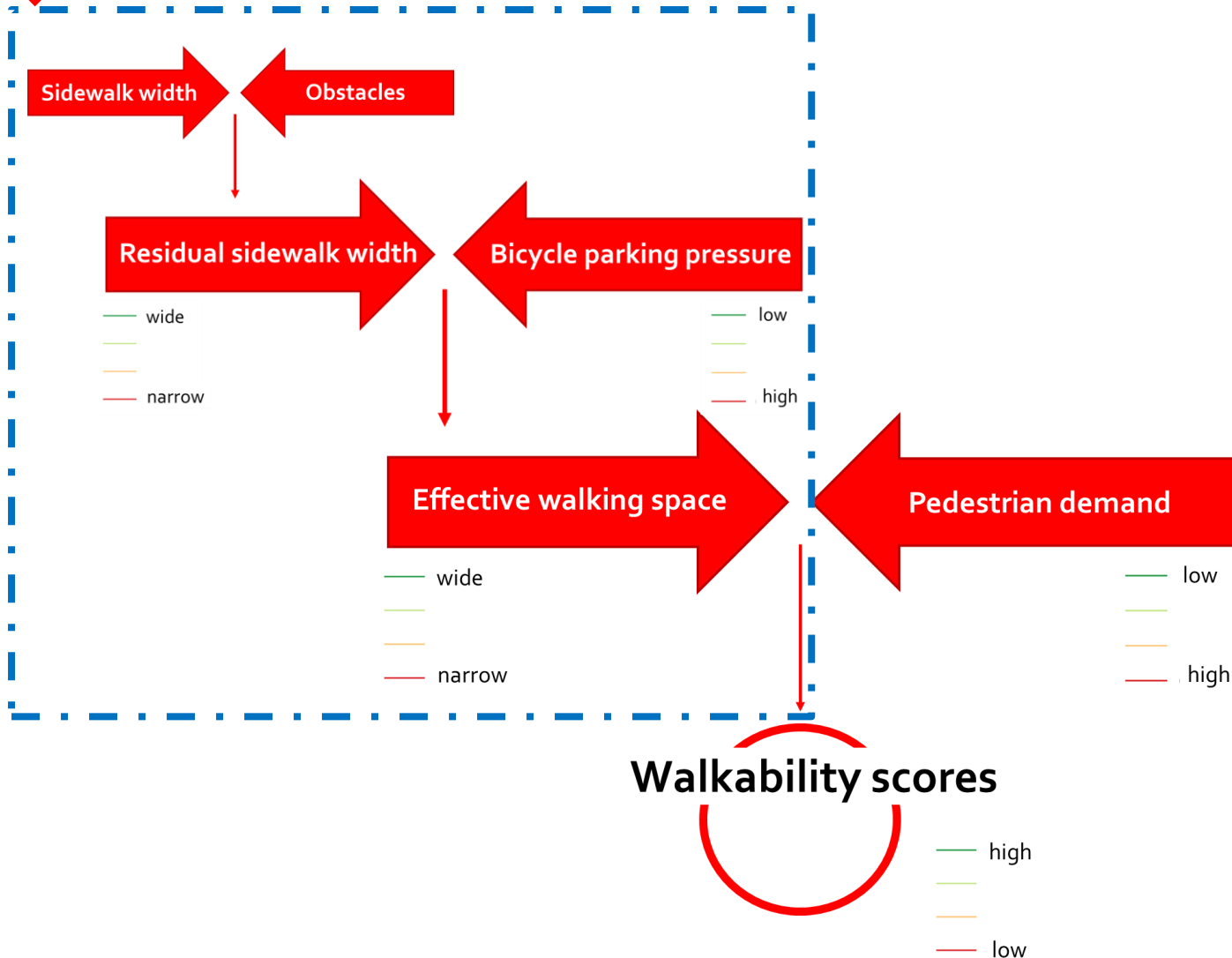
❌ Crowds, narrow sidewalks and obstacles
❌ result in poor walkability
❌



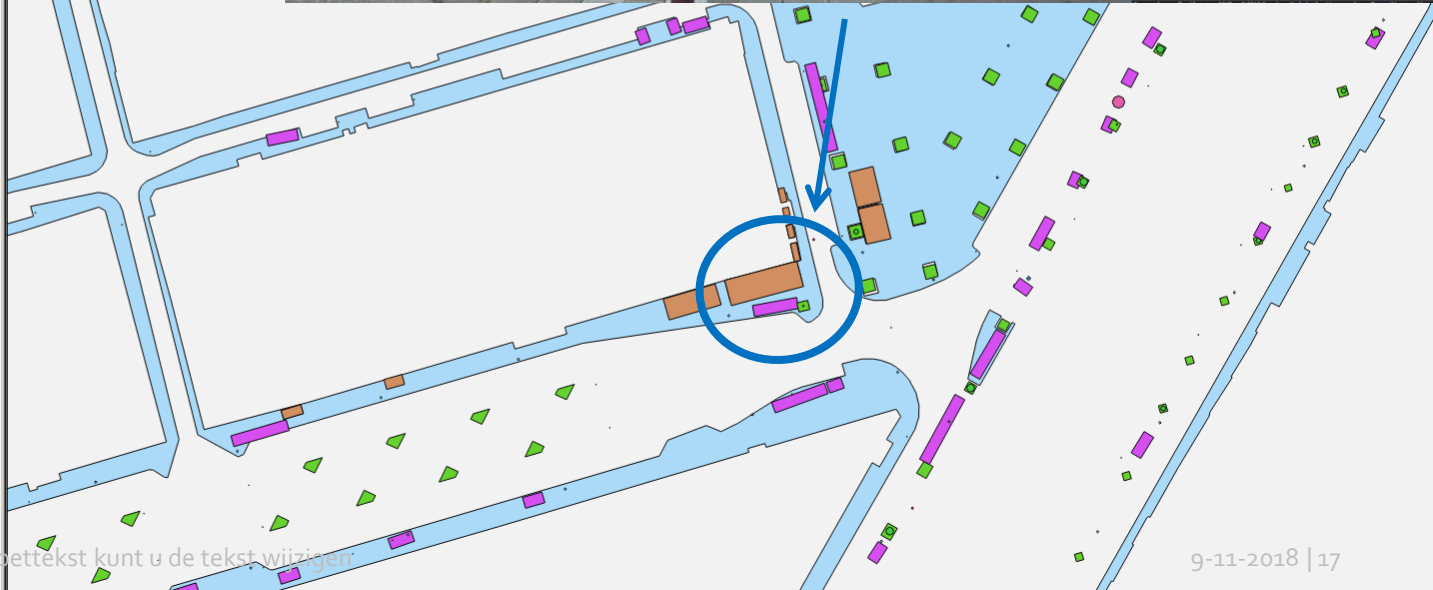
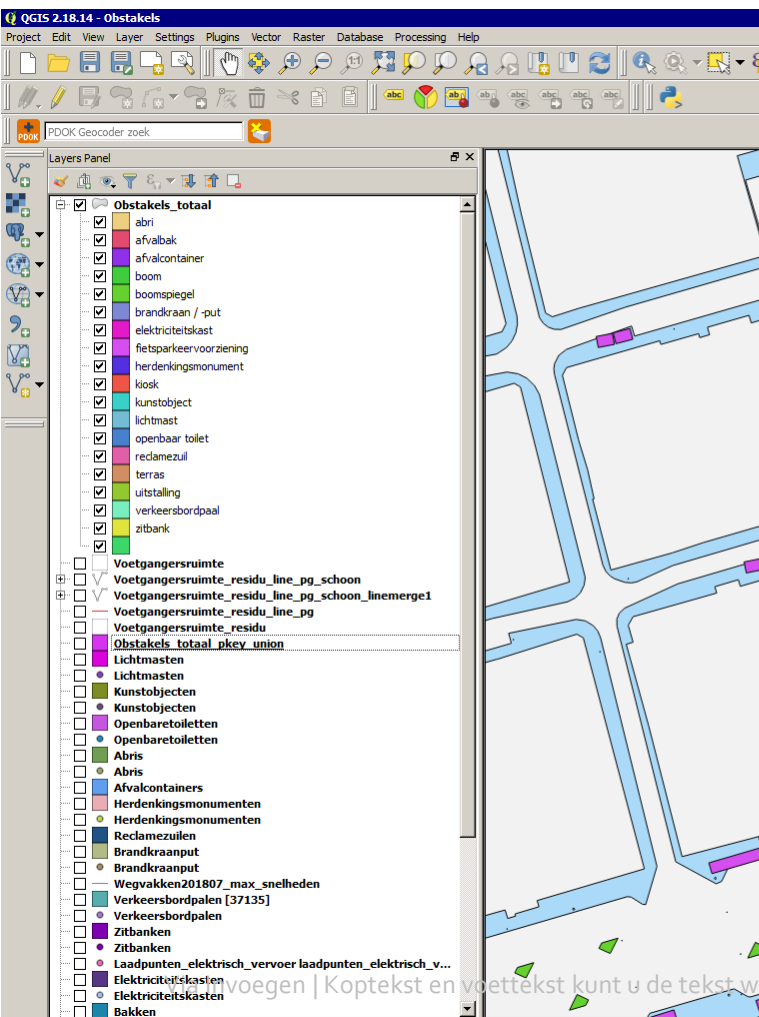


How can we analyse and map out the state and use of the main pedestrian network, using existing data?

Effective walking space: Sidewalk width, obstacles and bicycle parking pressure



- ❌ Pedestrian space
- ❌ (obstacles at Café Winkel with best apple
- ❌ pie in A'dam)



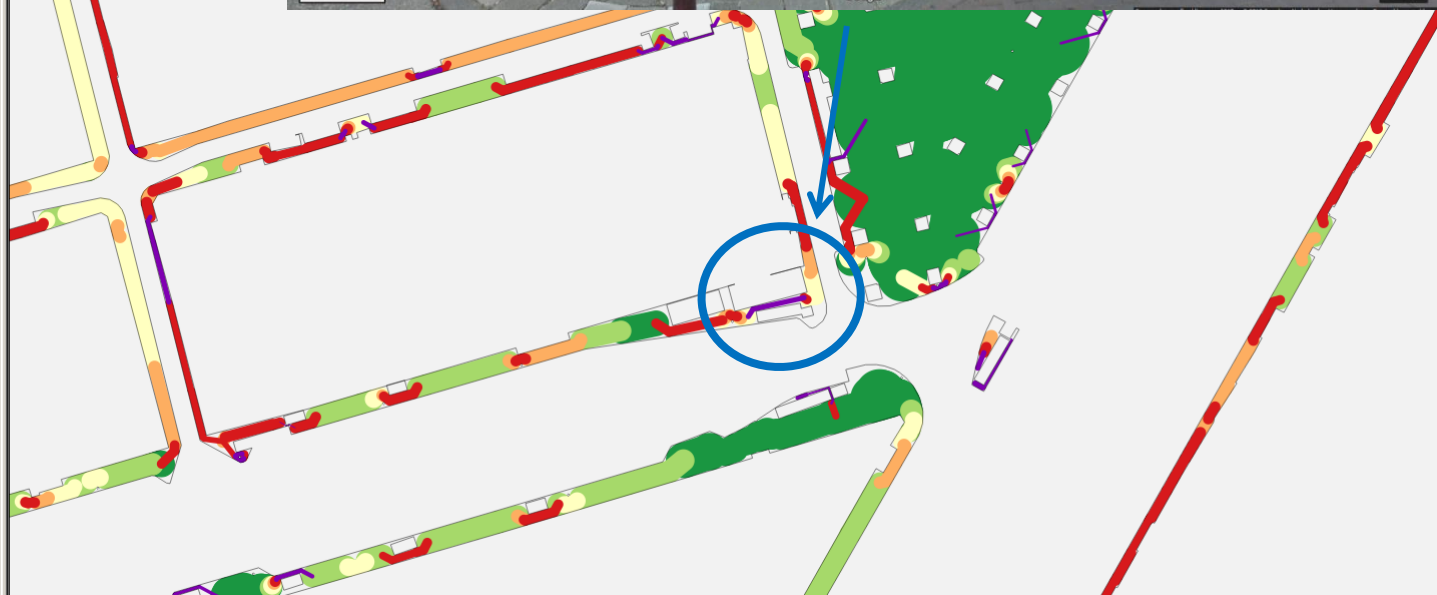
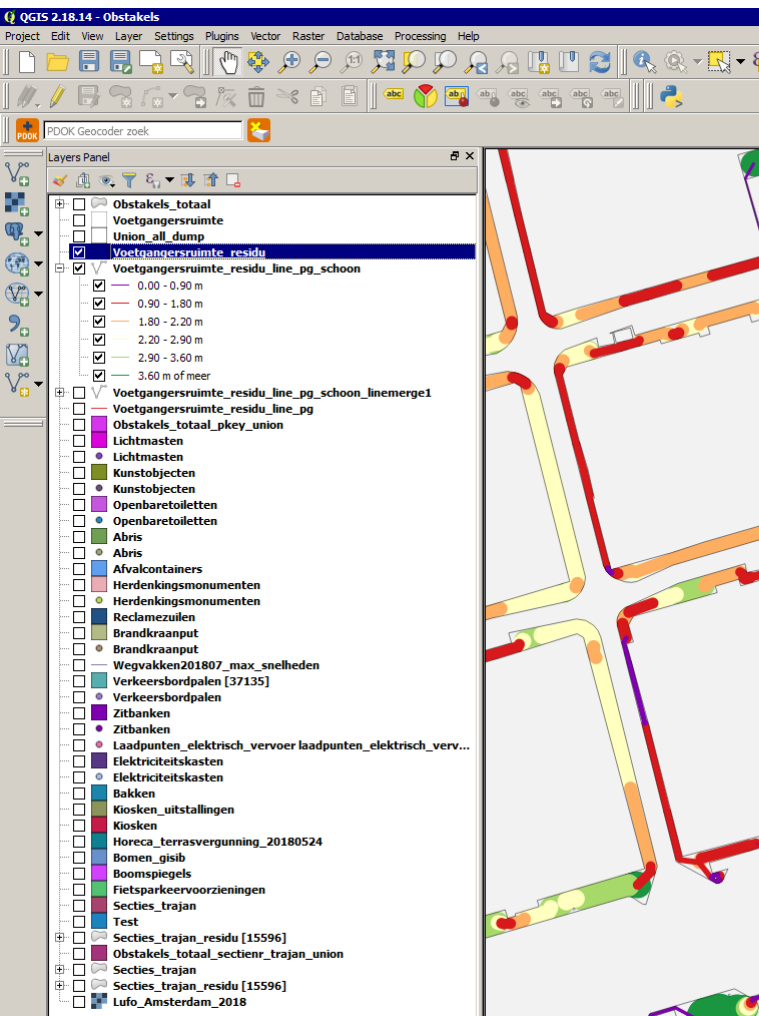
✖ Obstacles included



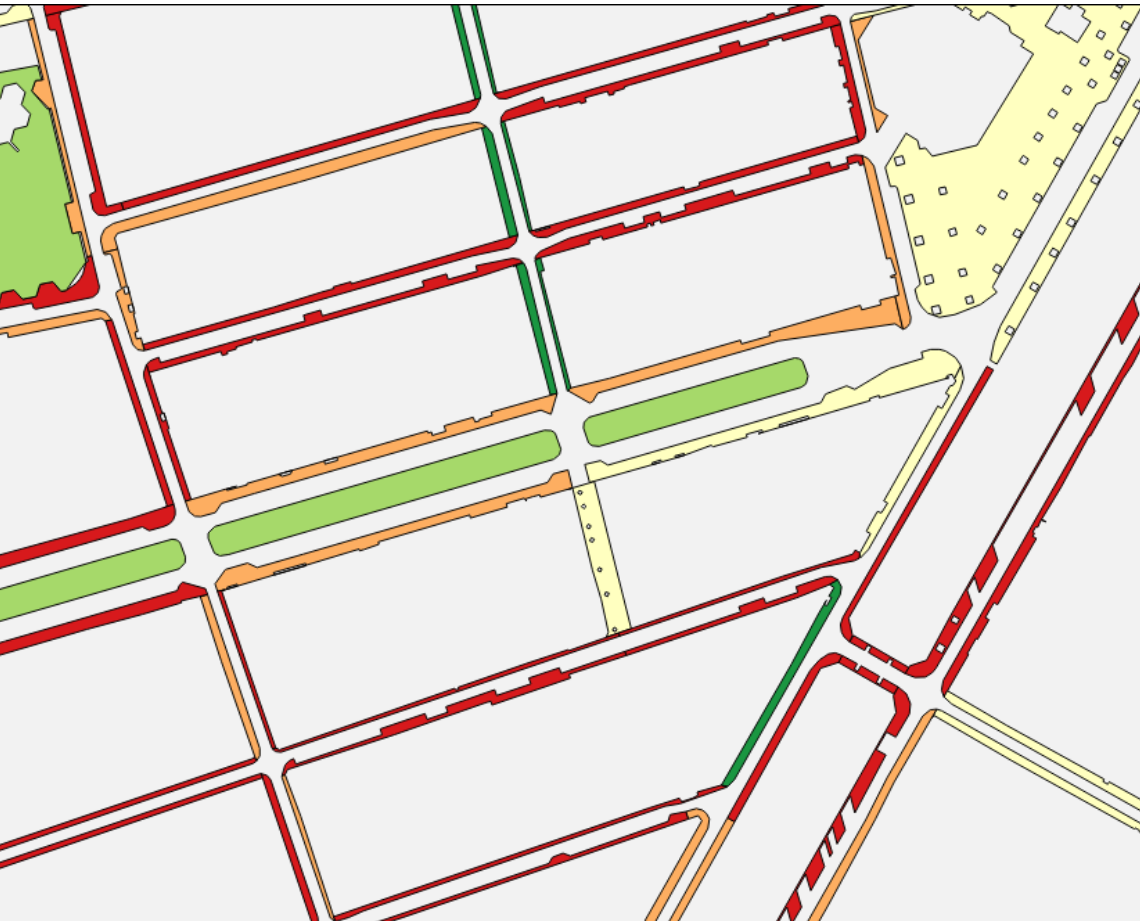
- Bicycle racks
- Street furniture
- Greenery
- Shop displays
- Terraces



❌ Residual sidewalk width



❌ Bicycle parking pressure of bikes parked
❌ on sidewalk outside of racks
❌



Loopruimte

Effective walking space

Totale
onderzoeksgebied



Legenda

Loopruimte

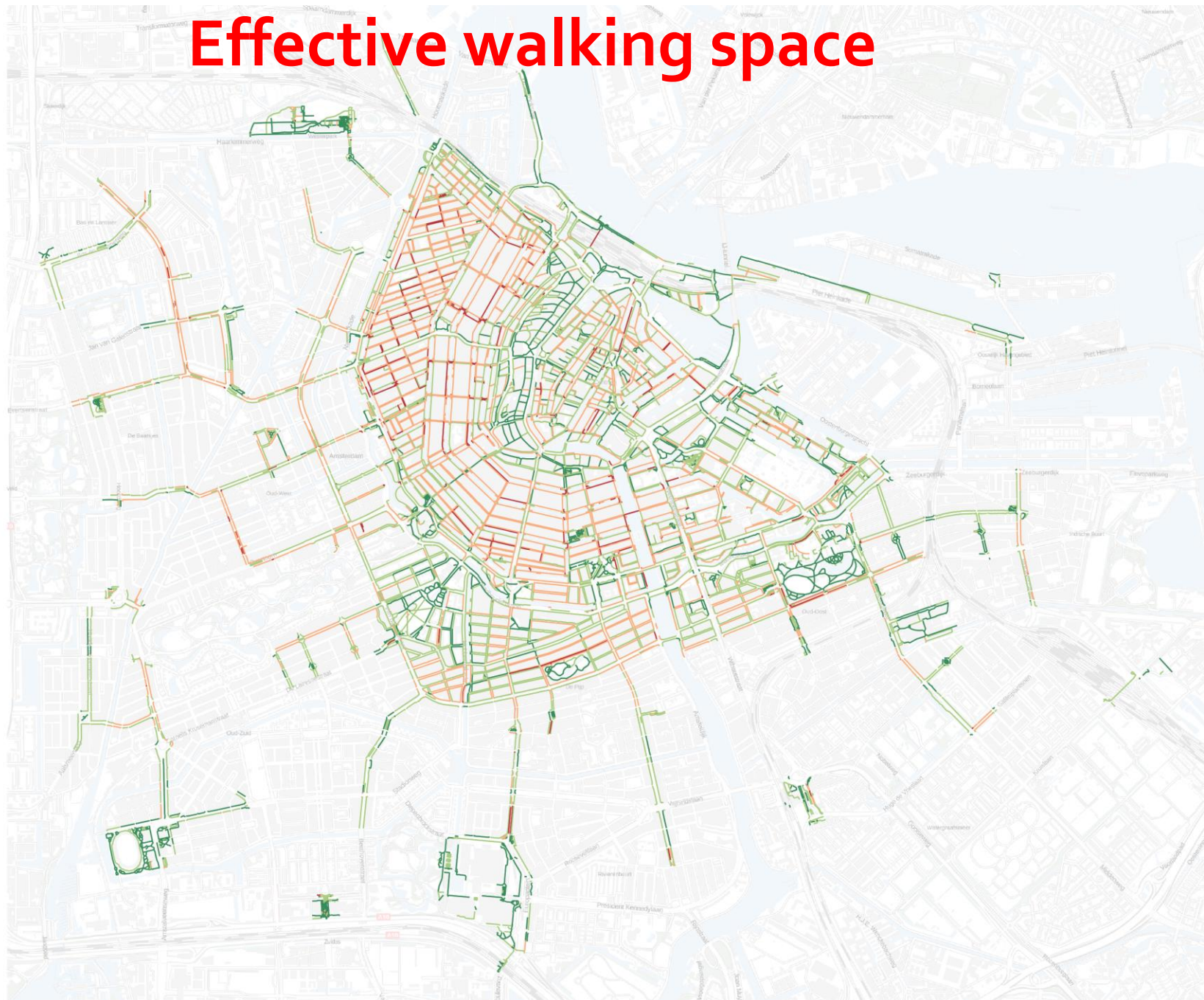
— ruim

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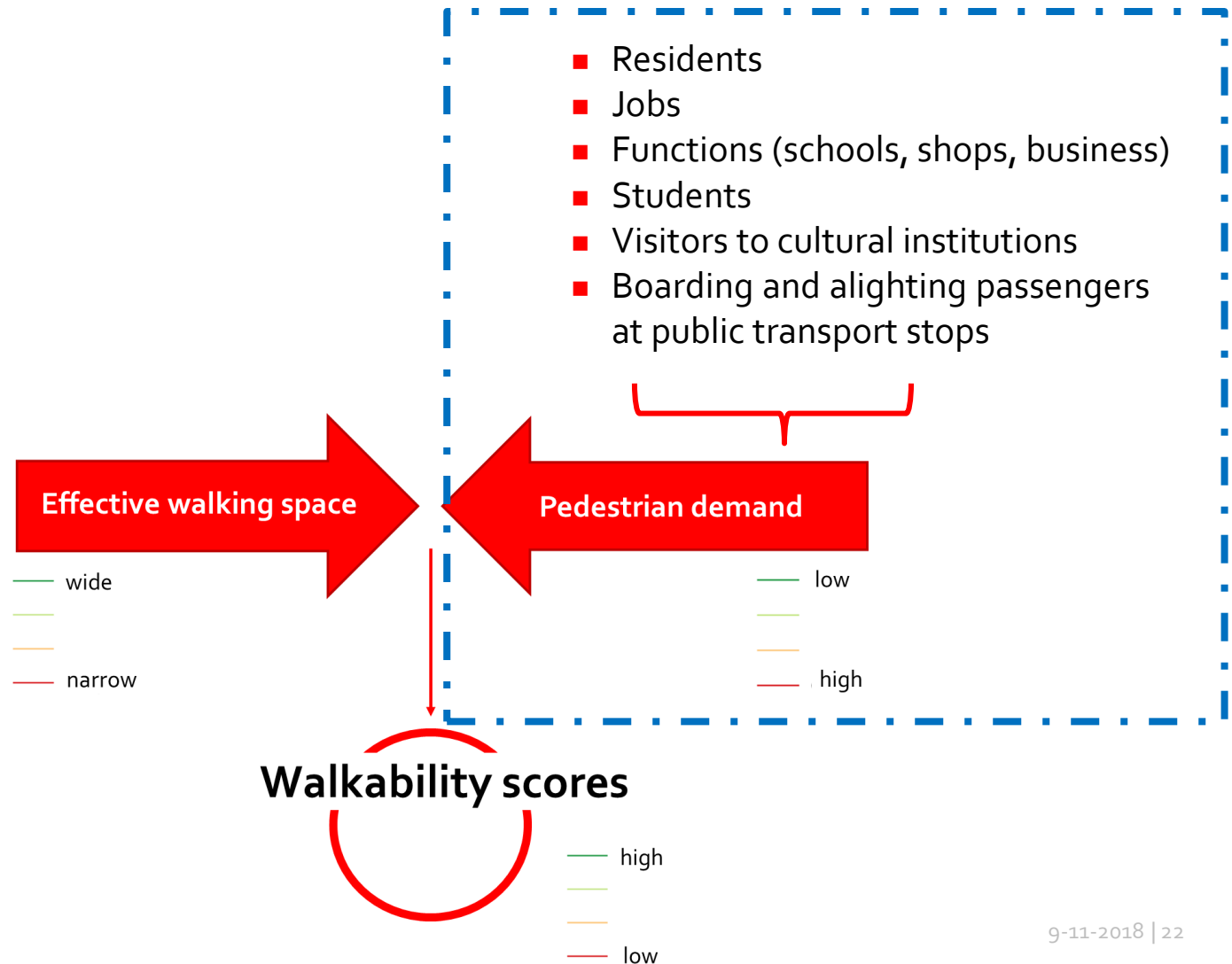
0 250 500 m

V&OR, 2018-03-06



Pedestrian demand:

Datasets reflecting presence of pedestrians in public space



Algemene
voetgangersdrukte

Pedestrian demand

Totale
onderzoeksgebied



Legenda

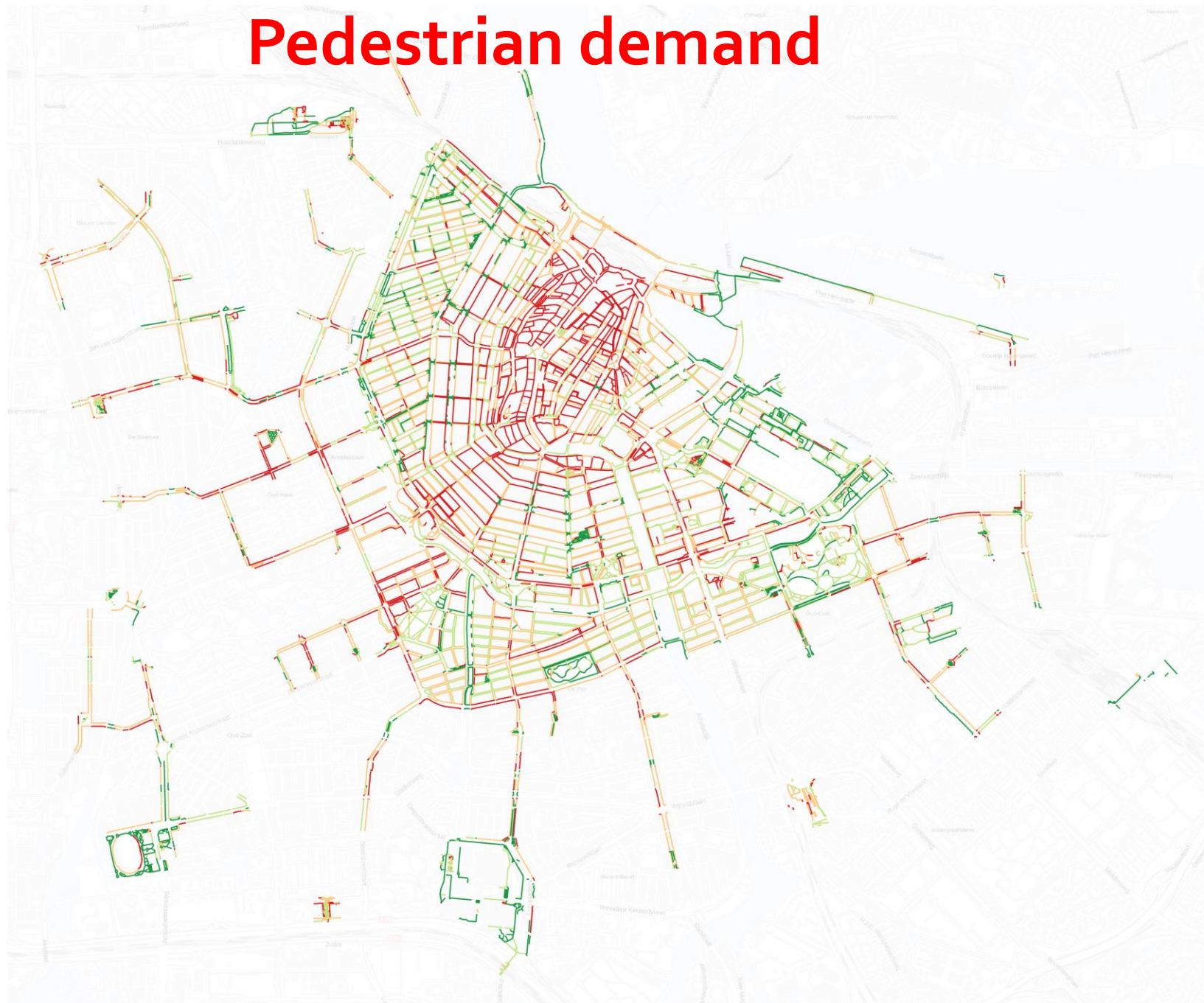
Algemene
voetgangersdrukte

— rustig

— druk

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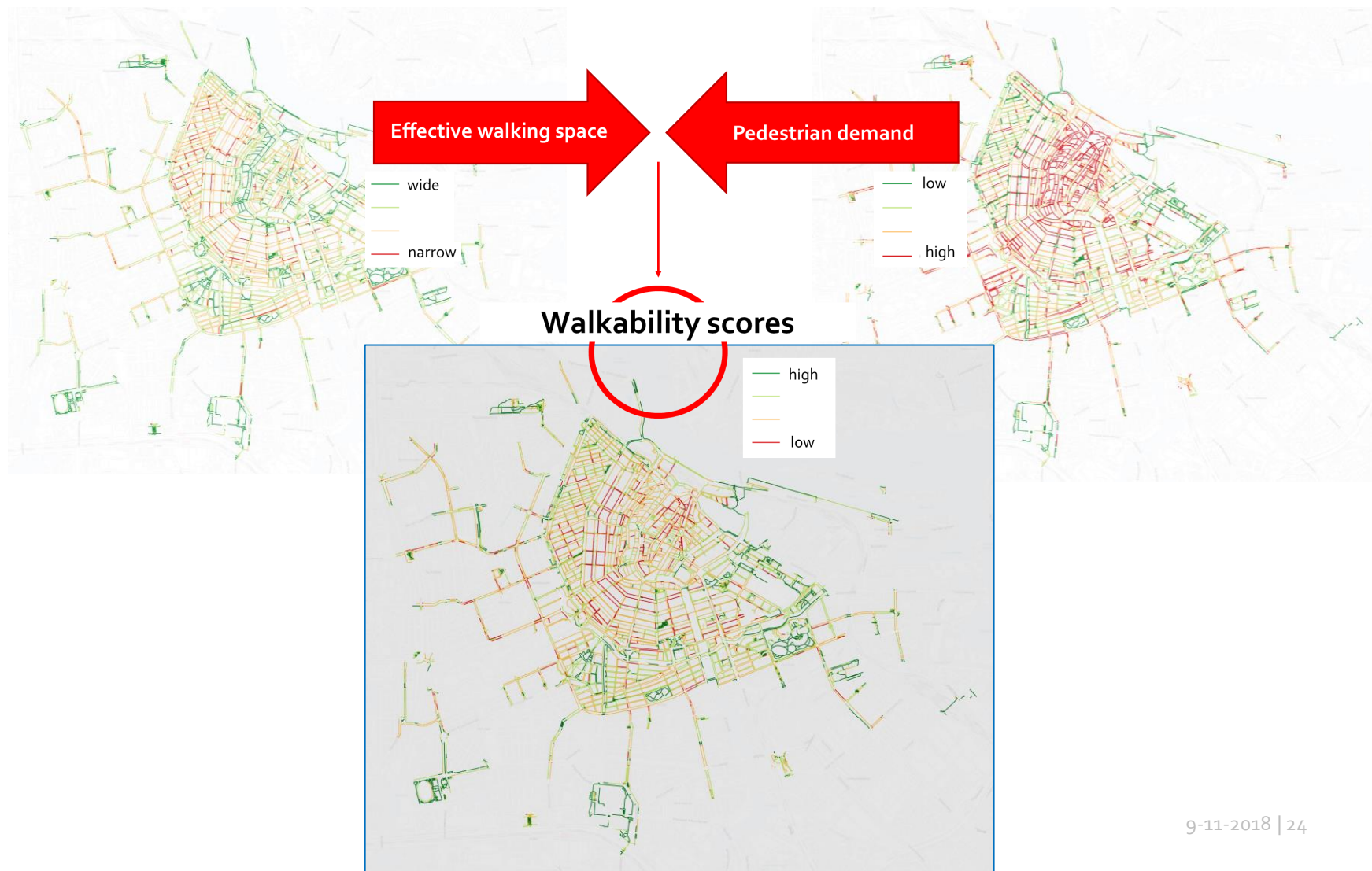
0 250 500 m





Walkability:

Effective walking space and Pedestrian demand



Algemene
walkability-score

Totale
onderzoeksgebied

Clear visual of Walkability

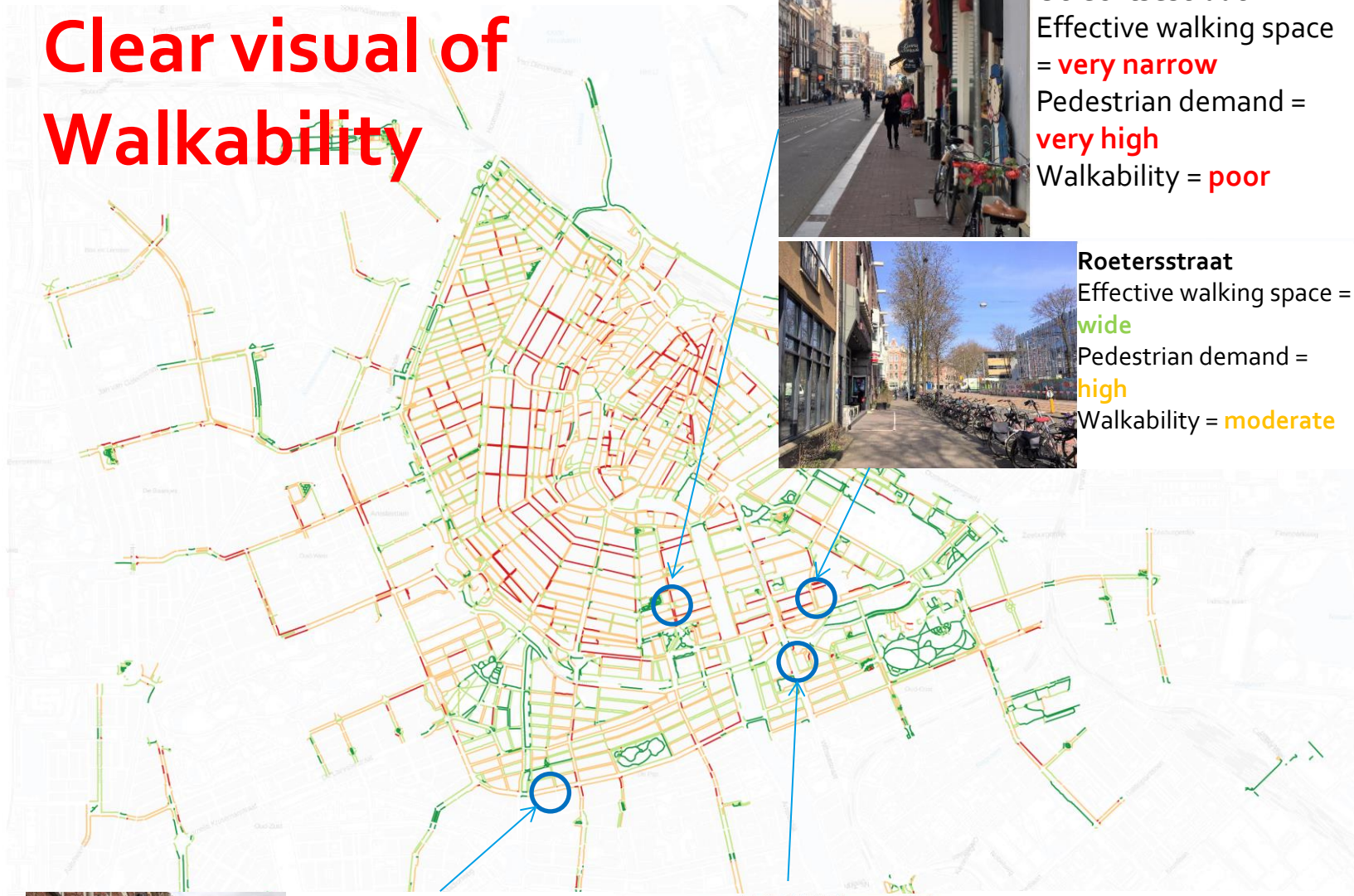


Legenda

Algemene walkability-score

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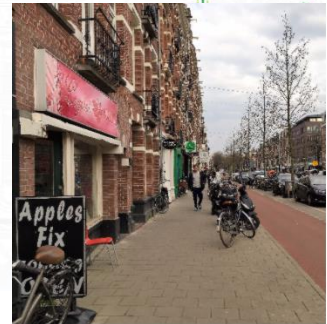
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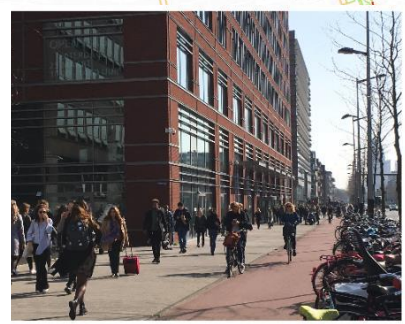
Utrechtsestraat
Effective walking space = **very narrow**
Pedestrian demand = **very high**
Walkability = **poor**



Roetersstraat
Effective walking space = **wide**
Pedestrian demand = **high**
Walkability = **moderate**



Ceintuurbaan
Effective walking space = **wide**
Pedestrian demand = **very high**
Walkability = **moderate**



Wibautstraat
Effective walking space = **very wide**
Pedestrian demand = **very high**
Walkability = **good**

❌ Results applied to give more public space
❌ to pedestrians
❌





Round-Up Walkability analysis

- Accurate:
 - supply and demand of effective walking space
 - Combining many detailed datasets
- Clear visualisation:
 - summary of results per sidewalk
- Useful:
 - Results applied to policy making to give more public space to the mother of all nodes: walking!!