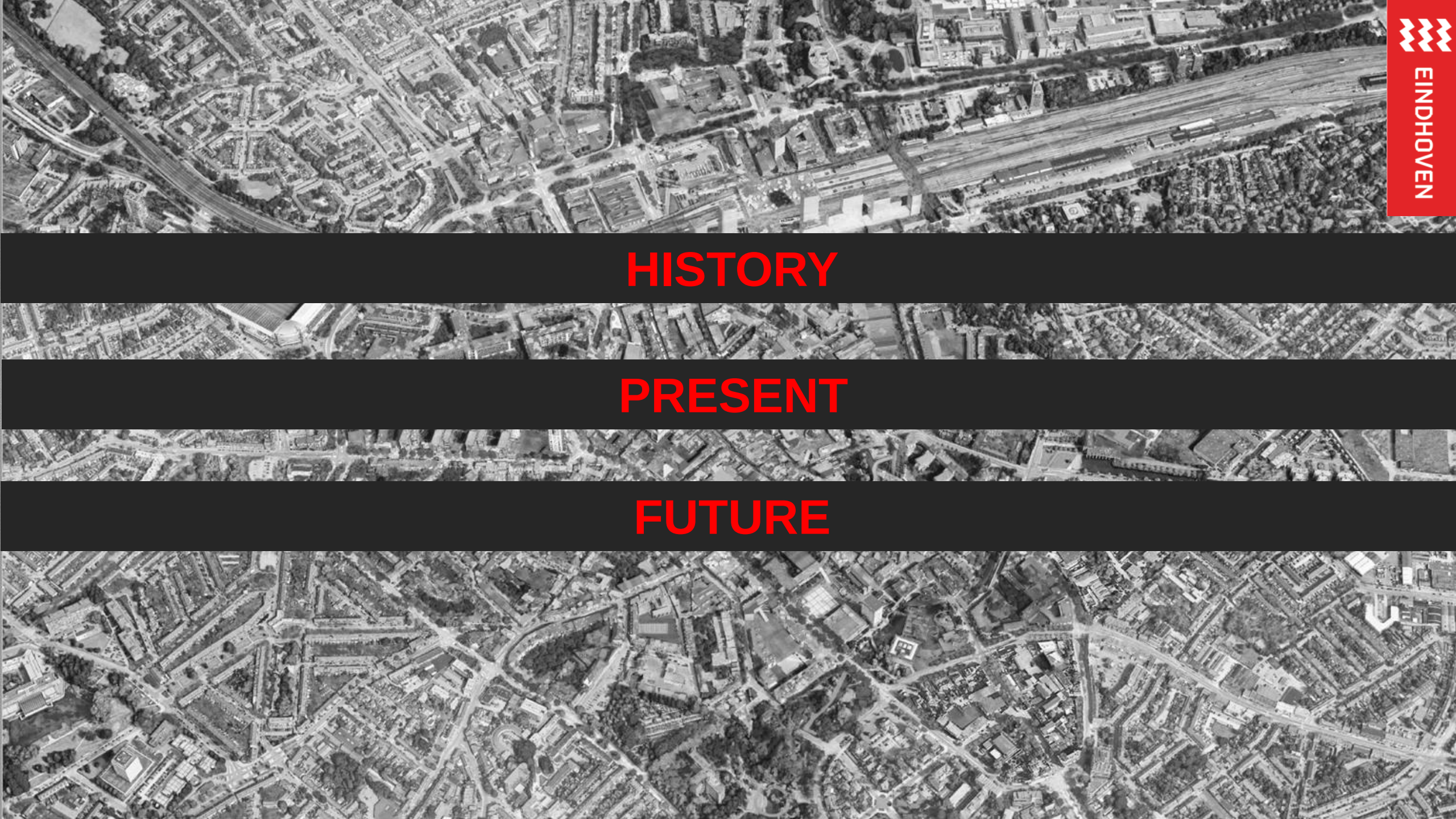
EINDHOVEN CITY CENTRE 2040: HEALTHY – GREEN - WALKABLE

Erik van Hal urban traffic-transport planner e.van.hal@eindhoven.nl

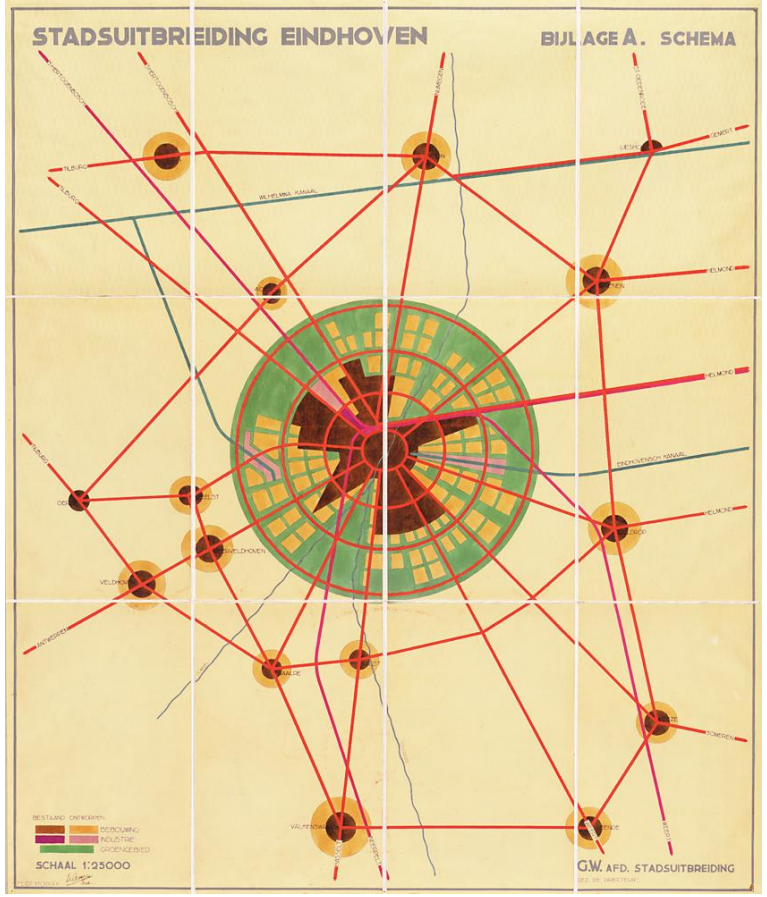
POLIS
CITIES AND REGIONS FOR TRANSPORT INNOVATION

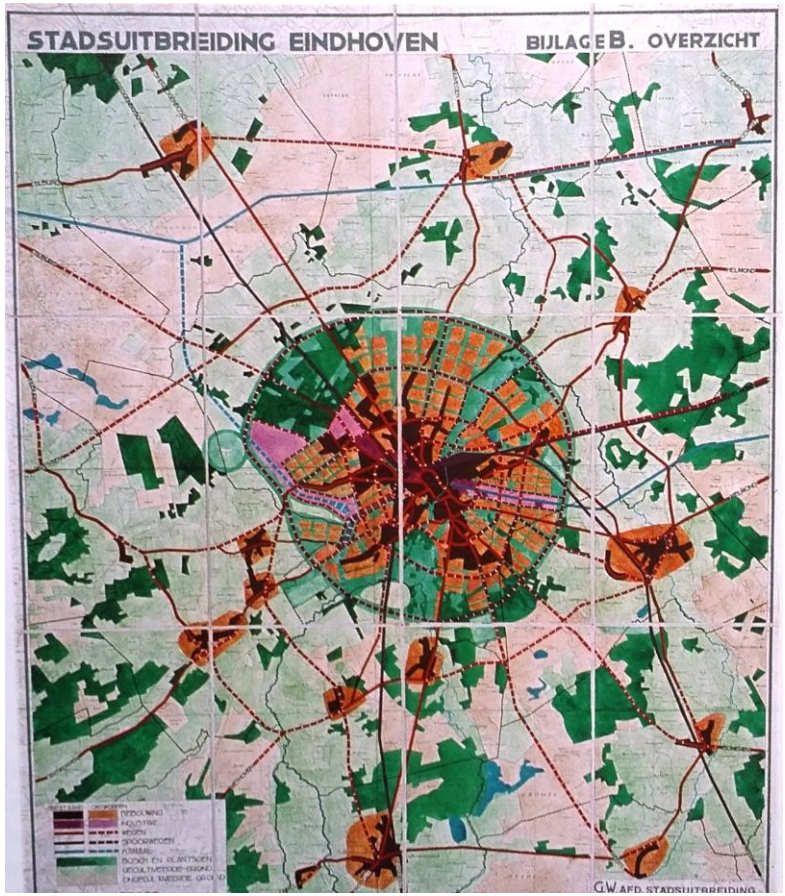
City of Gothenburg

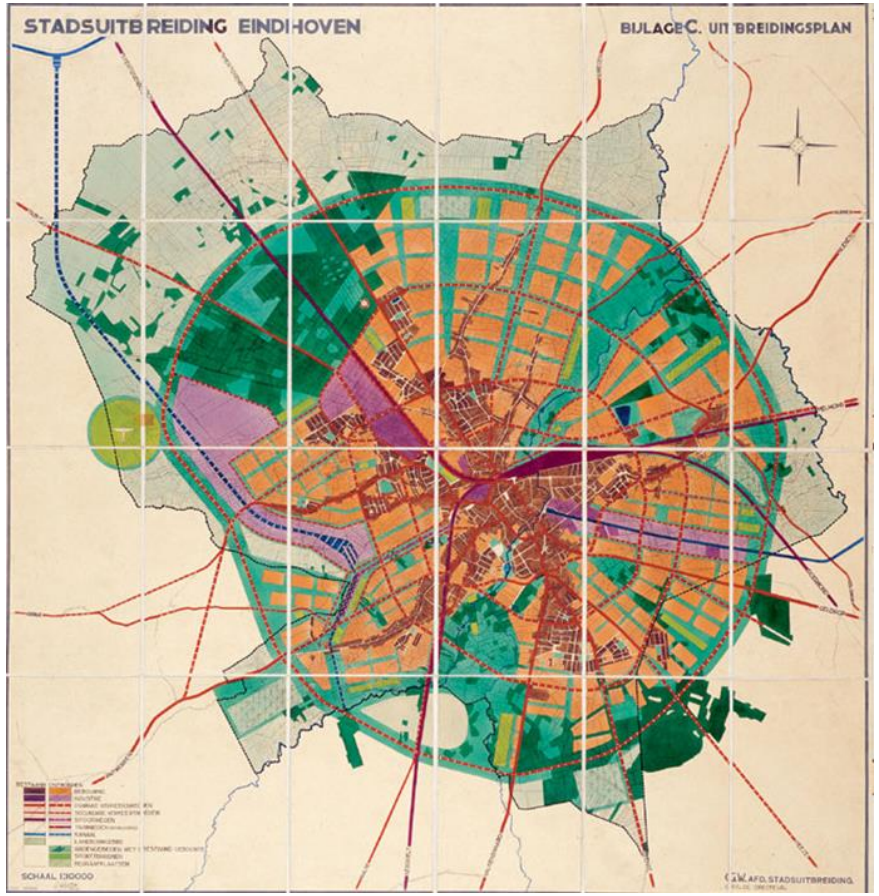

EINDHOVEN
HISTORY
PRESENT
FUTURE

HISTORY

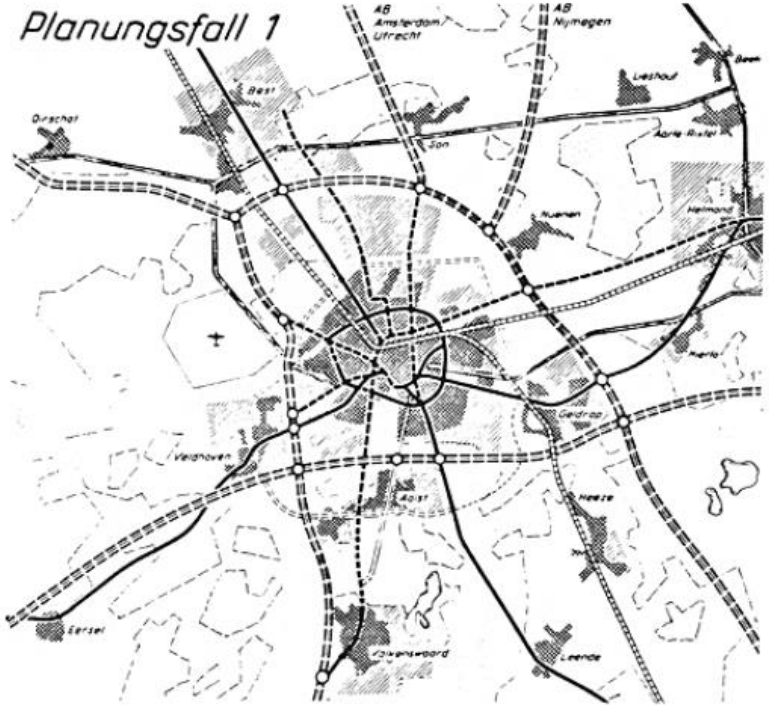
Luchtfoto
1850
1900
1920
1950
2000
2020
Welschap
Sliffert
Heuvel
Het Ven
Lievendaal
Schoot
Kerkeind
Strijp
Biesbosch
Hurk
Biezekuilen
Zevereind
Zeelst
Akkereind
Blaarthem
Kasteel
Gagelbosch
Schouwbroek
EINDHOVEN
Gestel
Gennep
Boosten
Heieind
Stratum
Limbeek
Broek
Kroonhoef
Fellenoord
Klein Tongelre
Tongelre
Dommelhoef
Clibbus
de Putten
Riel
HEIDE
BOTTING
DE HAGENKAMP
LOOI-AKKERS
DE RUSTENDE JAGER
DE KIROW
ERVEN
DE BOOREN
BOOMGAARD
HOOGE HEIDE
KLEIN TONGELRESCHE AKKERS
DOORNAKKERS
DE LAKEN
Begraafpl
R.C. Kerk
Paardebaan
Kloosterpl

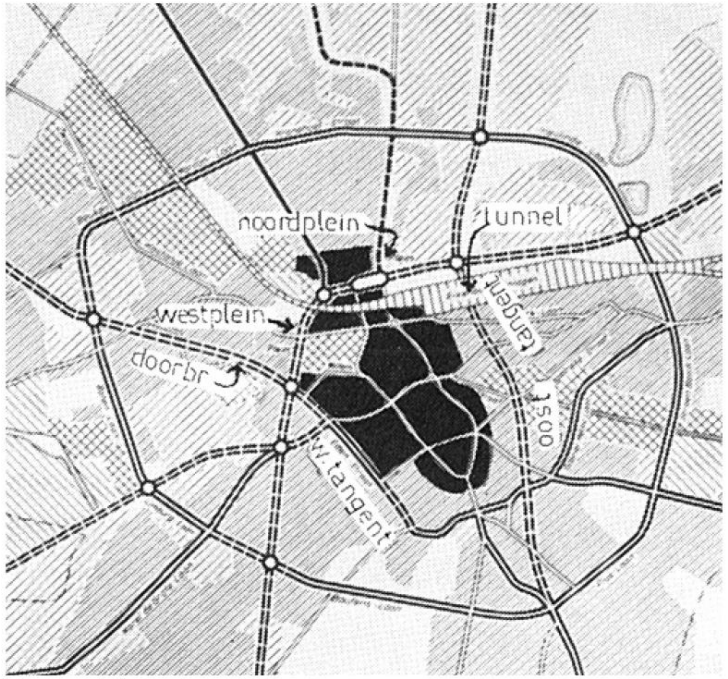


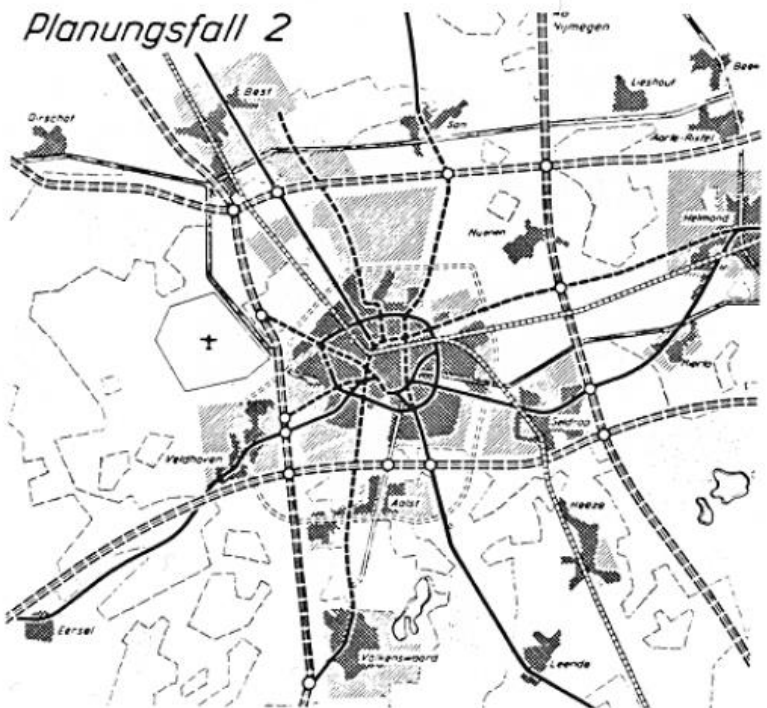




Urban Expansion Planning - De Casseres 1930







Postwar

Traffic planning

Feuchtinger 1959

EINDHOVEN

PRESENT

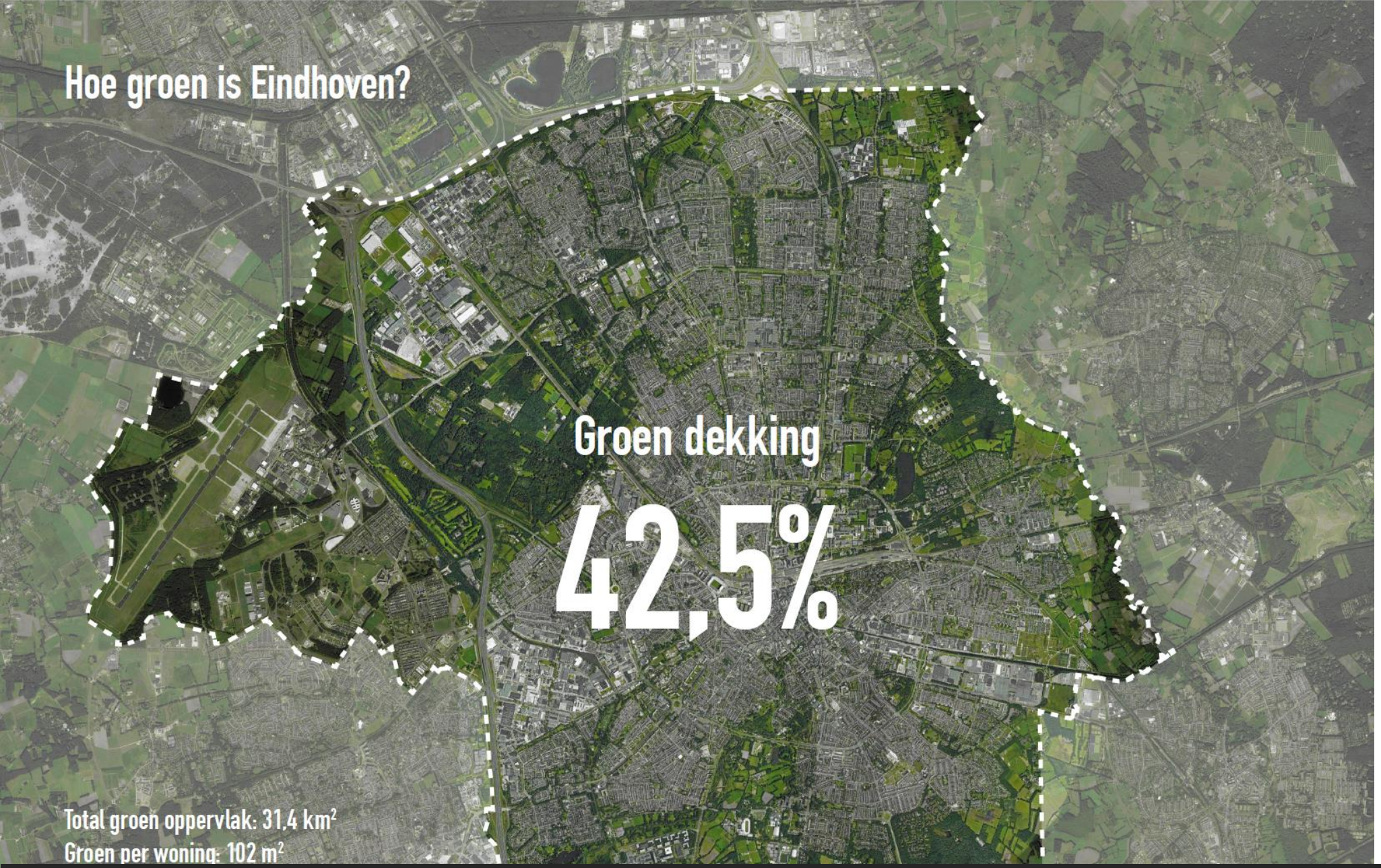
04/2019
SPECIALE EDITIE
NATIONAL GEOGRAPHIC
DE ONSTUITBARE STAD
VAN EINDHOVEN TOT TOKIO:
HOE HOUDEN WE GROEIENDE METROPOLEN LEEFBAAR?

lonely planet
Eindhoven
Local Secrets
Best planning advise
100% researched & updated
Made by our #1 Cityguide Ronald
Nu inclusief Rondleidingen door Ronald Rijnen
#1 BEST-SELLING CITYGUIDE

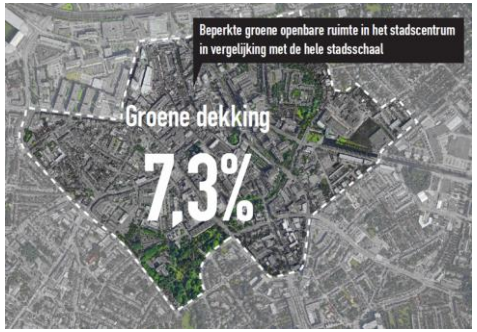
EINDHOVEN

MODERN

Hoe groen is Eindhoven?



Total groen oppervlak: 31,4 km²
Groen per woning: 102 m²



EINDHOVEN

GREEN

RADIAL

1815
1850
1900
1950
2000
2020
BEST
Son en Breugel
Mariahout
Liesbout
Nederwetten
Gerwen
Nuenen
Acht
Woensel Noord
Woensel Zuid
EINDHOVEN
Centrum
Gestel
Stratum
GELDROP
VELDHOVEN
Aalst
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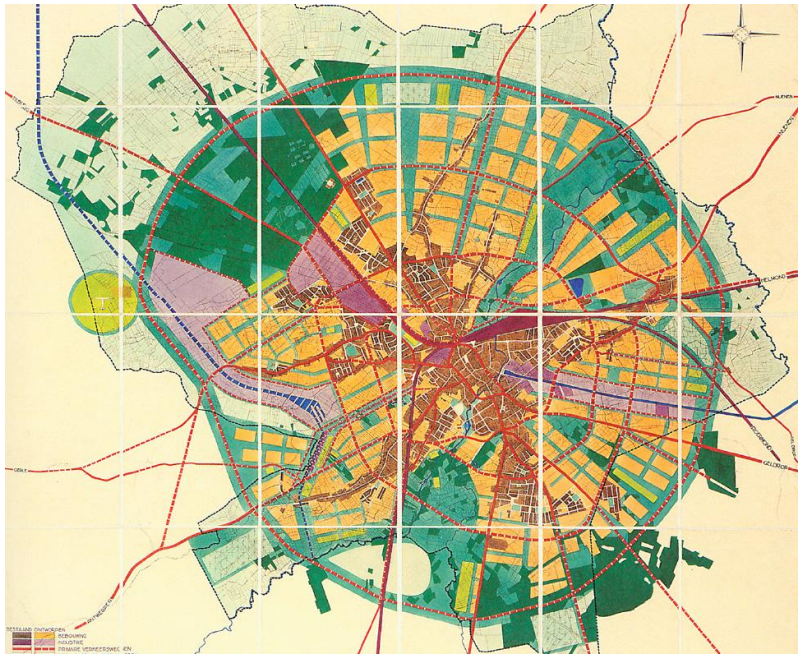
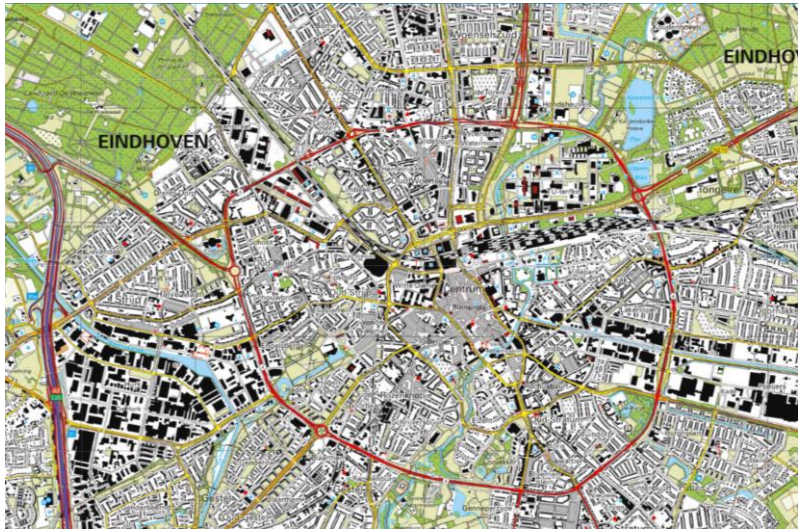



EINDHOVEN

Within 150 km radius:

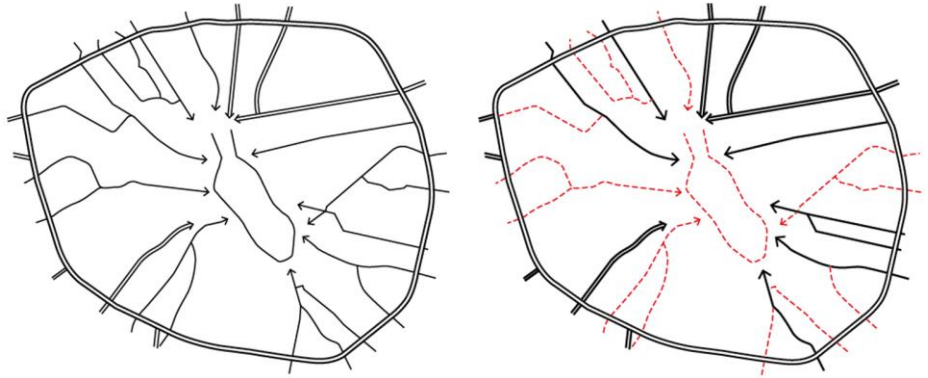
- **26 million inhabitants**
- **3 airport hubs/capital cities:**
  - **Schiphol Amsterdam** ***55 million PAX***
  - **Düsseldorf, Germany** ***21 million PAX***
  - **Brussels, Belgium** ***21 million PAX***
- **8 regional airports**

BRAINPORT REGION EINDHOVEN: Technology Design Knowledge

EINDHOVEN

EINDHOVEN CAMPUSTOWN

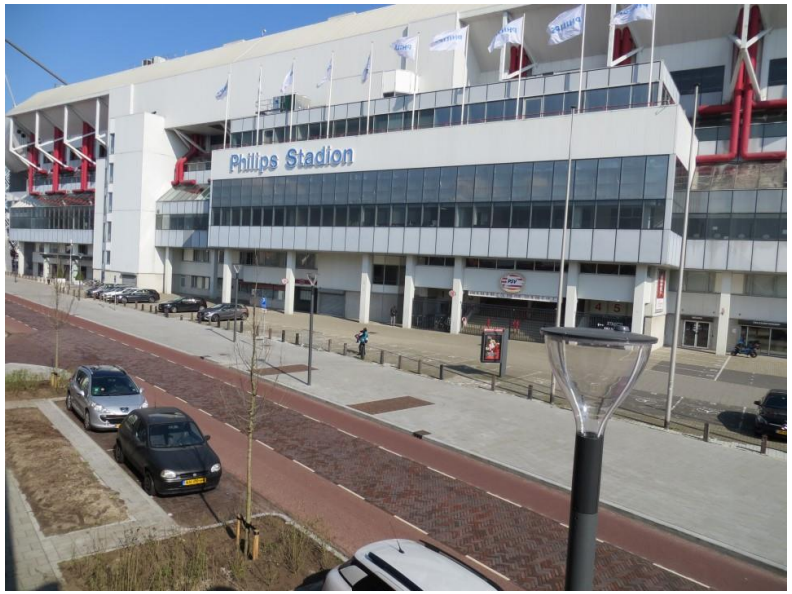
EINDHOVEN en route



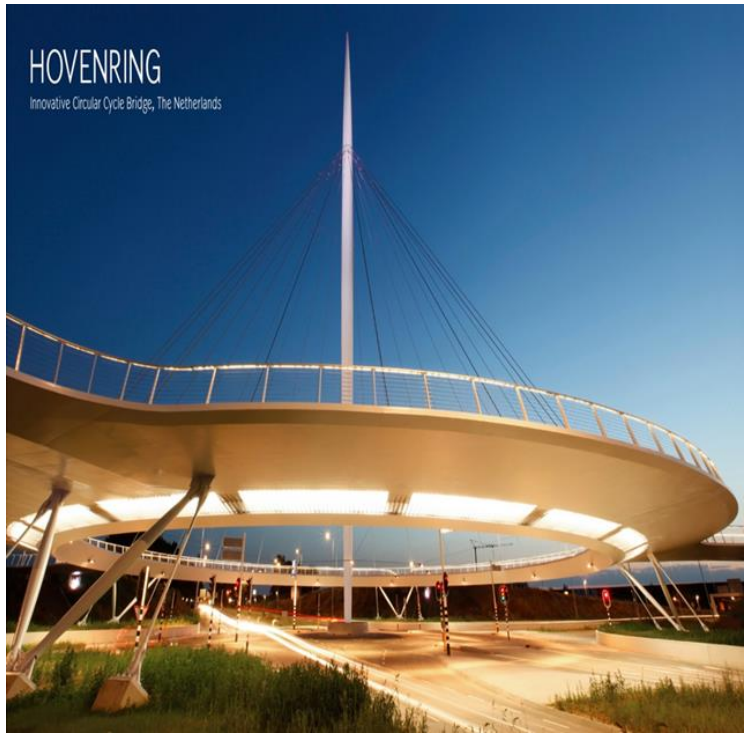
slow motion – fast forward

place making

MOBILITY MASTERPLANNING (2013)



WALKING


HOVENRING
Innovative Circular Cycle Bridge, The Netherlands

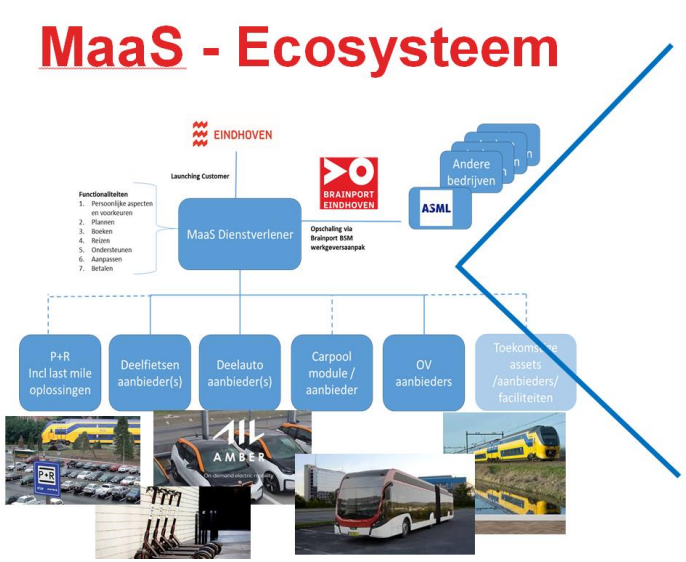
Flo

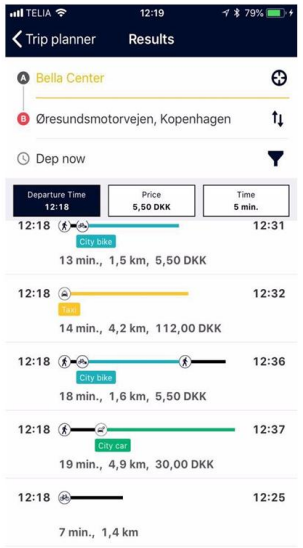
CYCLING

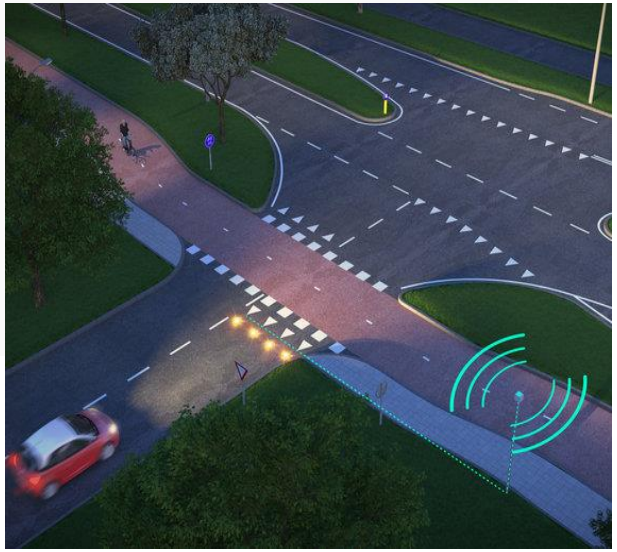
EINDHOVEN

BUS RAPPIT TRANSIT

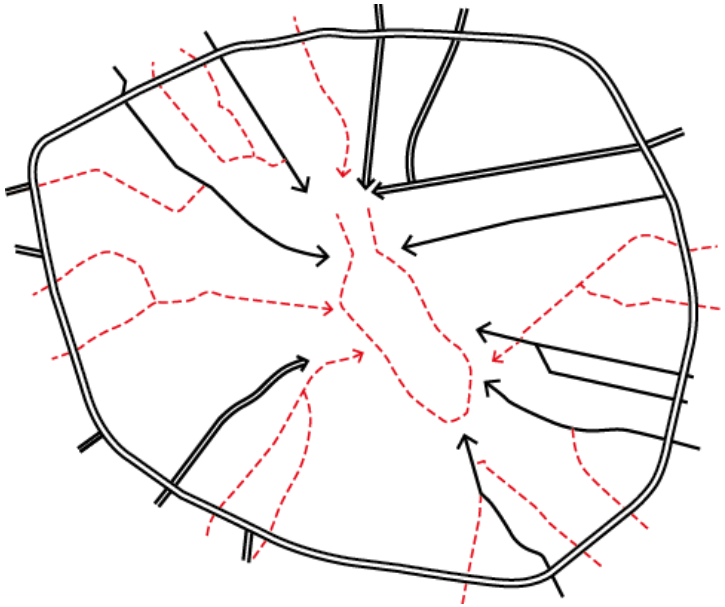
Bravo

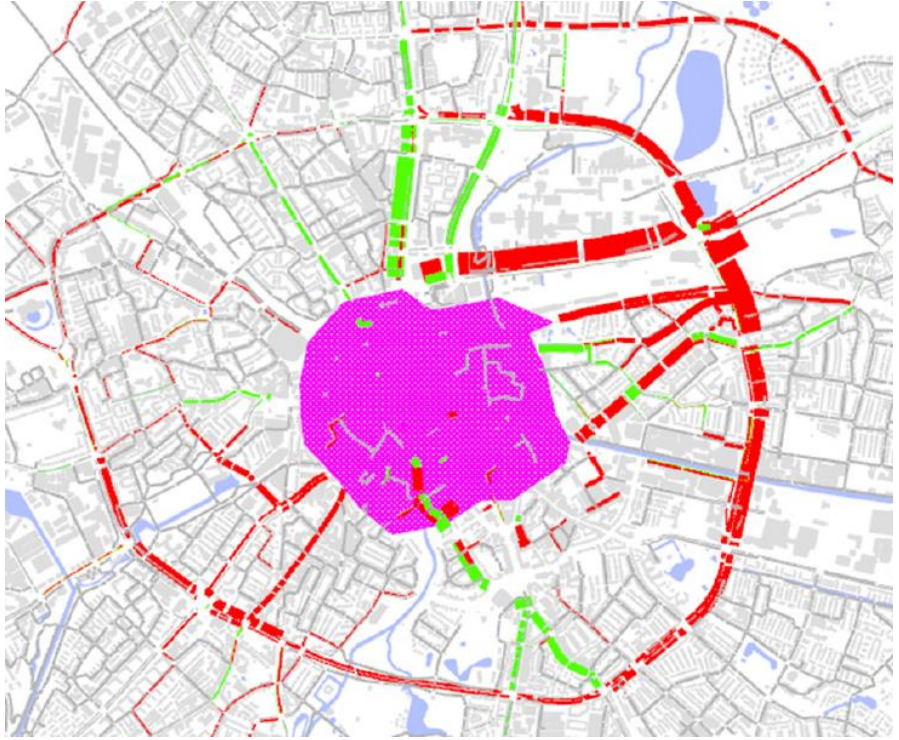


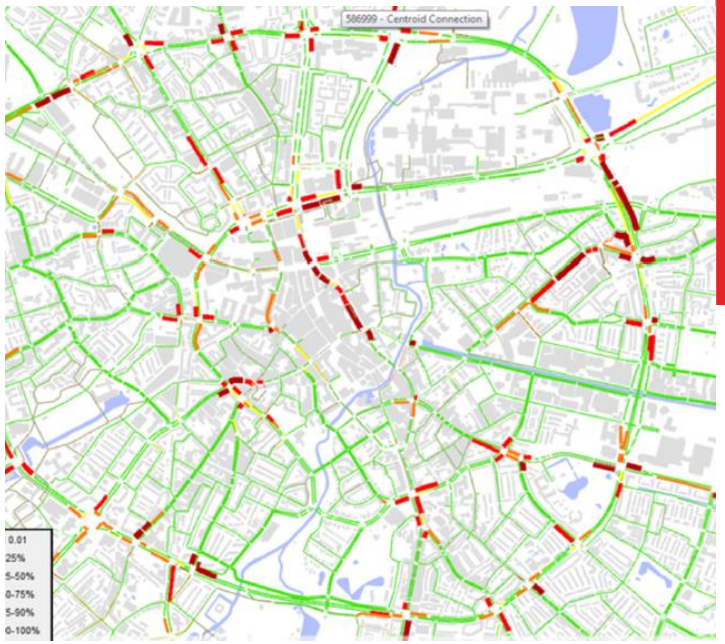


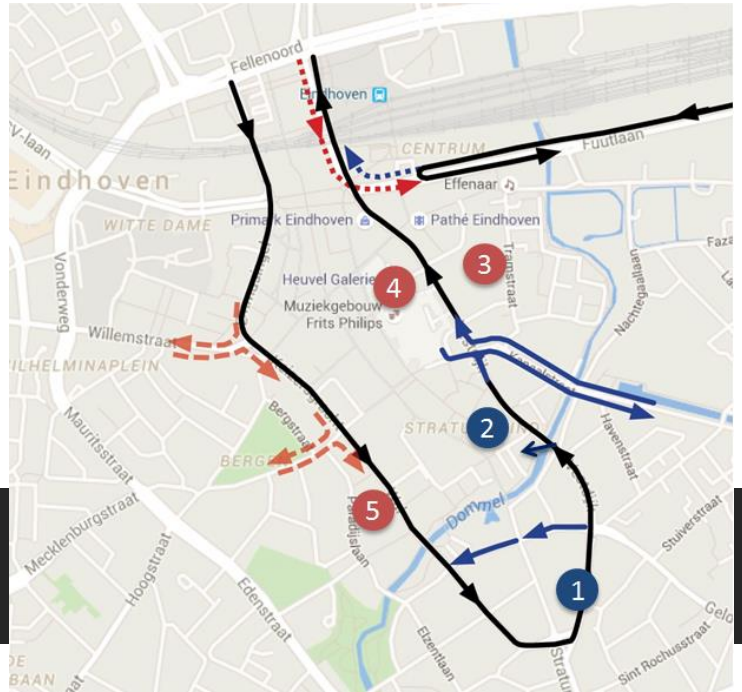


SMART MOBILITY

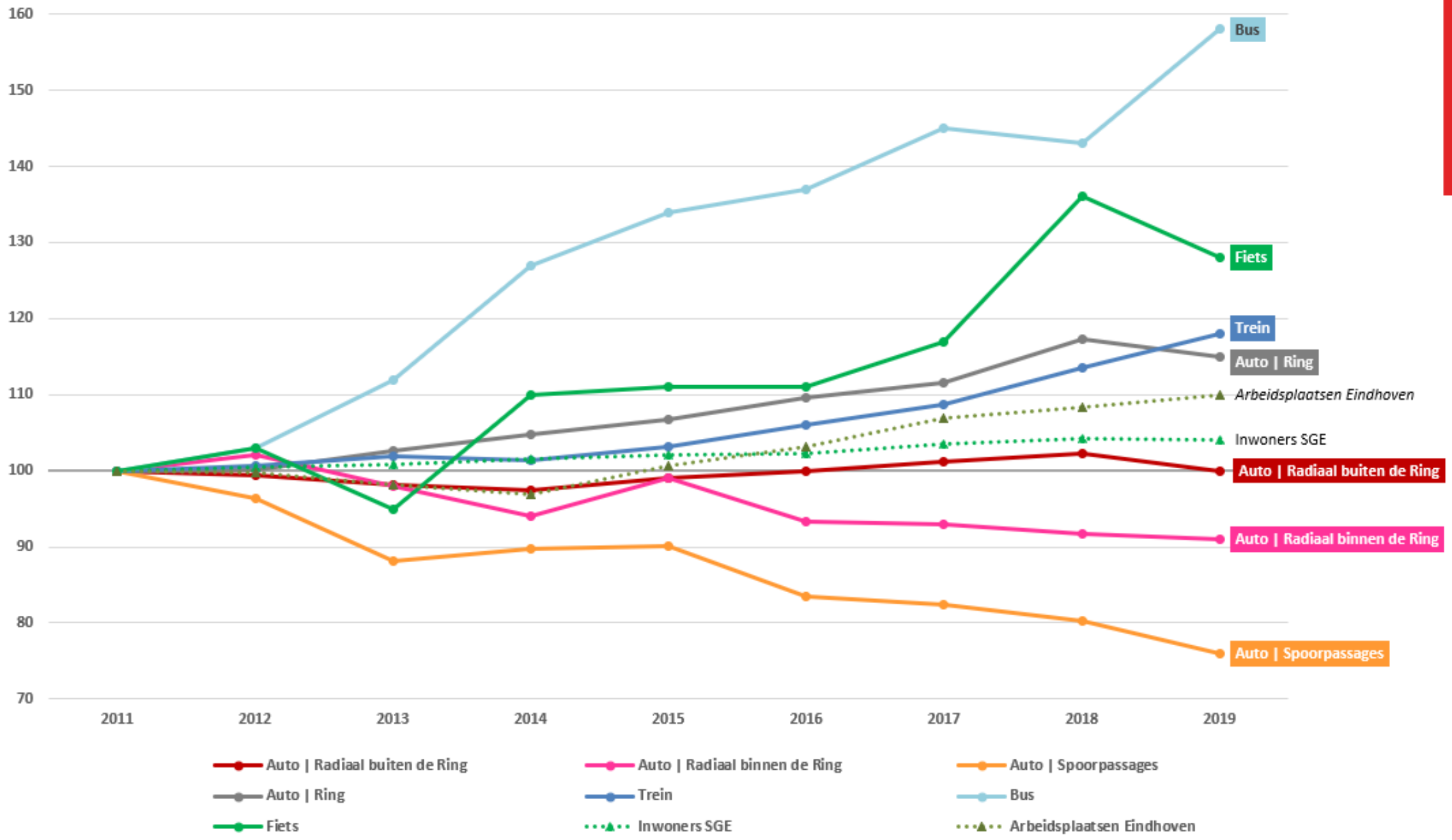








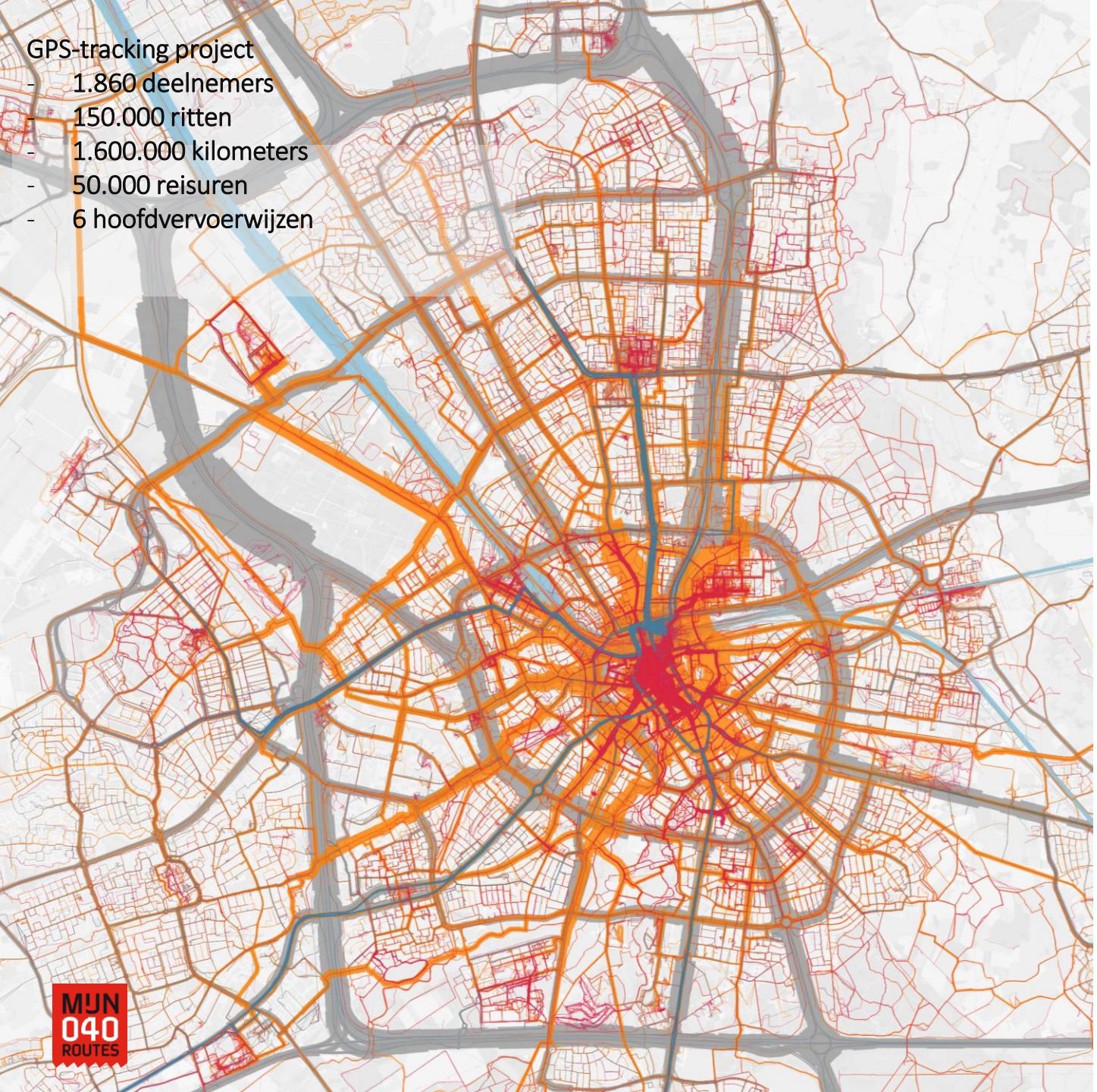
CAR TRAFFIC CALMING

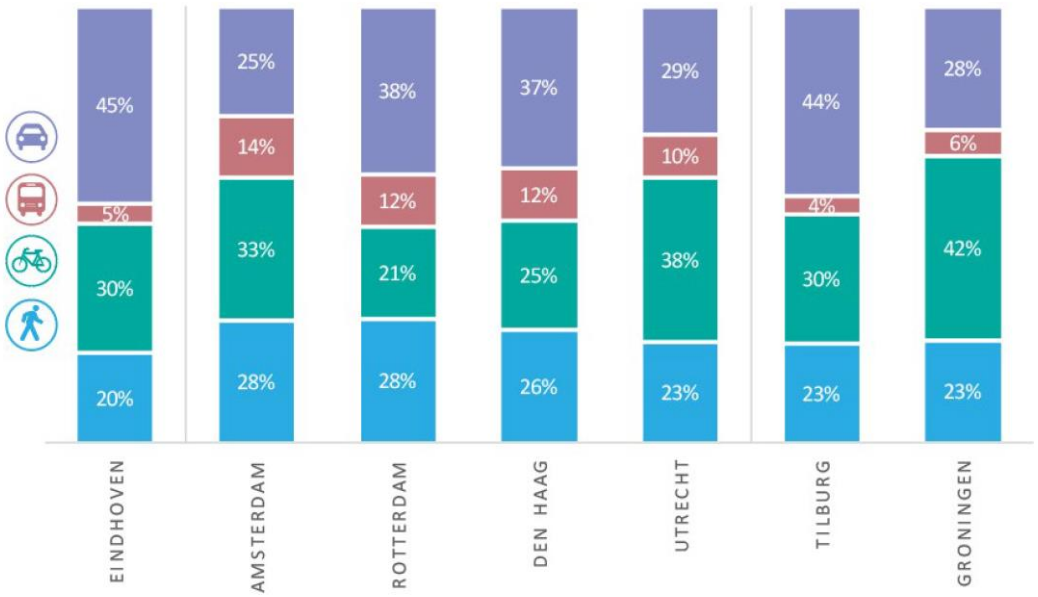

160
150
140
130
120
110
100
90
80
70
2011
2012
2013
2014
2015
2016
2017
2018
2019
Bus
Fiets
Trein
Auto | Ring
Arbeidsplaatsen Eindhoven
Inwoners SGE
Auto | Radiaal buiten de Ring
Auto | Radiaal binnen de Ring
Auto | Spoorpassages
Auto | Radiaal buiten de Ring
Auto | Radiaal binnen de Ring
Auto | Spoorpassages
Auto | Ring
Trein
Bus
Fiets
Inwoners SGE
Arbeidsplaatsen Eindhoven

EINDHOVEN

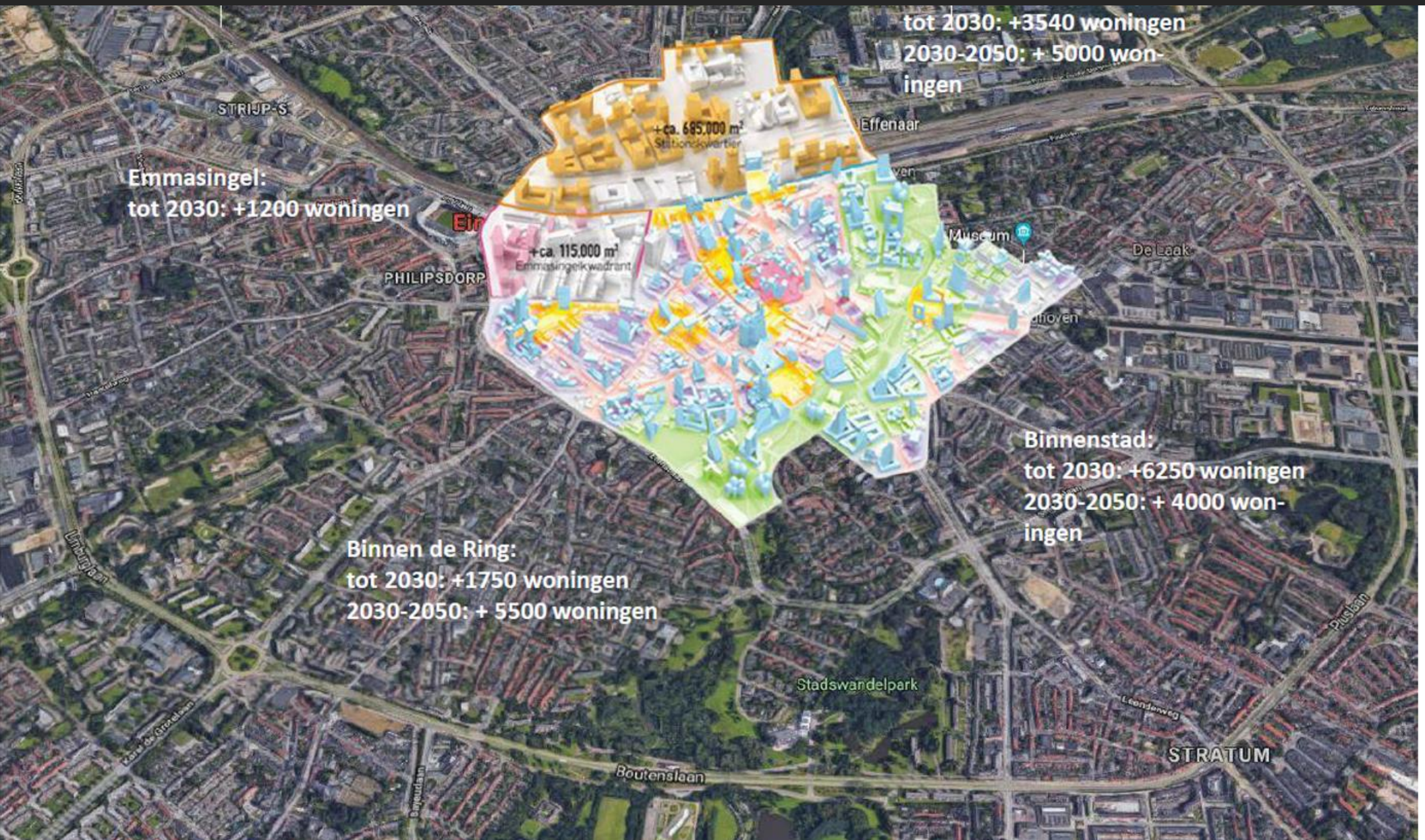
GPS-tracking project

- 1.860 deelnemers
- 150.000 ritten
- 1.600.000 kilometers
- 50.000 reisuren
- 6 hoofdvervoerwijzen



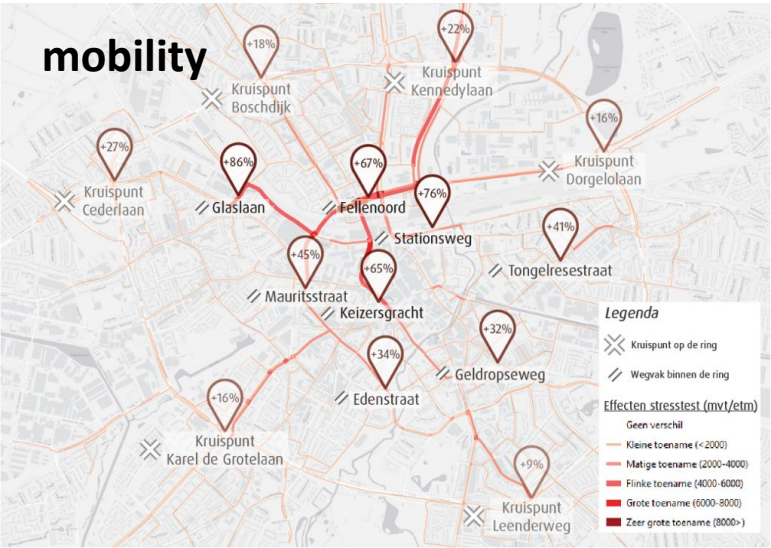


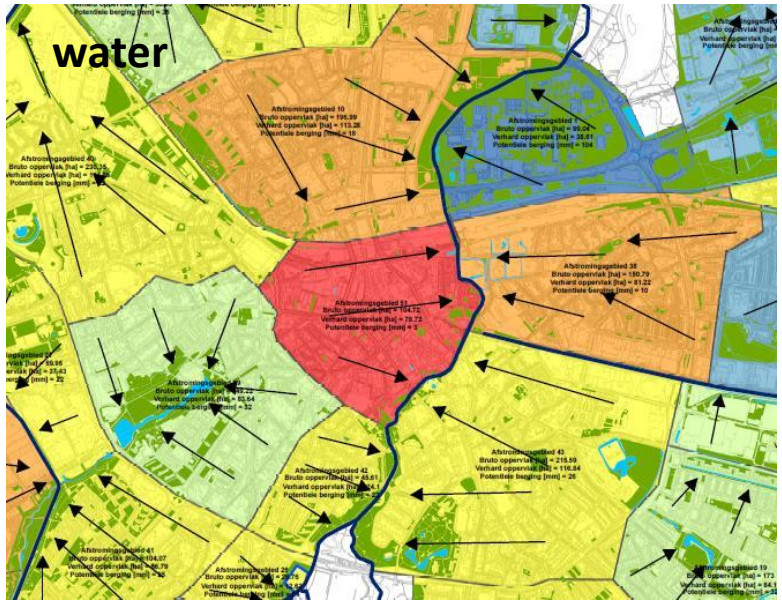
FUTURE

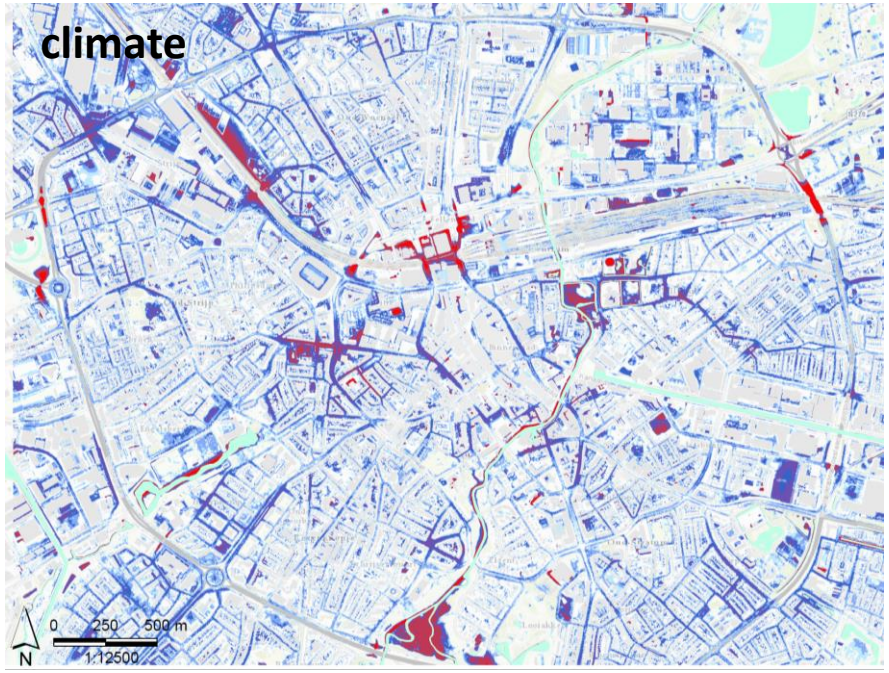


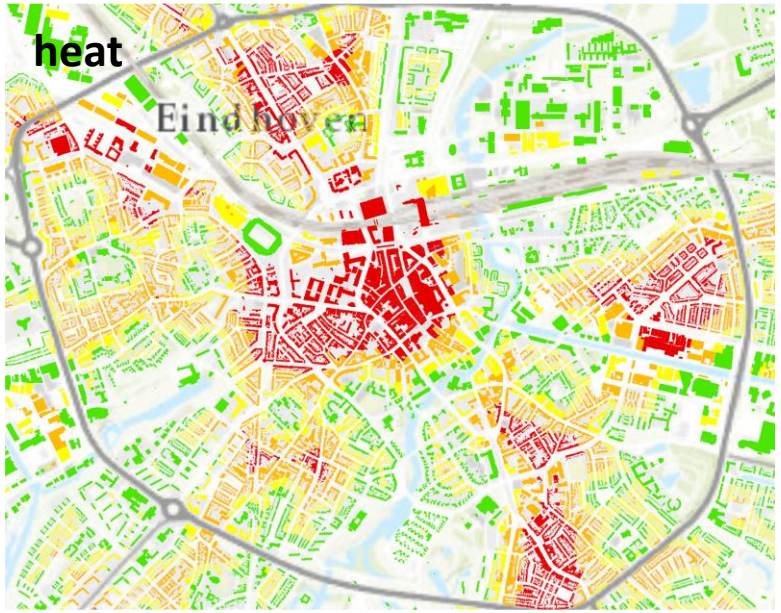
2040:

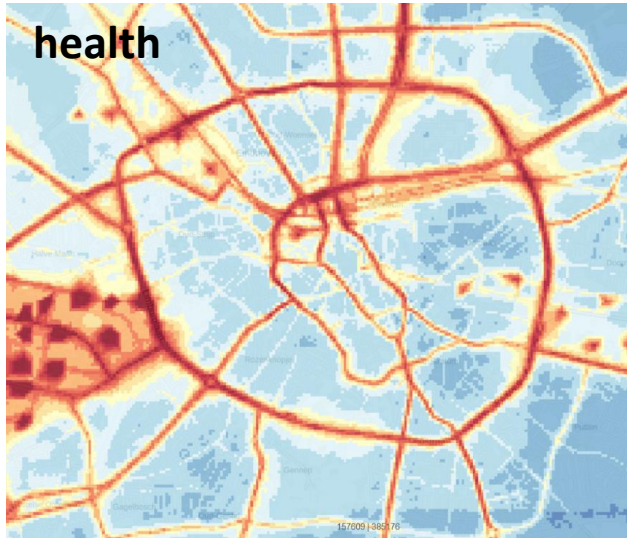
+ 30.000 dwellings
equal amount jobs
+ 1 mln m2 facilities

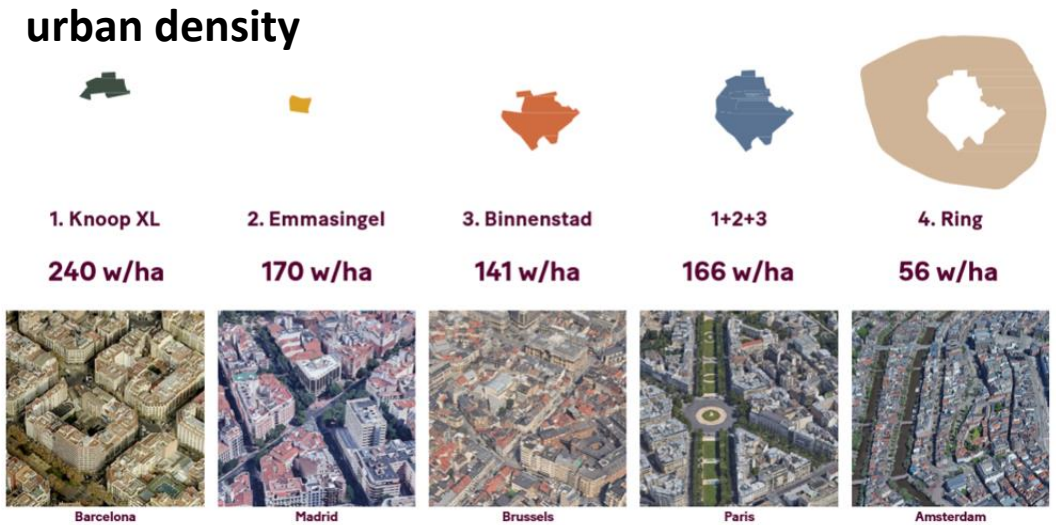












ANALYSES STRESSTESTS GOALS

Result:

+21.000 dwellings max

Integral approach

Focus areas:
- Inner city
- Central station area
- BRT corridors

Amplifying mobility transition

Less asfalt, More green

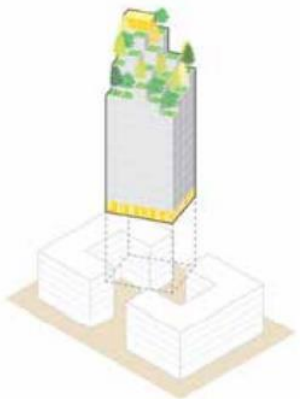
Watermanagement

Redesigning public space

Developping towards
-> City for People

FUTURE DOWNTOWN BRAINPORT CONCEPT

1
De Eindhovense laag



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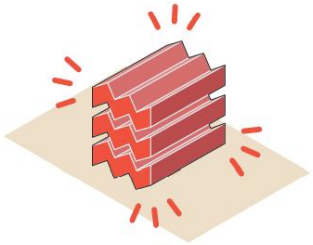
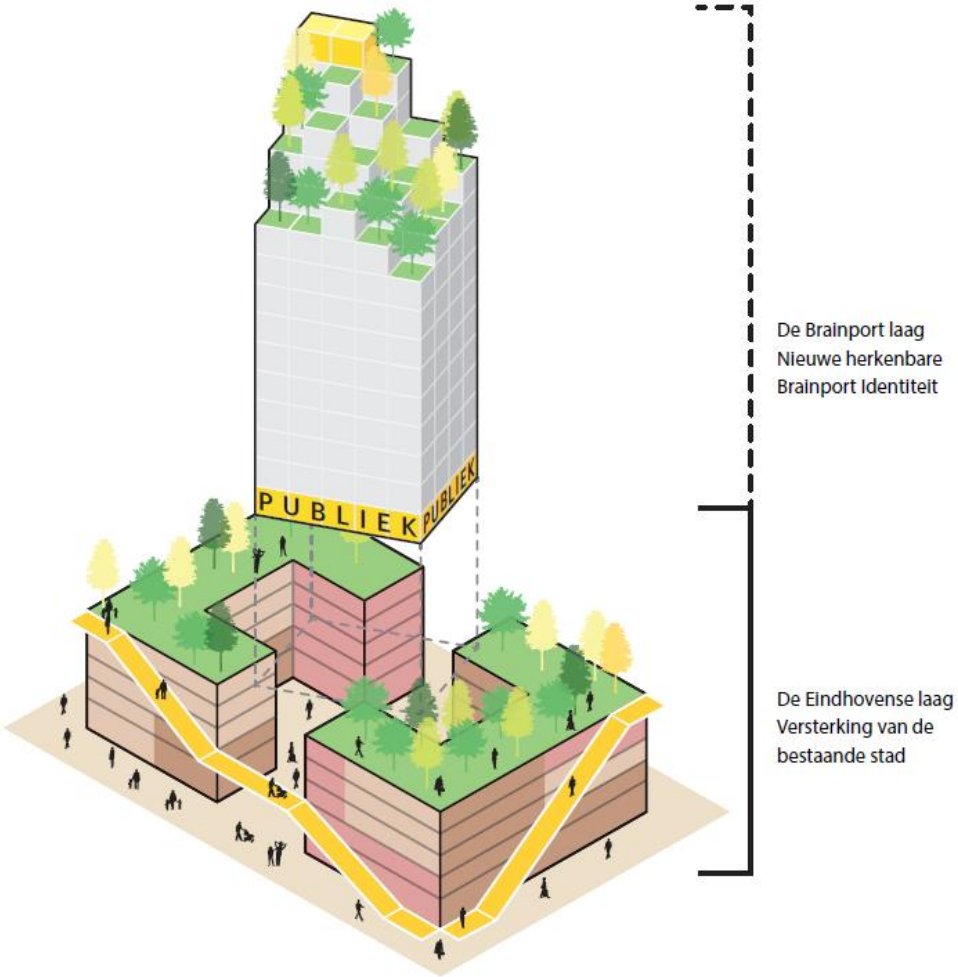
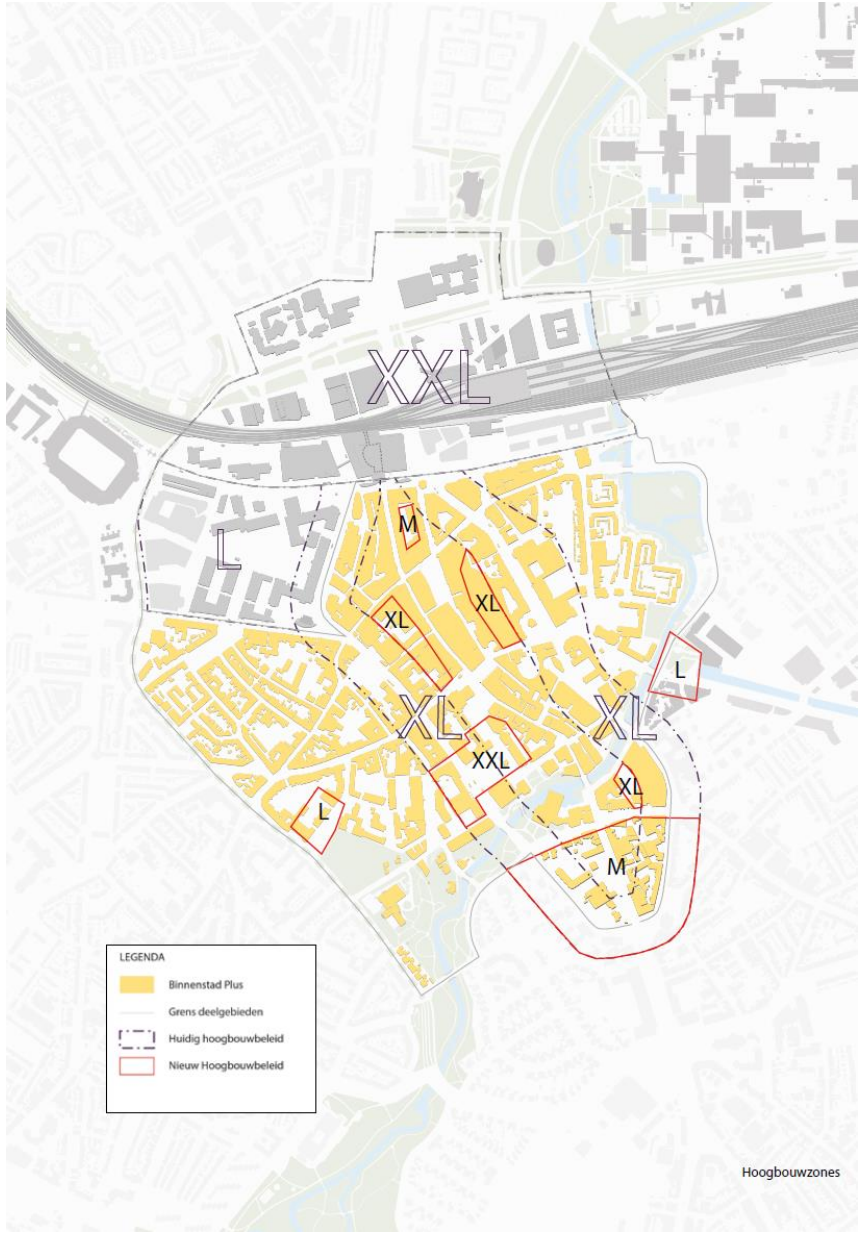
De Brainport laag



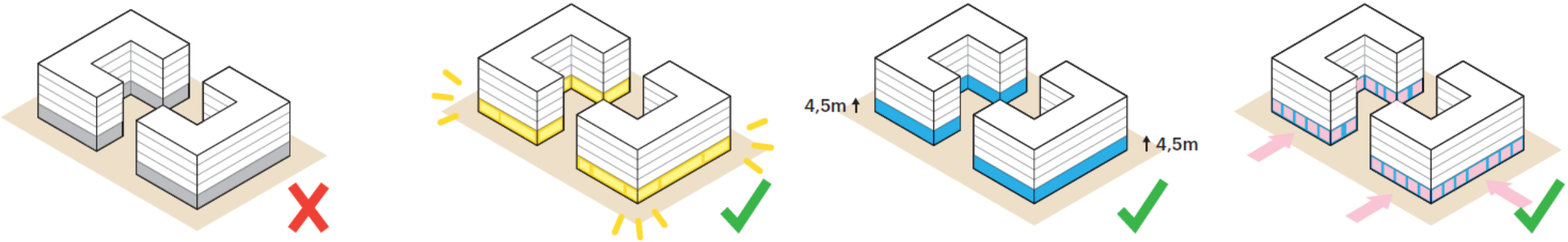
3
Speciale gebouwen



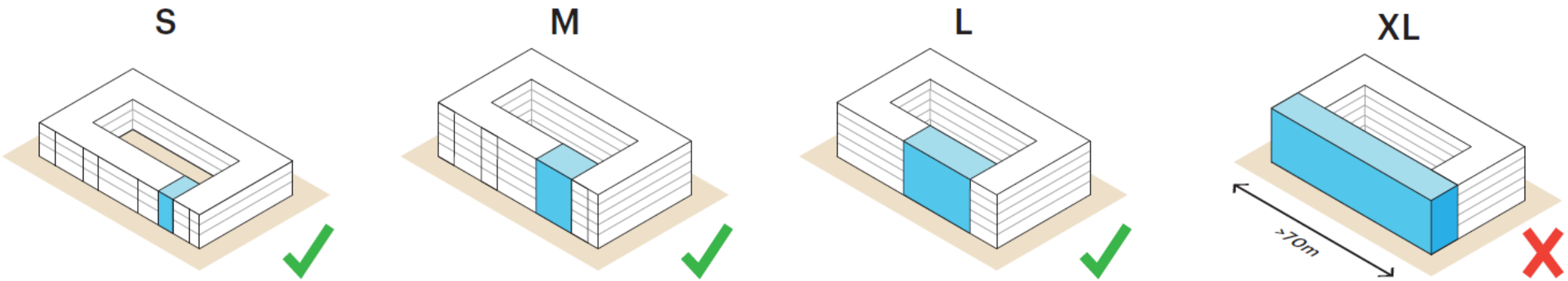


URBAN DENSIFICATION STRATEGY

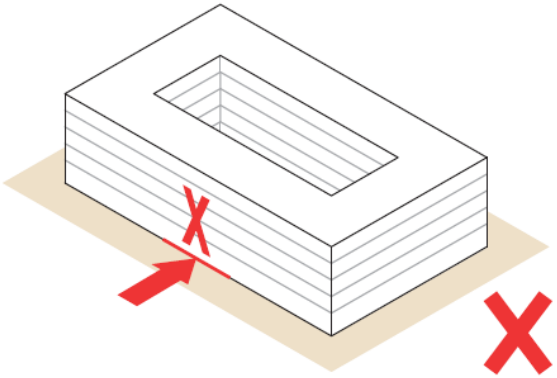
Groud floors: active, divers

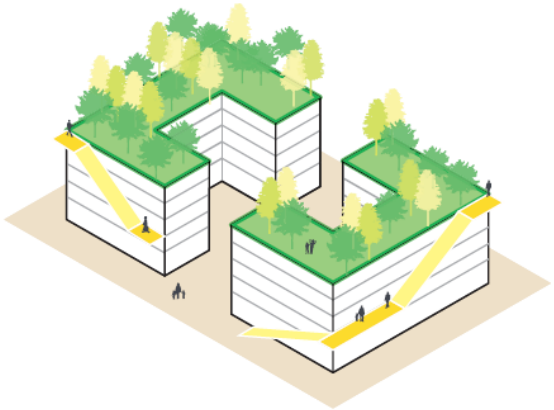


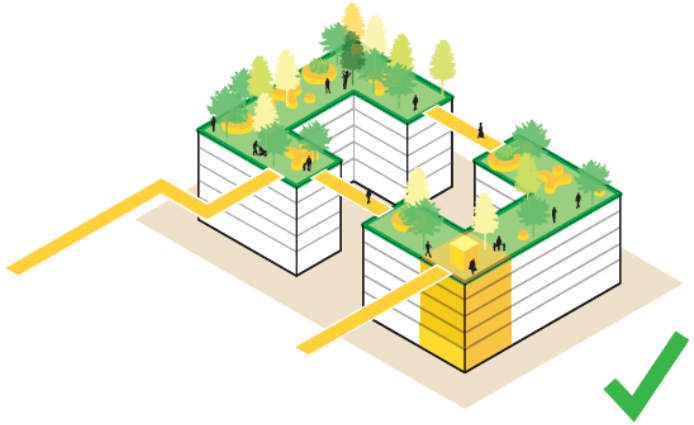
Block size : historical, not larger than 70



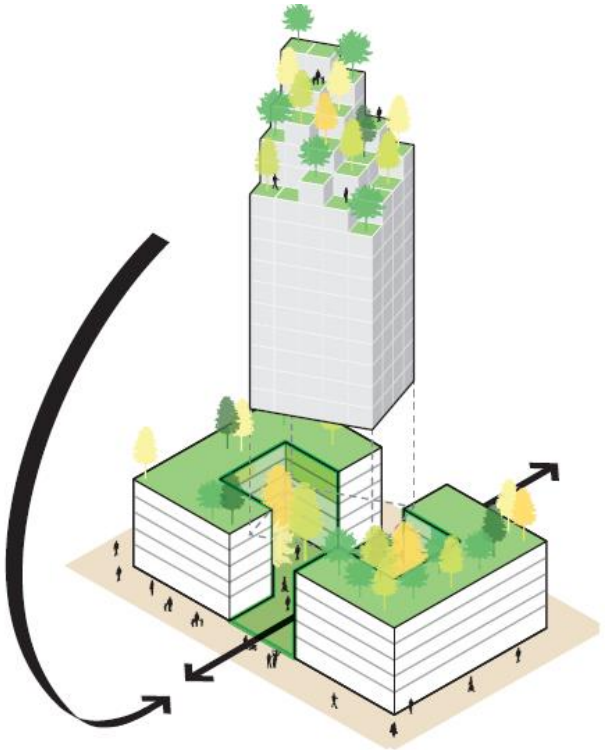
accessibility: fine grained, lively, meeting spces, social safe, introduction of second ground levels







also at bigger blocks



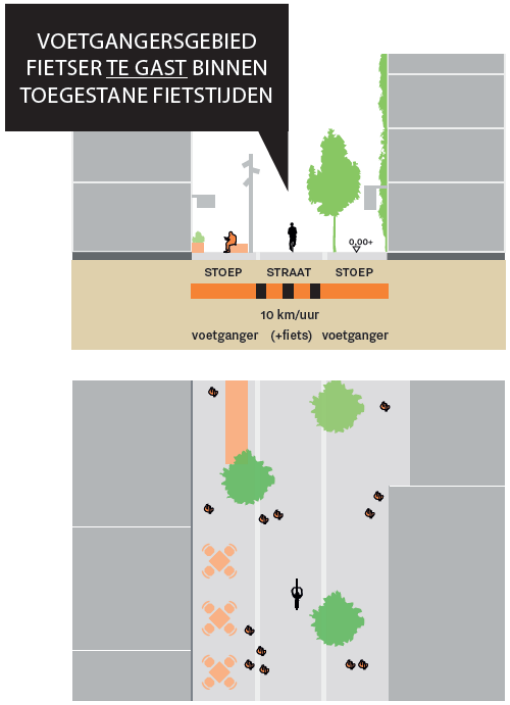
EINDHOVEN

Brabant landscape

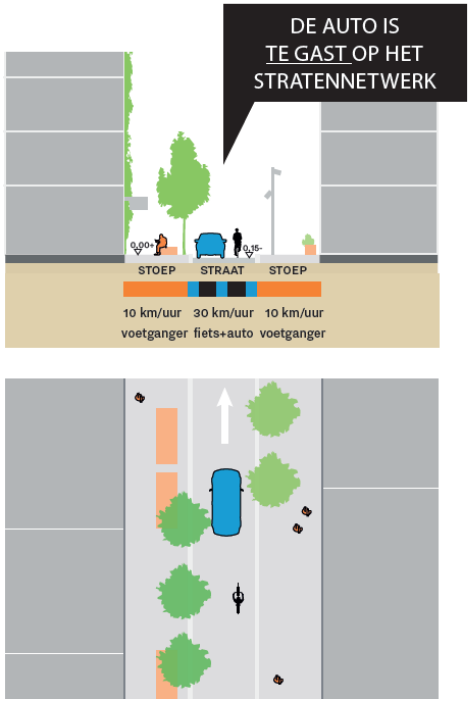
(stream valley, moor, pine forest, meadow)

BRABANT LANDSCAPE

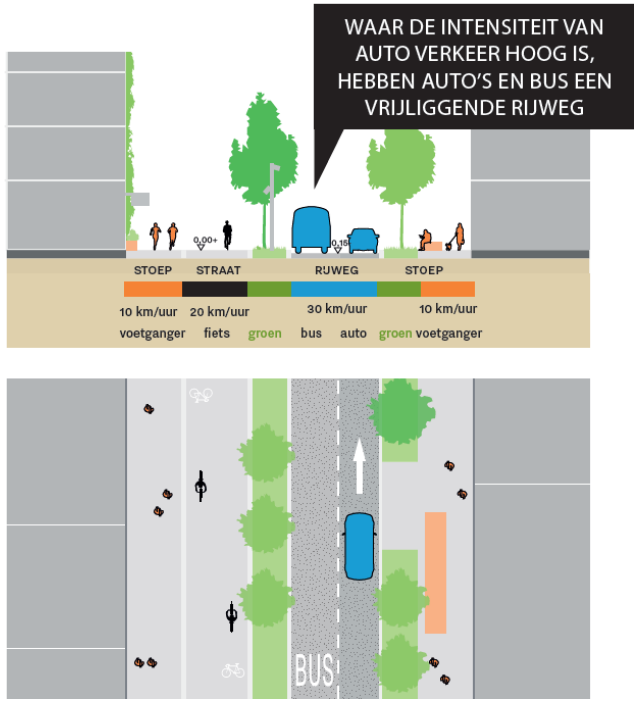
CENTRUMSTRATEN
VOETGANGER

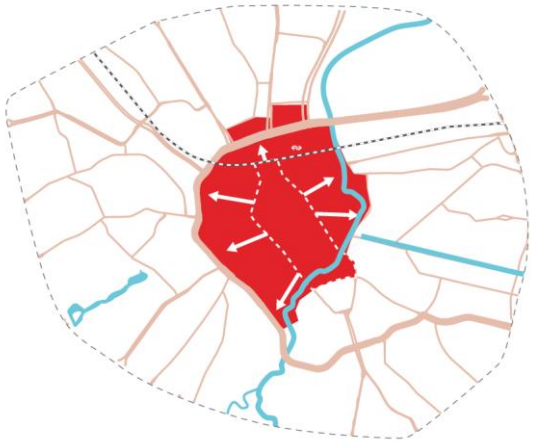


CENTRUMSTRATEN
FIETSER+AUTO



CENTRUMSTRATEN 'PLUS'





CONTINUOUS CONNECTING PUBLIC SPACE DESIGN

contessa

Eindhovense steen past bij de zone als verblijfs- en entree gebied. Tevens onderhoudsvriendelijk.
Asfalt benadrukt continuiteit en richtingsloosheid
Natuurstenen sierlijnen zorgen voor ruimtelijke contin

Boomsoorten uit Brabants landschap
Bomen gestrooid in de straten
Groen op ooghoogte

EINDHOVEN

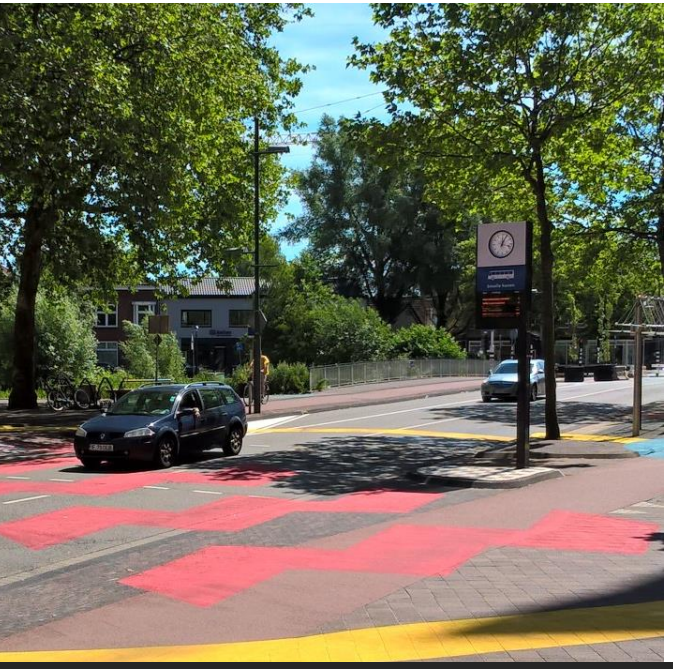
IN THE MEANTIME

18 Septemberplein

Catharinaplein

Clausplein

Emmasingel quarter and Victoriapark



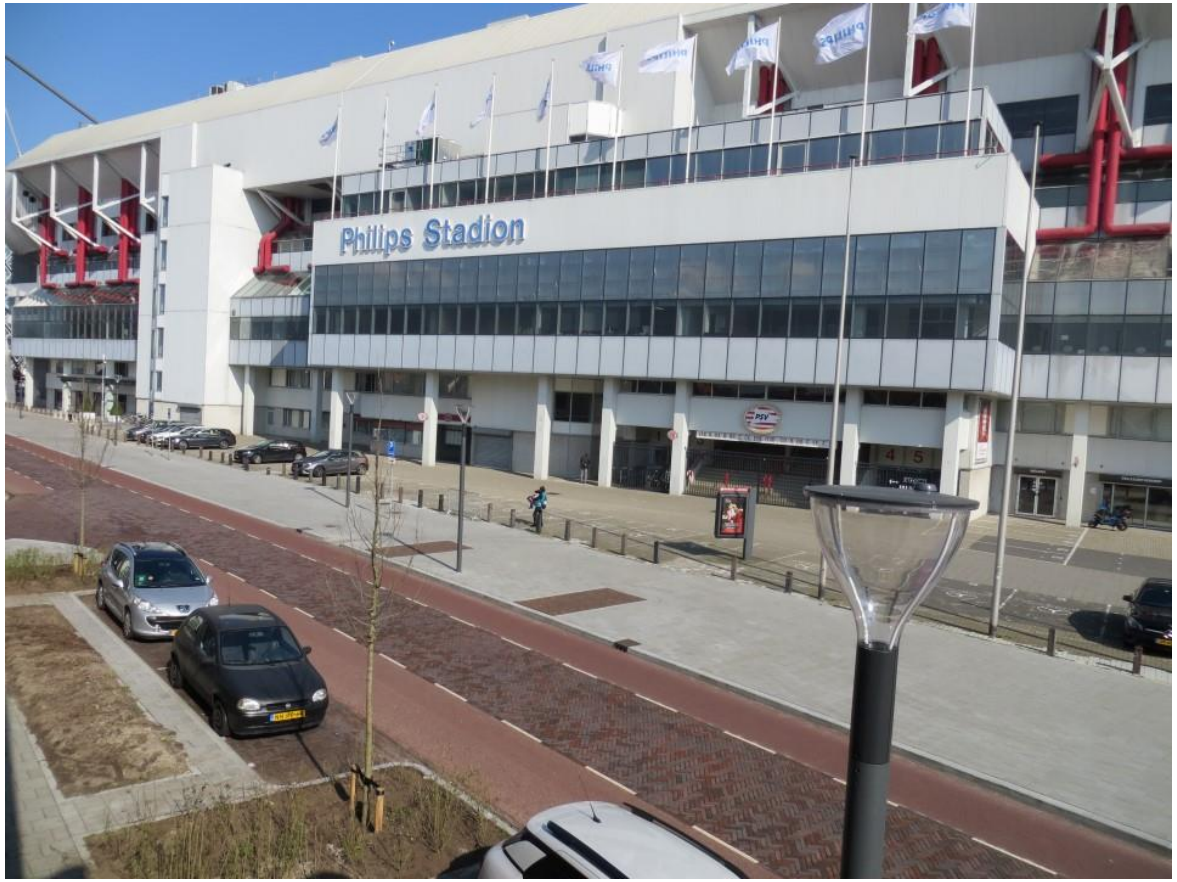
ON STREET TESTCASE VESTDIJK

City centre ring road Vestdijk 2017

foto’s: Nanda Sluijsmans

City centre ring road Vestdijk 2020

Vestdijk 2020

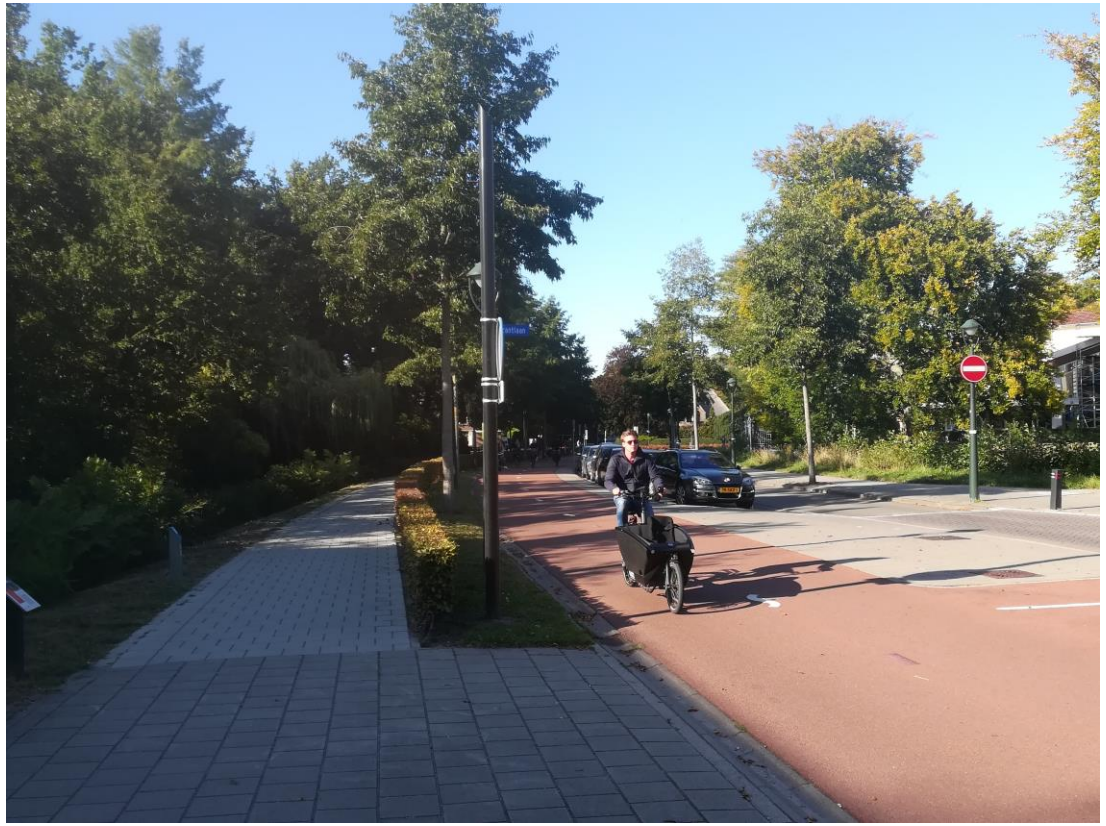


Historical radial routes (Strijp, Philipsroute)

Torenallee (Strijp-S)

Historical radial routes

Hoogstraat - Gestel



Slowlane

District-E

Ooghoogte vanaf Stationsplein
Artist impression door Absent Matter
Cie.

Lichthoven

VDMA vanaf de Vestdijk

Herkenbare constructie van de torens van VDMA blijft ongewijzigd

Zusterflat

Impressie

Central Station area Fellenoord

Eindhoven Centraal
Bravo

THANKS FOR YOUR ATTENTION!

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