

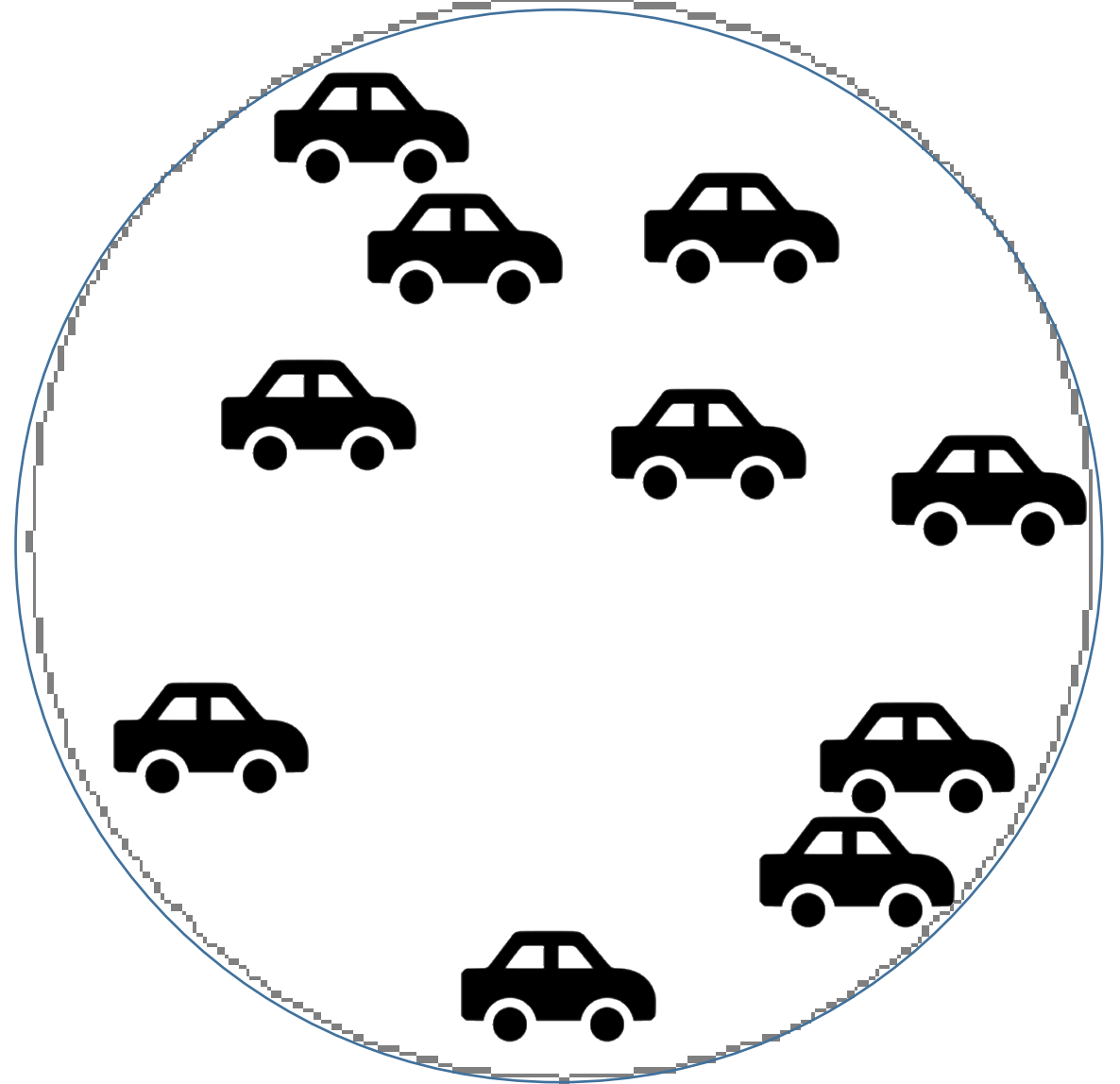
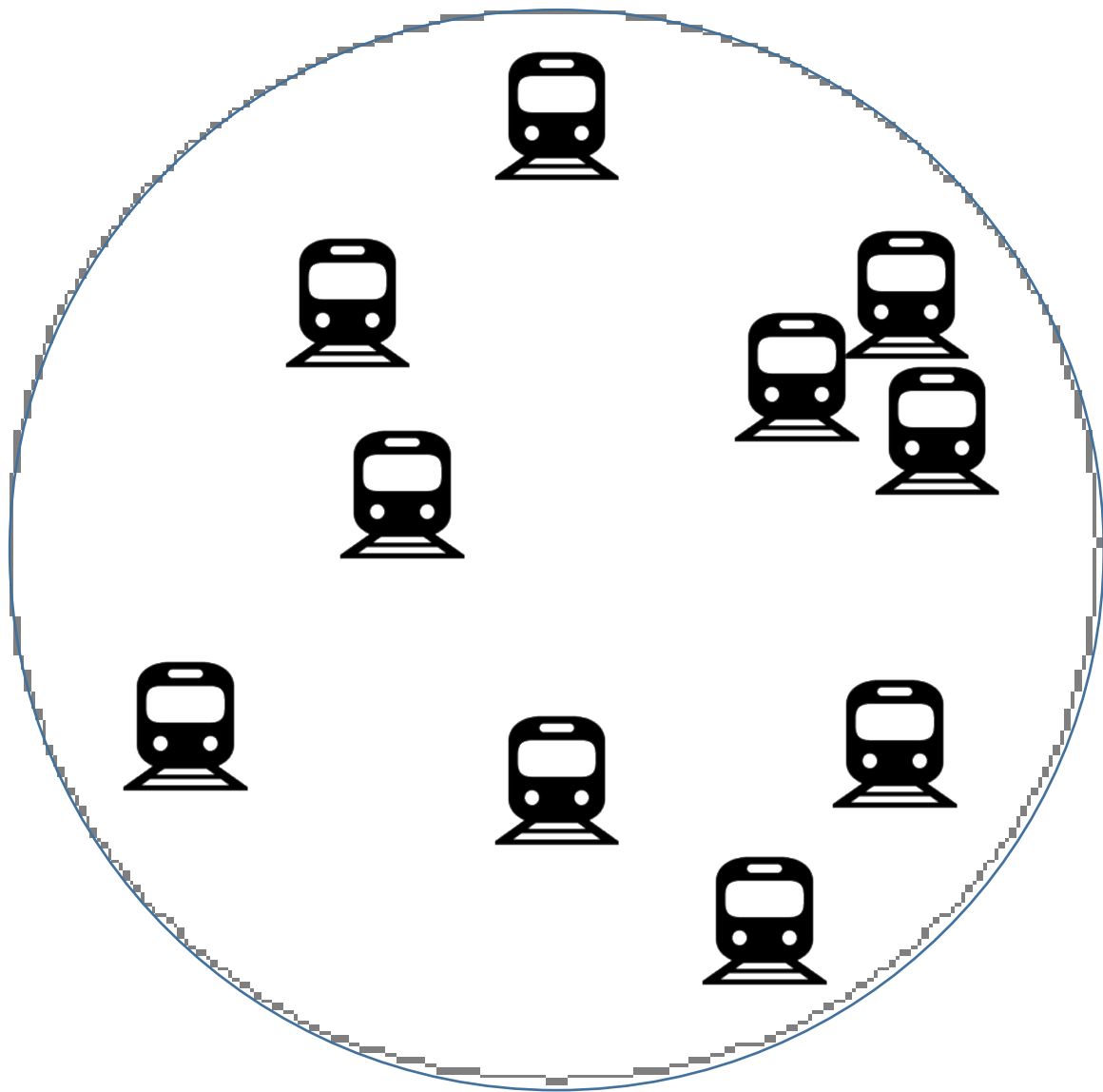


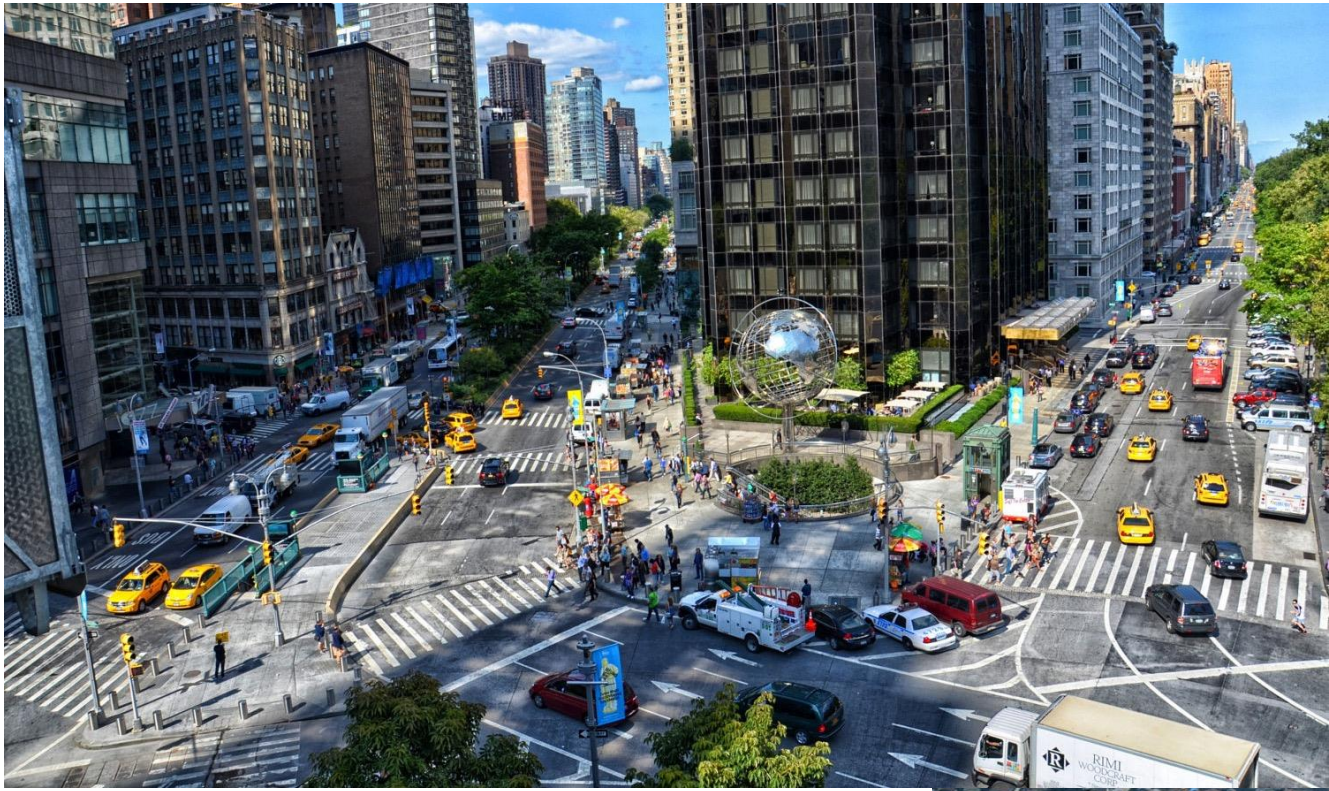
# The Relevance of Oslo's Car-Free City Agenda to Newcastle

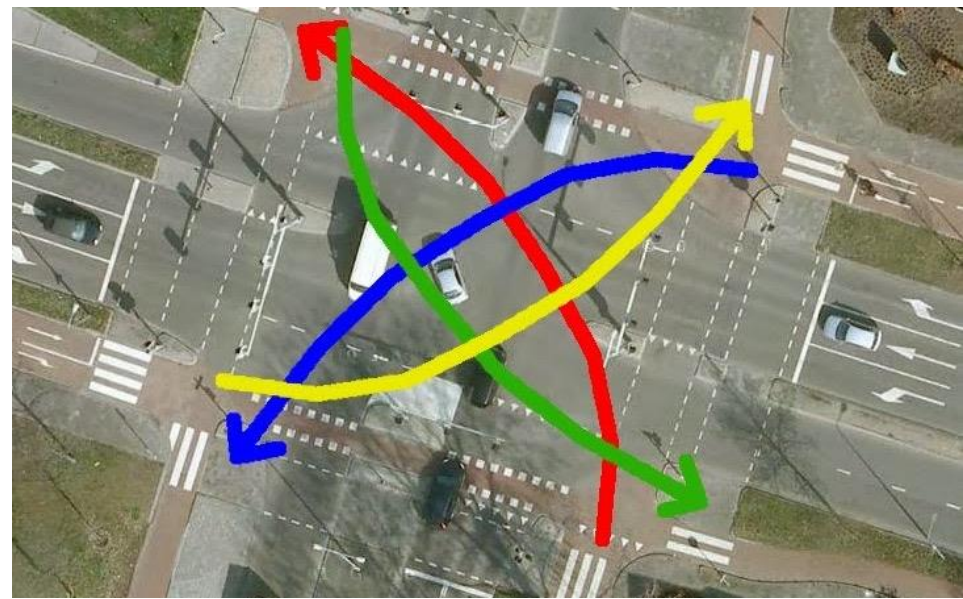
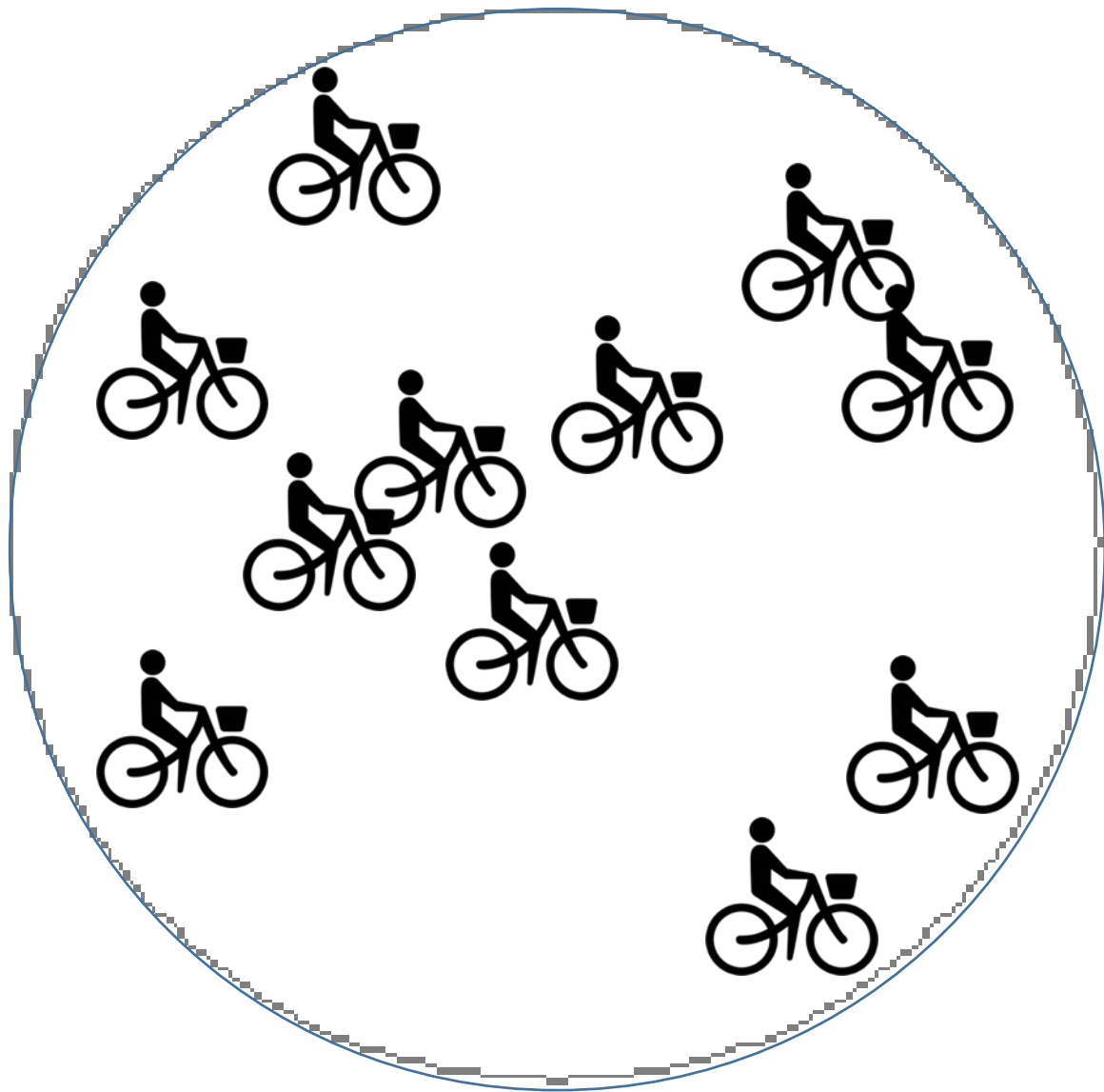
Steven Fleming

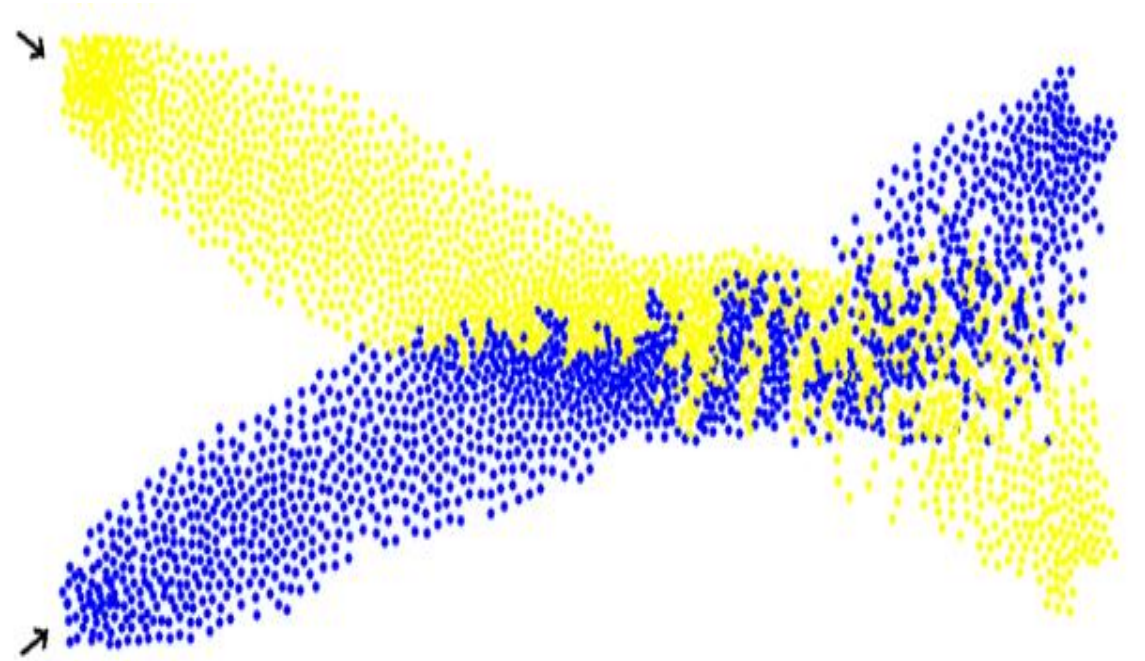
Harsh Fact:

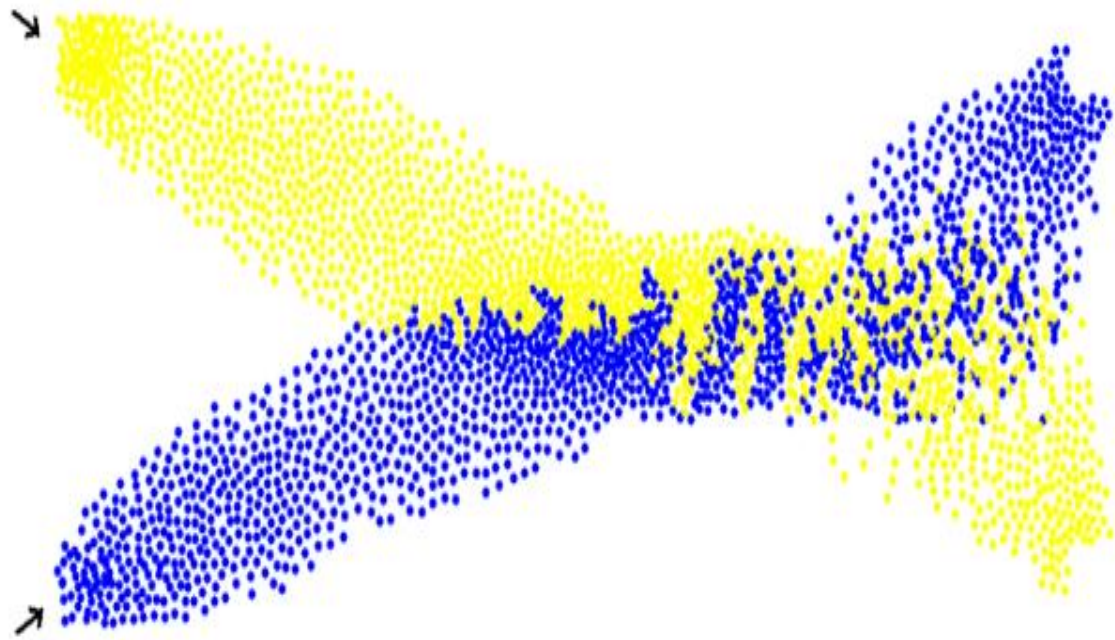
Density slows serial modes  
while quantum modes remain constant.



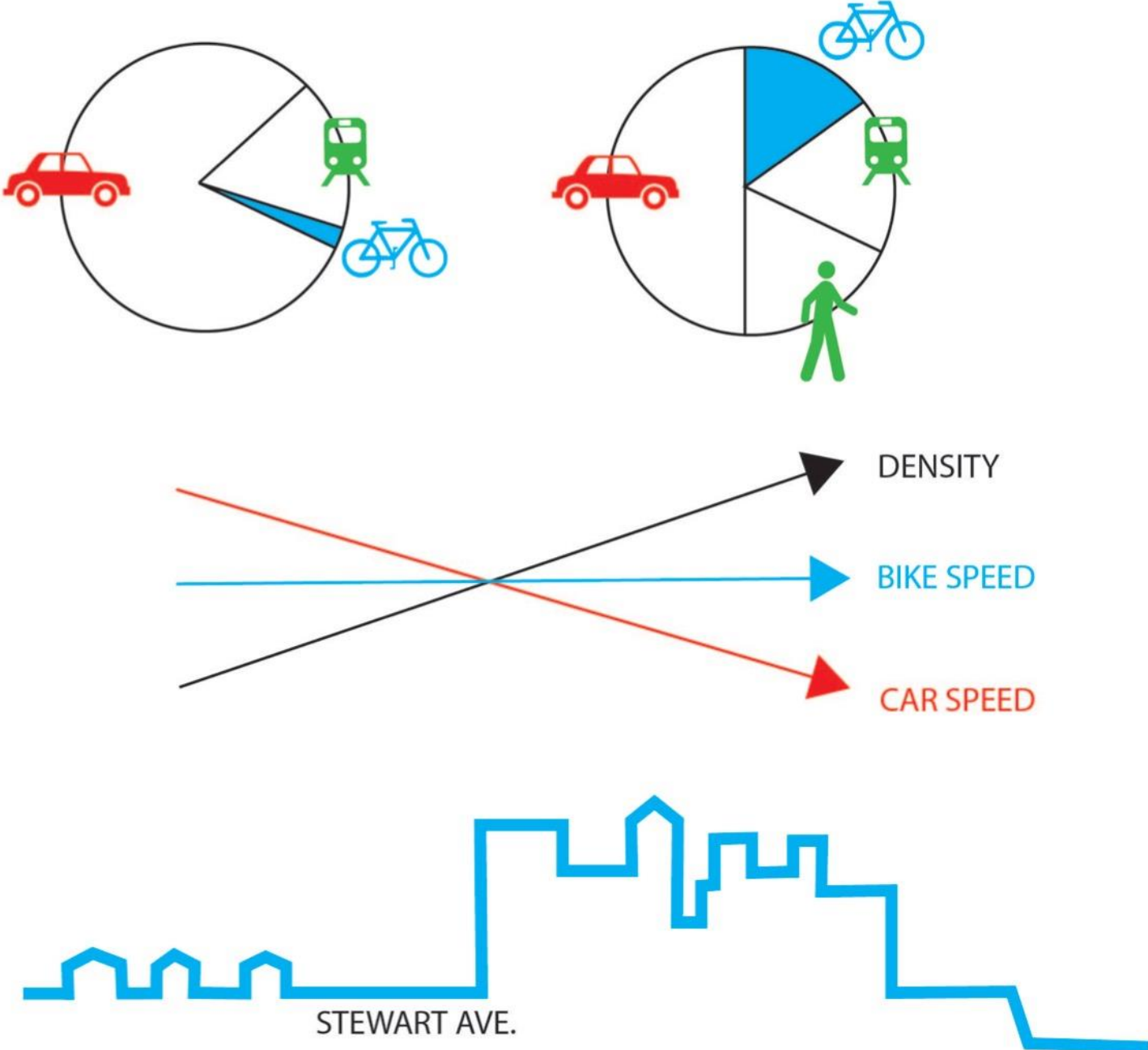








Even if we do nothing...

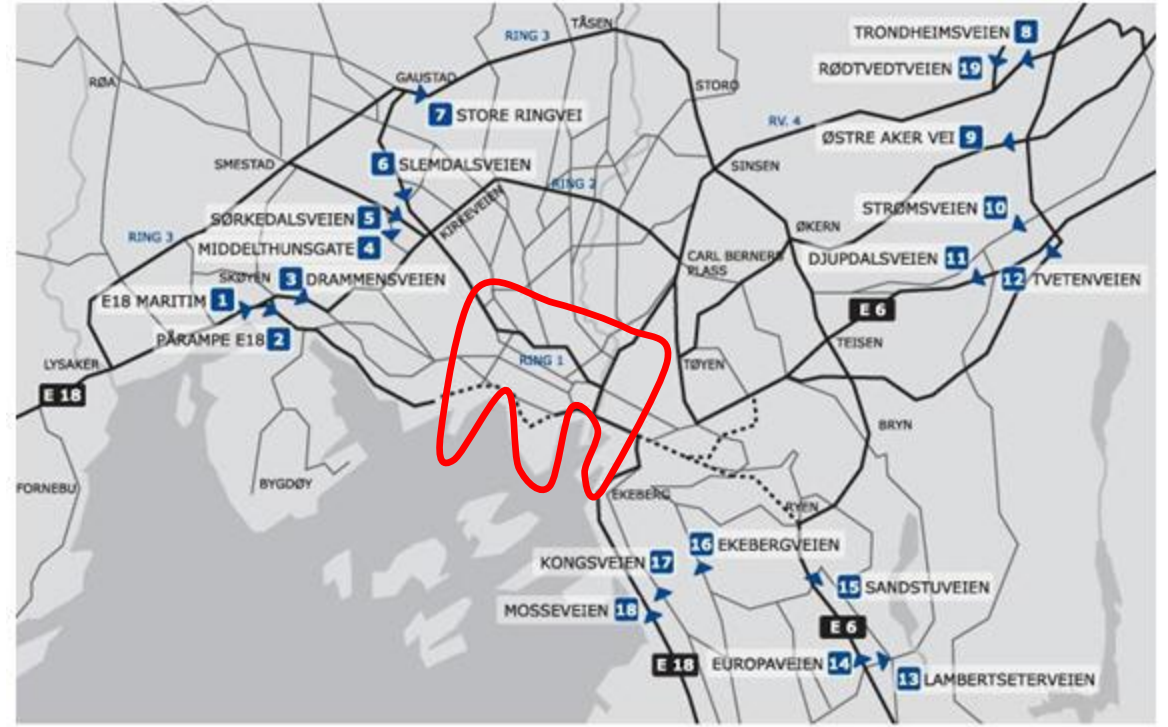
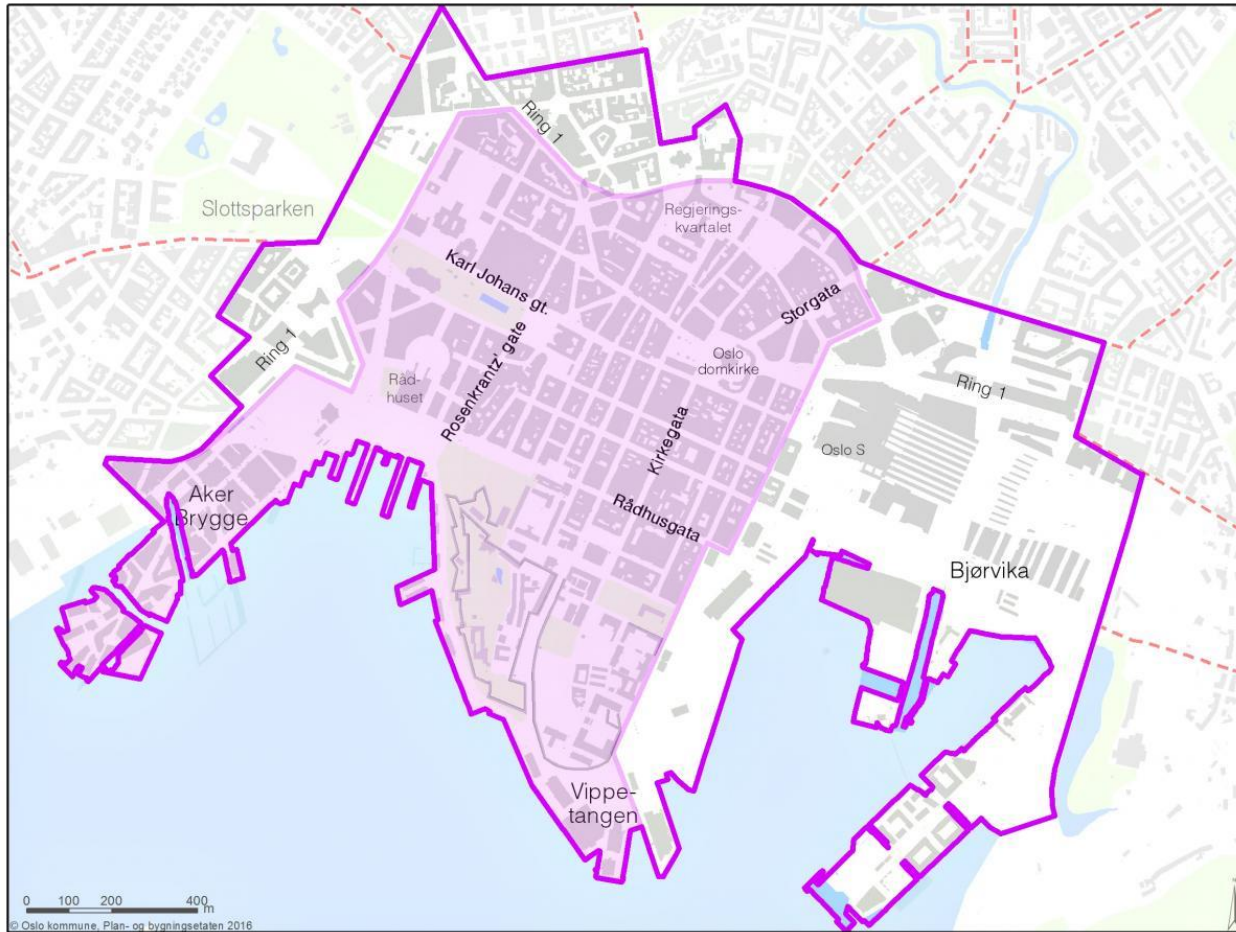


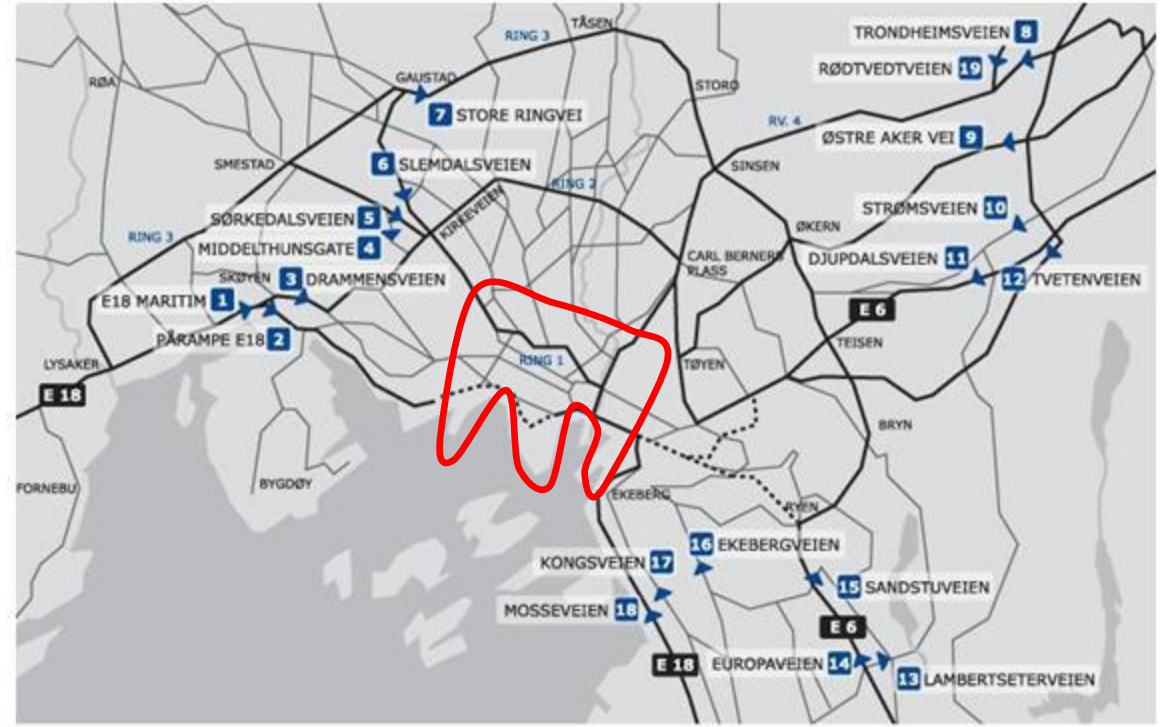
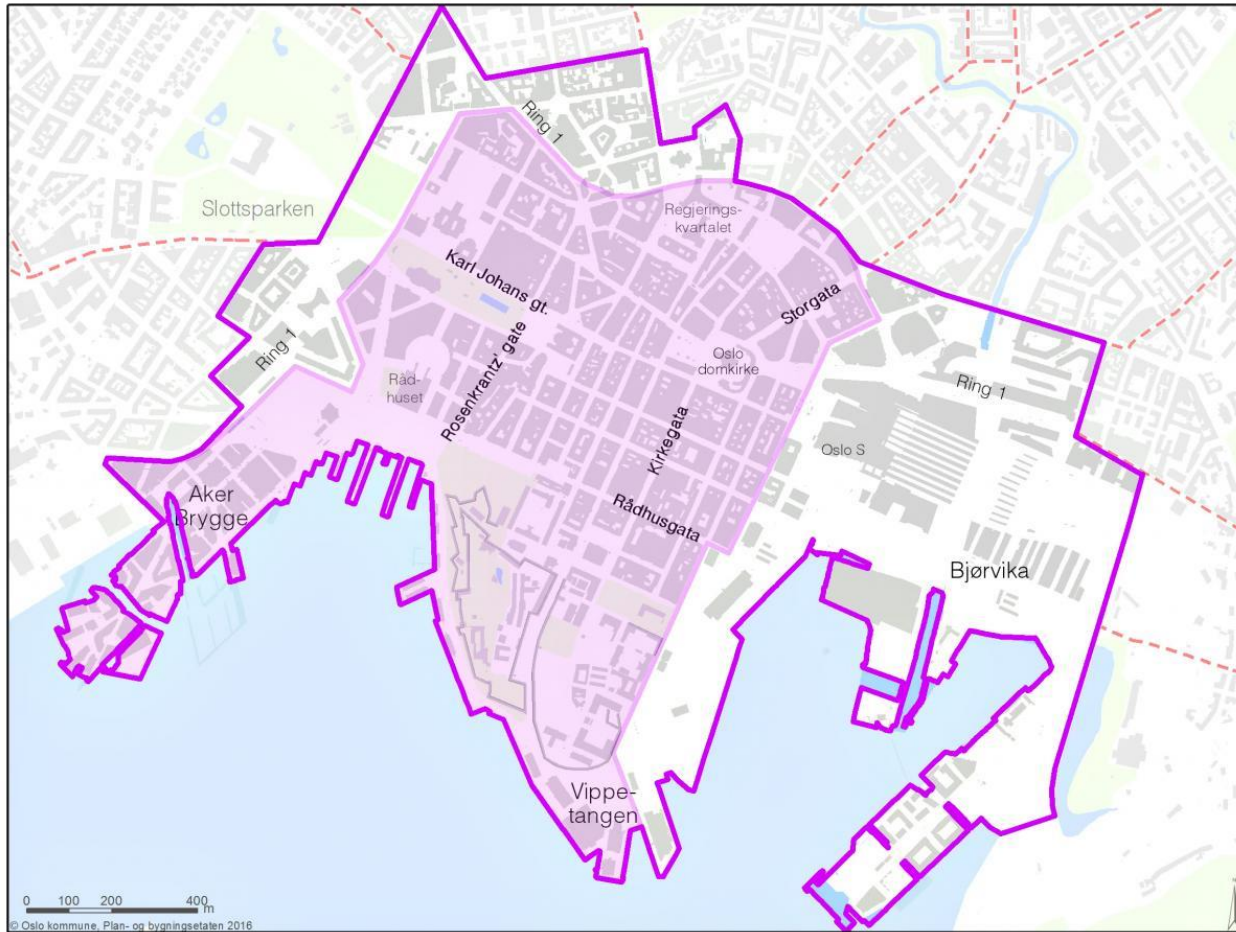


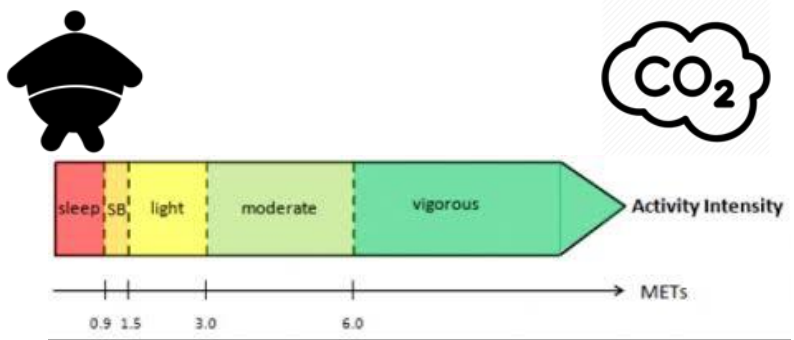
Ring road  
condition  
already exists



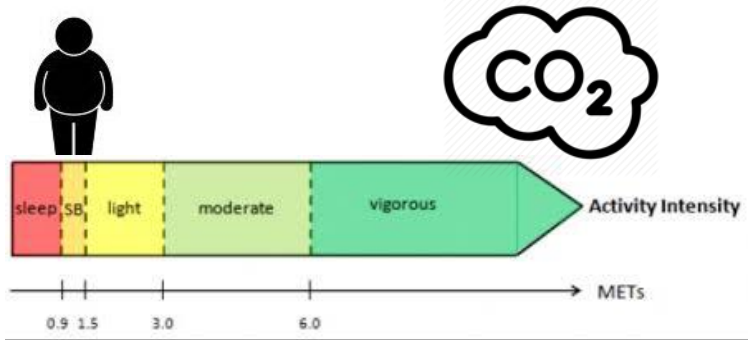




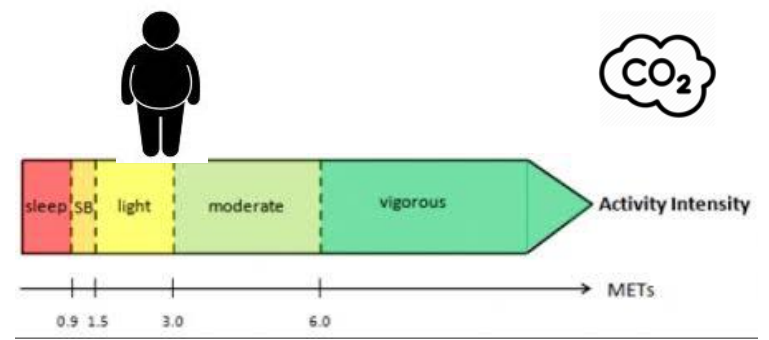




\$

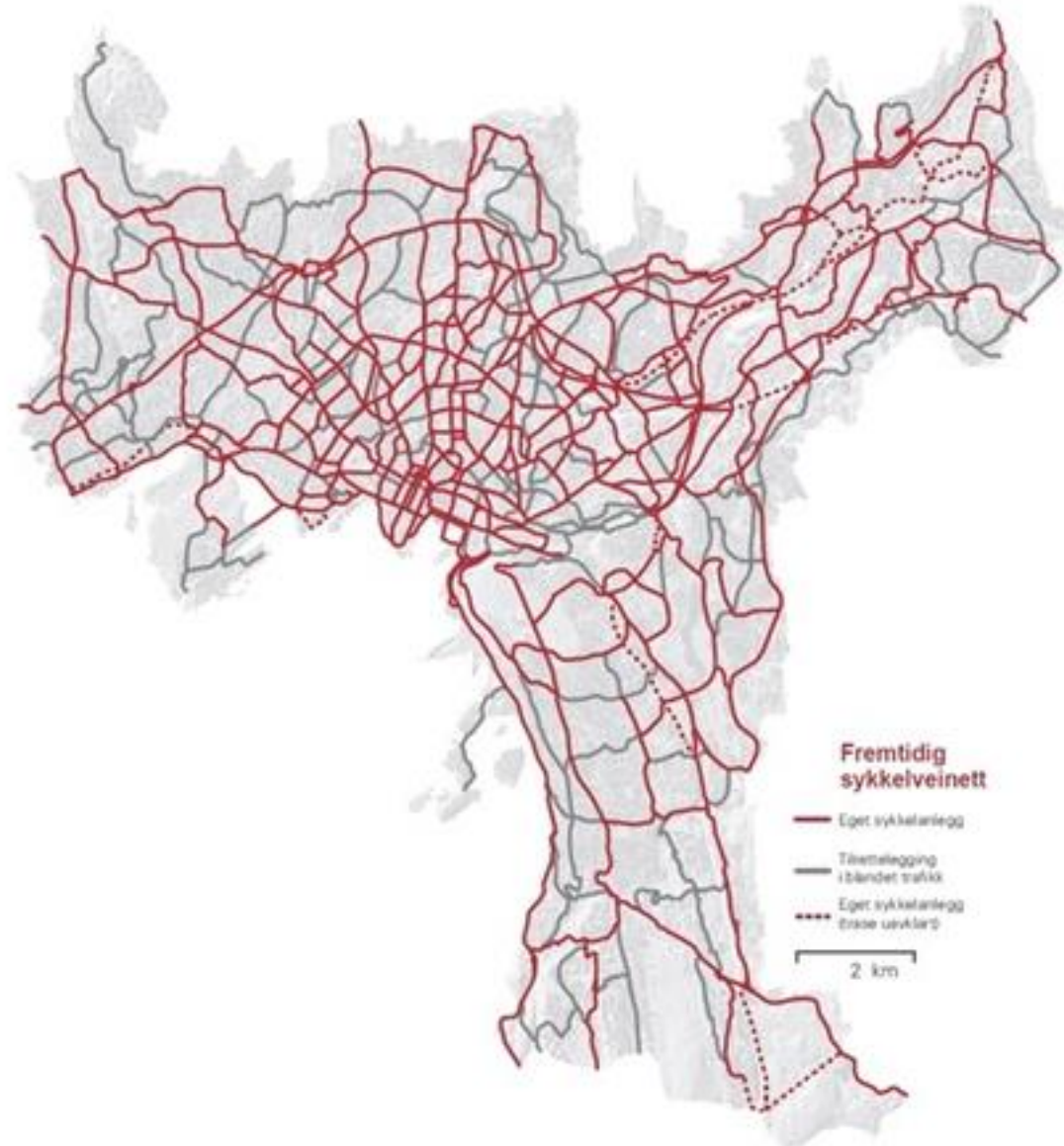


\$



\$











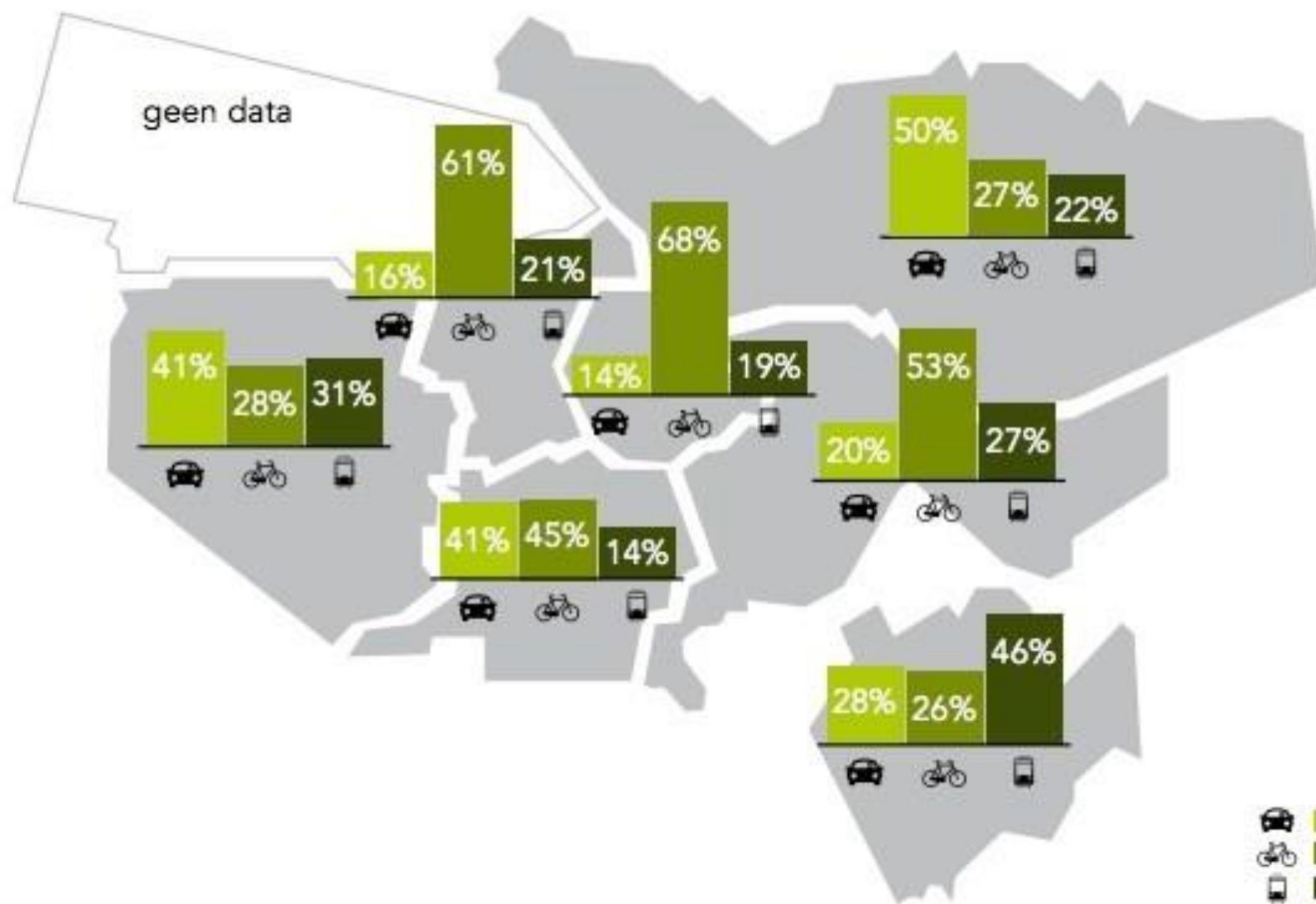


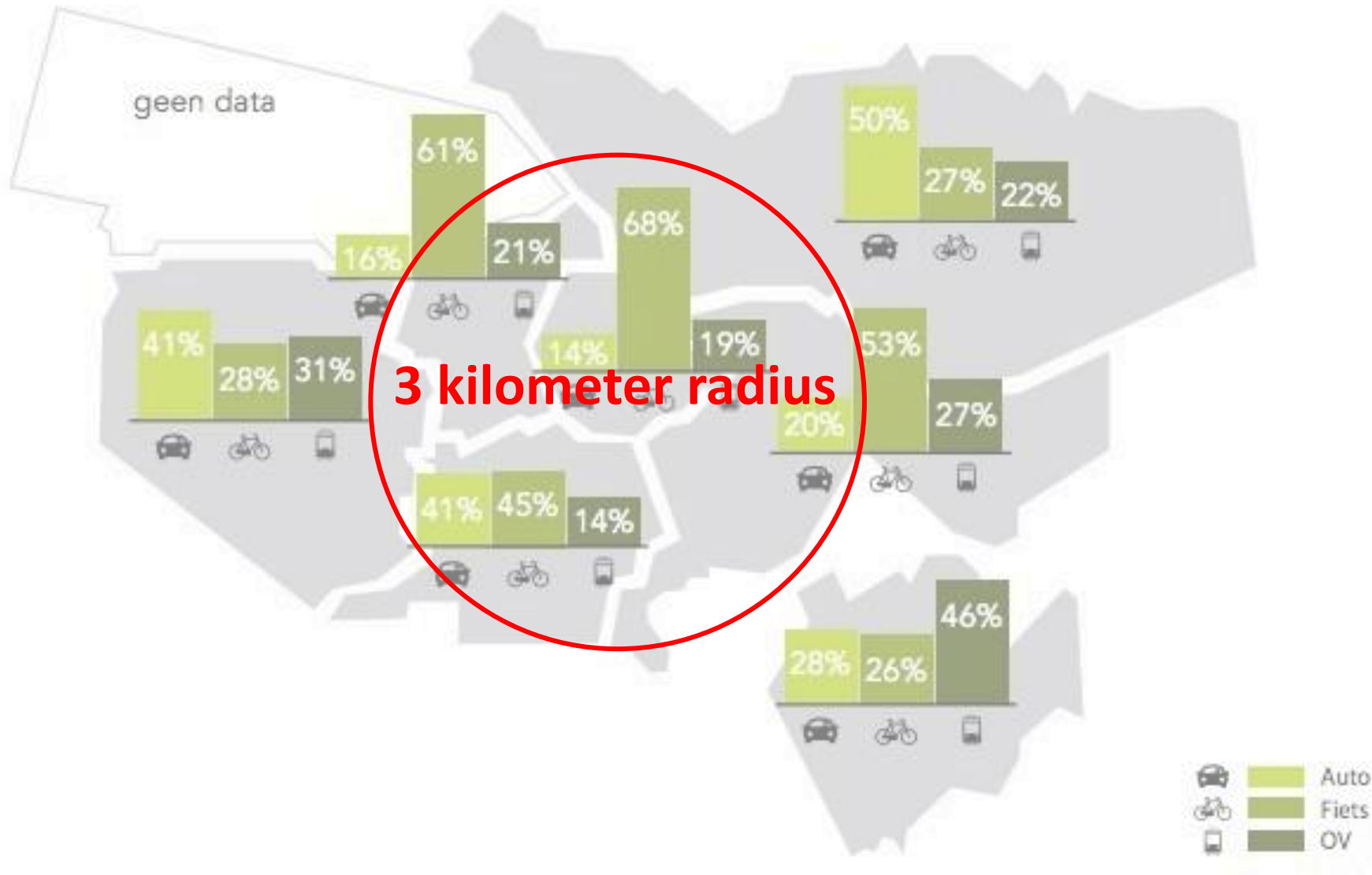


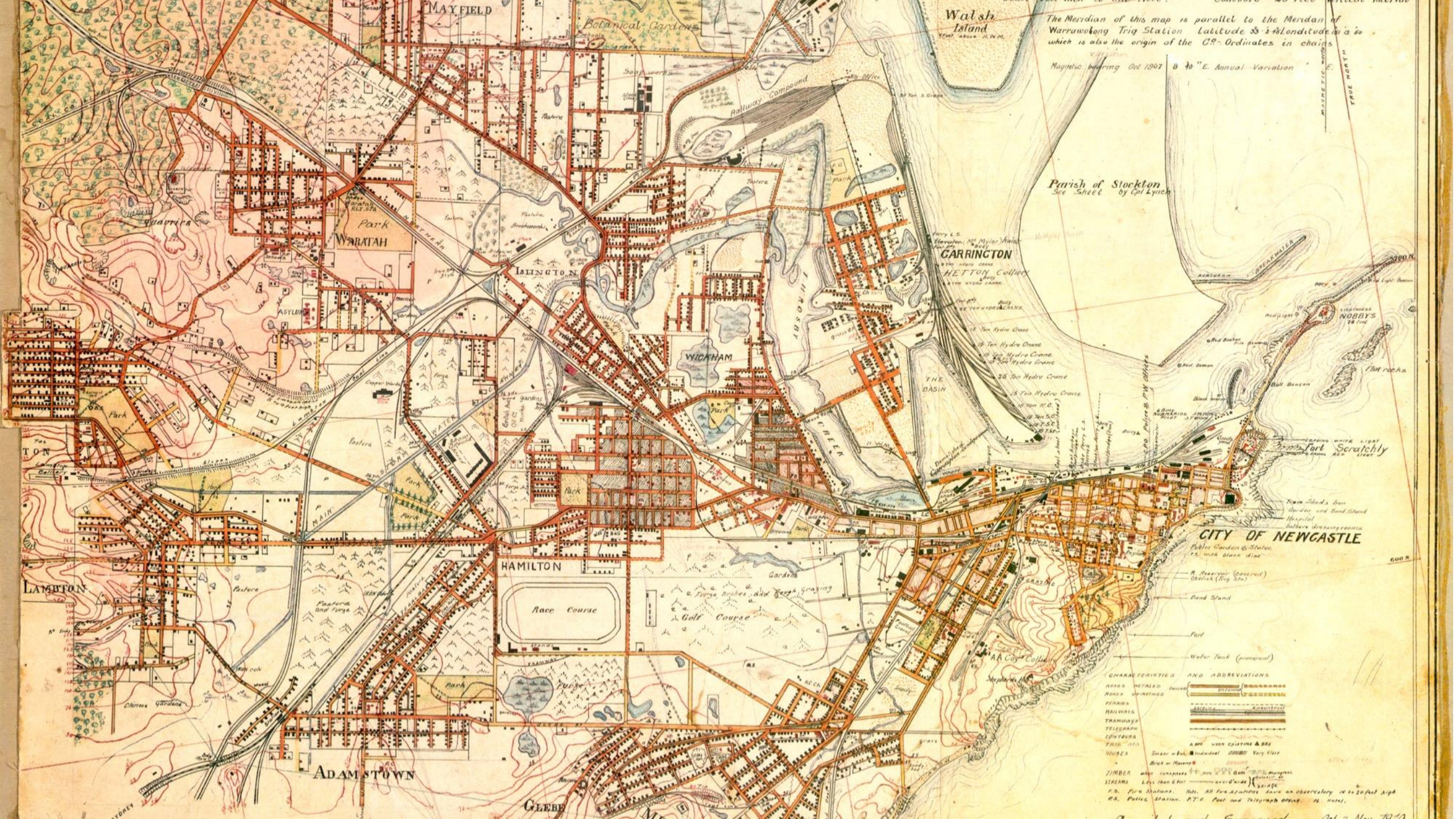


# UNOBTRUSIVE WASTE REMOVAL AND LOGISTICS REGIMES









The Meridian of this map is parallel to the Meridian of Warrawong Trig Station Latitude  $33^{\circ}$  Longitude  $151^{\circ} 30'$  which is also the origin of the C<sup>r</sup>-Ordinates in chains

Magnetic bearing Oct 1867  $8^{\circ} 40'$  E. Annual Variation

Parish of Stockton  
See Sheet by Col Lynch

GARRINGTON  
HETTON Colliery

CITY OF NEWCASTLE  
Public Gardens & Statue  
R.R. with grass slope  
R. Harbour (covered)  
Obelisk (Dry Sea)  
Band Stand  
Fort  
Water Park (proposed)

CHARACTERISTICS AND ABBREVIATIONS

- ROADS METALLED
- ROADS UNMETALLED
- FERRIES
- RAILWAYS
- TRAMWAYS
- TELEGRAPHS
- CENTRES
- TRIG STA
- HOUSES
- JIMBER
- STREAMS
- P.S. Fire Stations
- P.S. Police Station

Pub. by Messrs J.P. & Co. Newcastle N.S.W.

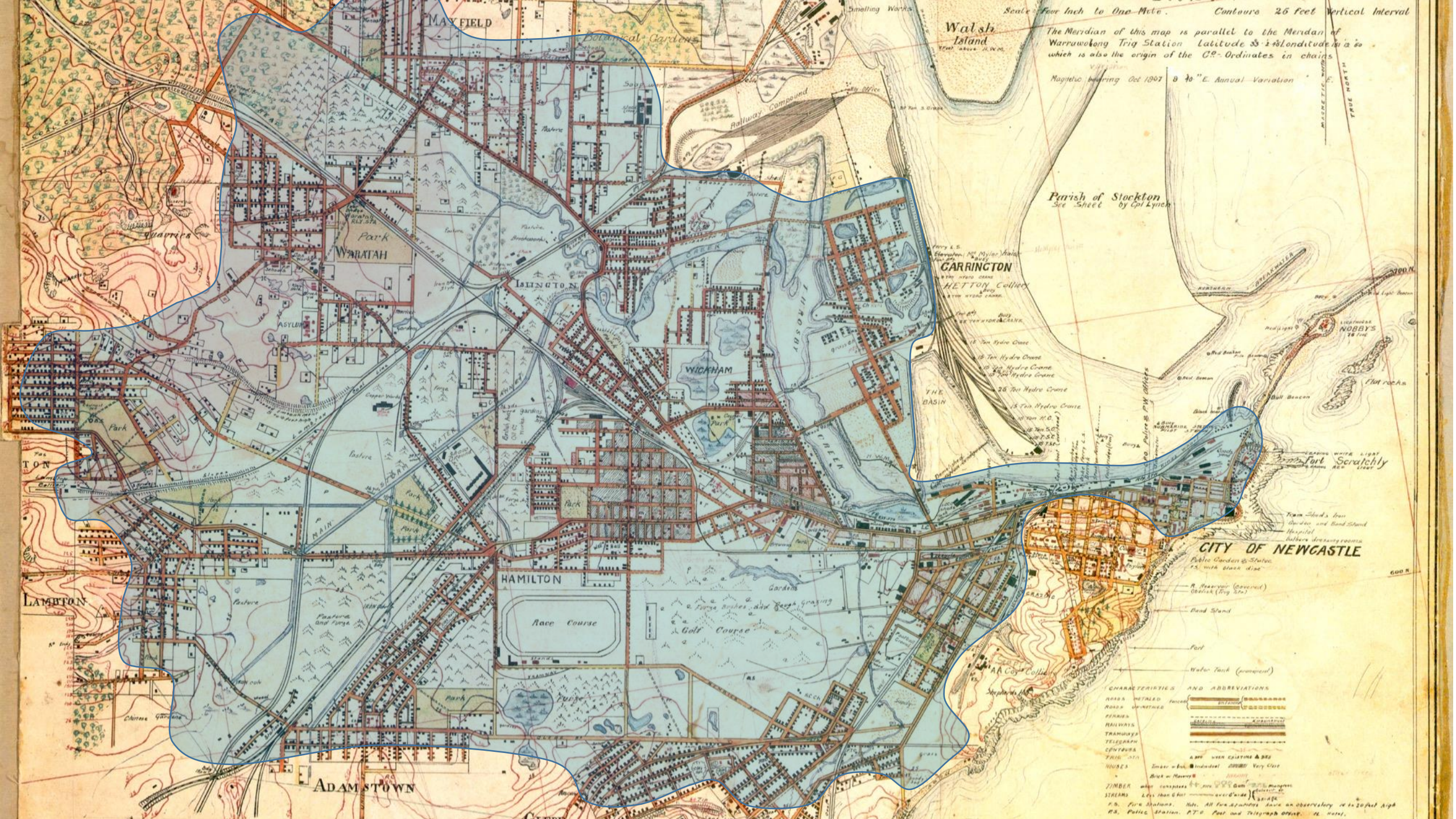


Scale: Four Inch to One Mile. Contours 26 feet Vertical Interval

The Meridian of this map is parallel to the Meridian of Warrakong Trig Station Latitude 33° 15' Longitude 151° 30' which is also the origin of the C.R. Ordinates in chains

Magnetic bearing Oct 1897 9 to "E. Annual Variation

TRUE NORTH



Parish of Stockton  
See Sheet by Cpl Lynch

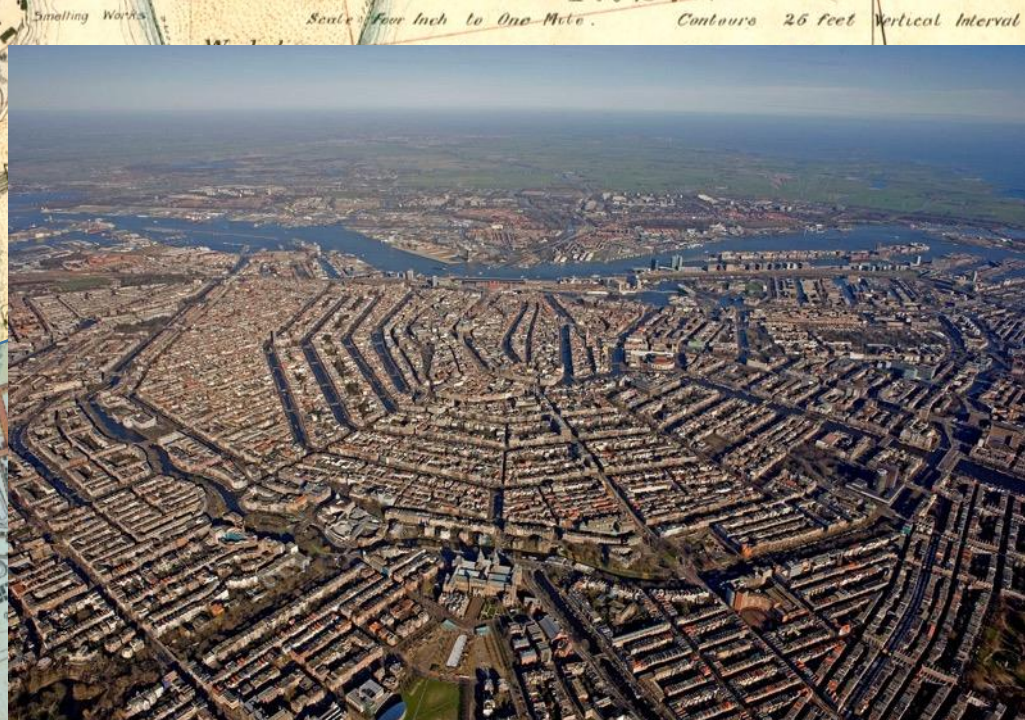
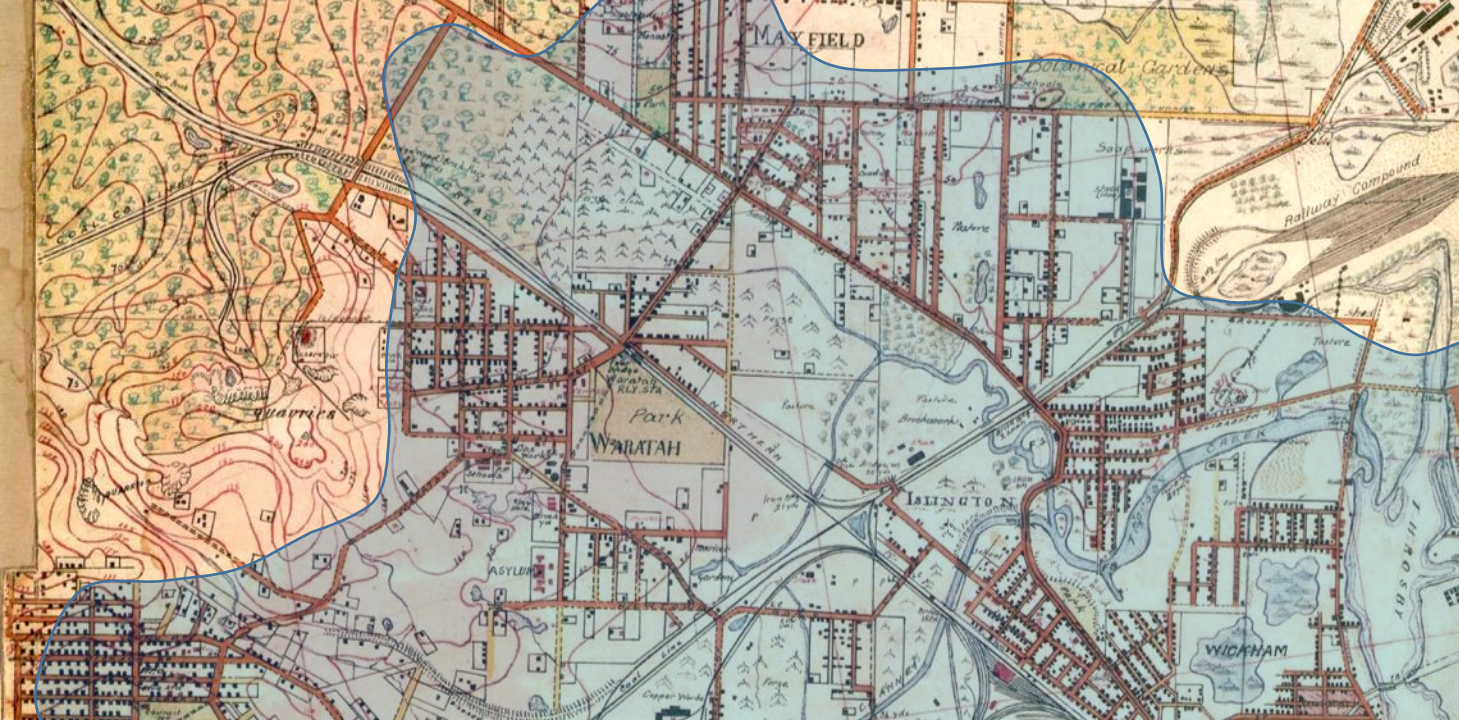
GARRINGTON  
HETTON Colliery

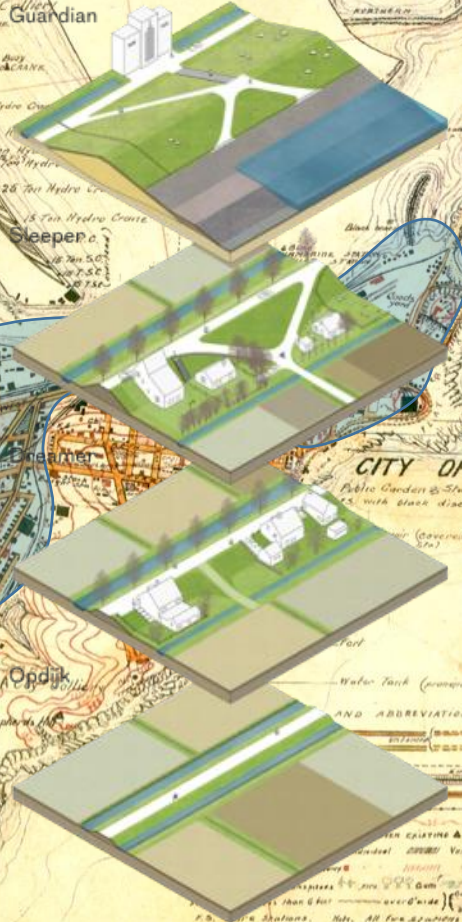
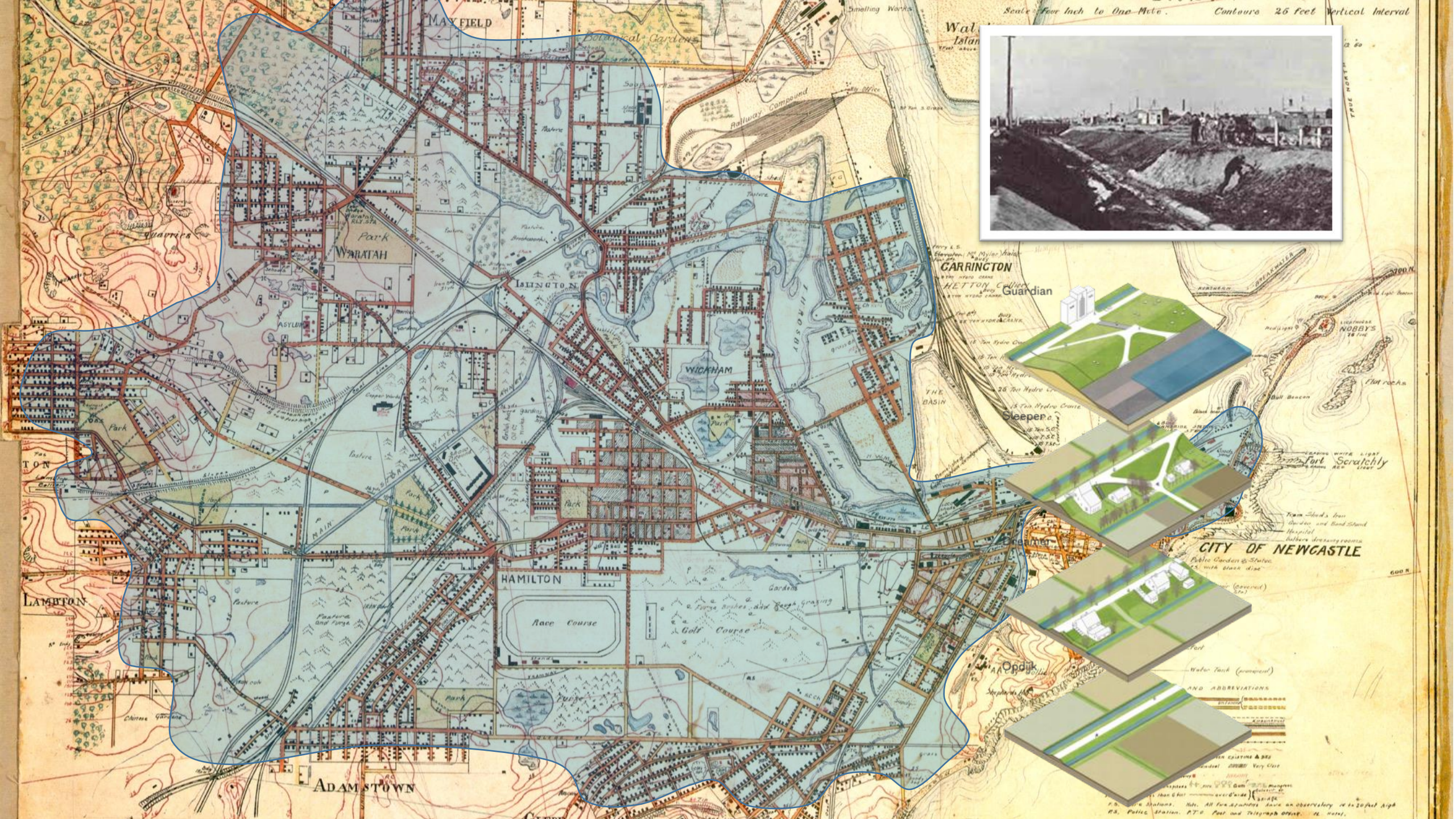
CITY OF NEWCASTLE  
Public Gardens & Statue  
R.S. with black disc

CHARACTERISTICS AND ABBREVIATIONS

- ROADS METAL FENCED
- ROADS UNMETAL FENCED
- FERRIES
- RAILWAYS
- TRAMWAYS
- TELEGRAPH
- CENTRA
- TRIS. STA.
- HOUSES
- ZIMBER
- STREAMS
- F.S. FIRE STATIONS
- P.S. POLICE STATION

600 R.





CITY OF NEWCASTLE

AND ABBREVIATIONS

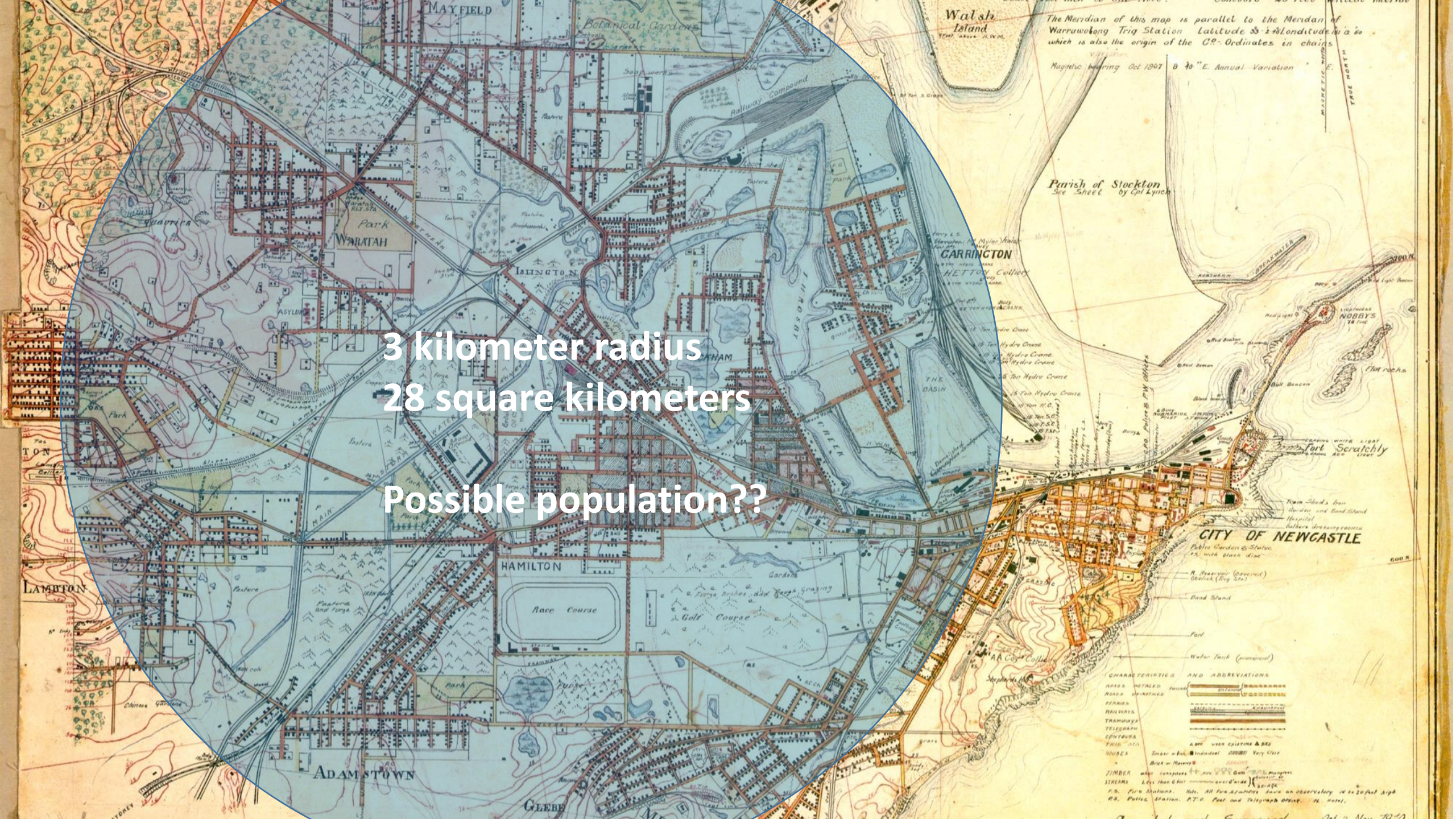
Legend and abbreviations for the map, including symbols for streets, parks, and buildings.

A light blue, irregularly shaped area representing a site for a dense cycling city. The shape is roughly rectangular with several protrusions and indentations, particularly on the left and right sides. The text "Perfect site for a dense cycling city" is centered within this area.

**Perfect site for a dense cycling city**



**Perfect site for a fast city**



3 kilometer radius  
28 square kilometers  
Possible population??

The Meridian of this map is parallel to the Meridian of Warrawong Trig Station Latitude 33° 15' and Longitude 151° 50' which is also the origin of the C.R. Ordinates in chains

Magnetic bearing Oct 1867 8 to "E. Annual Variation

Parish of Stockton  
See Sheet by Col Lynch

CHARACTERISTICS AND ABBREVIATIONS

ROADS METAL	ROADS UNMETAL
FERRIES	RAILWAYS
TRAMWAYS	TELEGRAPHS
CONDUITS	TRIG STA
HOUSES	WOOD
ZIMBER	STREAMS
F.S. FIRE STATIONS	P.S. POLICE STATION

CITY OF NEWCASTLE

GARRINGTON

HAMILTON

ADAMSTOWN

LAMBTON

CLEBE

NOBBYS

Fort Scratchly

WALSH ISLAND

BIRINGTON

WARATAH

Race Course

Golf Course

TRAMWAY

PURSE

AA Coy's Colliery

Superior

SEPARATE

SEPARATE

SEPARATE

SEPARATE

SEPARATE

Public Gardens & Statue

Band Stand

Fort

Water Tank (conquest)

Water Park (conquest)

Water Park (conquest)

Water Park (conquest)

Water Park (conquest)

Water Park (conquest)

Water Park (conquest)

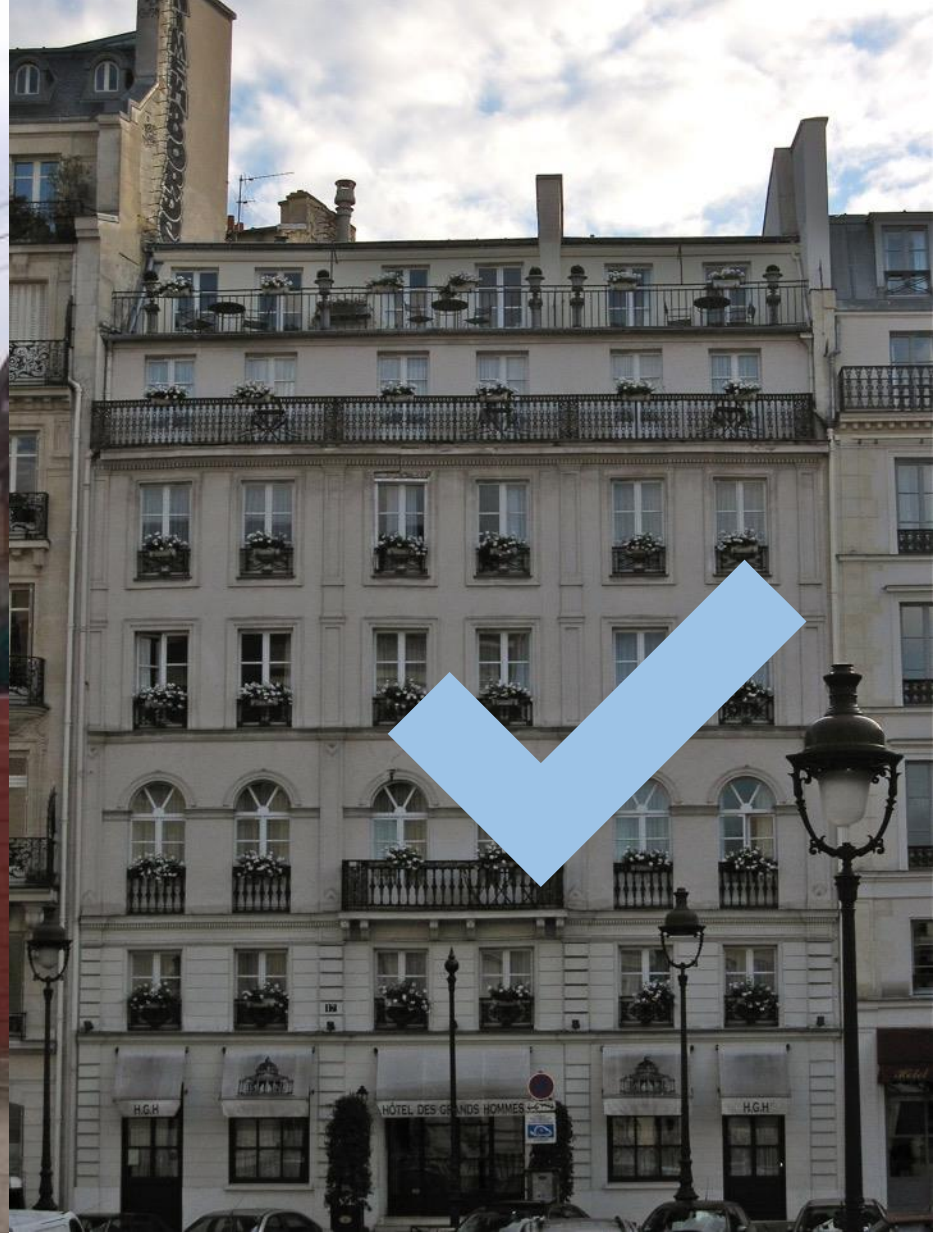
Water Park (conquest)

Water Park (conquest)

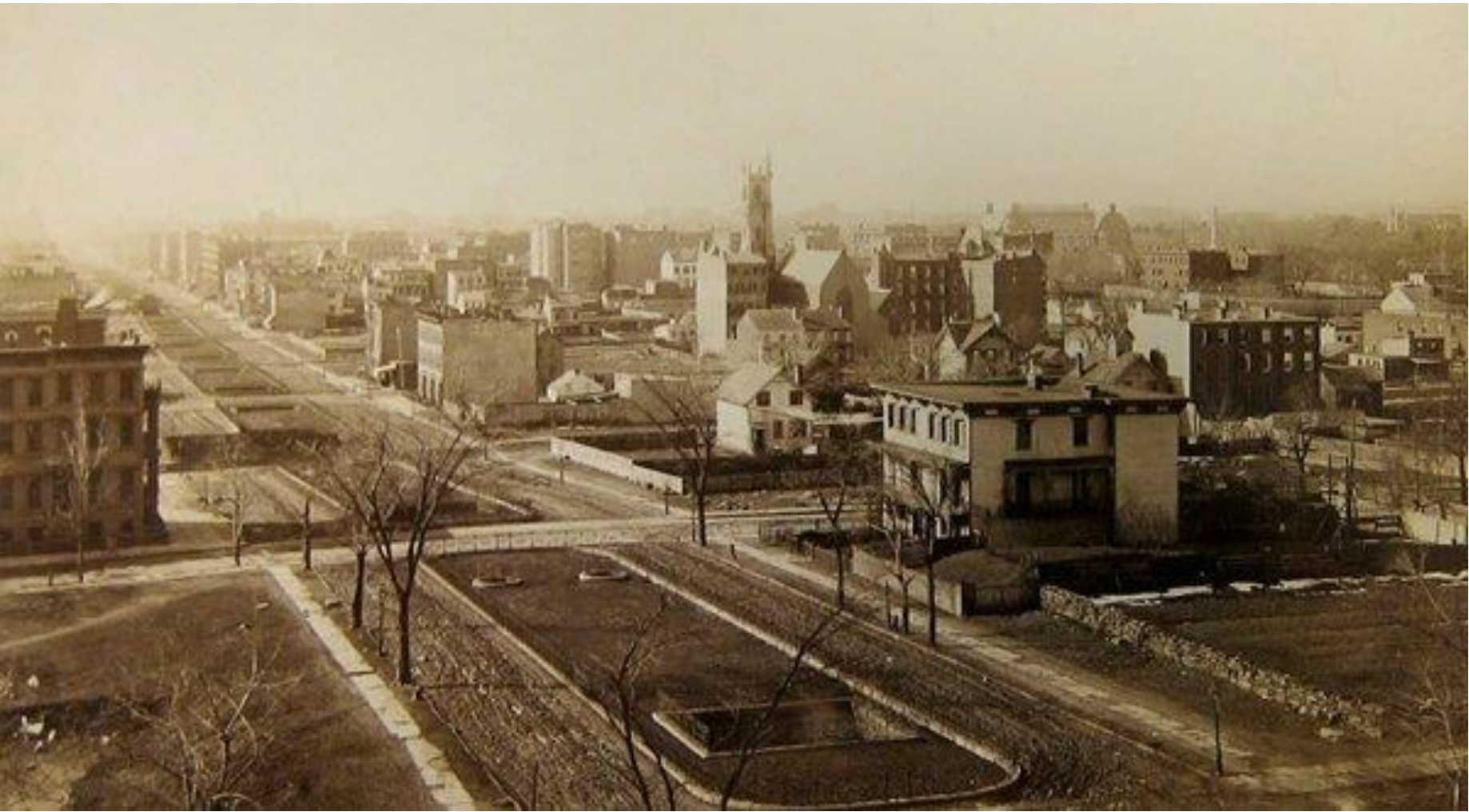
Water Park (conquest)

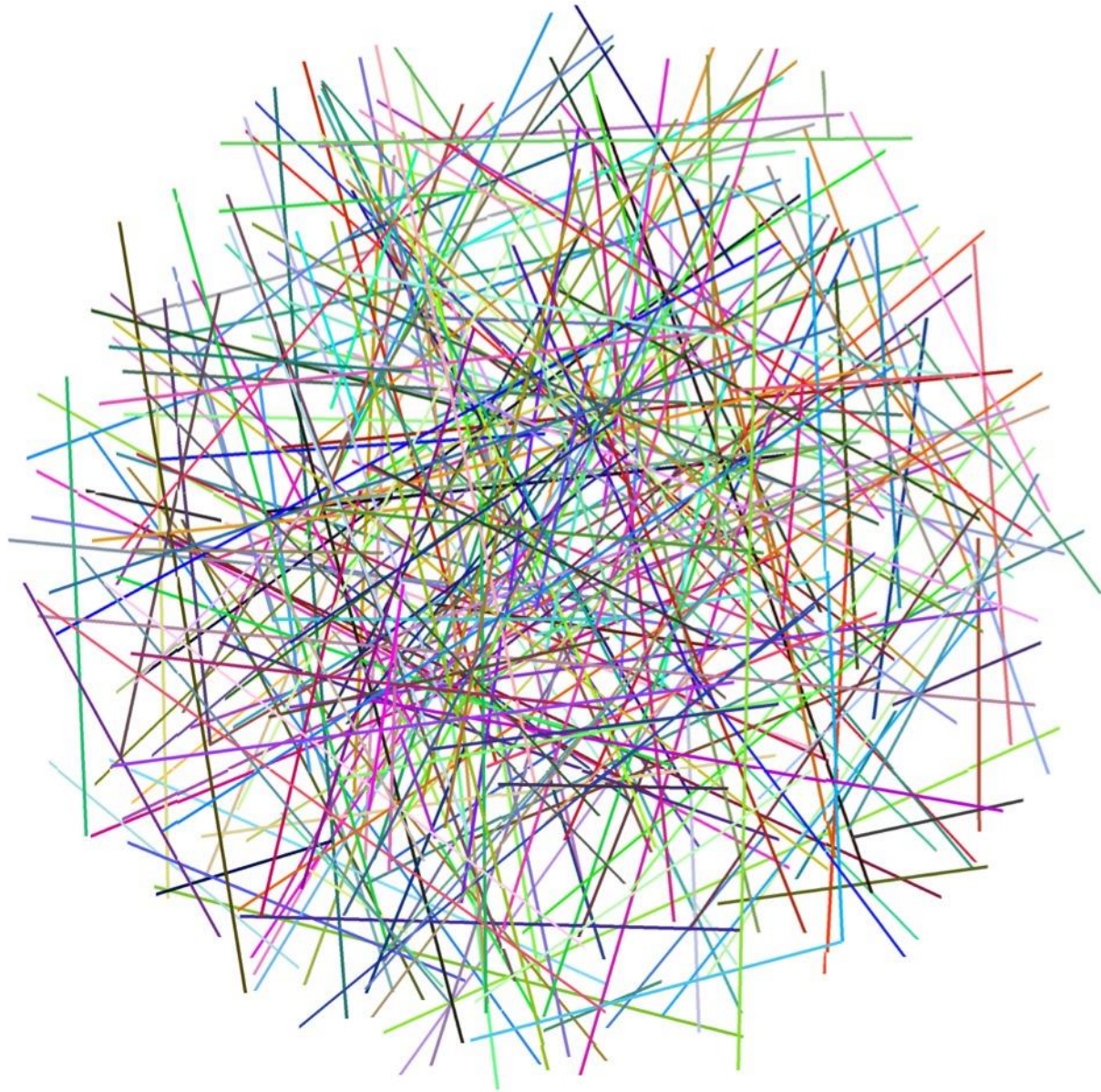
Water Park (conquest)











Steven Fleming

# VELOTOPIA

the production of cyclespace  
in our minds and our cities

nal010 publishers



Average beeline to any job 2.7km

$$d = \frac{128r}{45\pi}$$

- CHARACTERISTICS AND ABBREVIATIONS**
- ROADS METAL FENCED
  - ROADS UNMETAL FENCED
  - RAILWAYS
  - TRAMWAYS
  - TELEGRAPHS
  - SPRINGS
  - TRIG STA
  - HOUSES
  - ZIMBER
  - STREAMS
  - P.S. FIRE STATIONS
  - P.S. POLICE STATION

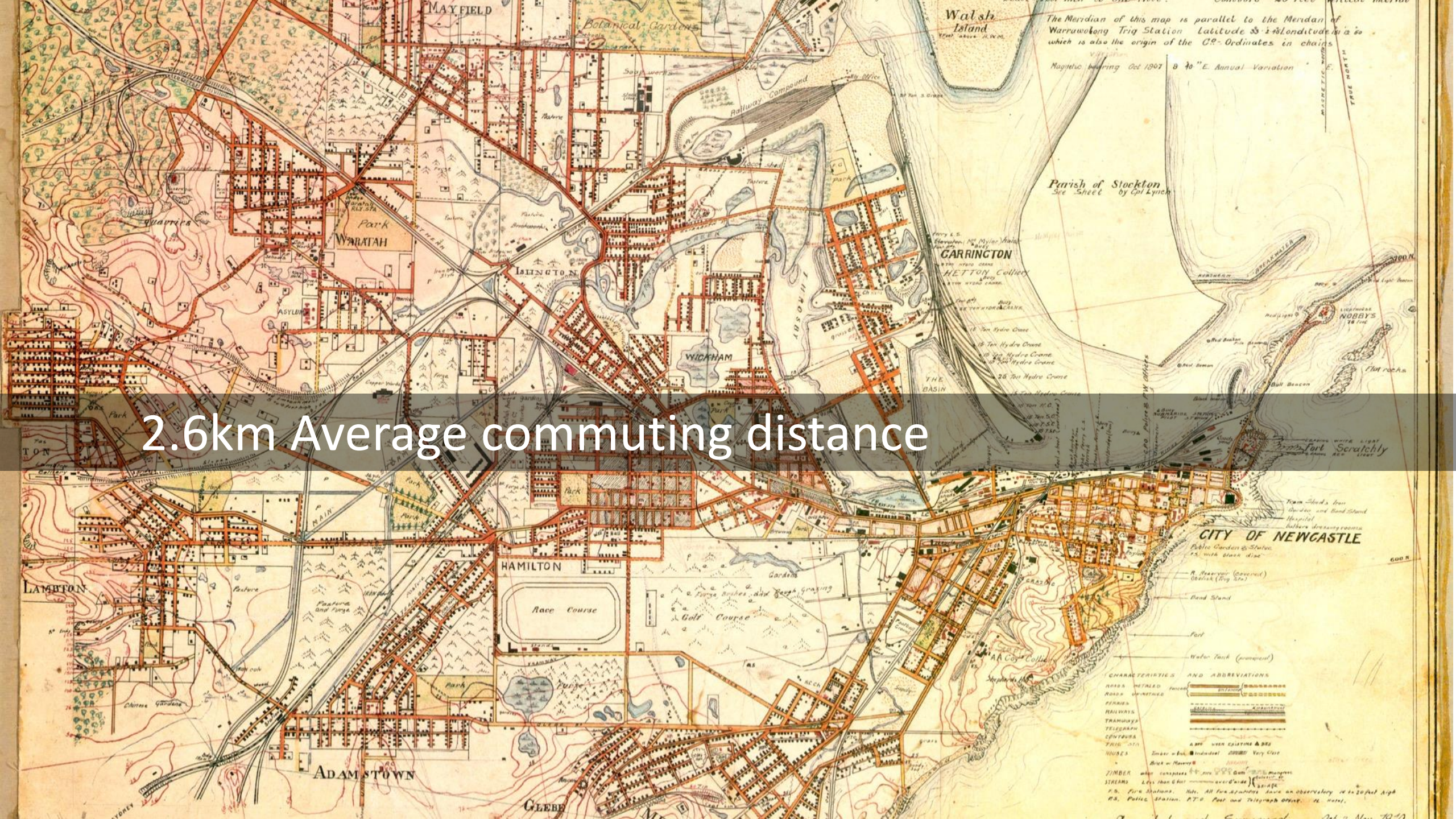
Factor up for zigzagging. Factor down for proximity bias.



A

B

CHARACTERISTICS AND ABBREVIATIONS  
ROADS METAL PAVED  
ROADS UNMETAL PAVED  
RAILWAYS  
TRAMWAYS  
TELEGRAPHS  
CENTRES  
TRIG STATIONS  
HOUSES  
ZIMBER  
STREAMS  
F.S. FIRE STATIONS  
P.S. POLICE STATION



2.6km Average commuting distance

The Meridian of this map is parallel to the Meridian of Warrakong Trig Station Latitude 33° 13' Longitude 151° 50' which is also the origin of the C.R. Ordinates in chains

Magnetic North  
Magdlic bearing Oct 1867 8 to "E. Annual Variation

Parish of Stockton  
See Sheet  
by Col Lynch

GARRINGTON  
HETTON Colliery

CITY OF NEWCASTLE  
Public Gardens & Statue  
R.R. Station (convenient)  
Observatory (Dry Sea)

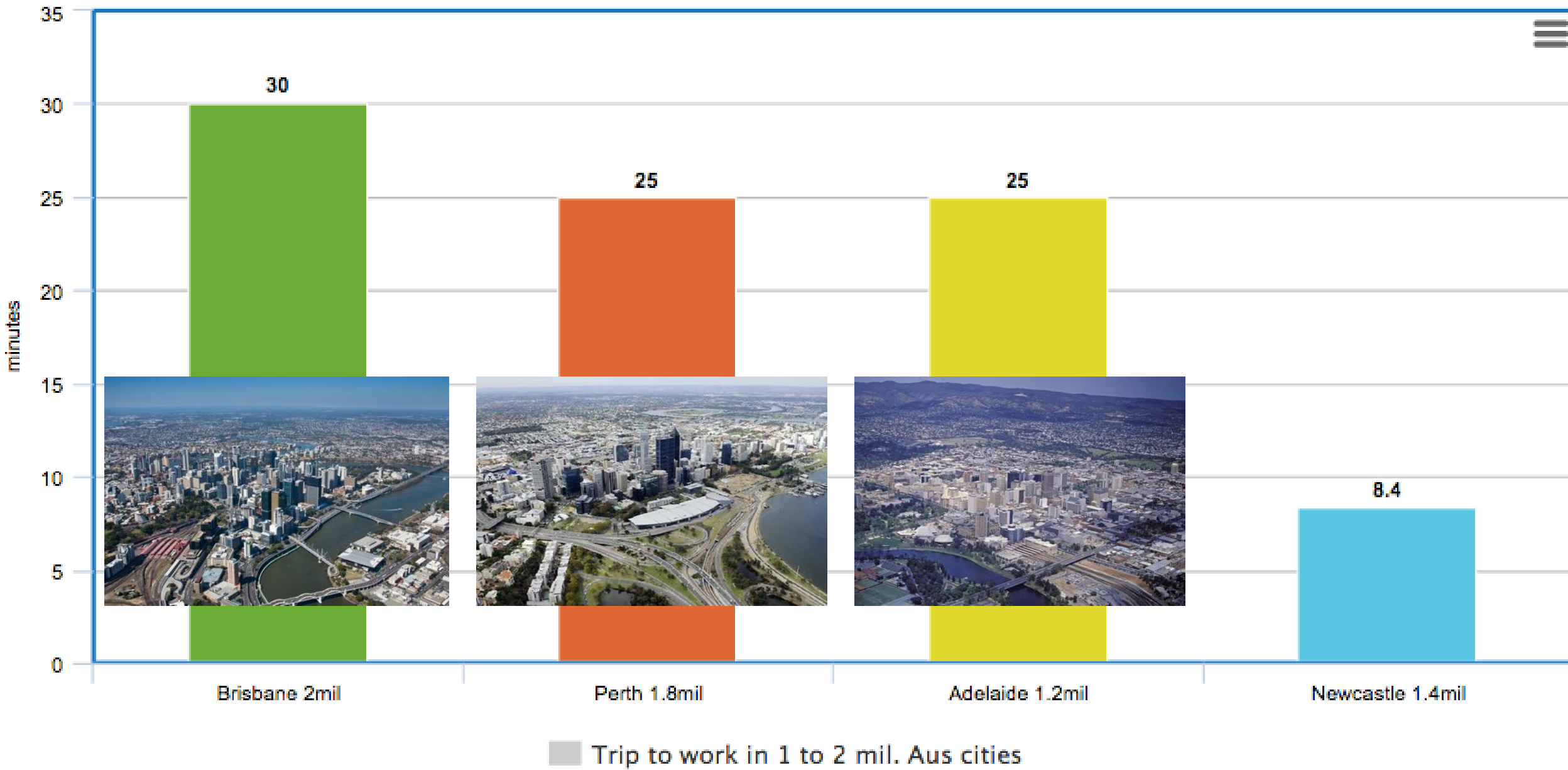
CHARACTERISTICS AND ABBREVIATIONS

- ROADS METAL PAVED
- ROADS UNMETAL PAVED
- FERRIES
- RAILWAYS
- TRAMWAYS
- TELEGRAPHS
- CONDUITS
- TRIG STATIONS
- HOUSES
- WOOD
- STREAMS
- F.S. FIRE STATIONS
- P.S. POLICE STATIONS

*Constant* 18km per hour.

2.6km = 8:40





Source: productivity commission, 2011, performance benchmarking of Australian Business Regulation: Planning, Zoning and Development Assessments





Harsh Fact:

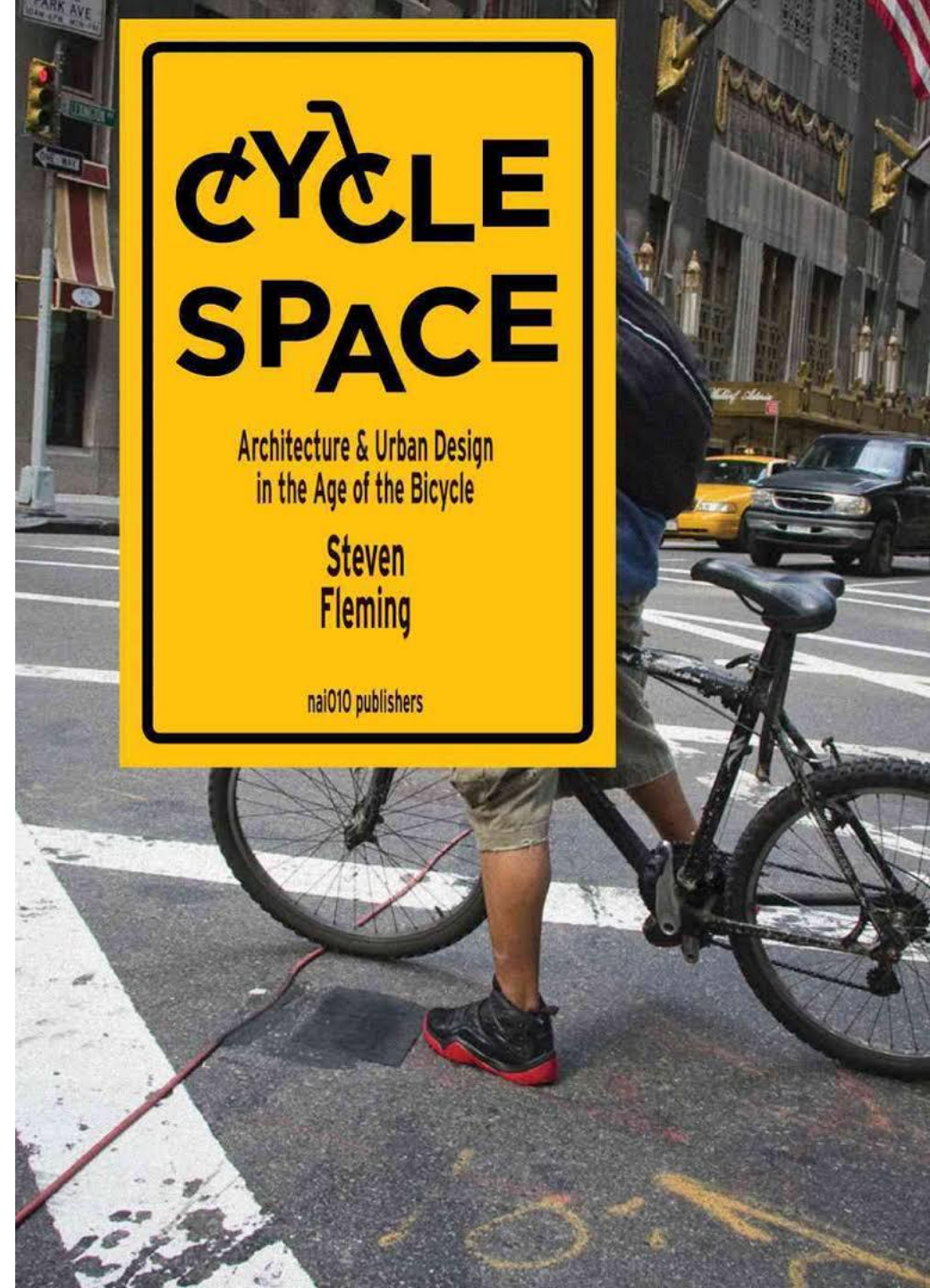
People are financially and emotionally invested in  
the status quo

(no one wants change!)

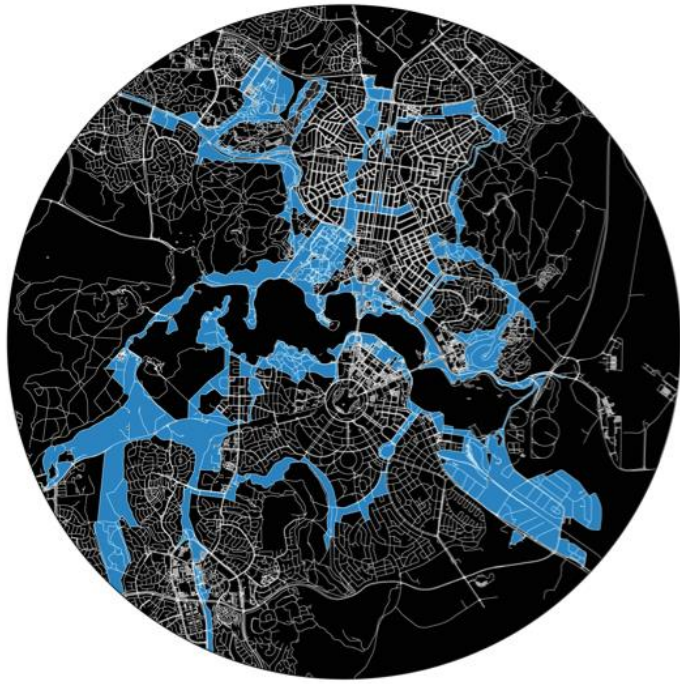
But some do!

nai  
oio

uitgevers  
publishers

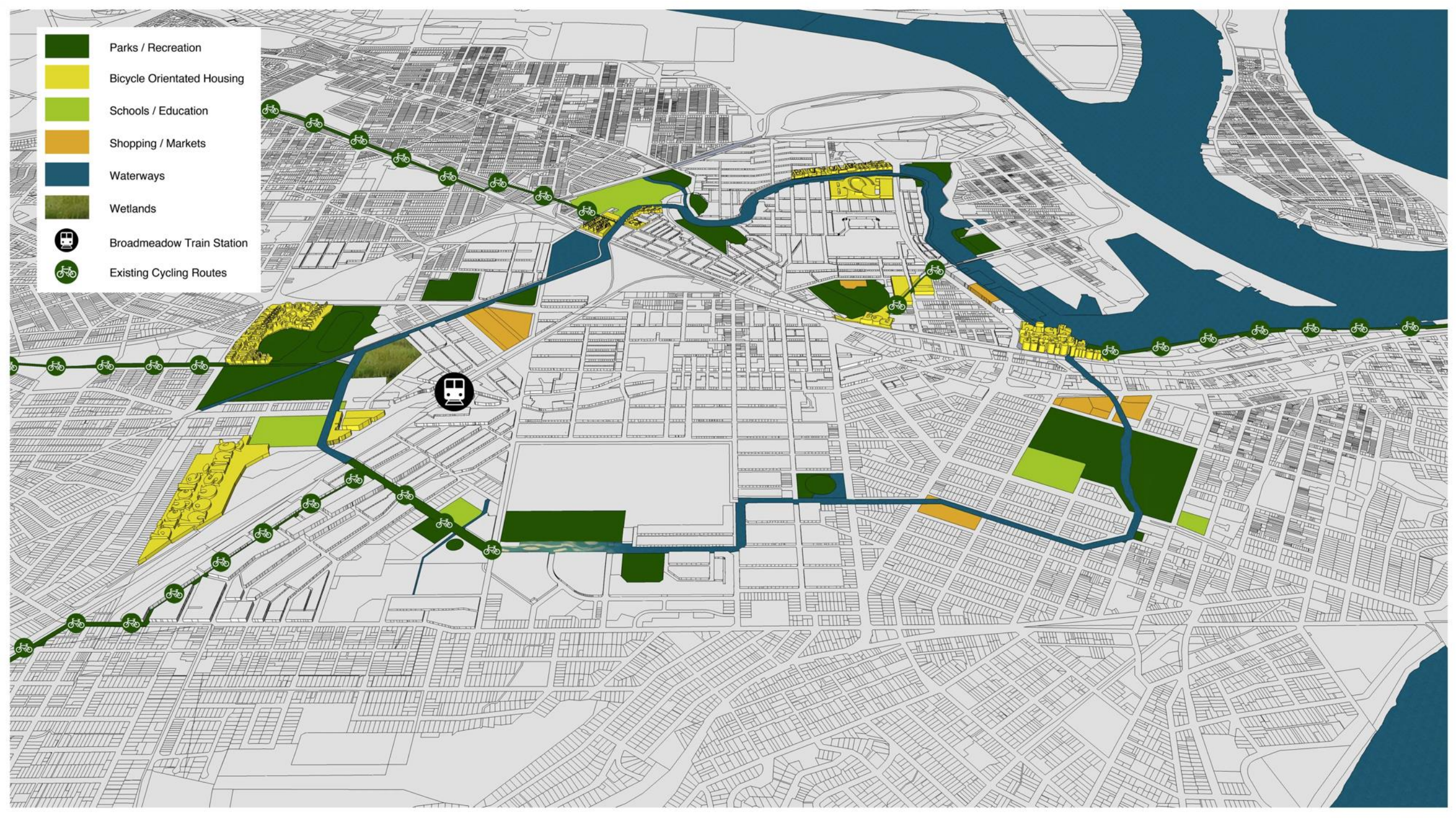




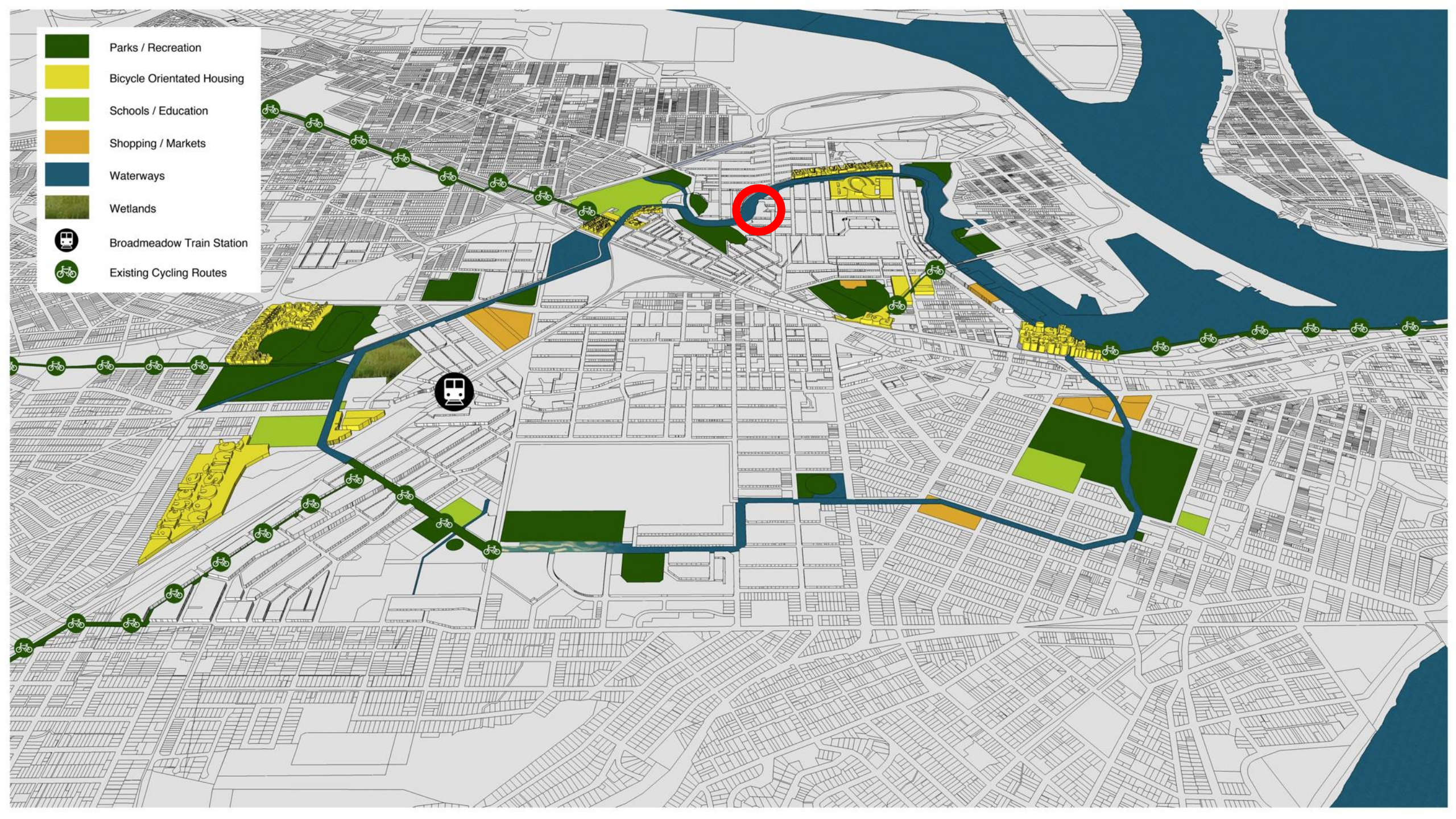




-  Parks / Recreation
-  Bicycle Orientated Housing
-  Schools / Education
-  Shopping / Markets
-  Waterways
-  Wetlands
-  Broadmeadow Train Station
-  Existing Cycling Routes

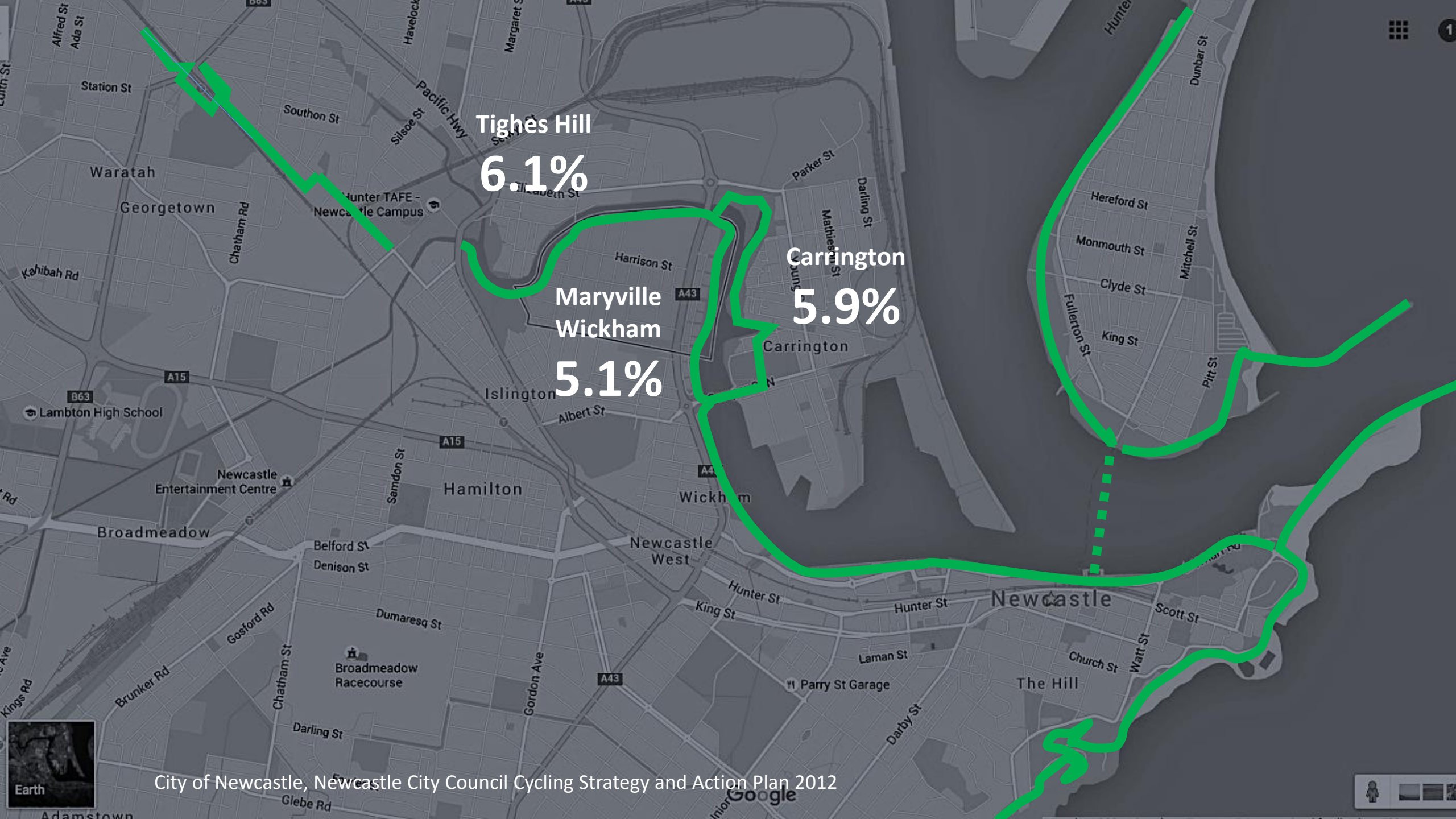


-  Parks / Recreation
-  Bicycle Orientated Housing
-  Schools / Education
-  Shopping / Markets
-  Waterways
-  Wetlands
-  Broadmeadow Train Station
-  Existing Cycling Routes









Tighes Hill

6.1%

Carrington

5.9%

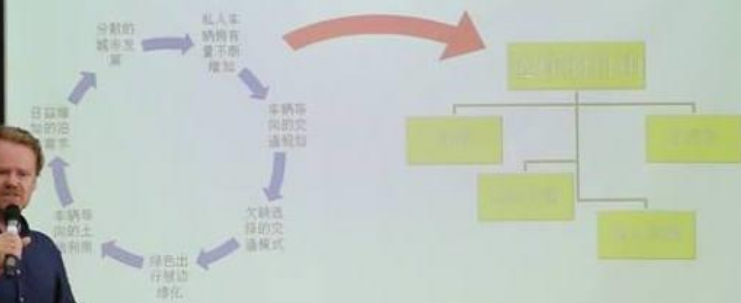
Maryville  
Wickham

5.1%

Harsh Fact:

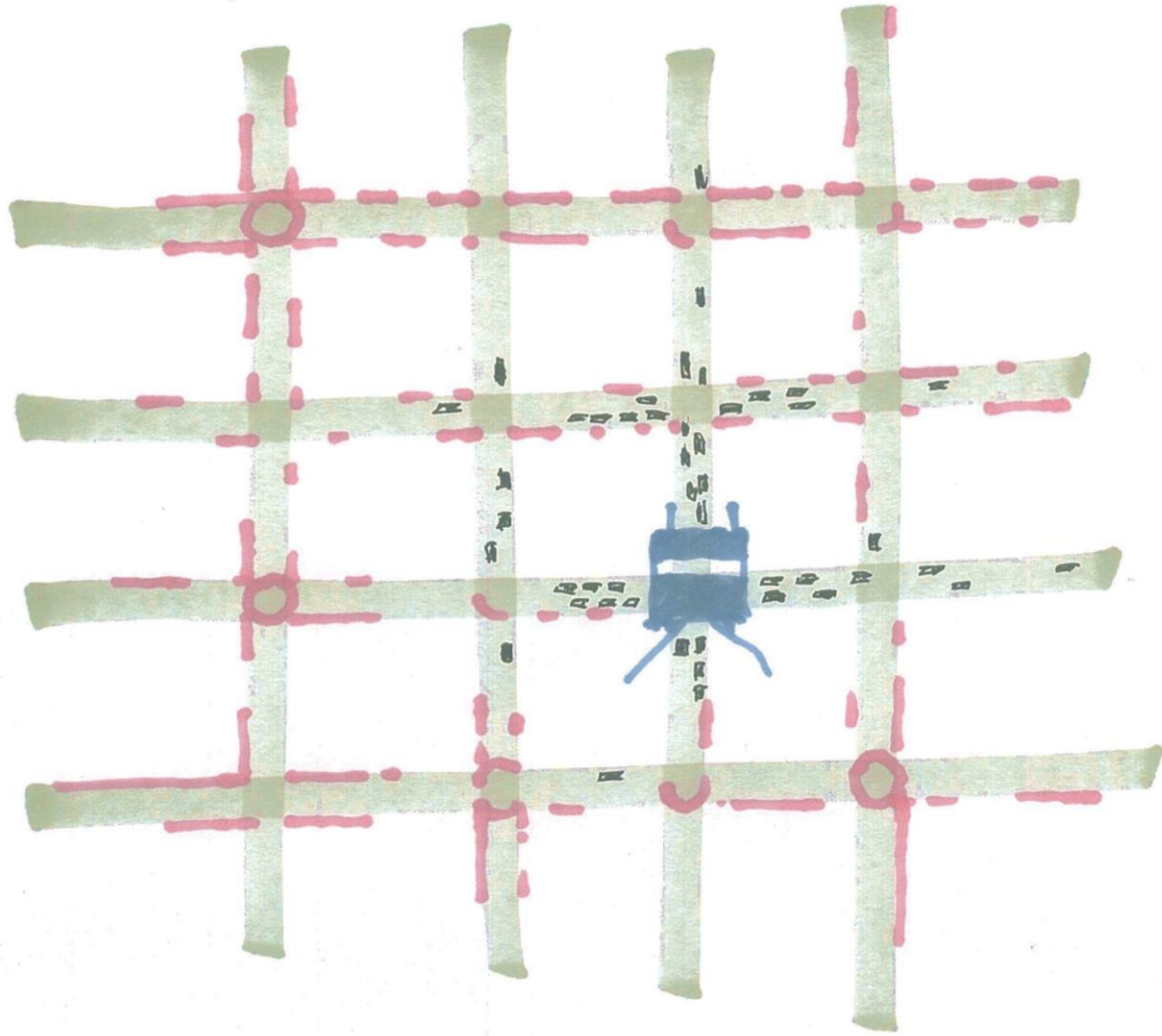
Traffic engineering serves driving, not cycling.

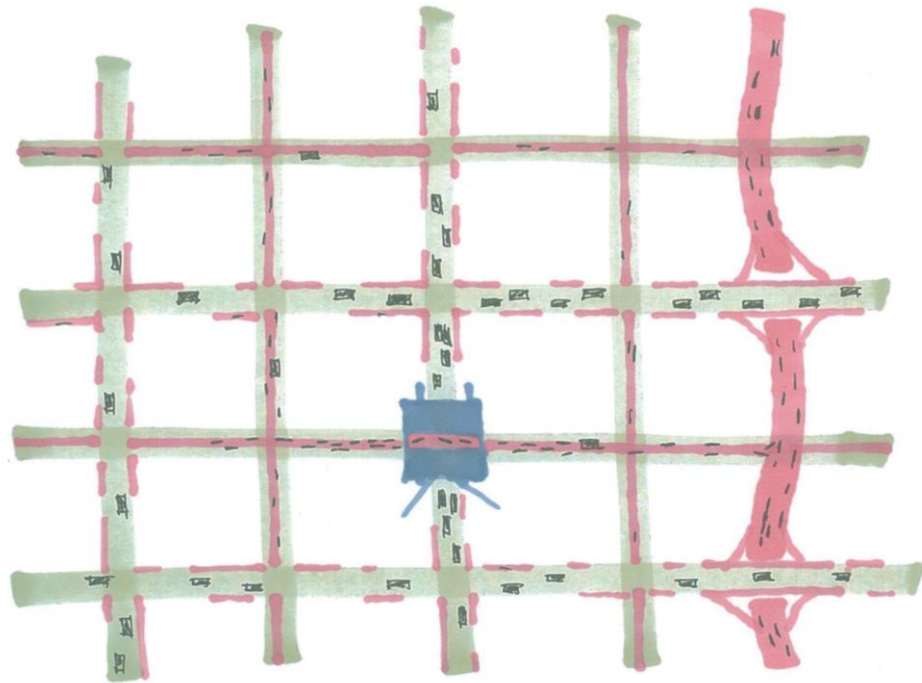
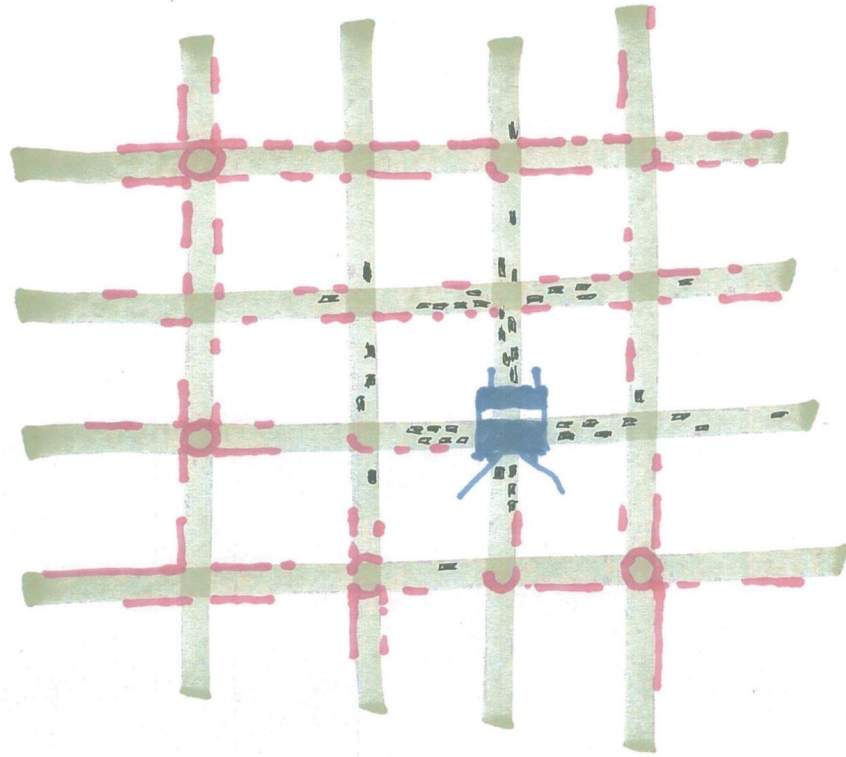
# 绿色出行文化赋予选择的自由



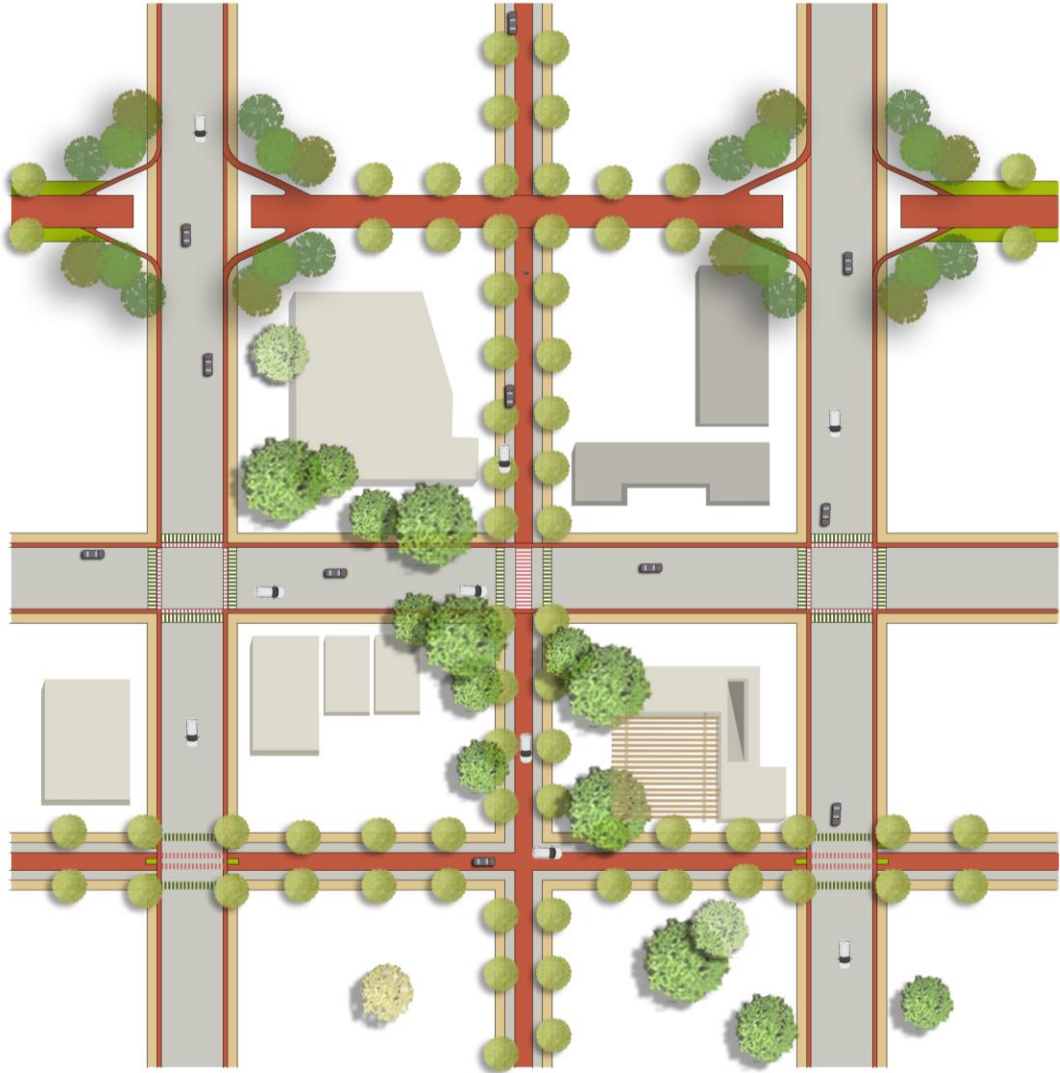
政府决策与带领转变的领导力至关重要  
绿色标准下的自由选择  
引导行为改变：文化，引领潮流







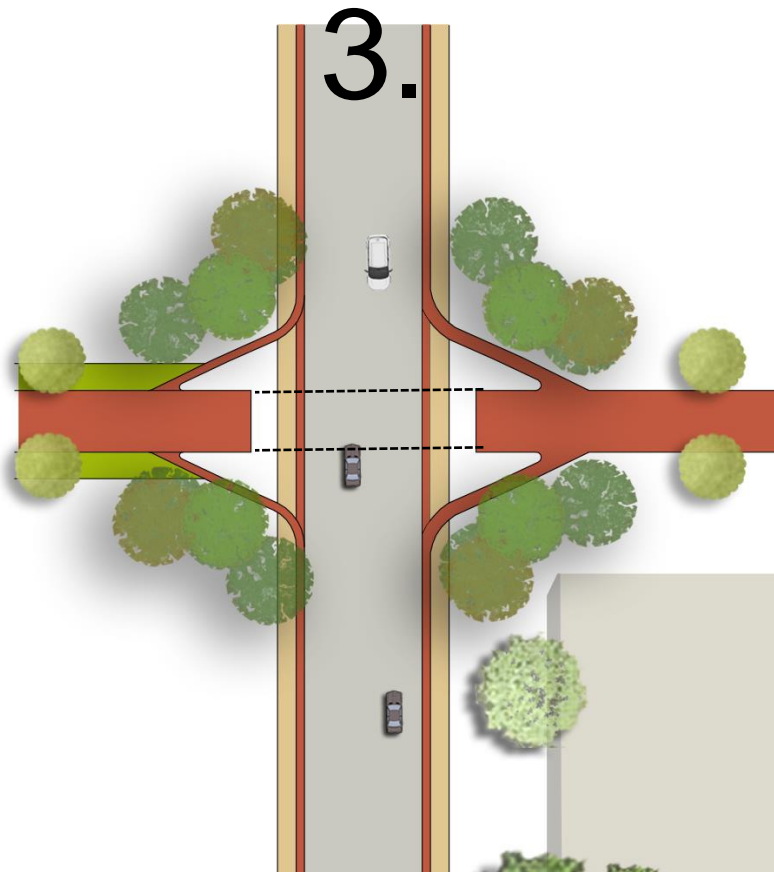
Decoupling from the road matrix



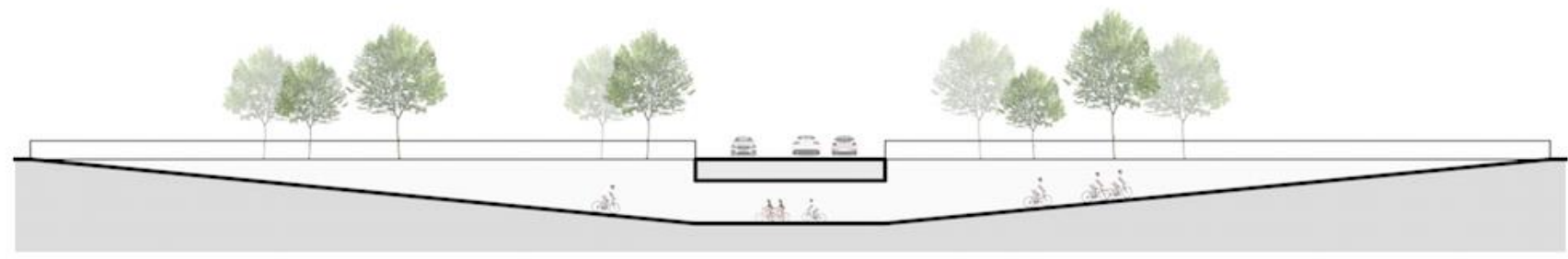
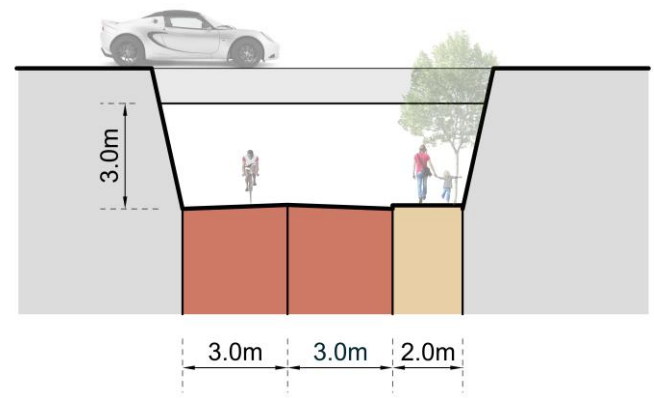
1. Bicycle Expressway

3. Road-side bike paths

2. Traffic calmed streets

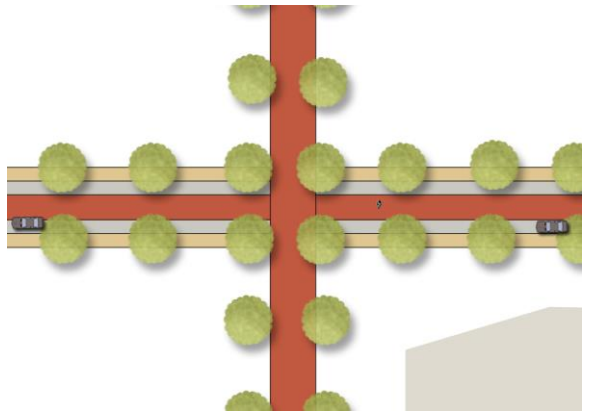


1.

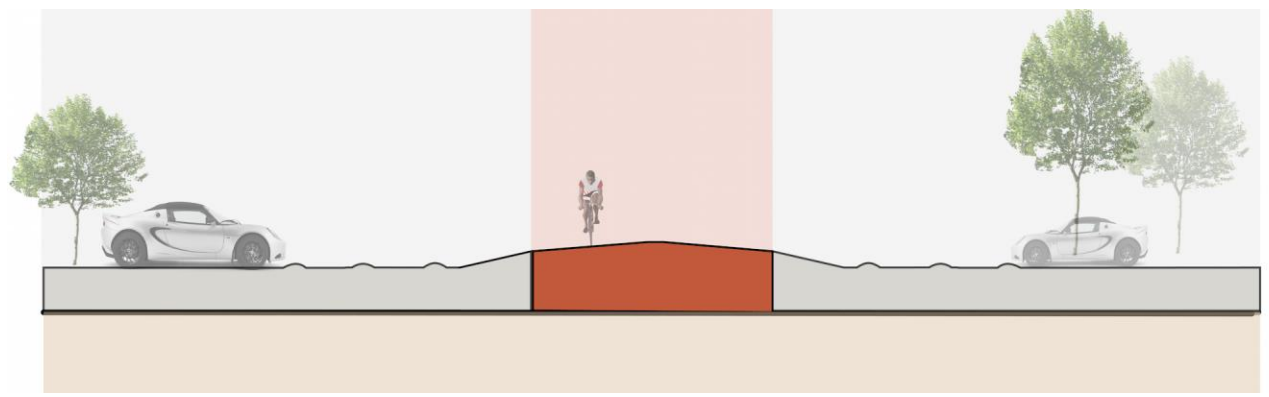


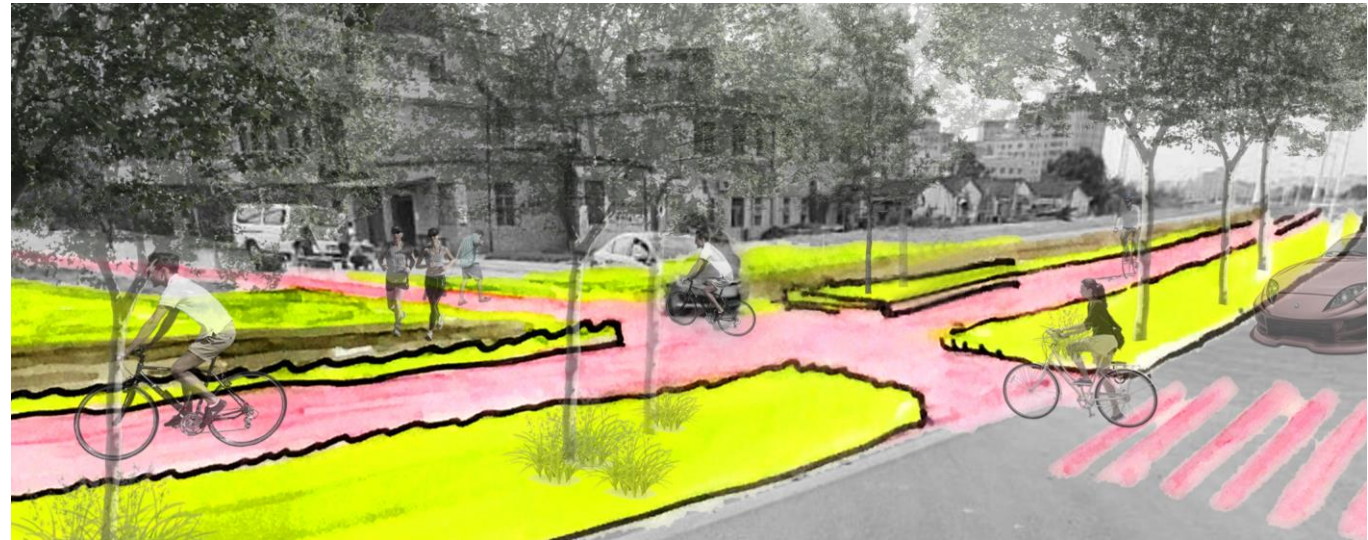
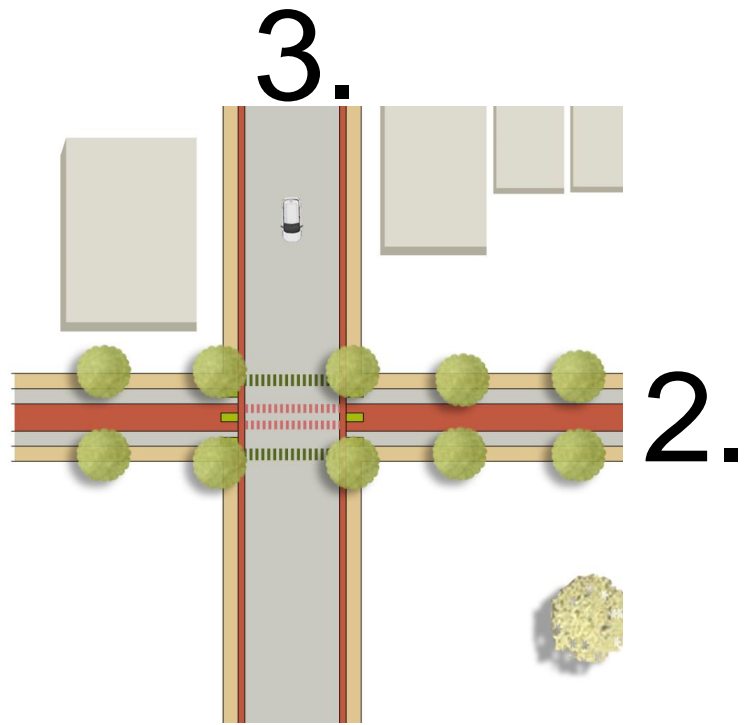


1.

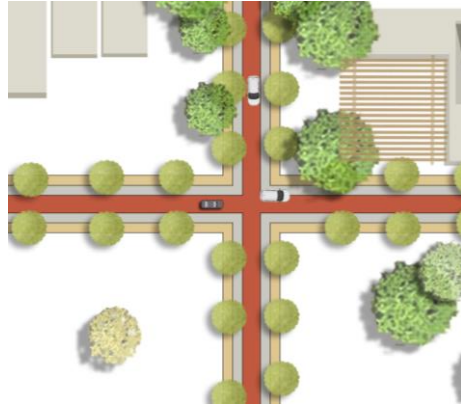


2.





2.



2.



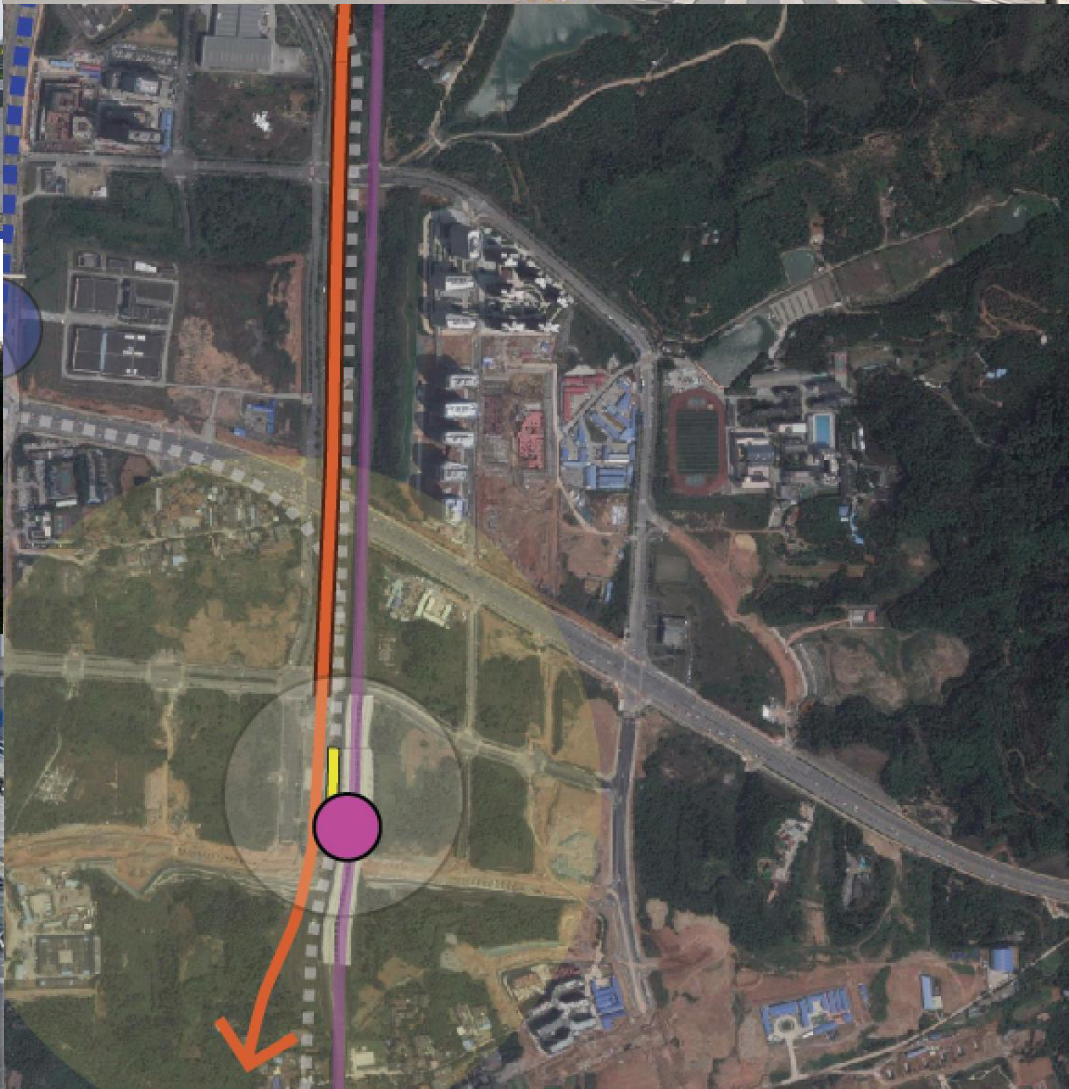




Bicycle Expressway Network  
自行车快速道网络

- Provincial Greenway #5  
省绿道5号
- Bicycle Expressway (Type I)  
自行车专用快速道
- - - Green Streets (Type II)  
自行车优先街道

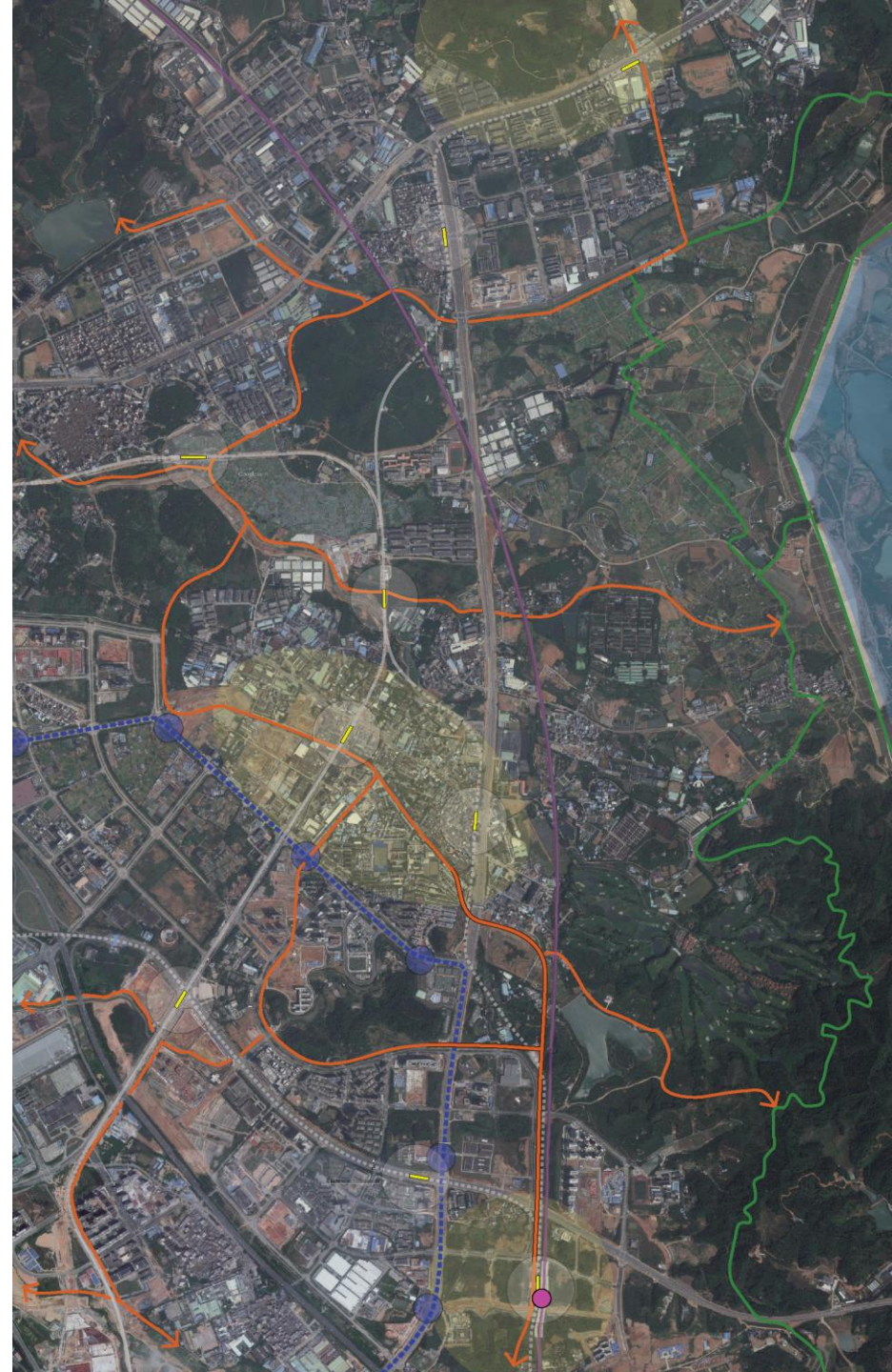


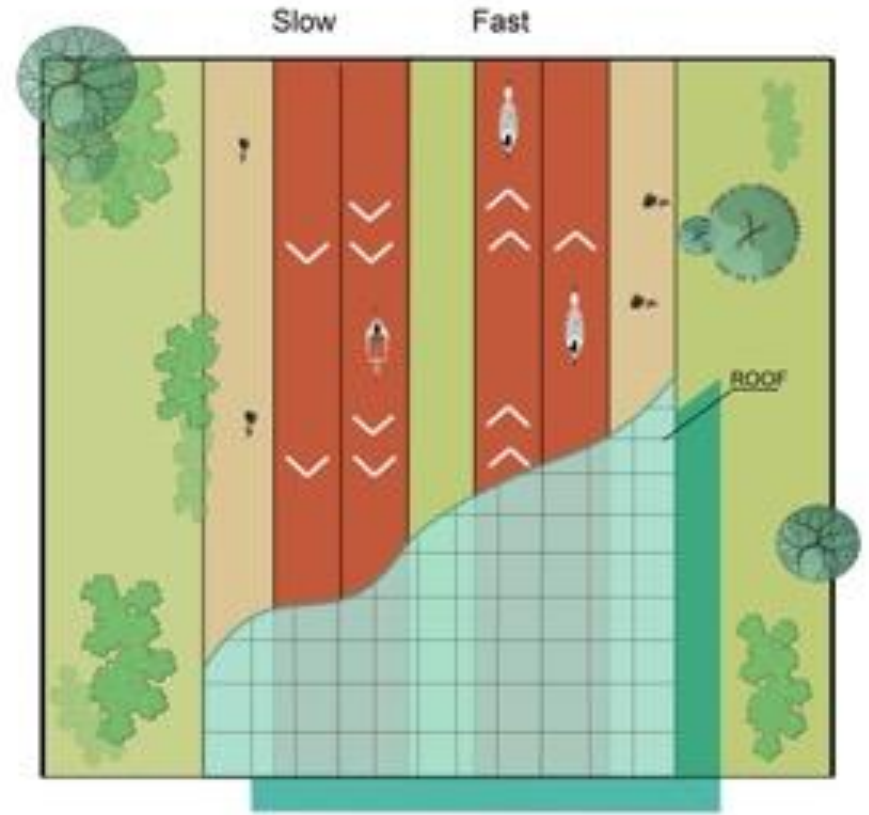
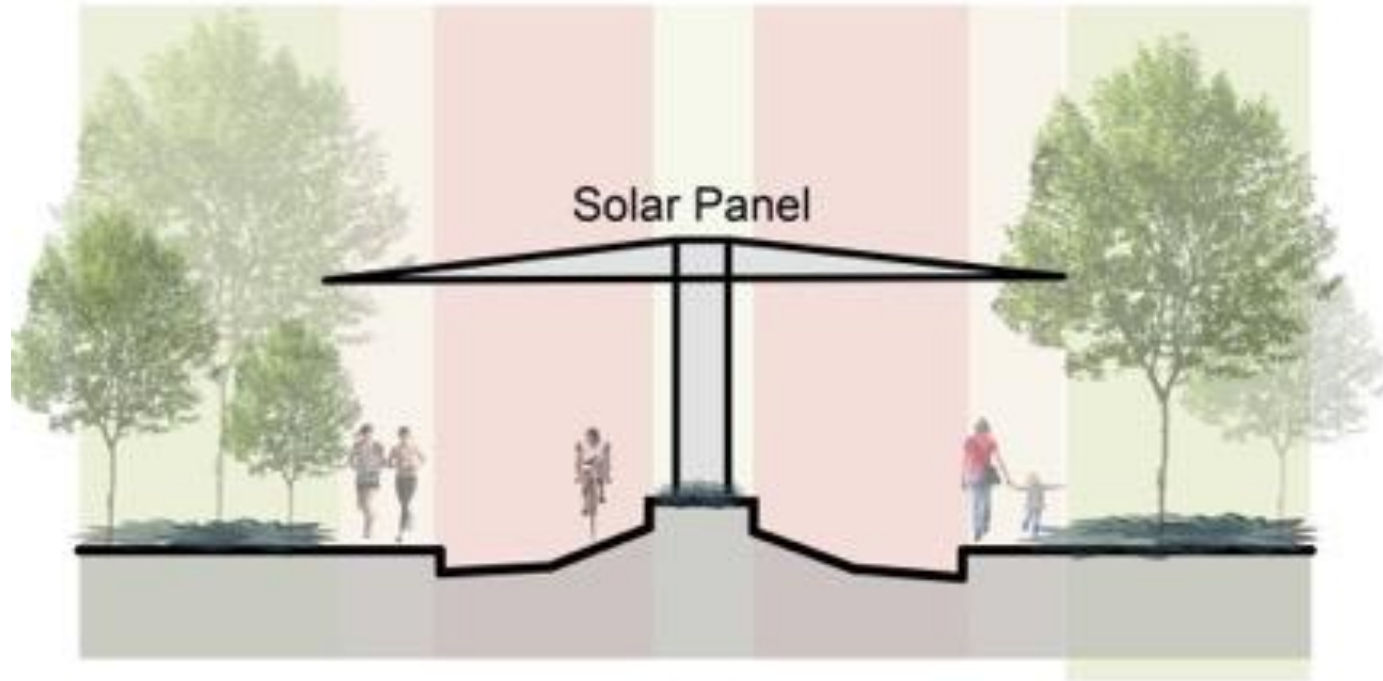














# Minneapolis Midtown Greenway

## Rezoning for higher density

The City of Minneapolis Community Planning and Economic Development Department, 'Midtown Greenway Land Use Development Plan', 23 February 2007.

## Catalyzed >US\$200 million in development

Fisher, Thomas, "Streetscapes: Midtown Greenway spurs urban development, especially in Uptown", in Star Tribune, May 9, 2015.

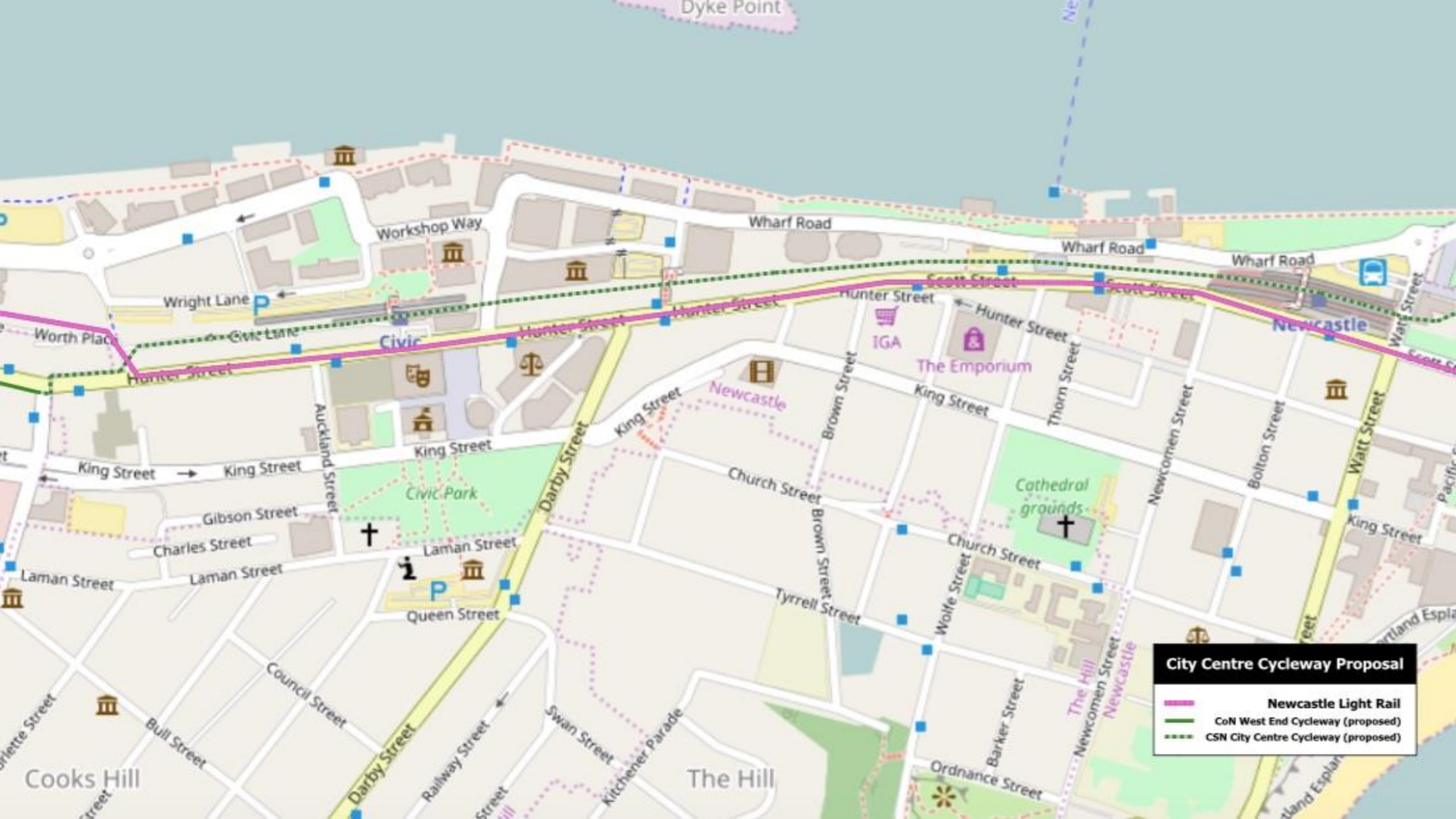
## More access points and activation







# Flats at Bethesda Ave. (Washington)

Developer infrastructure contributions put toward widening Capital Crescent Trail



**City Centre Cycleway Proposal**

-  Newcastle Light Rail
-  CoN West End Cycleway (proposed)
-  CSN City Centre Cycleway (proposed)

Harsh Fact:

Cycling is uncomfortable

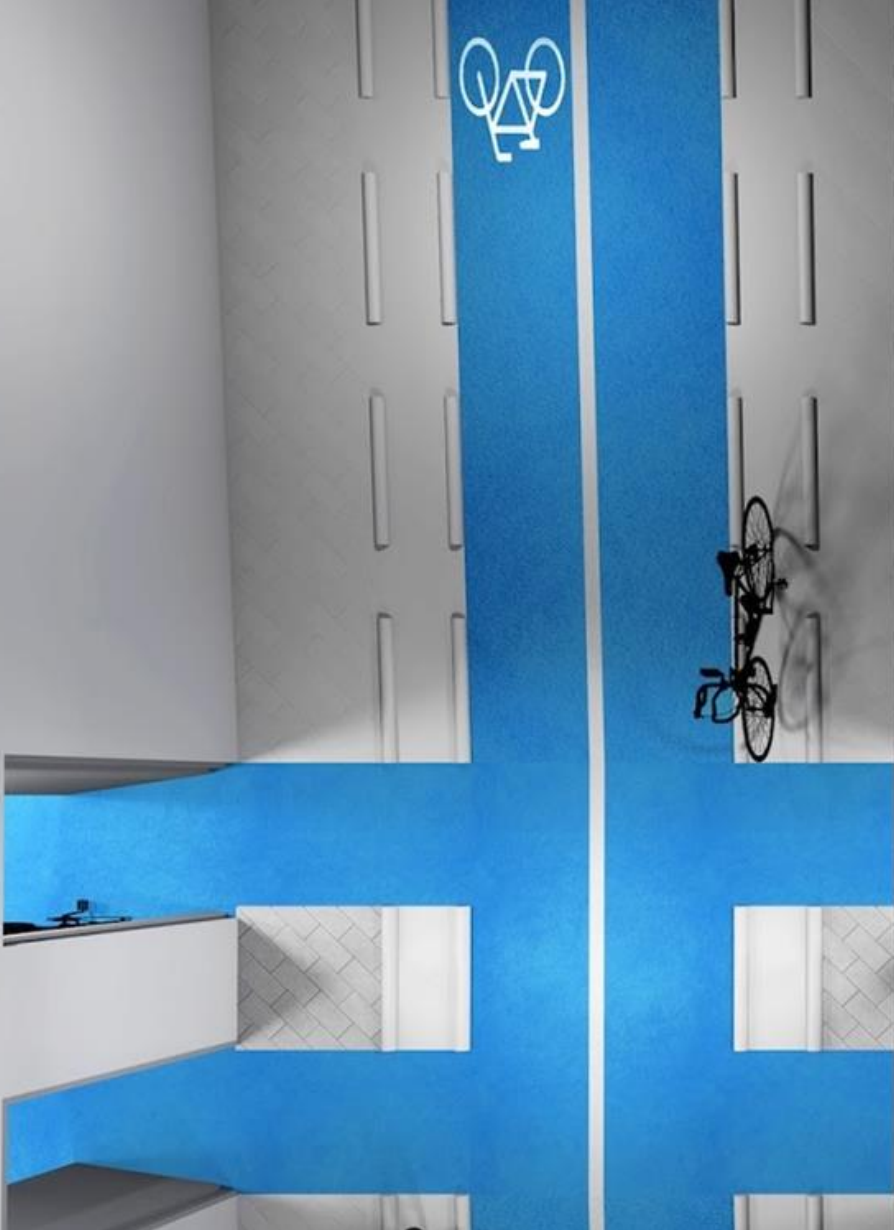


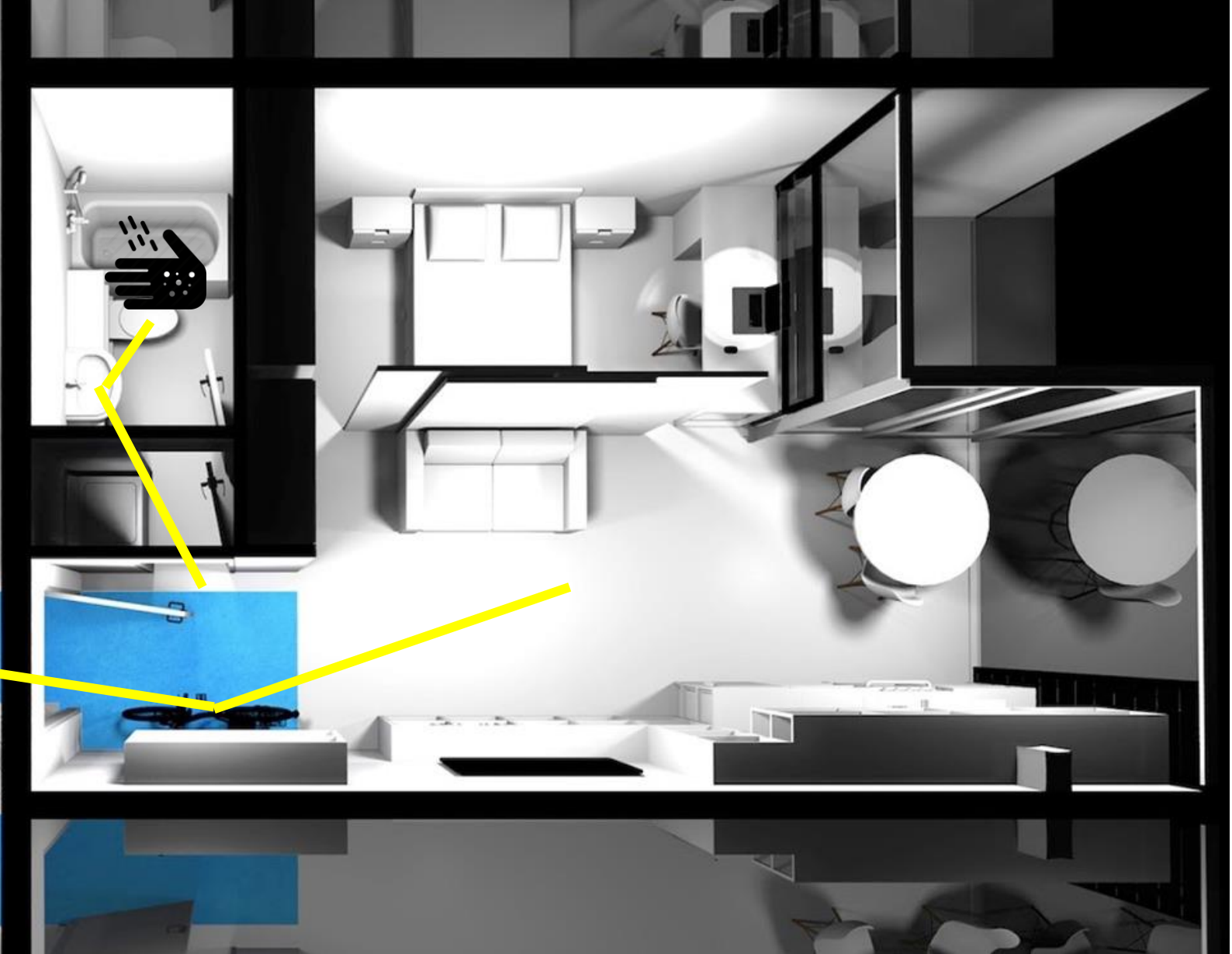


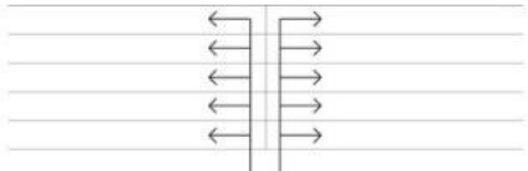
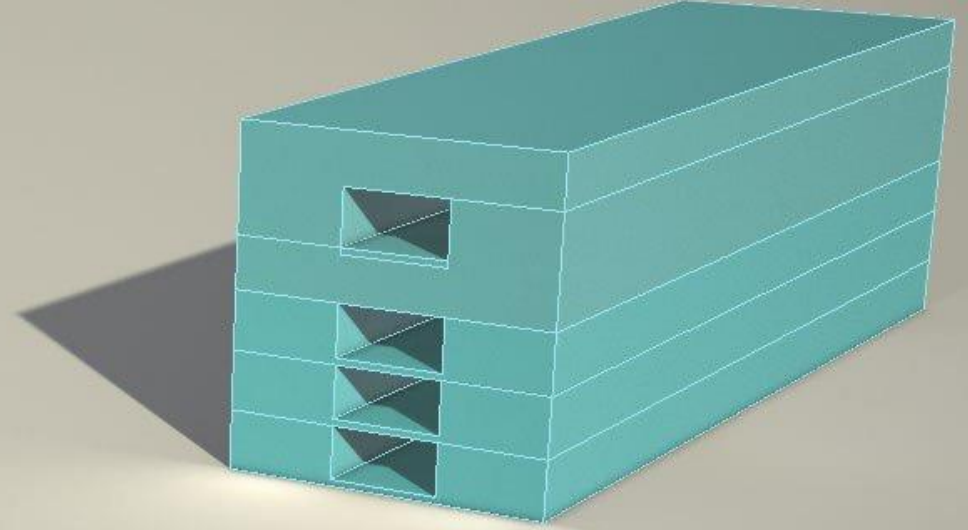


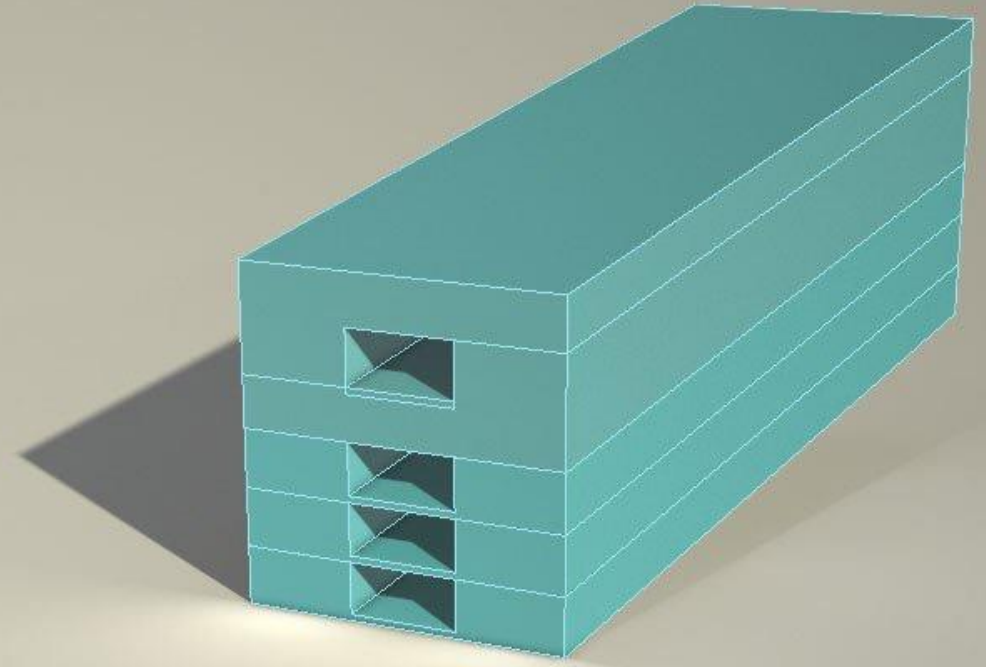
**What we DON'T want!**



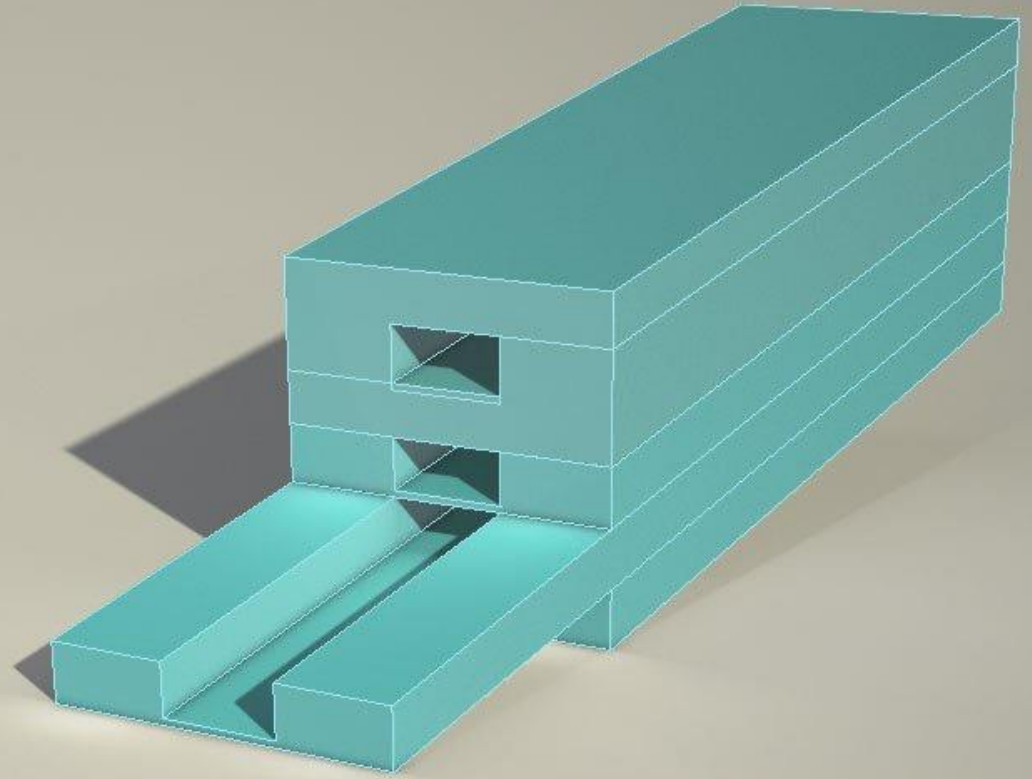






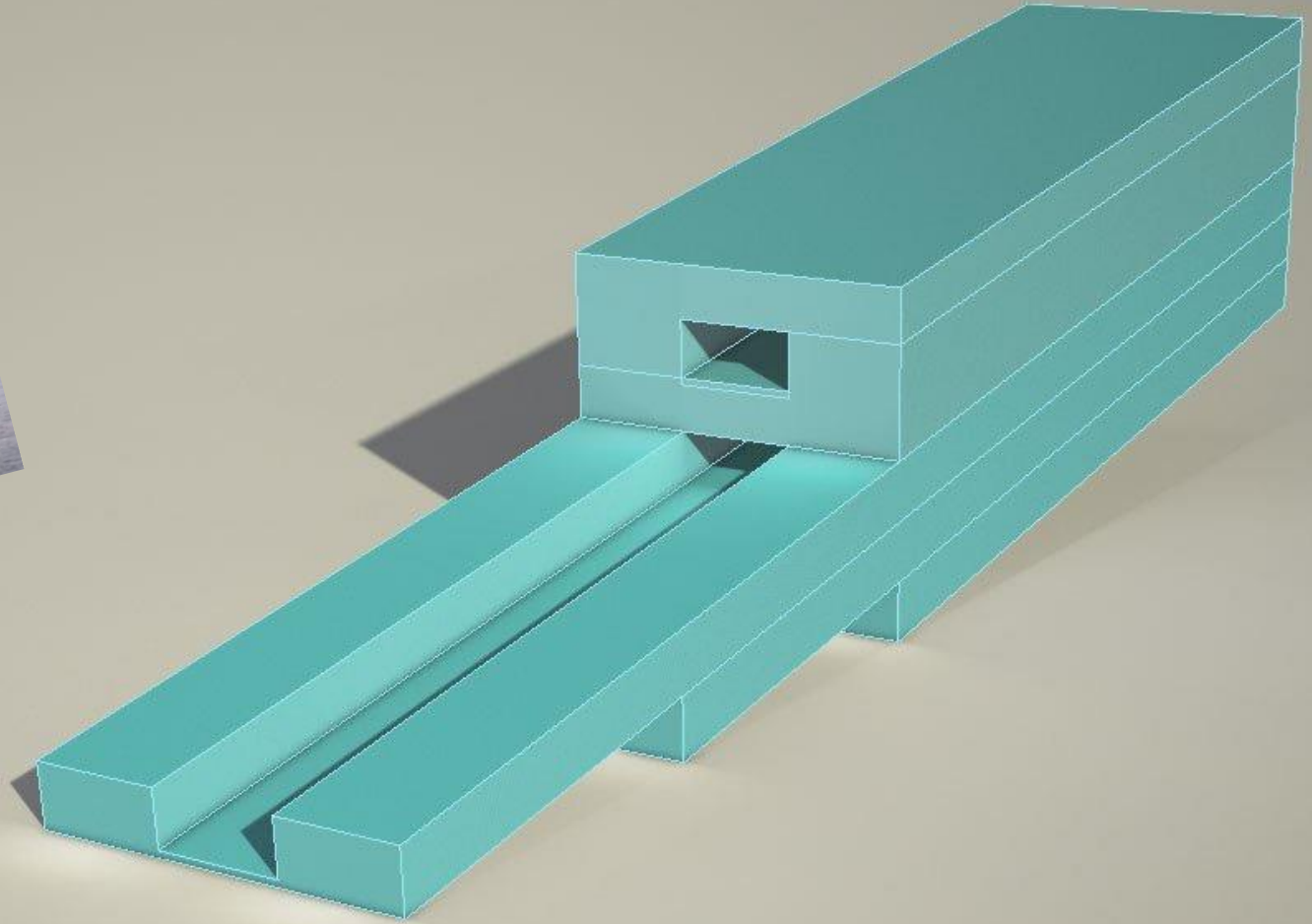


**CYCLES**SPACE

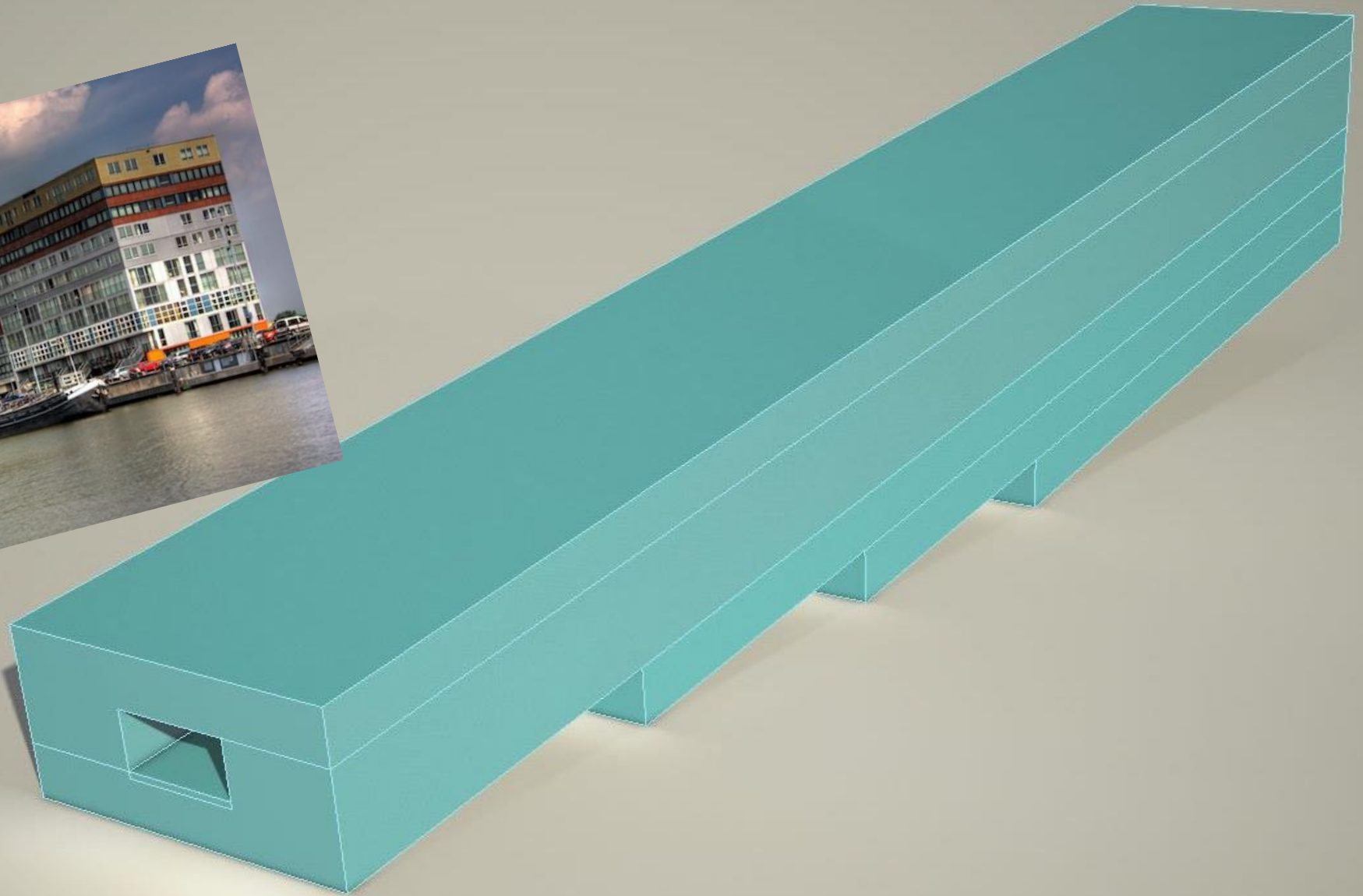


**CYCLES**SPACE

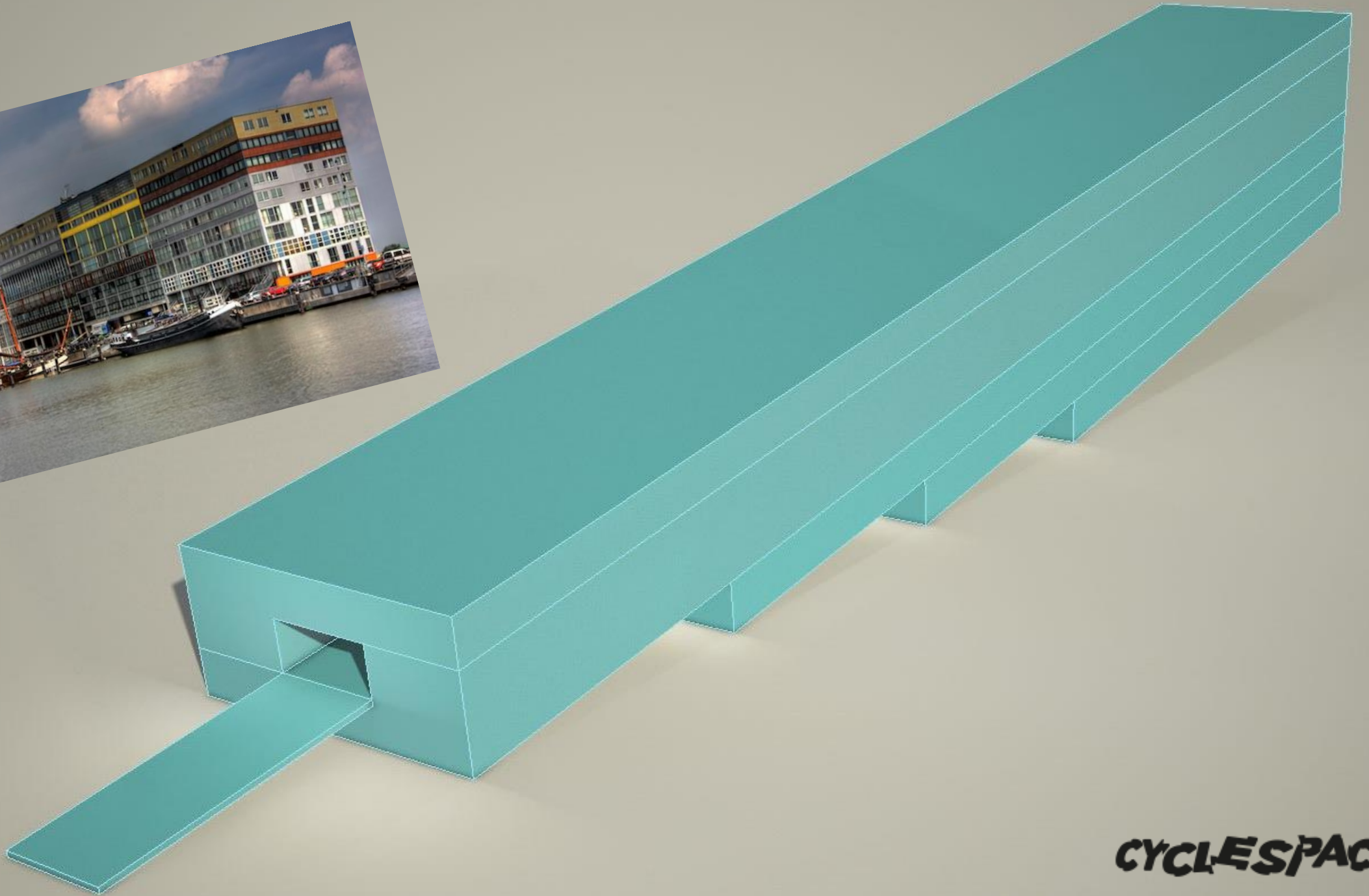




**CYCLES**SPACE

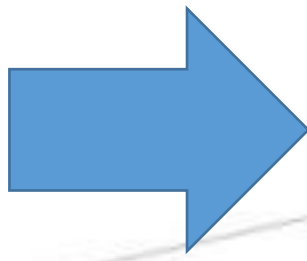
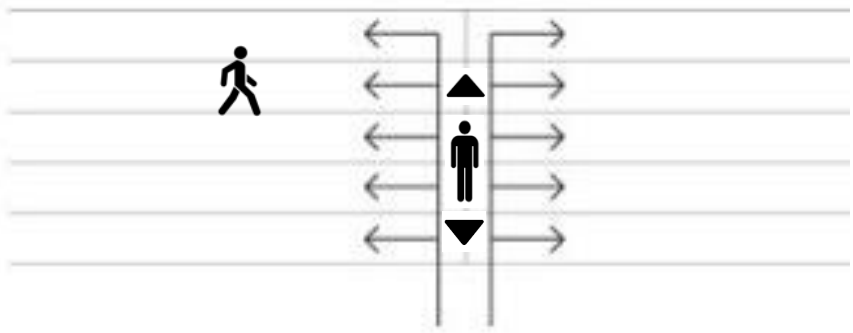


**CYCLES**SPACE

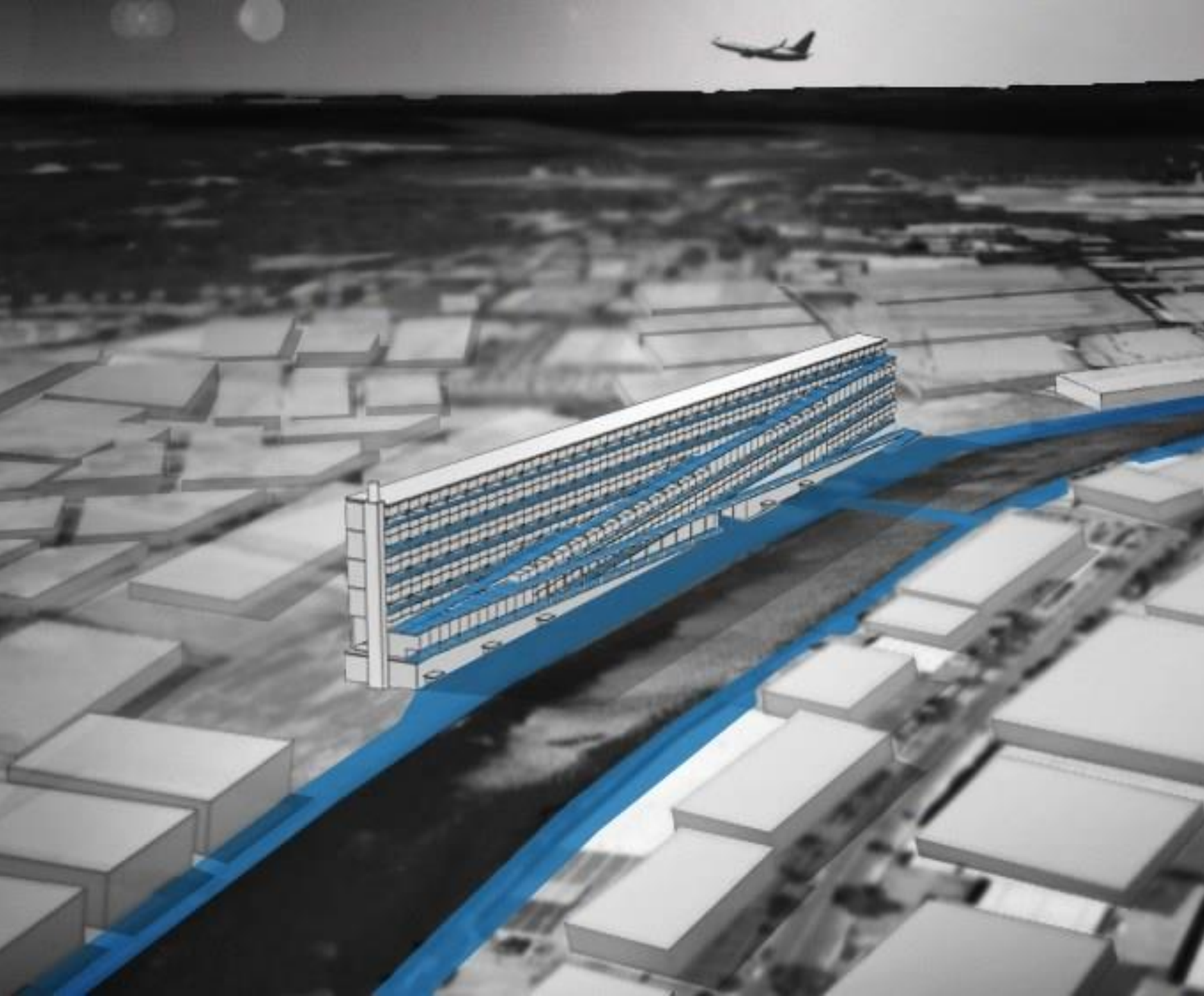


**CYCLES**SPACE





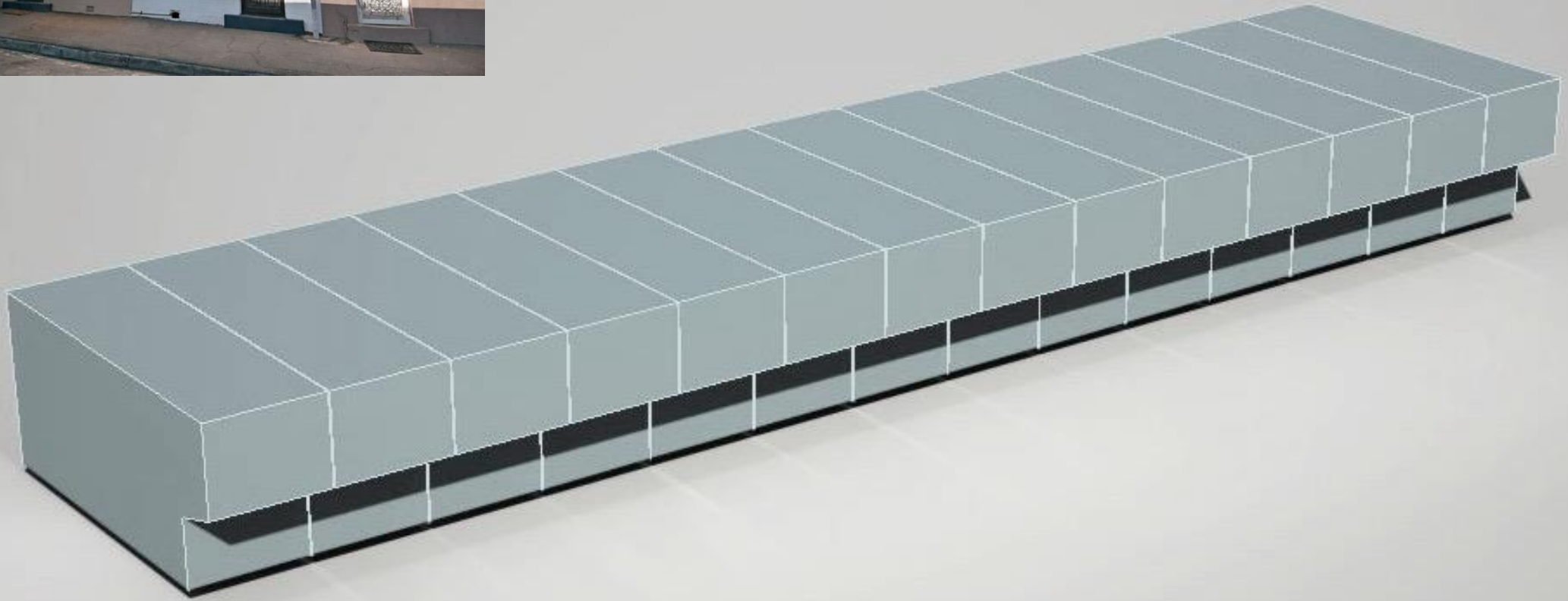


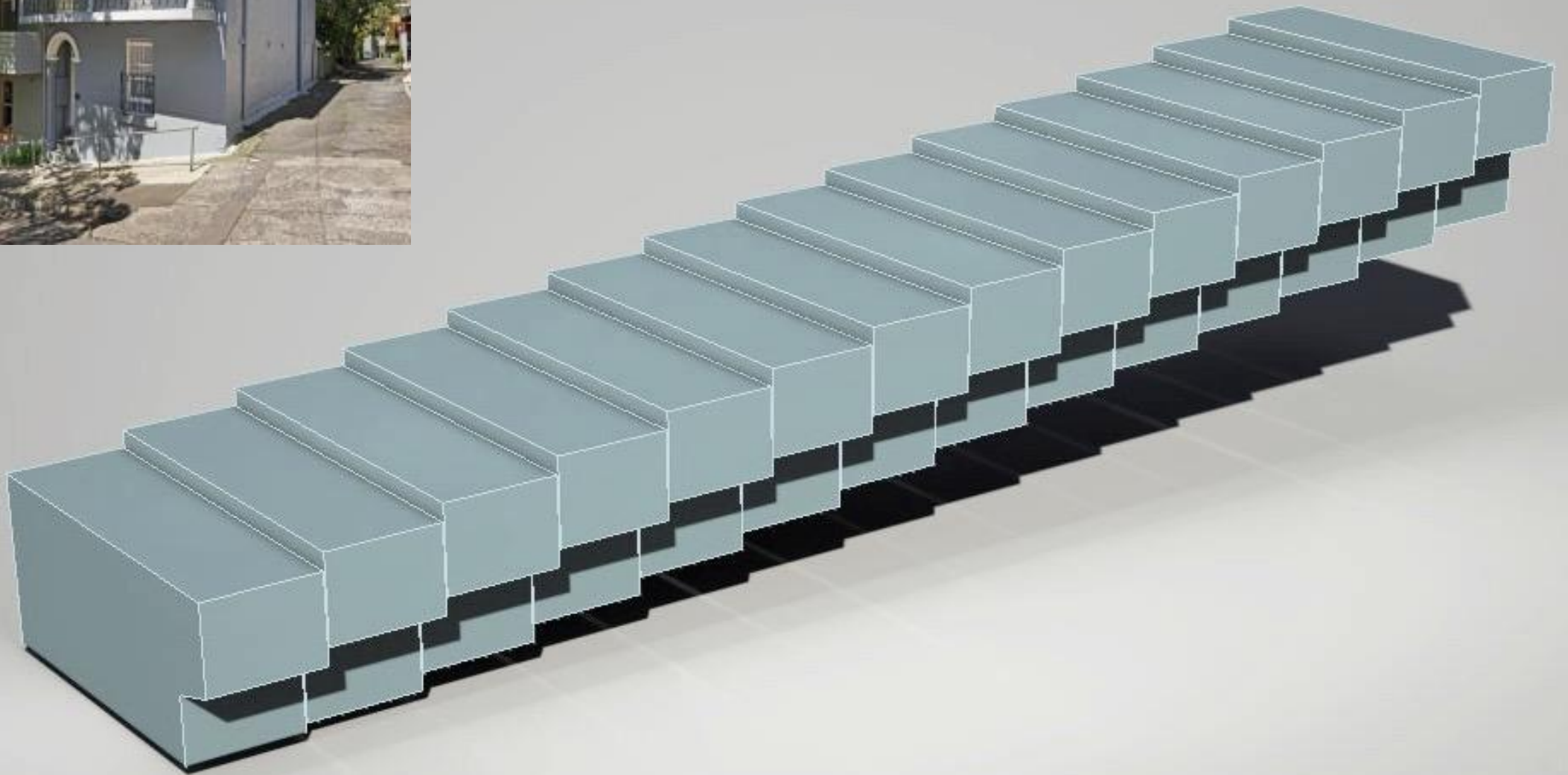


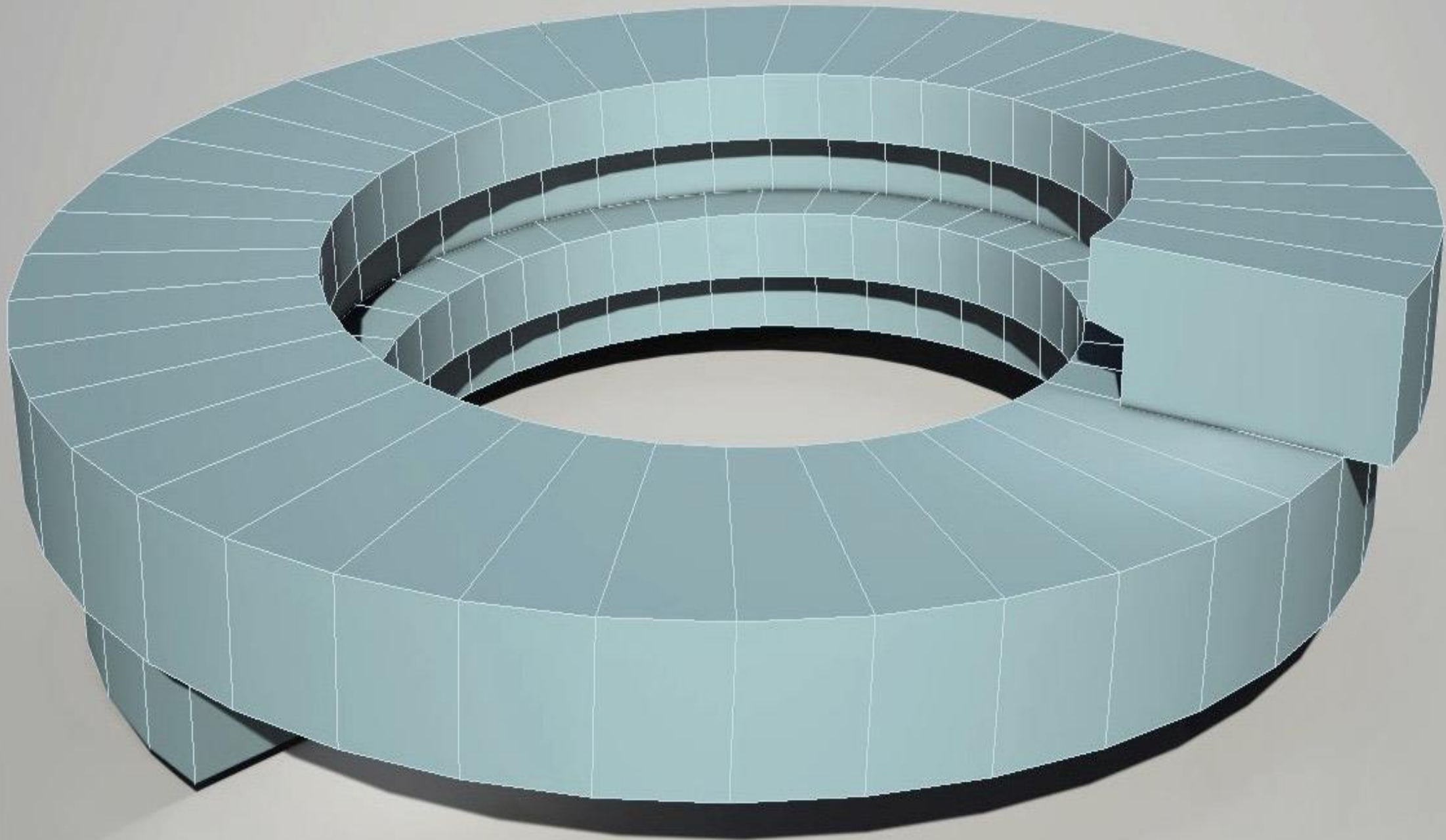
CYCLES & SPACE



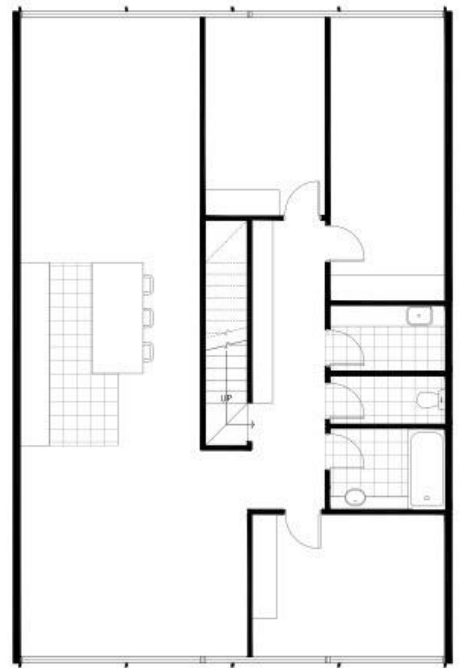
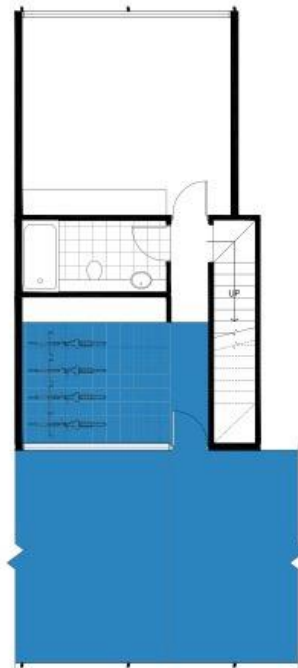
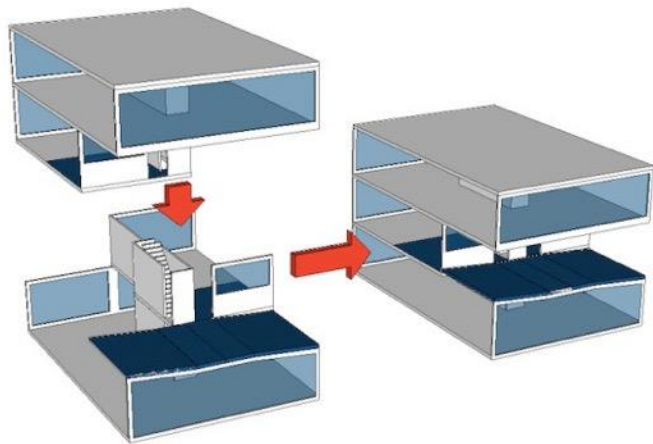
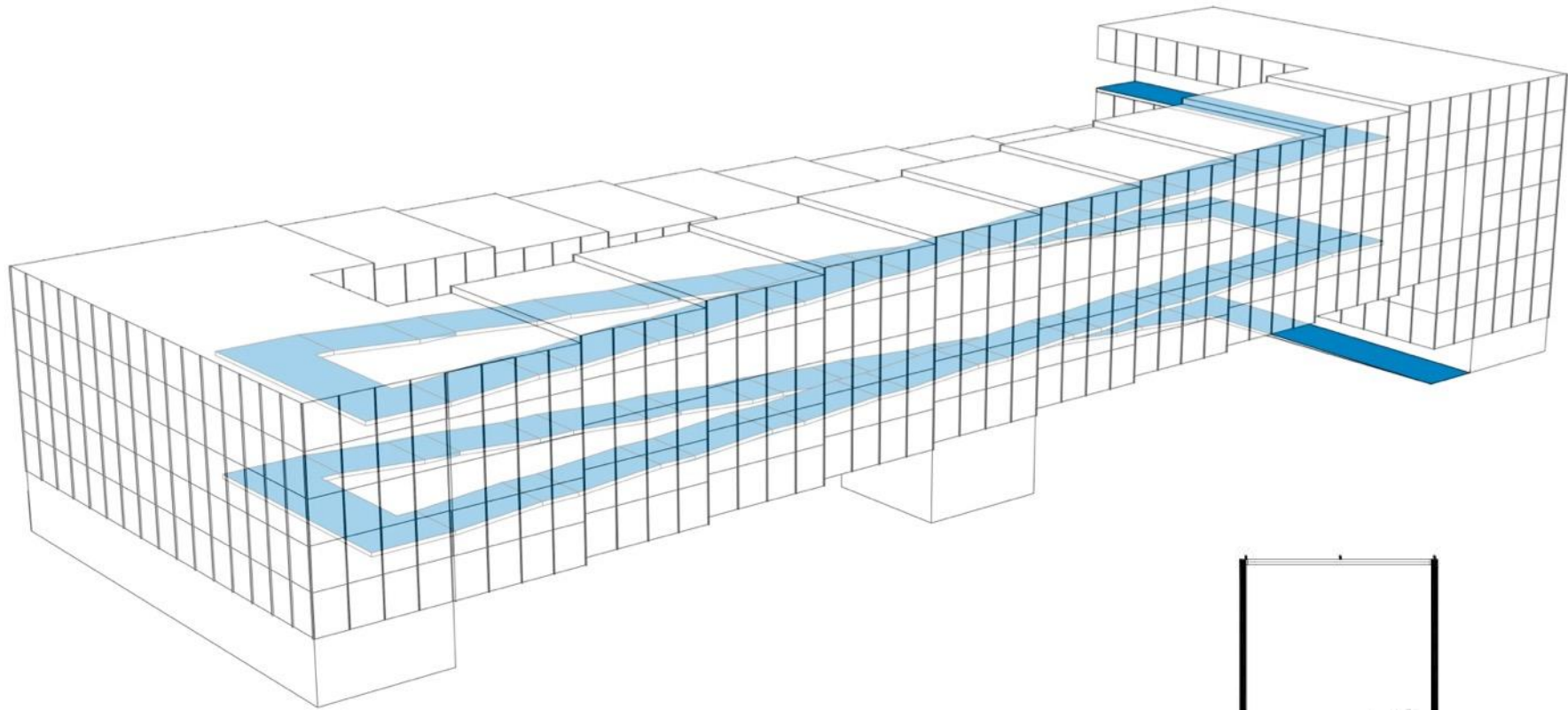


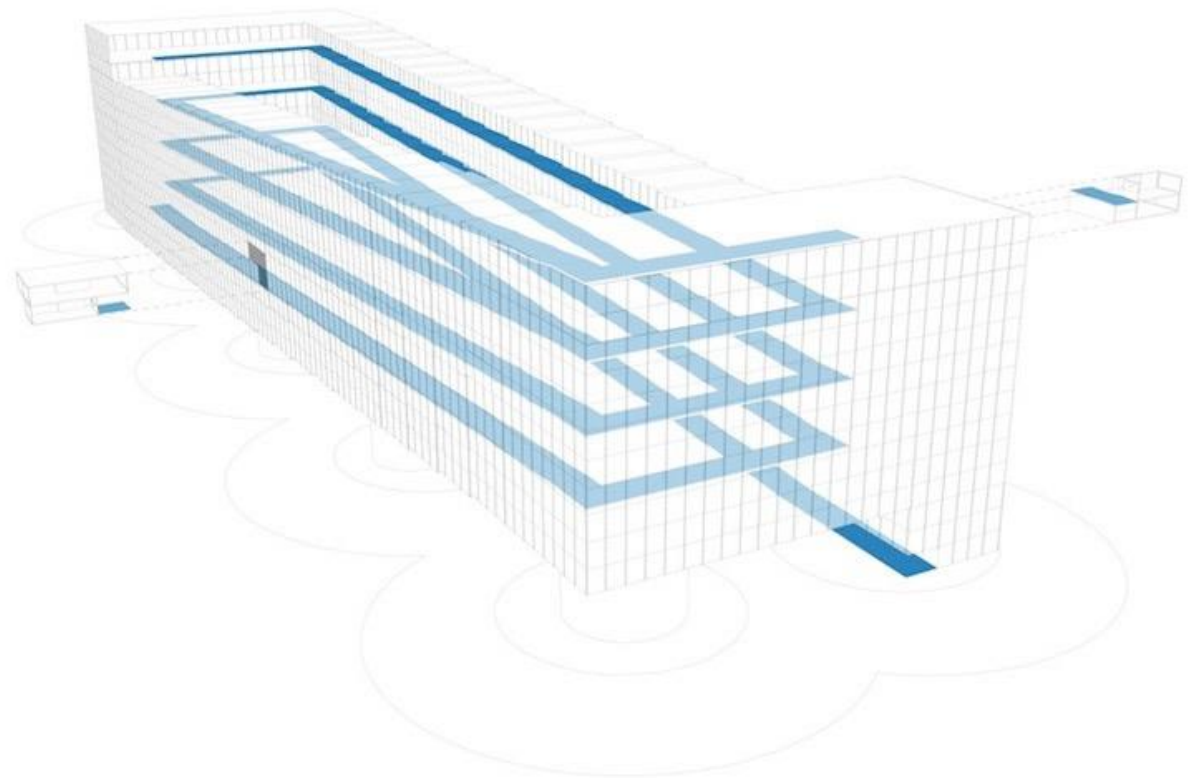








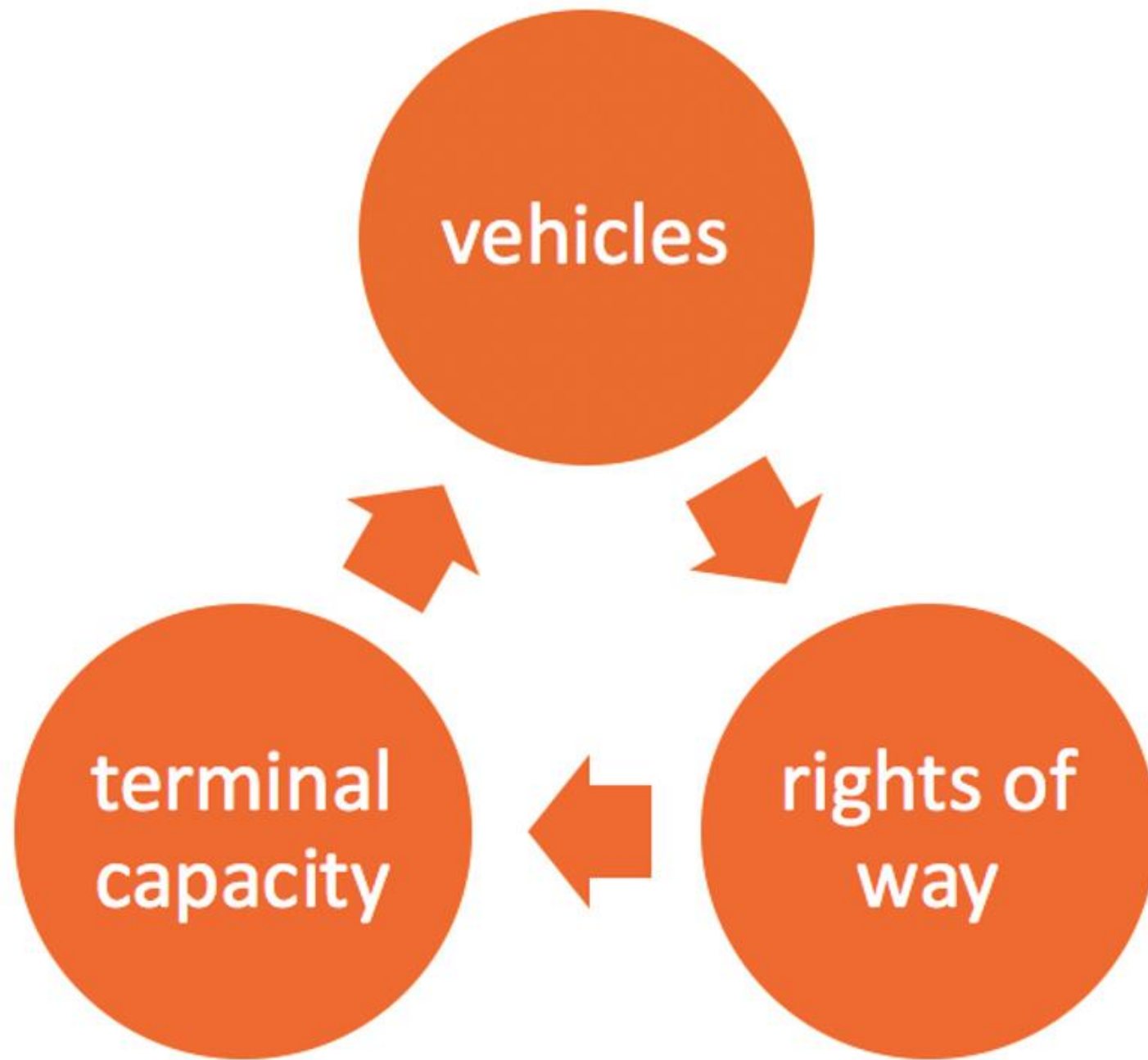






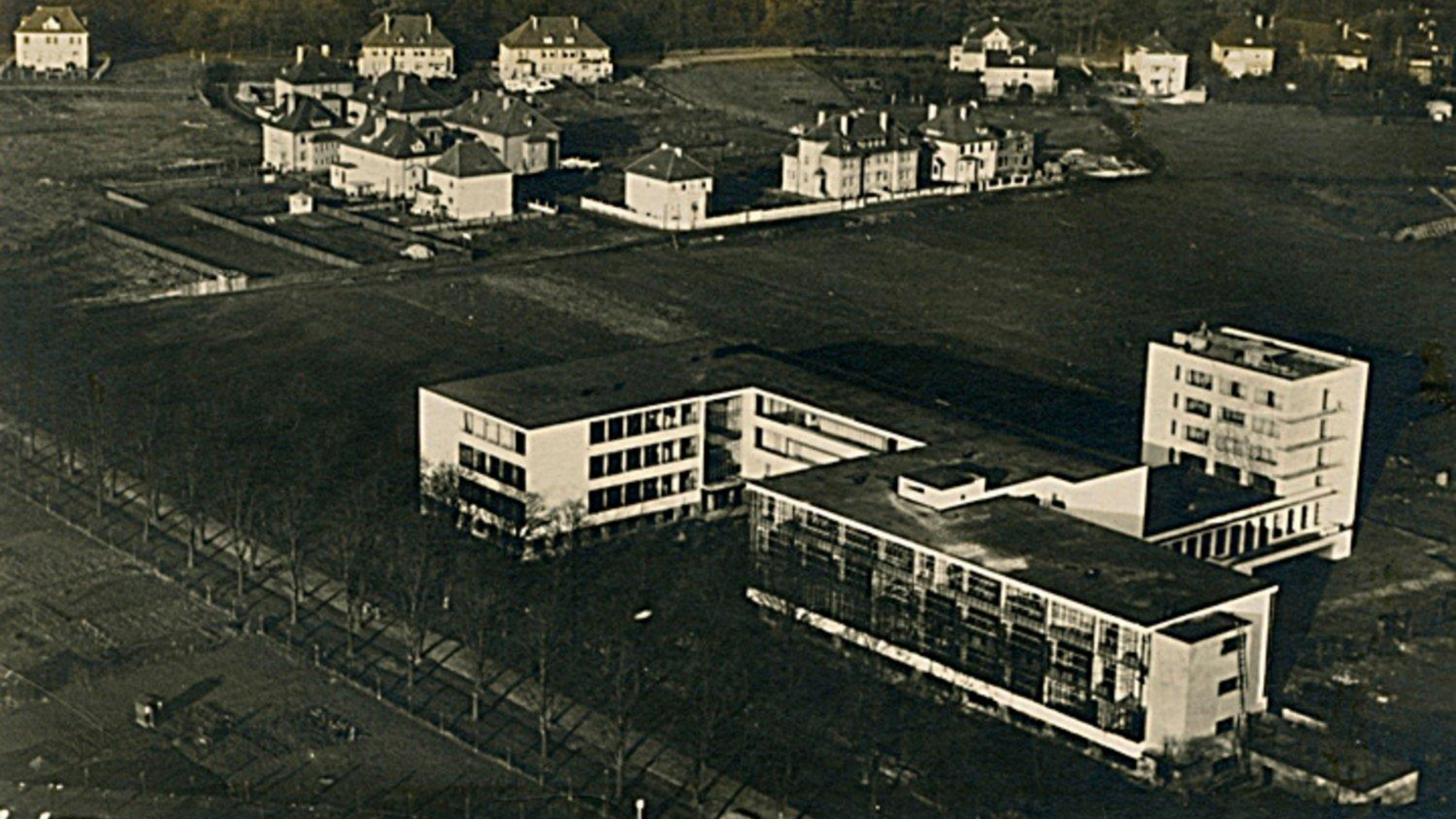


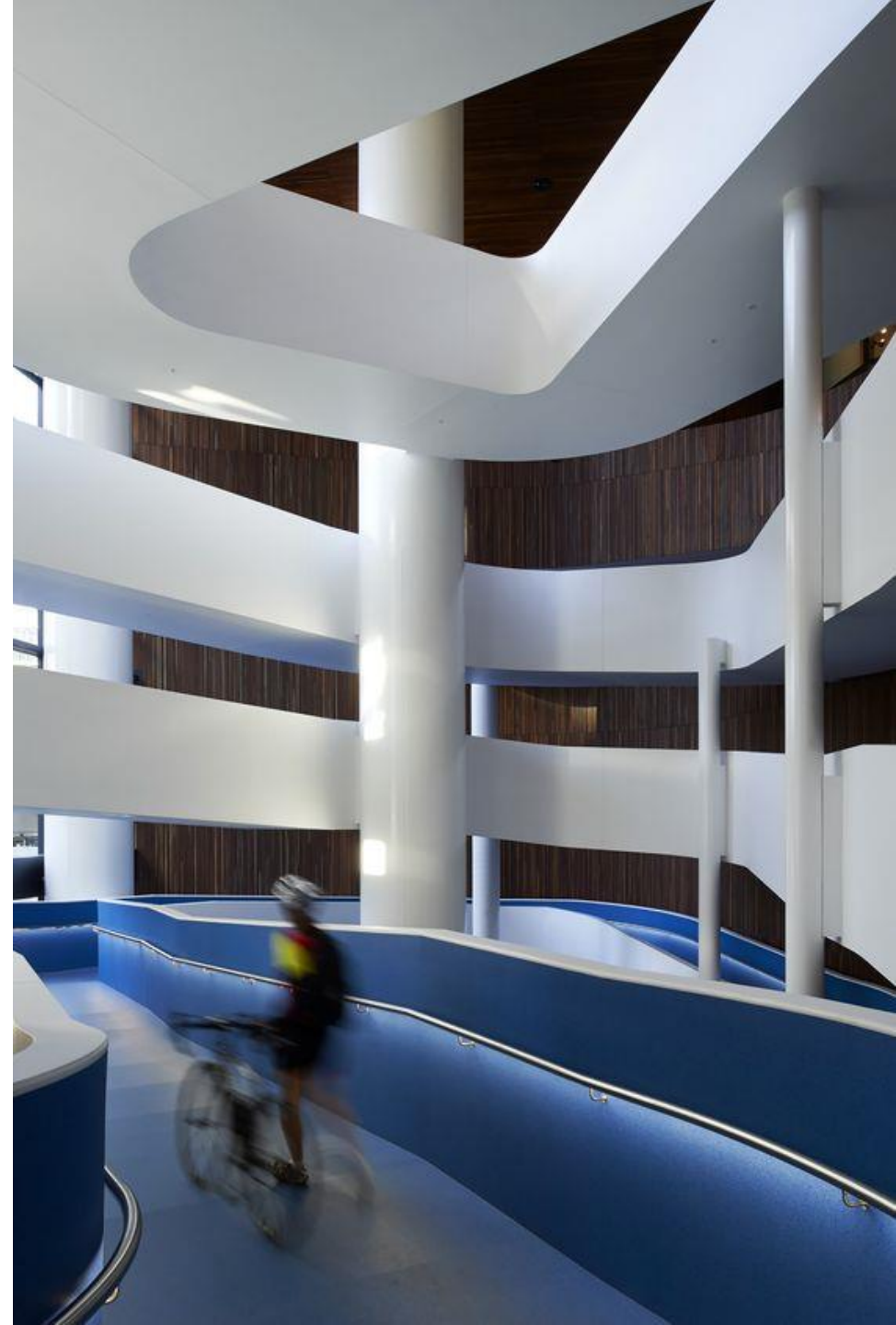
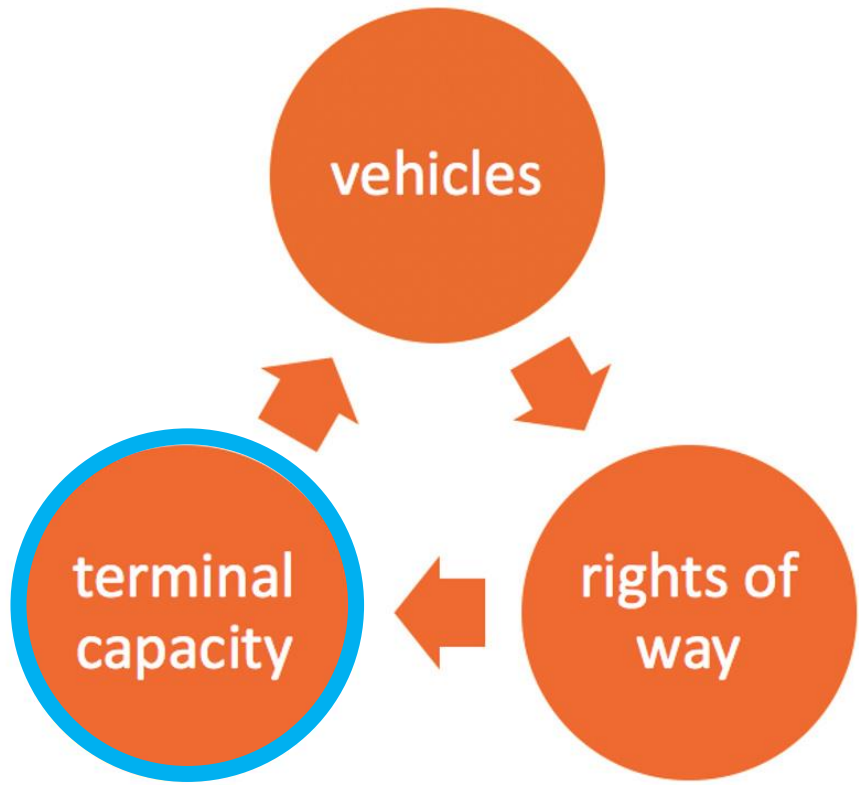


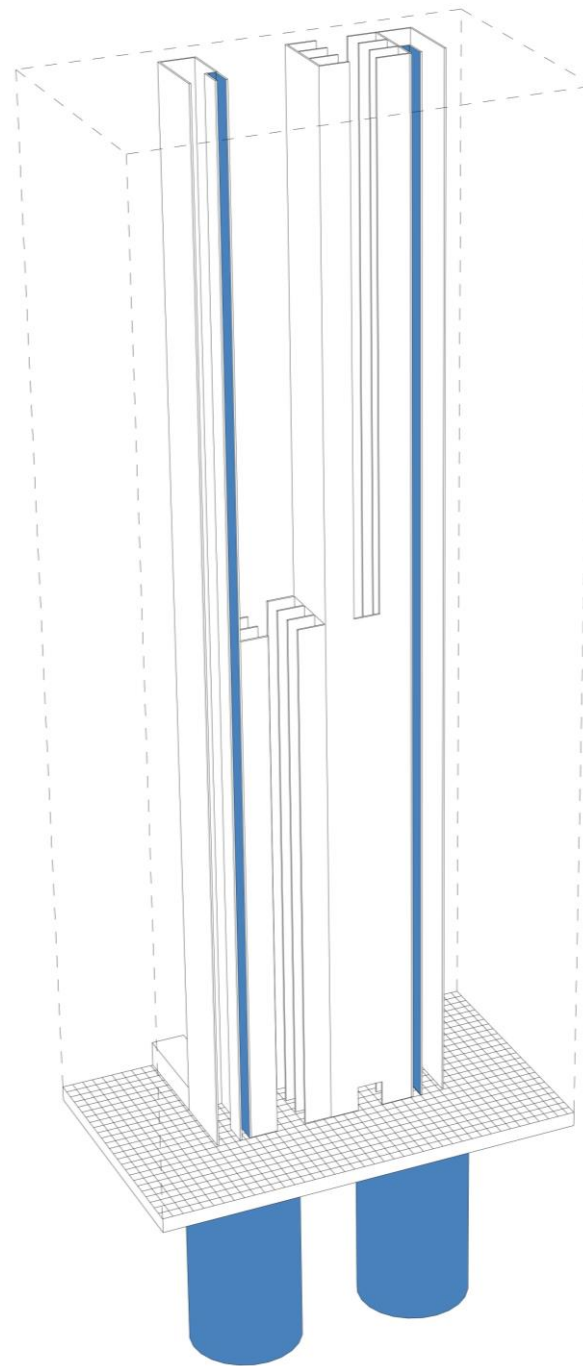
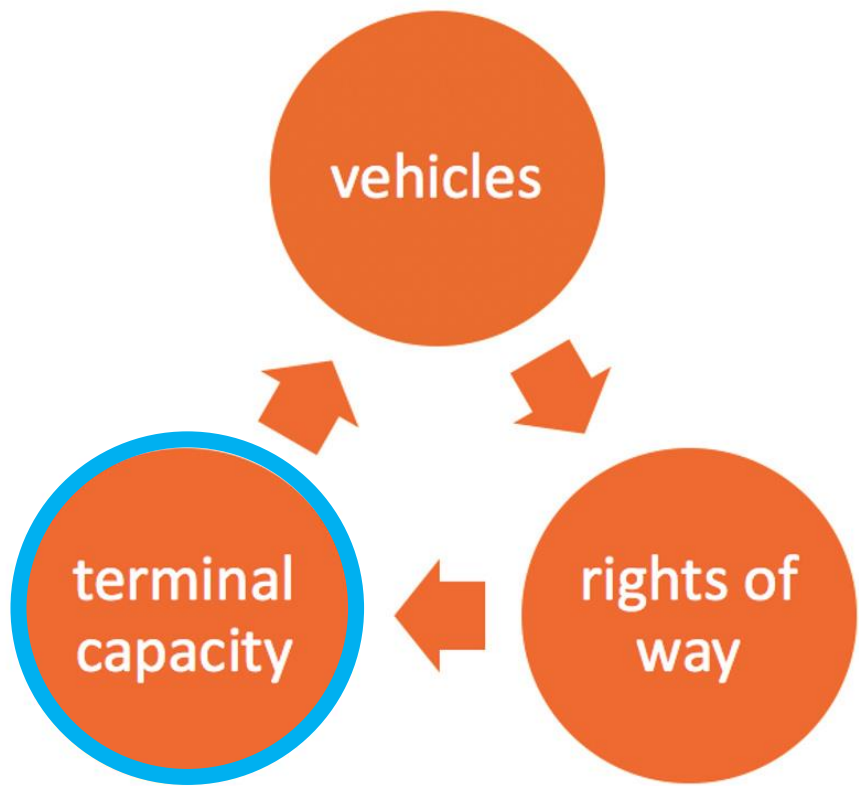














KIES VOOR  
SEIZOENS  
GROENTES



NATUUR  
WINKEL







GROENTES  
VEGETABLES

YAKH



Bevrijding voor alle  
soorten dieren

**OLIE**  
v/d Natuur

De Natuurlijke. Olie is een essentie van planten en dieren. Het is een natuurlijke bron van energie en gezondheid. Het is een natuurlijke bron van smaak en aroma. Het is een natuurlijke bron van vitaliteit en gezondheid. Het is een natuurlijke bron van plezier en gezondheid. Het is een natuurlijke bron van gezondheid en plezier.

**OLIE WISZER**

**Opzettele vervaardiging**  
wordt bereid bij 120°C gepast. Door de hitte ontstaat in deze kwaliteit olie een zeer geschikt voor dressings, brood en pasta's, maar minder geschikt om mee te bakken.

**Opzettele vervaardiging**  
De ingrediënten van de olie van eerste persing worden door een staandverwarmings- of de olie gepast. Daarbij gaat het om een vervaardiging. Deze vervaardiging kan groot verschil worden in de olie geschikt om mee te bakken of te bruiken.

**Kwaliteitskeuze**  
Kies een olie van goede kwaliteit. Luistert omringt 6 en omringt 3. Bovendien wordt deze olie ook omringt omringt omringt. Deze olie is geschikt voor marmeren en een prima basis voor dressings en sauzen. De smaak is heerlijk.

**Waarom olie**  
De olie is een essentie van een gewas. Het is een natuurlijke bron van smaak en aroma. Het is een natuurlijke bron van vitaliteit en gezondheid. Het is een natuurlijke bron van plezier en gezondheid. Het is een natuurlijke bron van gezondheid en plezier.

**Japan CUISINE**







Buiksloterweg



(Brom-)fietsen  
motoren afstappen

MAX 240

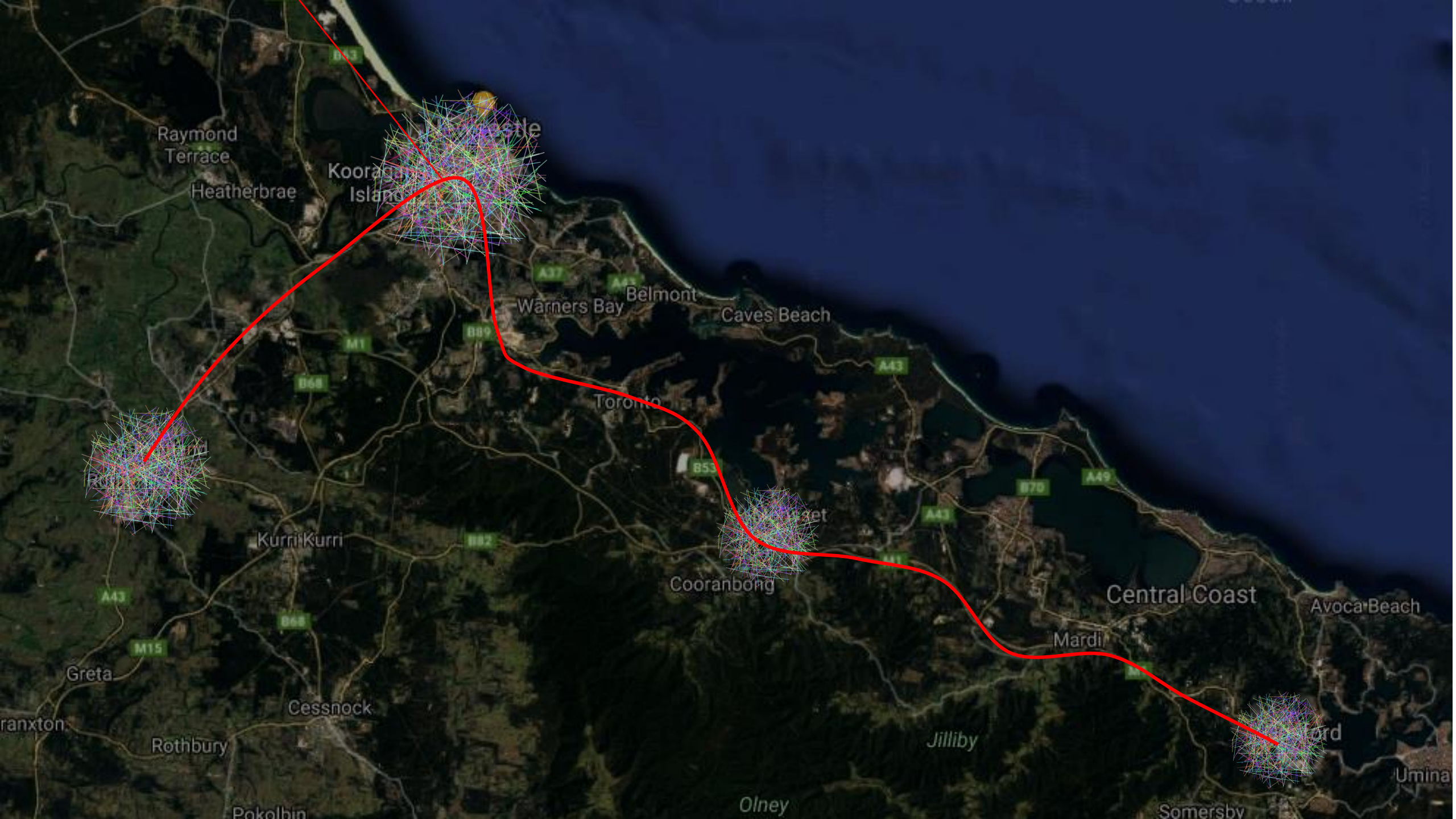
PERSONEN

(Brom-)fietsen  
motoren afstappen

I WEG 63  
BUIKSLOTERWEG

voetgangers, fietsers





Harsh Fact:

Population ÷ Trip Times = Relative Wealth