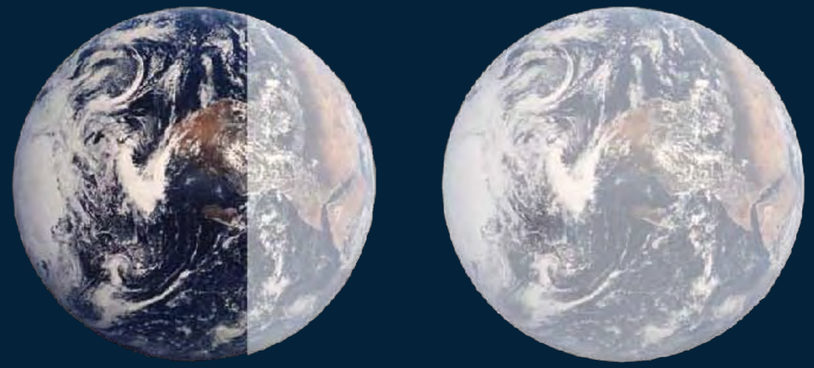
Planning for green and social infrastructure Aarhus H

Cobe / Dan Stubbergaard

August 2, 2019 was the Earth Overshoot Day - the day when the entire year's sustainable consumption of natural resources is exhausted five months ahead.



17,5 %

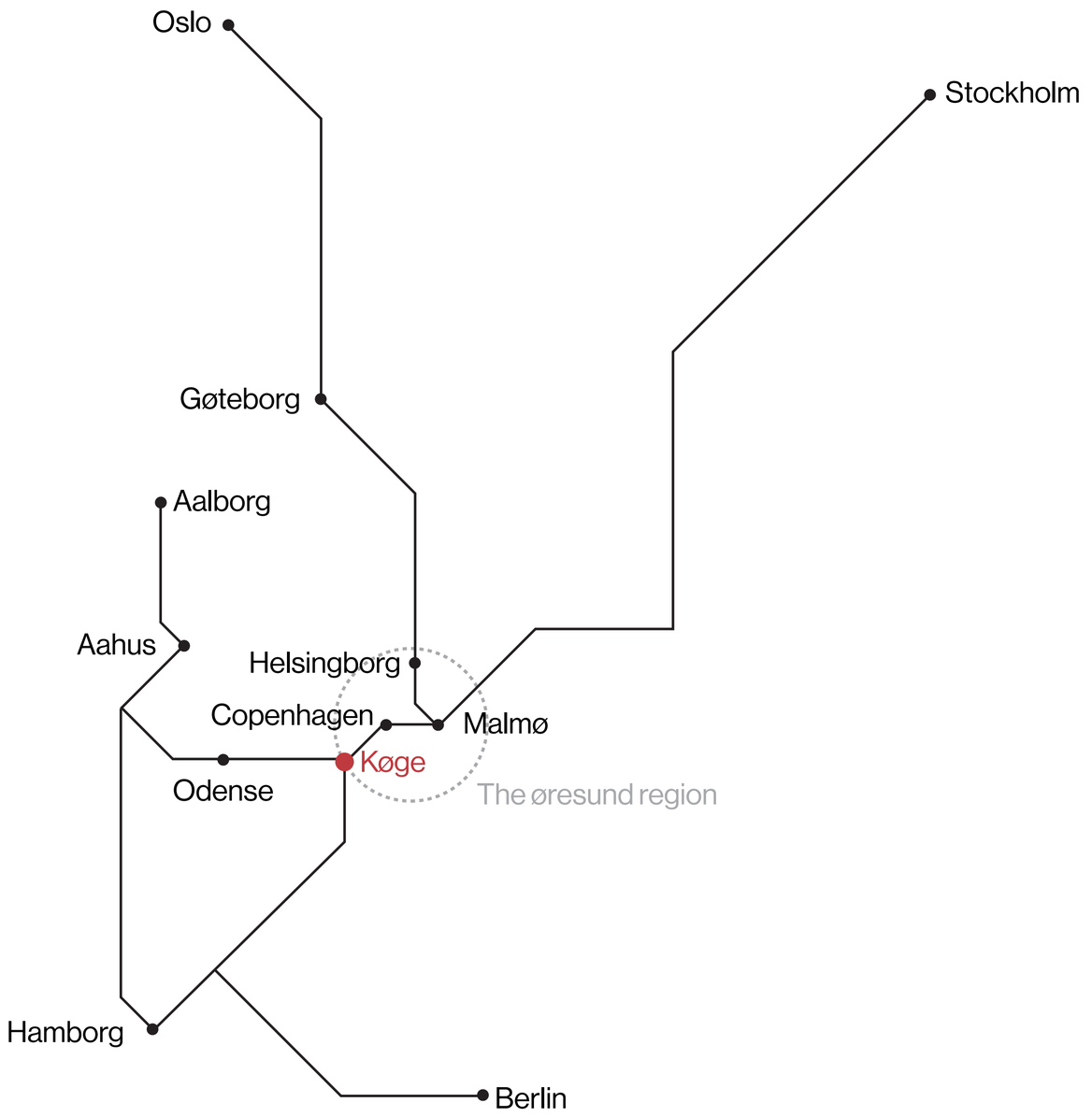
Is the share of total greenhouse gas emissions from transportation and mobility in the worlds greater urban areas.

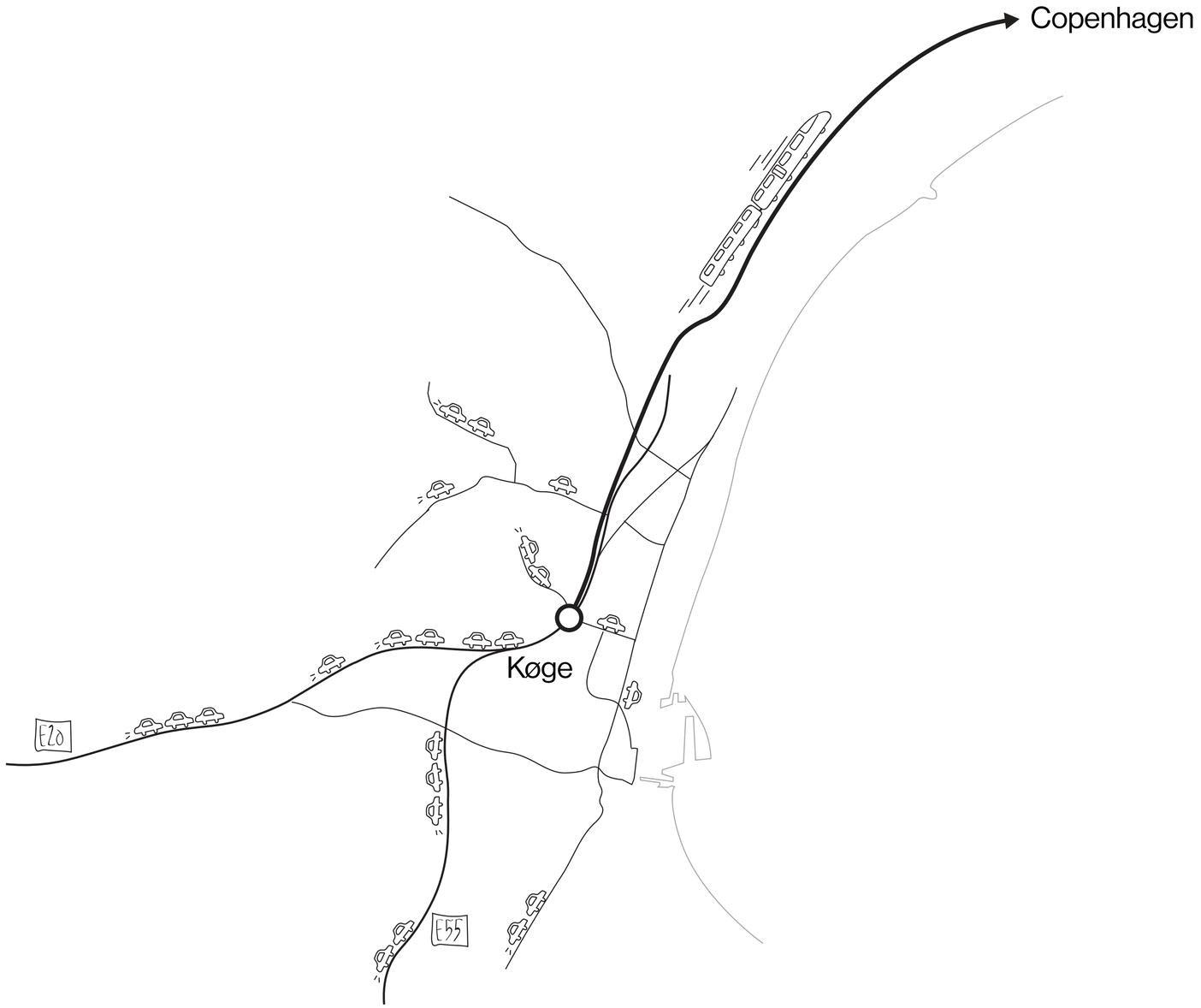
How can green mobility become a gamechanger in organizing our urban environments?

Køge Nord Station

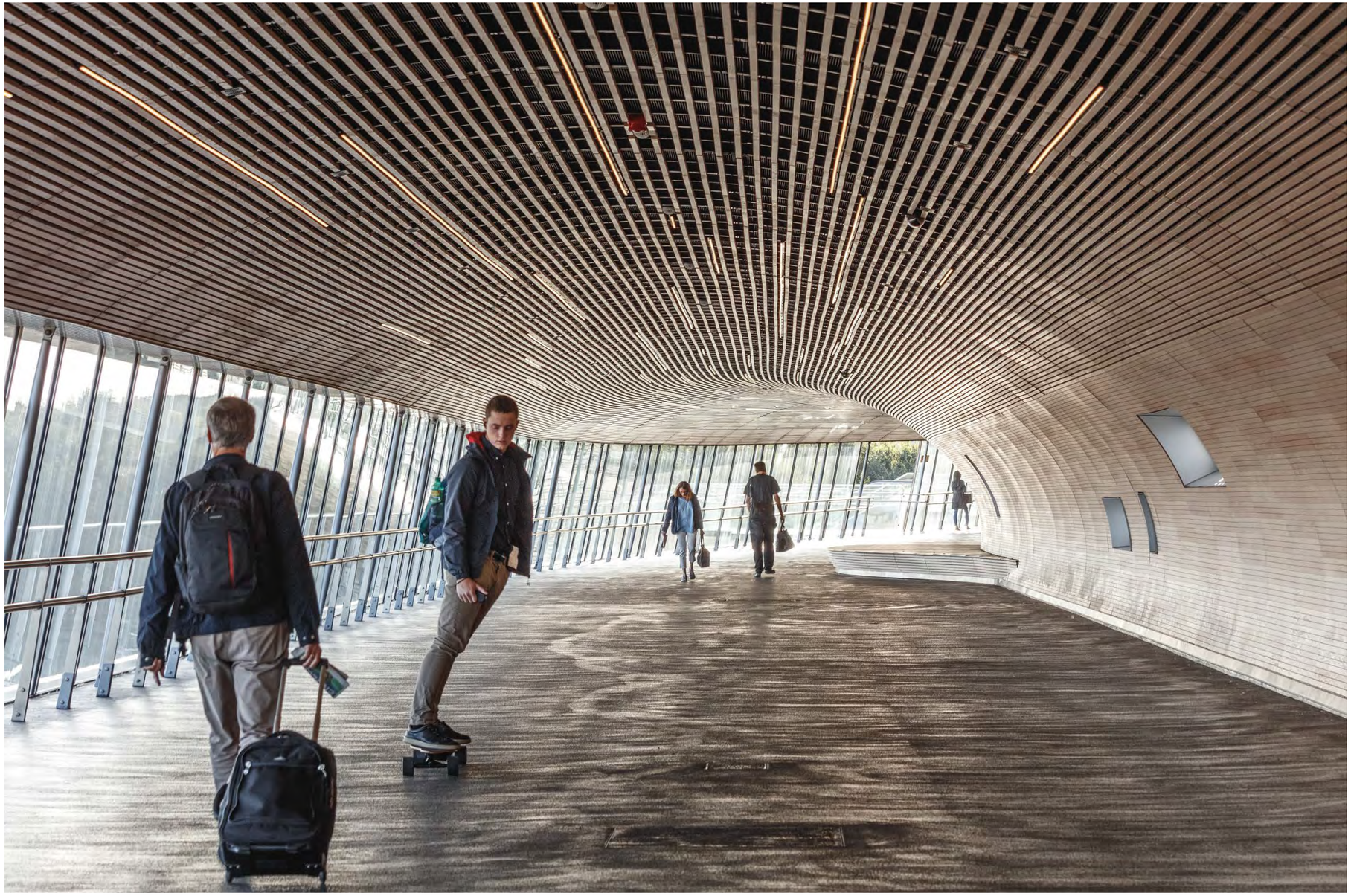
Designing Green Mobility

NORDCARRIER


Oslo
Stockholm
Gøteborg
Aalborg
Aahus
Helsingborg
Copenhagen
Malmø
Køge
Odense
The øresund region
Hamborg
Berlin


Copenhagen
Køge
E20
E55

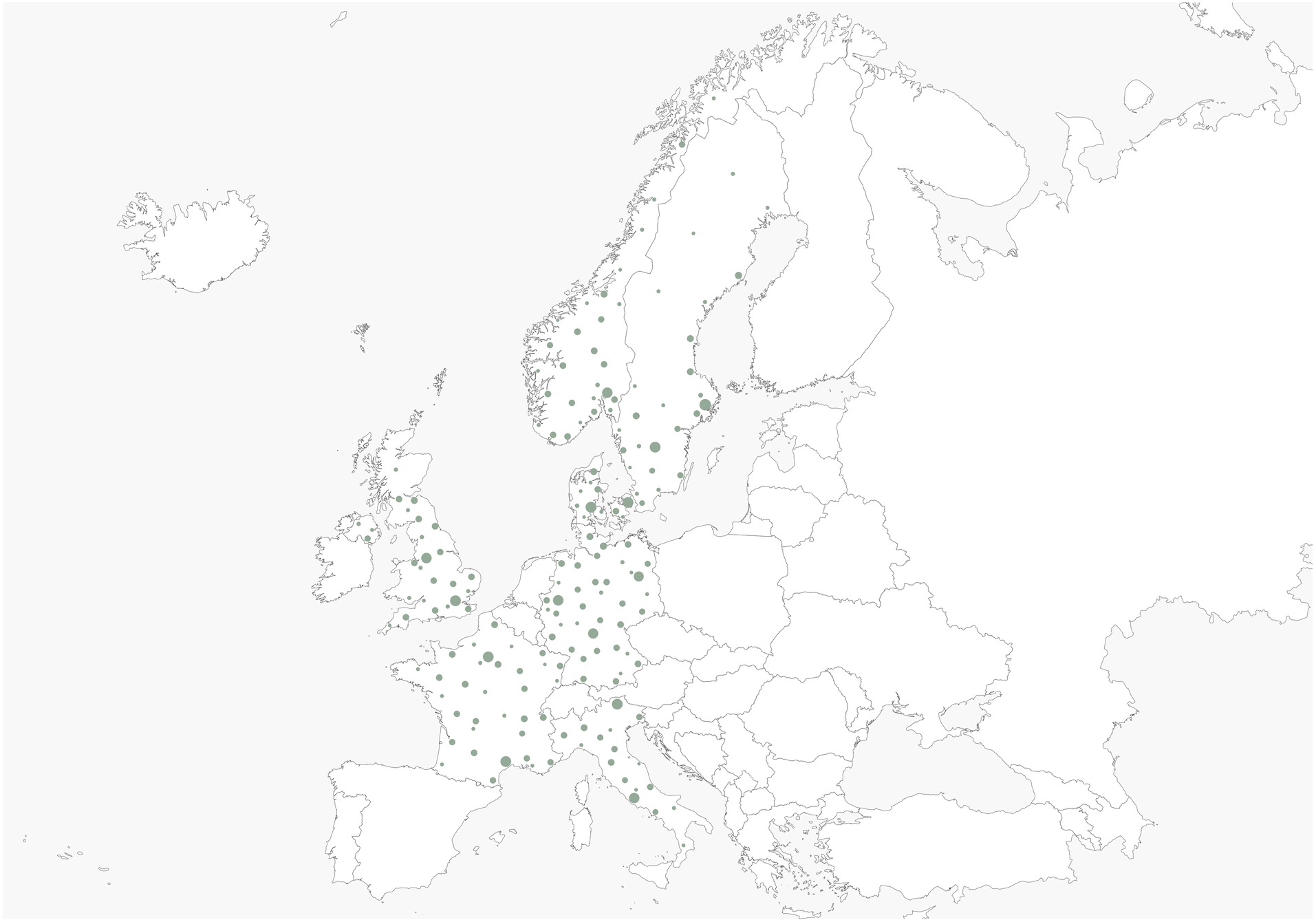
UDLEJES
H.E.W. A/S



Køge Nord

Ultra-Fast Charging Stations for electrical cars

From gas station to recharge station

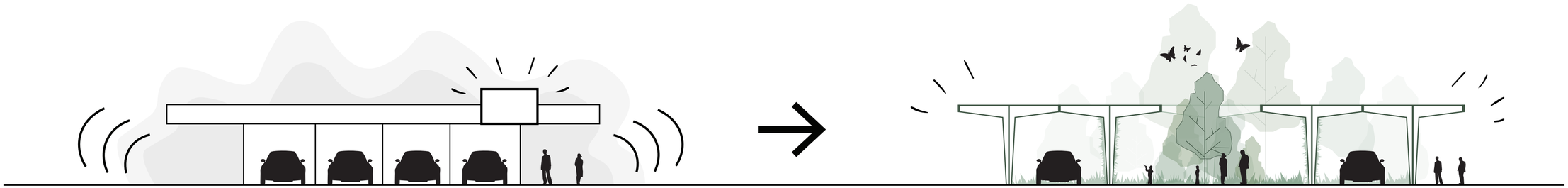


LVASK
UBEGRÆNSET
69,-
ENKELT
39,-

From dirty and rough...

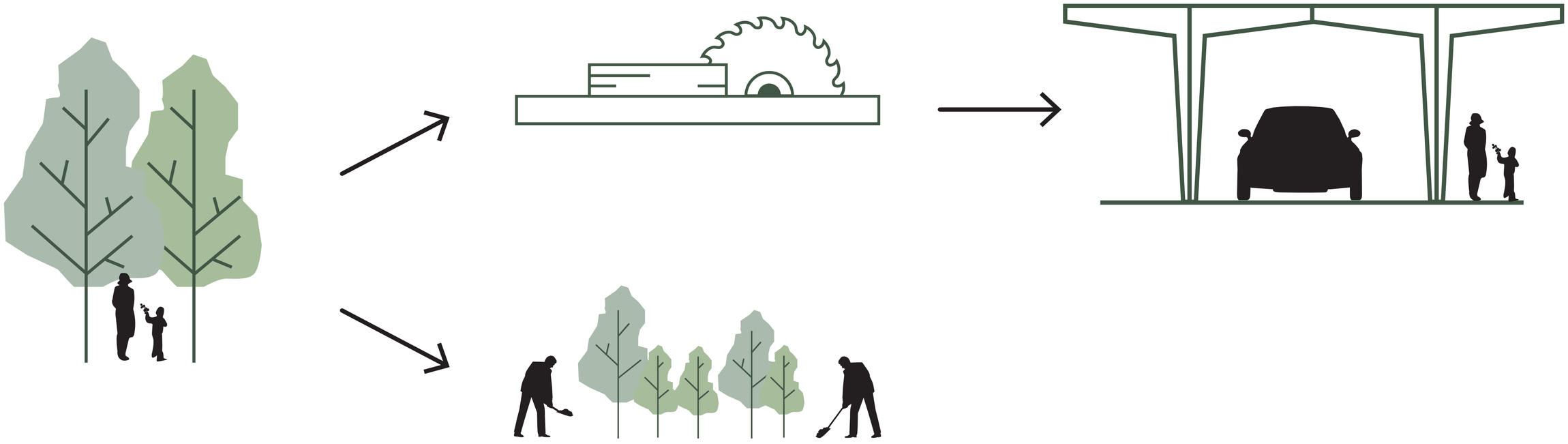
To clean and tactile

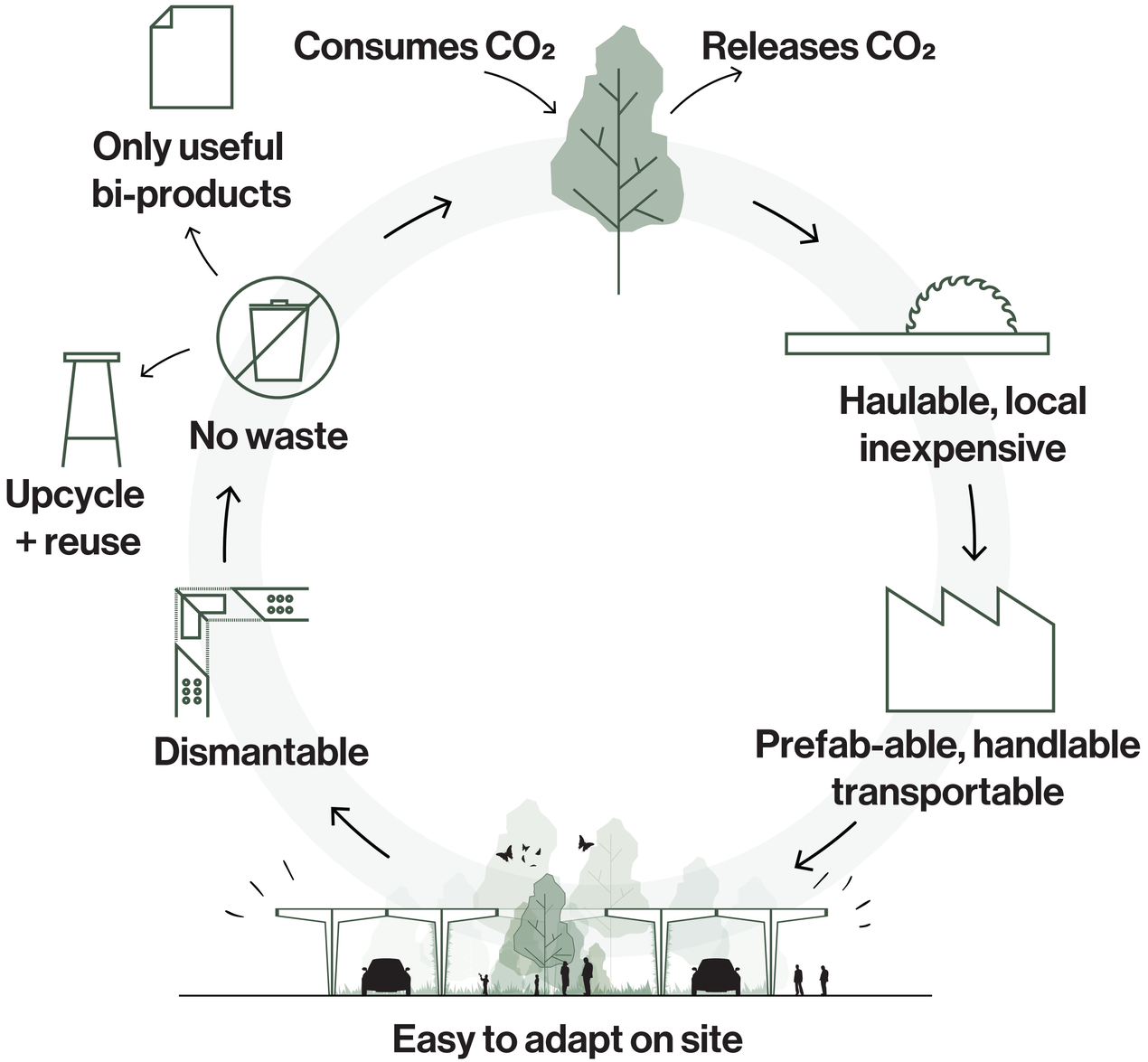
From gas station to recharge

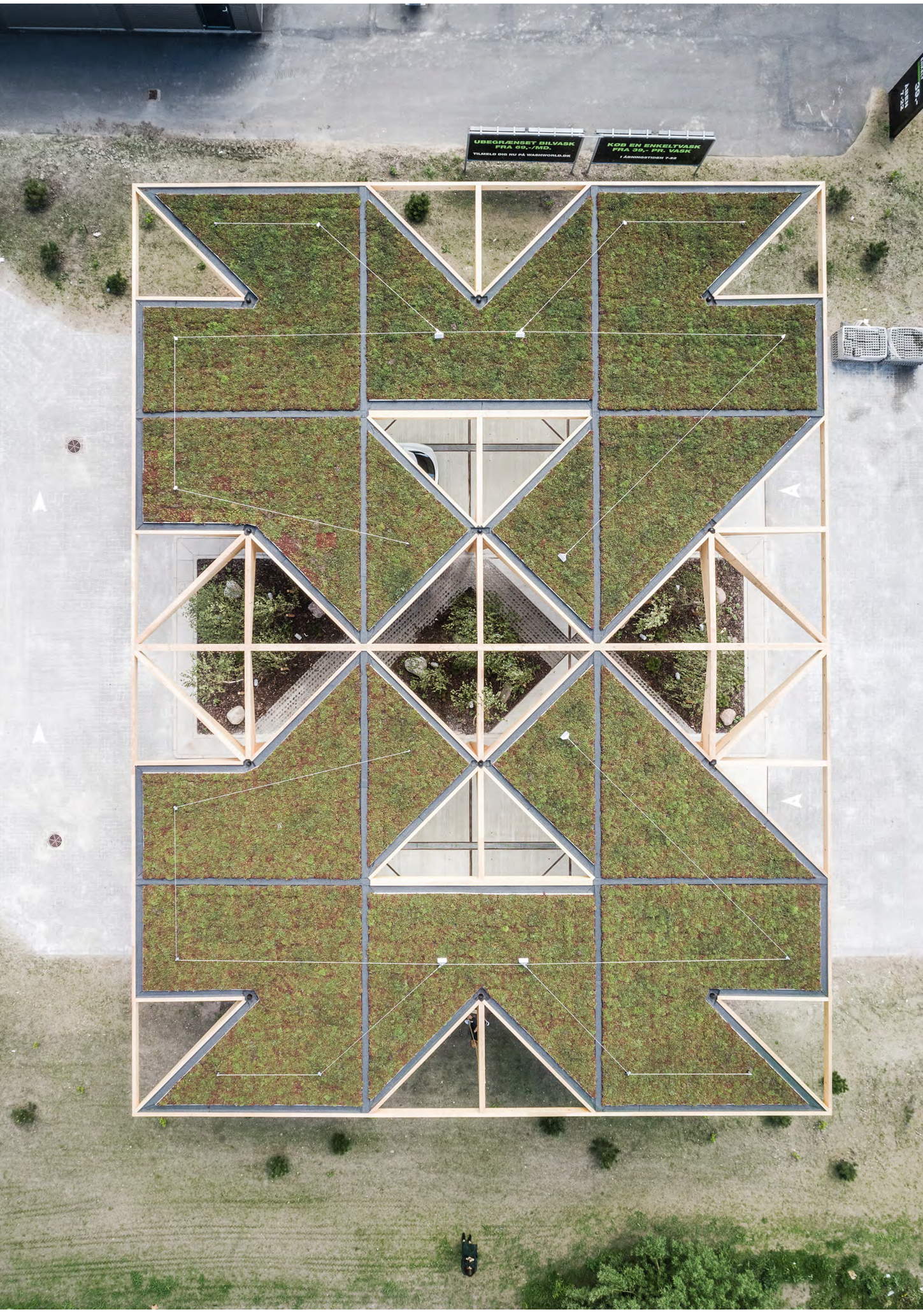


BILVAS

The modules are designed and produced in a way that makes for an easy assembly




Consumes CO_2
Releases CO_2
Only useful bi-products
Haulable, local inexpensive
No waste
Upcycle + reuse
Prefab-able, handlable transportable
Dismantable
Easy to adapt on site

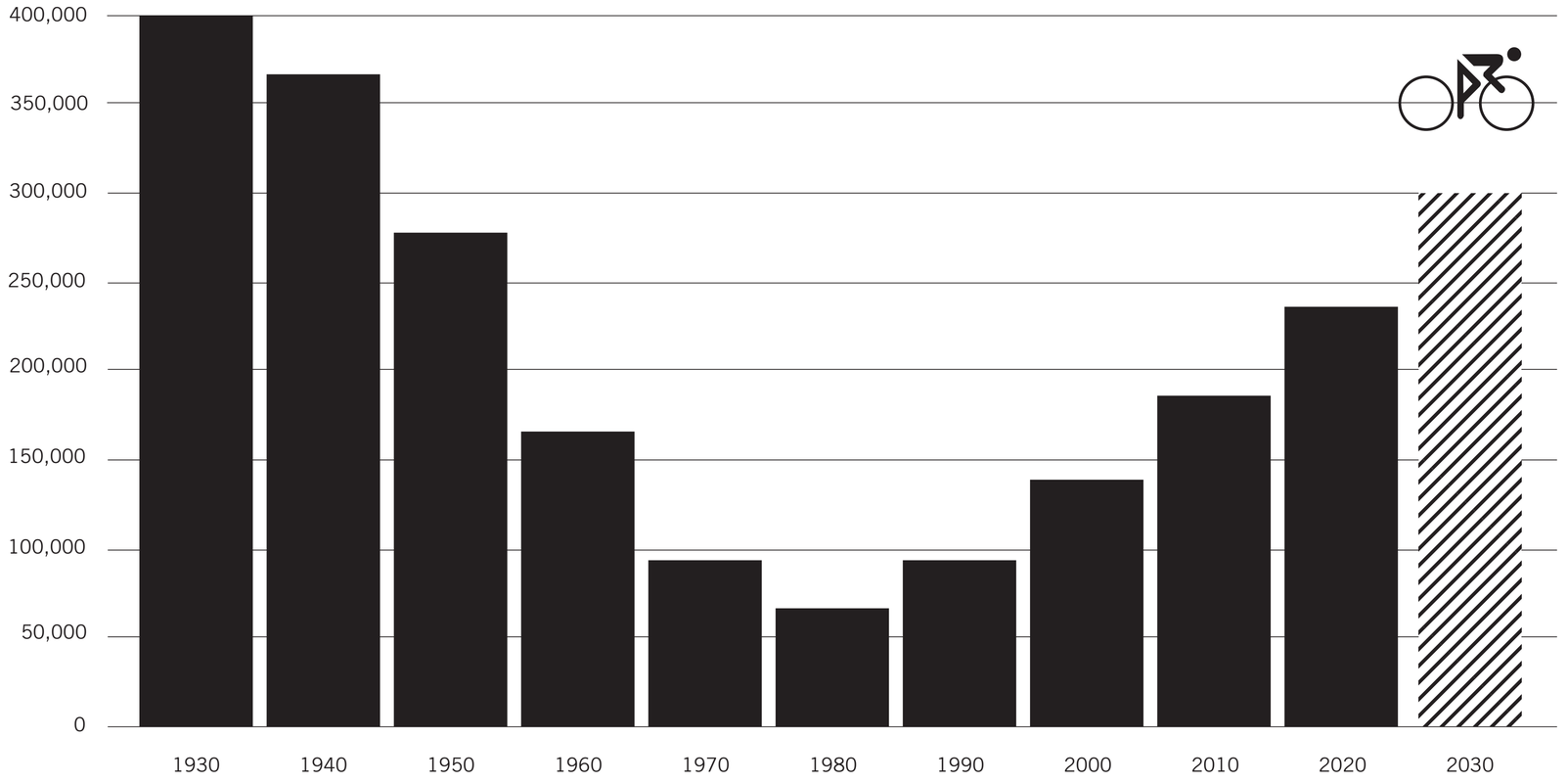

UBEGRÆNSET BILVASK
FRA 69,-/MD.
TILMELD DIG NU PÅ WASHWORLD.DK
KØB EN ENKELTVASK
FRA 35,- PR. VASK
I ÅBNINGSTIDEN 7-22

WASH
WORLD
WASH
WORLD
WASH
WORLD
BLIV I BILEN
STAY IN CAR
STOP
STOP
STOP
WASH
WORLD
BILVASK
UBEGRÆNSET
69,-
ENKELT
39,-
ÅBEN
7-22

From Infrastructure to Public Space

Why does infrastructure dictate the vast majority of public spaces in our cities?

Bicycle traffic in Copenhagen 1930–2030



Biking
For an extraordinary everyday

40 % off all citizens in Copenhagen
commute by bike.

Copenhagen bicycle bridges

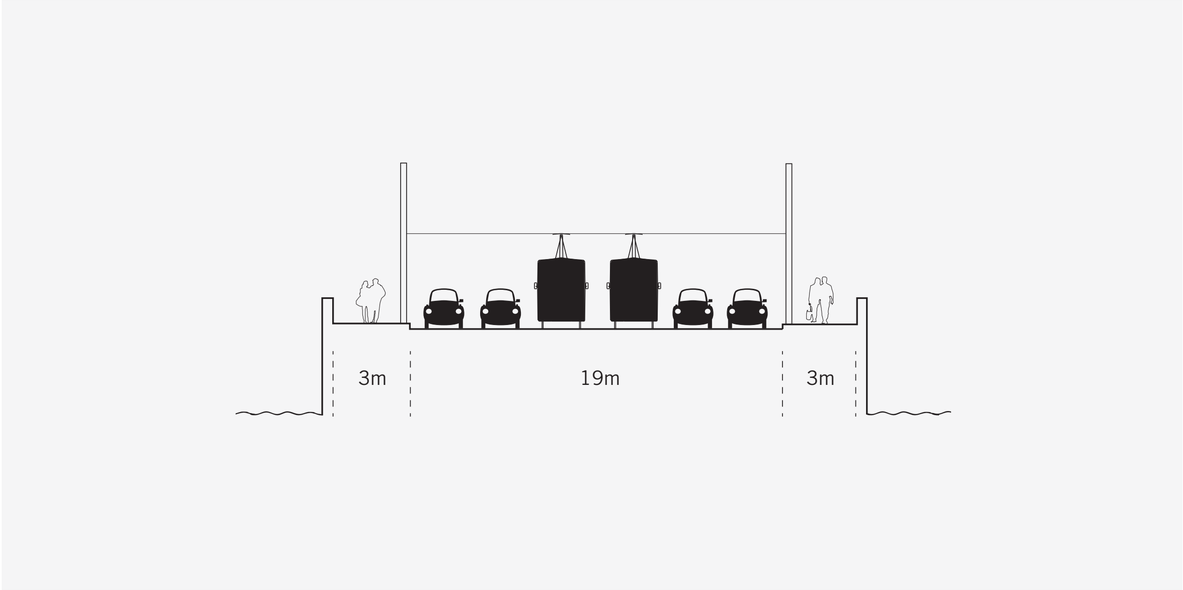
The battlefield of the Copenhagen streets and the creation of a bicycle city

1940s: Copenhagen was a city of cyclists with up to 400,000 people riding their bikes in and out of the centre every day.

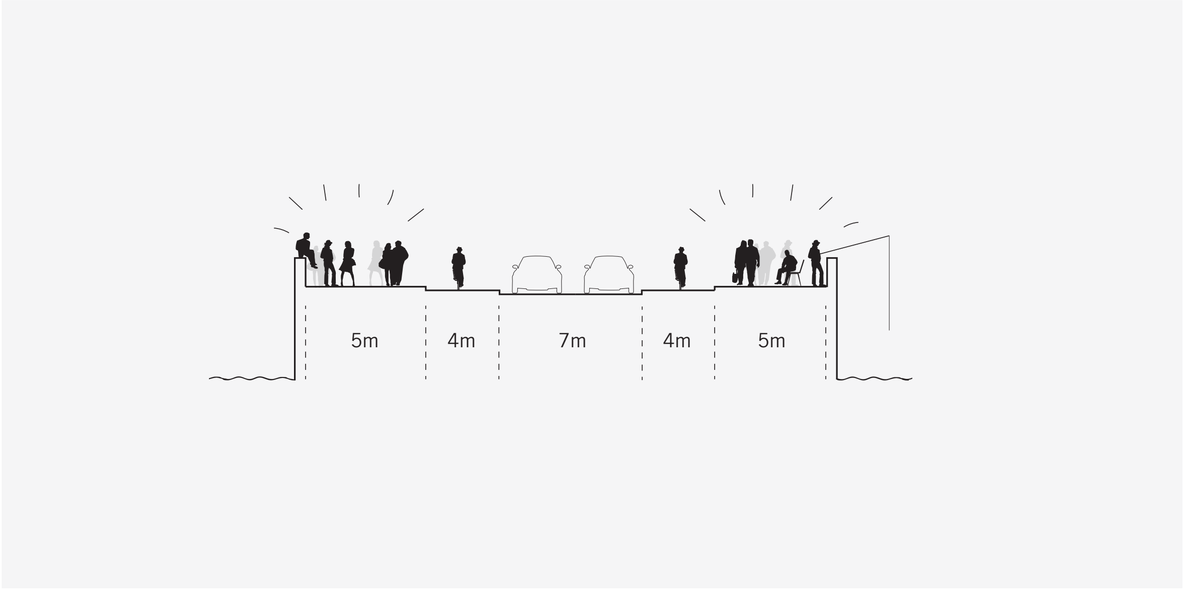
1960s: As a result of the suburbanization of the 60s, cars took over as the main mode of transportation. Bicycle lanes were cancelled to make room for car parks.

1980s: The bicycle lanes were reclaimed in the streets, once again separating the bicycles from cars. This marks the beginning of Copenhagen's second bicycle era.

Dronning Louises Bro:
From car congested street to bicycle paradise



Dronning Louises Bro, 1980s



Dronning Louises Bro today

In the 1970s and 1980s, Dronning Louises Bro was a heavily congested street dominated by cars and trams.

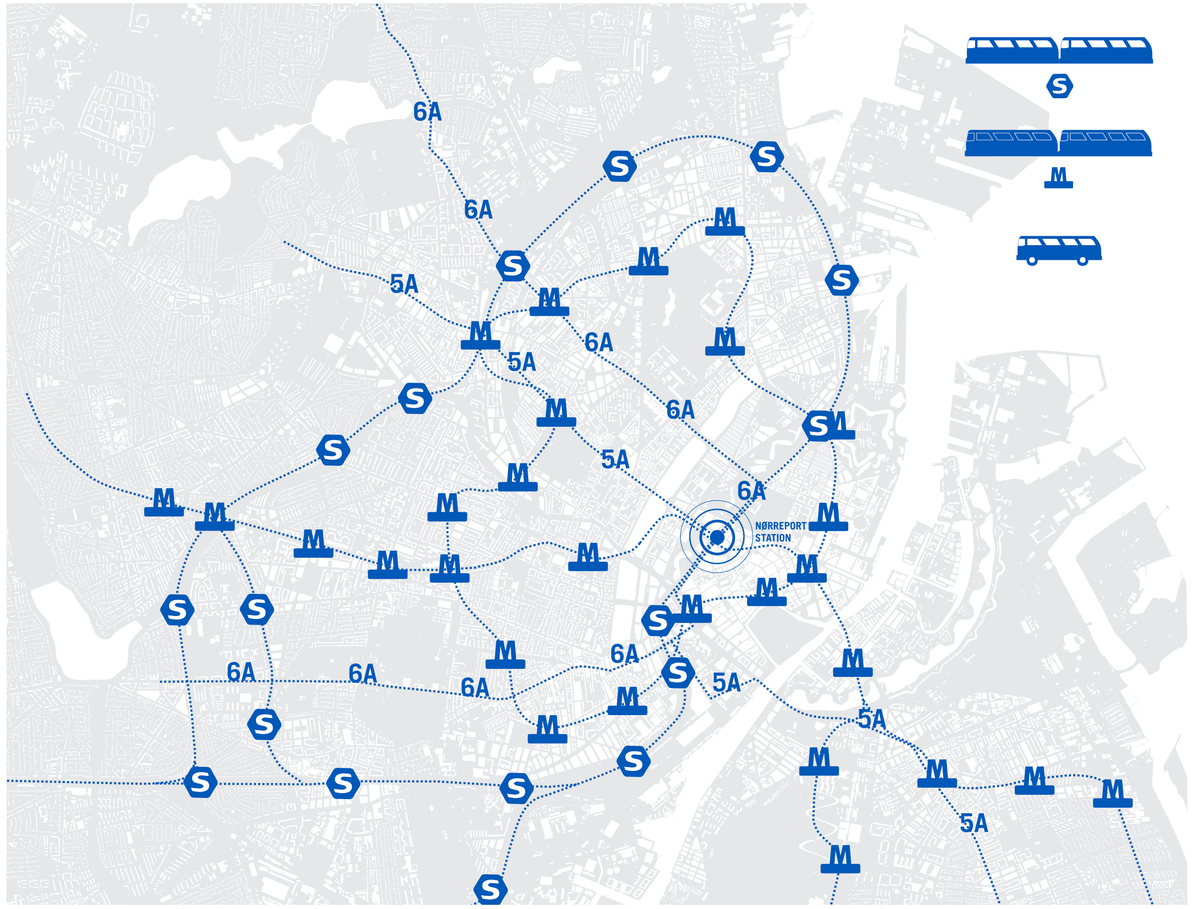
Nørreport

Public infrastructure is public space!

NØRREPORT STATION
7-ELEVEN
80

Nørreport Station:

The busiest station in Denmark, with roughly 250,000 people and 20,000 bicycles bustling through it daily.



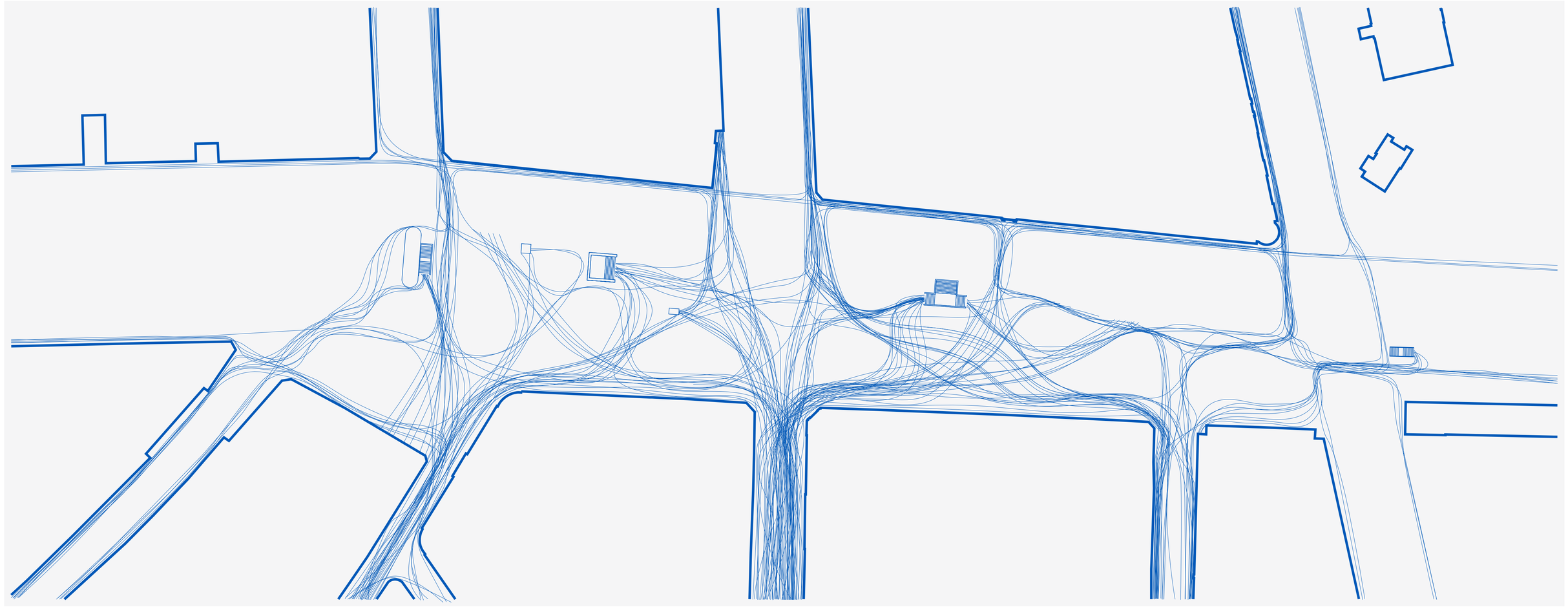
Public transportation: train, Metro, and bus routes.

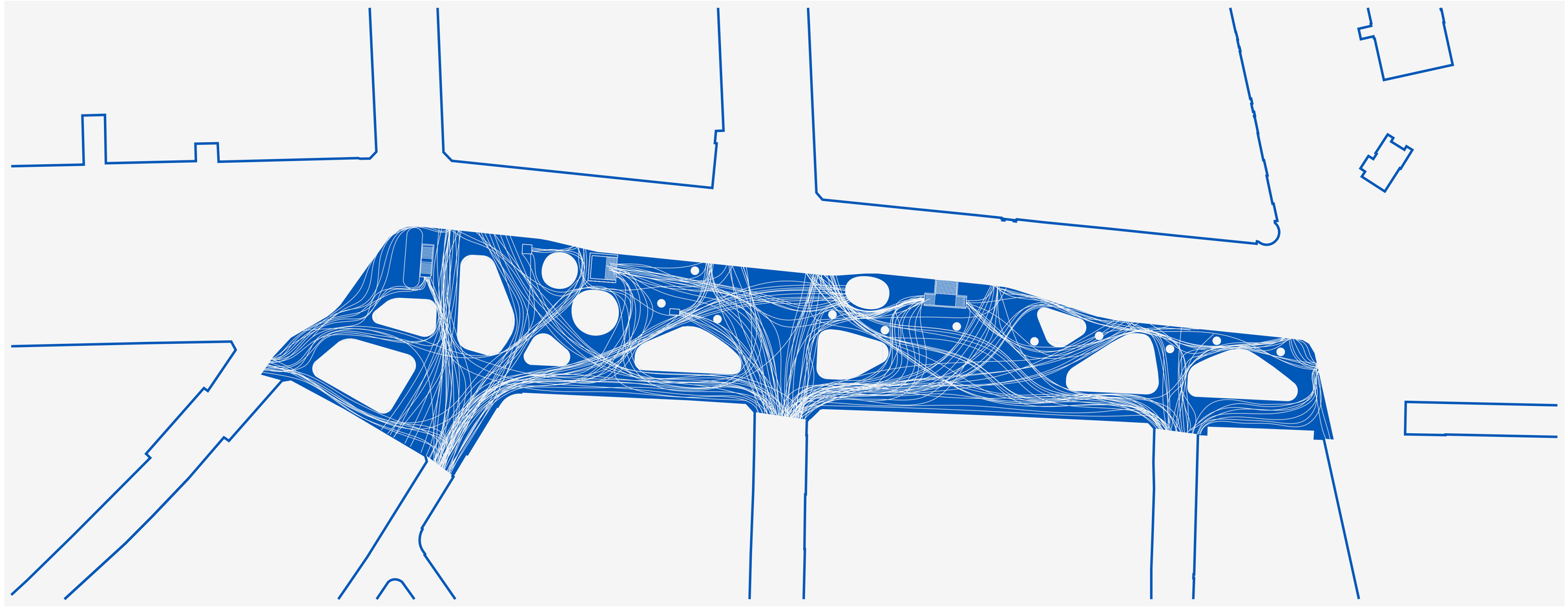
Cyclist density.

Nørreport Station:

In recent history - chaos and bicycle nightmare

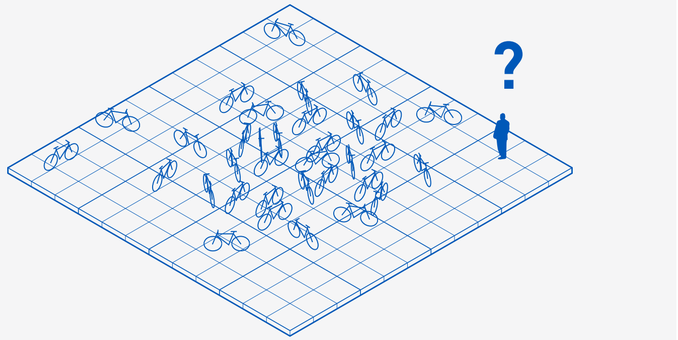
McDonald's
KNOCKOUT
Kort & Goedt
40

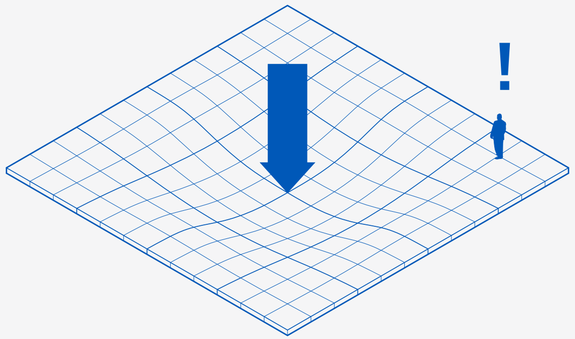


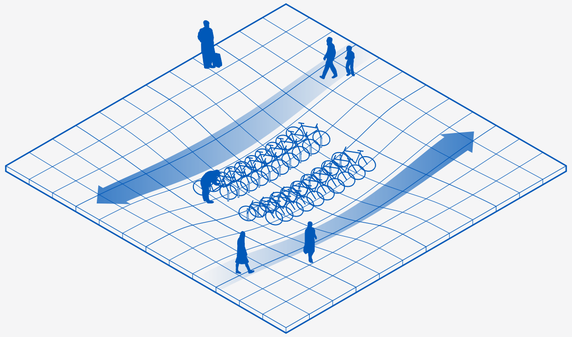


NORREPORT STATION

A new bicycle order







Lagoon:

2500 bicycles circular set-up
– tube circles.

265 bicycles
325 square metres, 1.2
square metres per bicycle.

293 bicycles
327 square metres,
1.1 square metres per bicycle.

Lagoon depth: 0.5 metre.

2568 bicycles circular set-up
1368 – perpendicular
1200 – mixed

293 bicycles
327 square metres.
1.1 square metres per bicycle.

Tilt and steps:

2500 bicycles, circular set-up
– peak islands

230 bicycles
327 square metres,
1.4 square metres per
bicycle.

290 bicycles
327 square metres
1.2 square metres per bicycle.

Ramp depth: 0.2m

180 bicycles
211 square metres,
1.3 square metres per bicycle.

Ramp:

Variation: short and steeper ramp.
Depth: 0.2 metre.

2432 bicycles, perpendicular
– tube strap.

170 bicycles
211 square metres, 1.2
square metres per bicy-
cle.

180 bicycles
211 square metres,
1.3 square metres per bicycle.

2503 bicycles,
angular set-up – row.

201 bicycles
296 square metres,
1.3 square metres per bicycle.

Irmà

PASTA

Candyfloss.dk

NØRREPORT STA
fakta

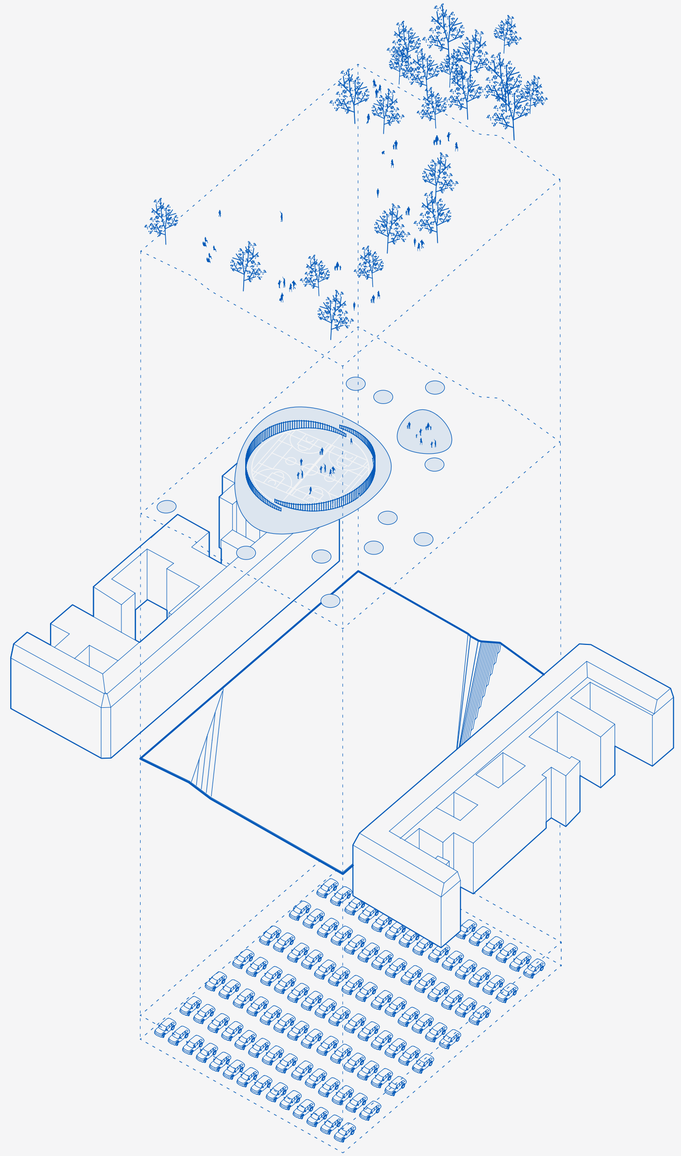
Israels Plads

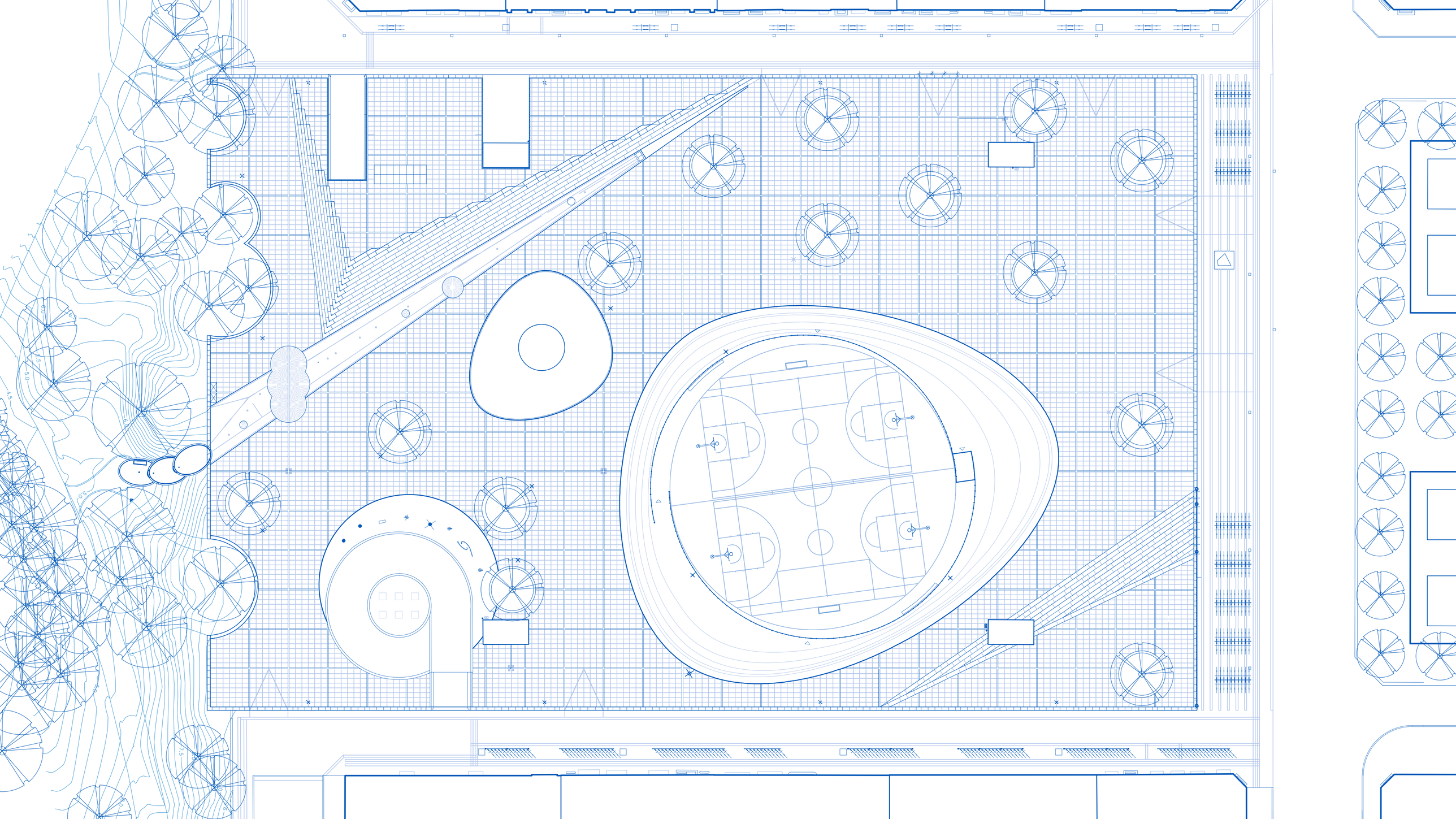
Copenhagen’s biggest urban carpet

From a plaza for cars...

...to plaza for people with 5 million yearly visitors

The cars are swept under the rug

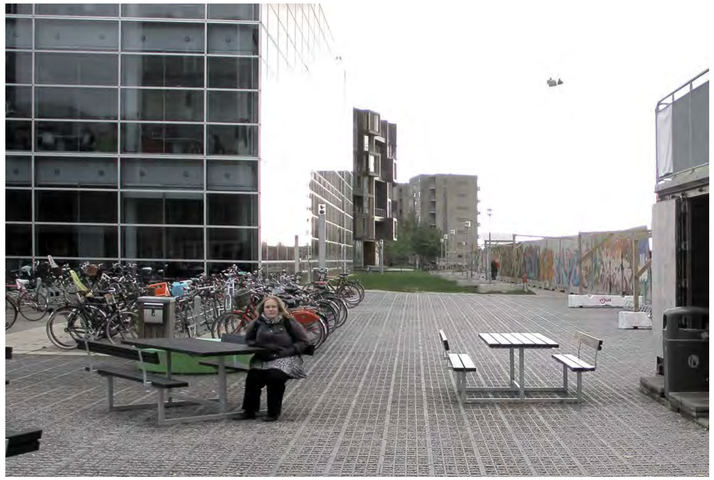


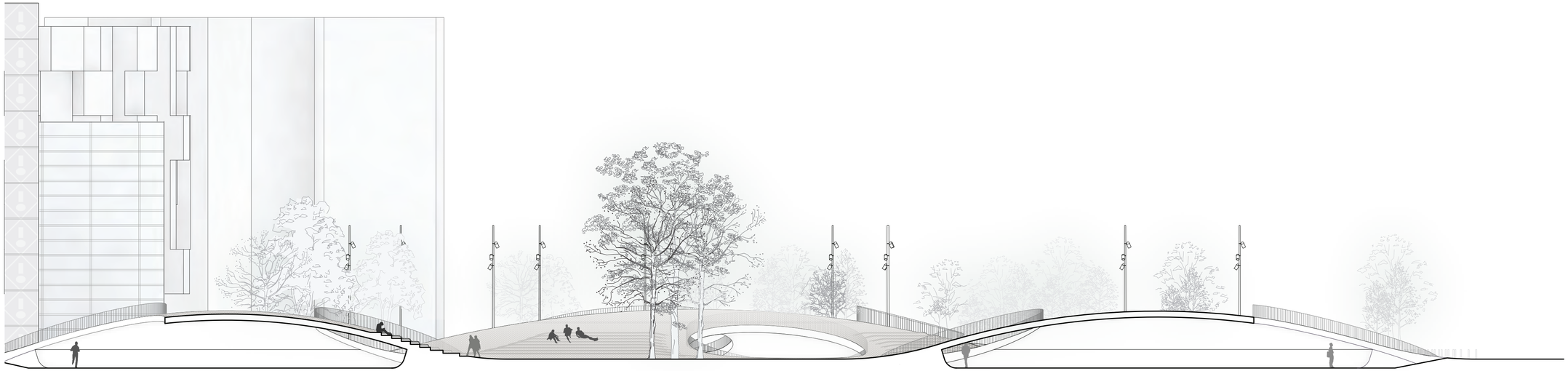


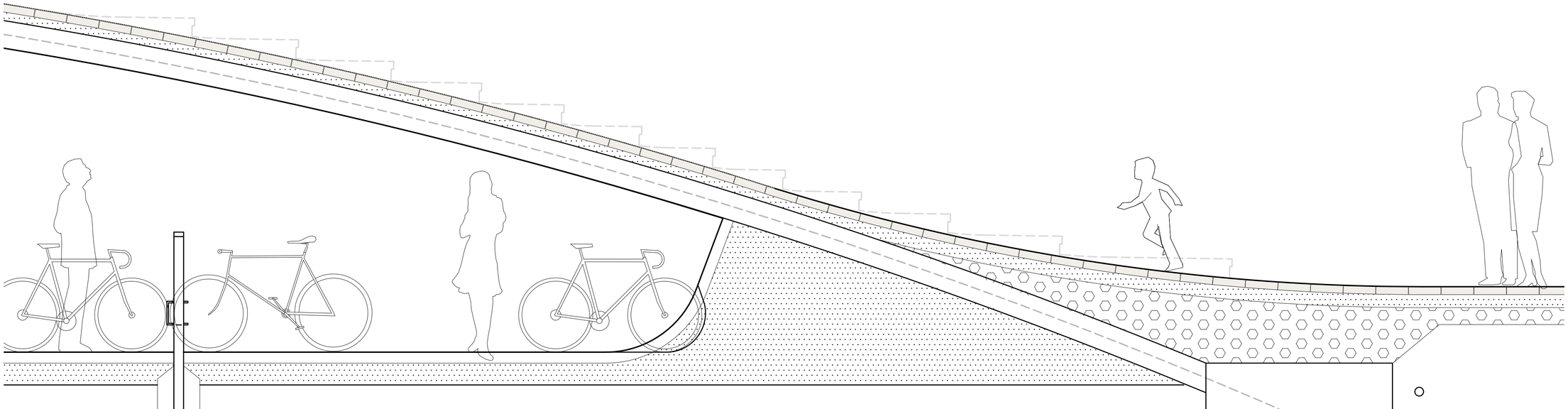
Karen Blixens Plads

A landscape of bike hills

A bicycle parking chaos
CPH univeristy south campus





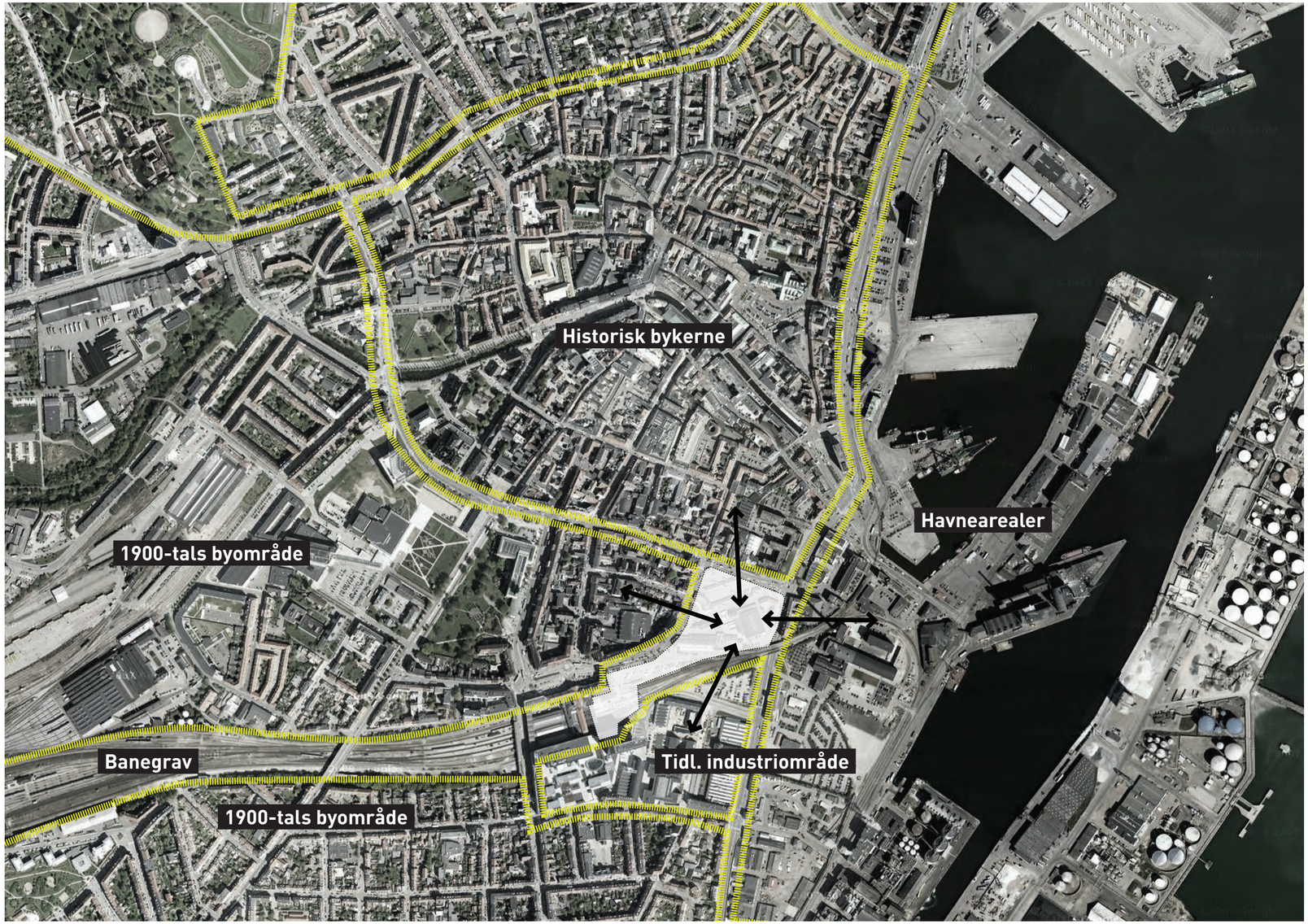


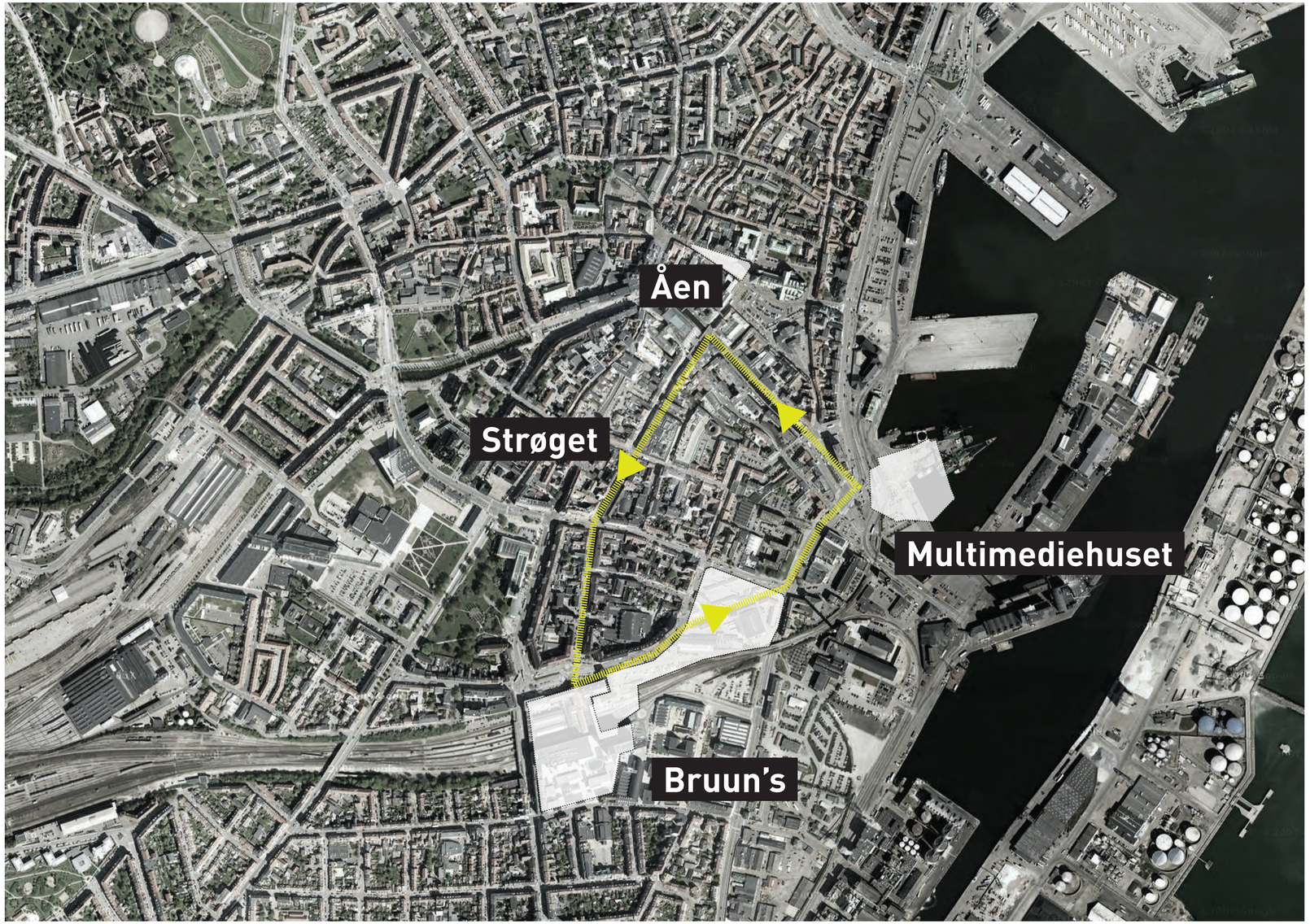
winther
SPECIALIZED

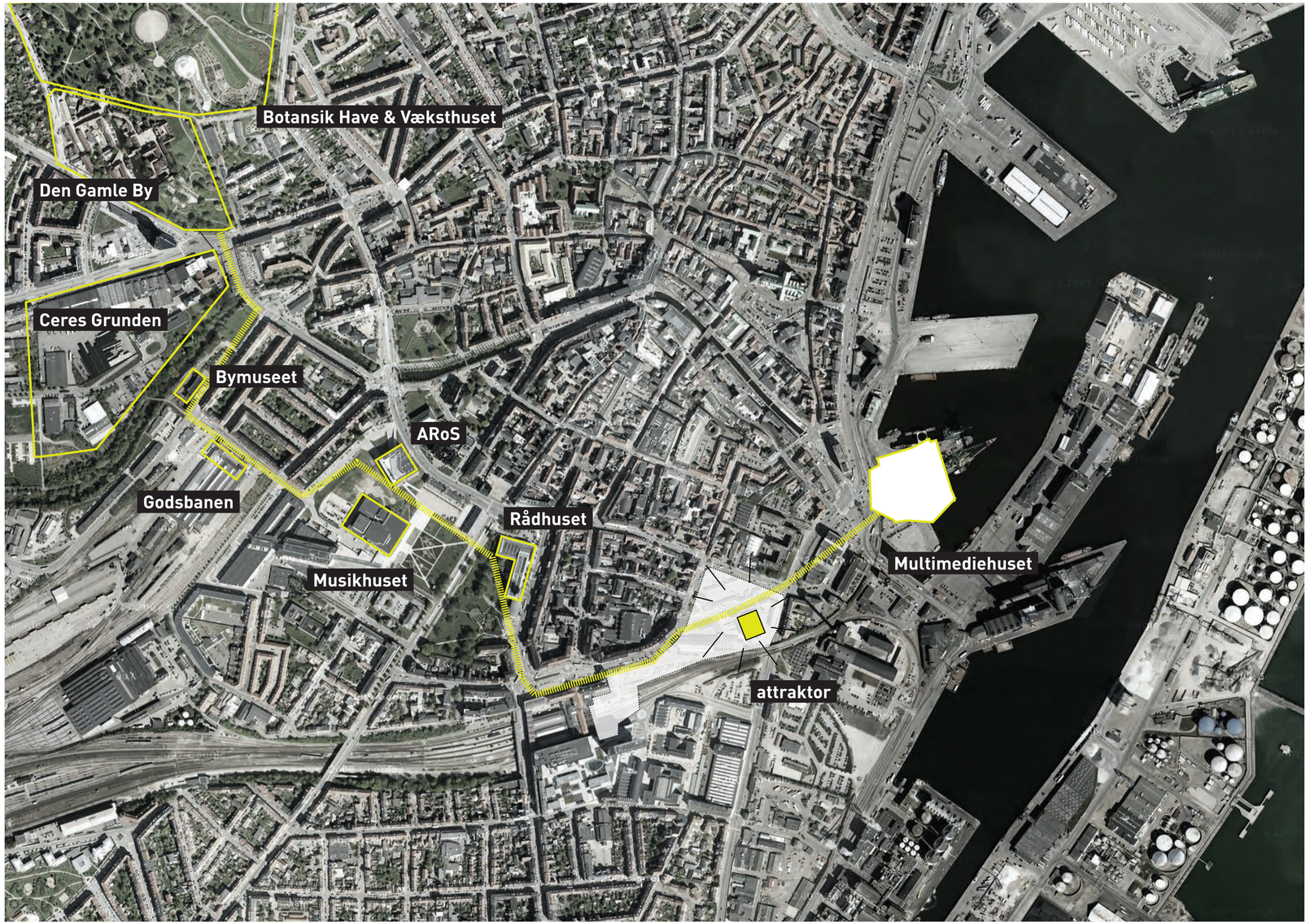
Aarhus Central Station Area

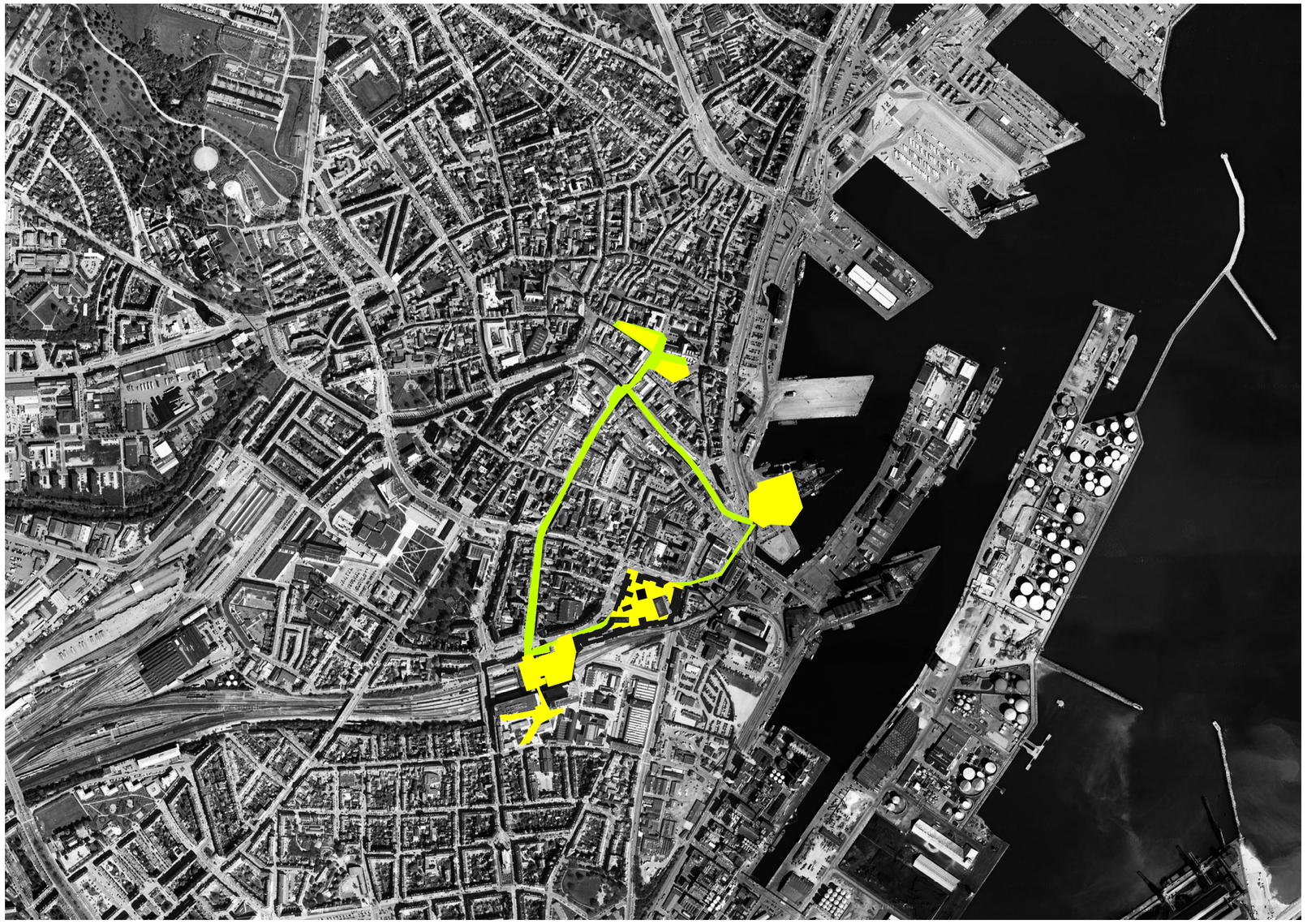
New livable city district

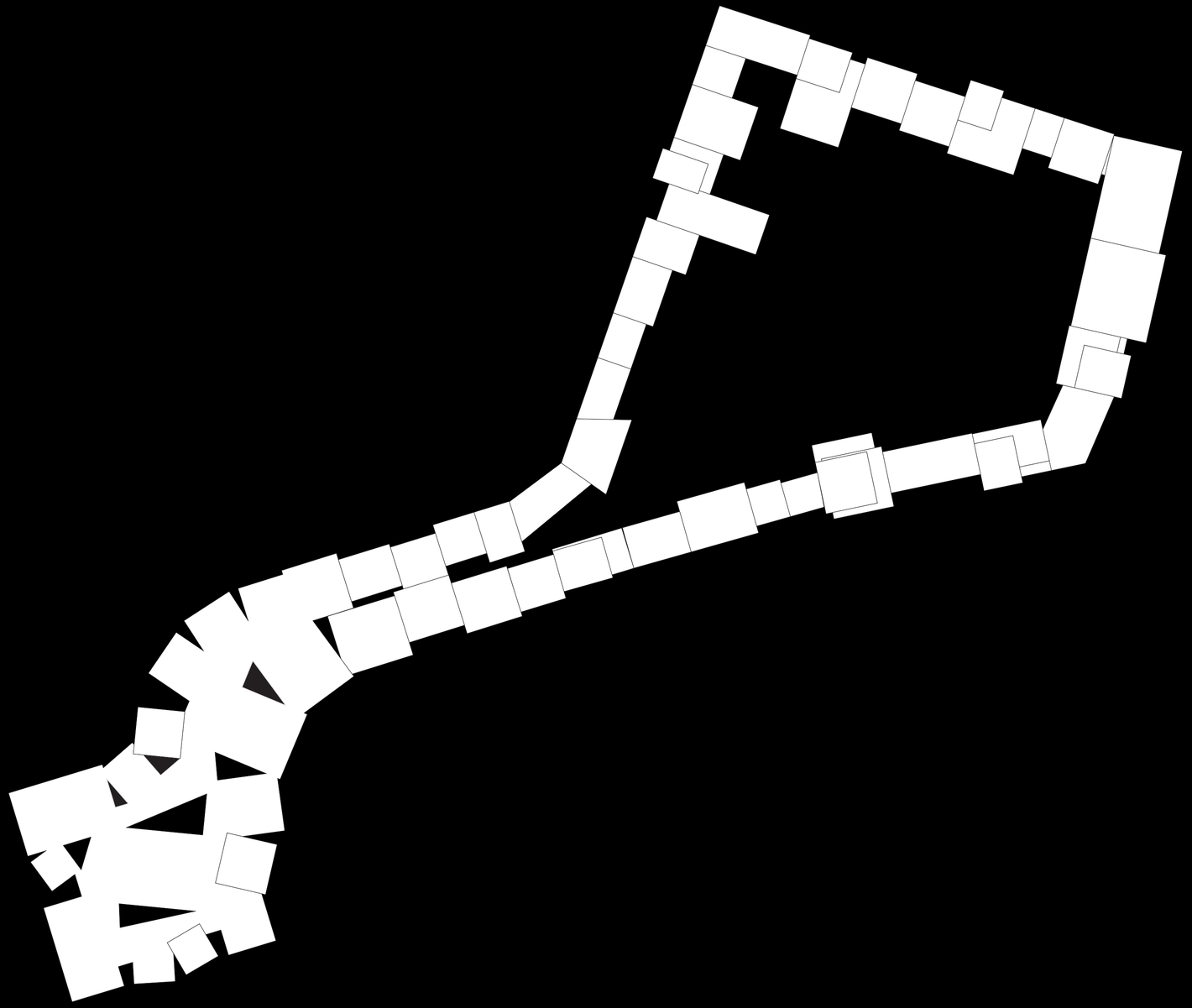
Lukket
AARHUS STREET FOOD
midttrafik

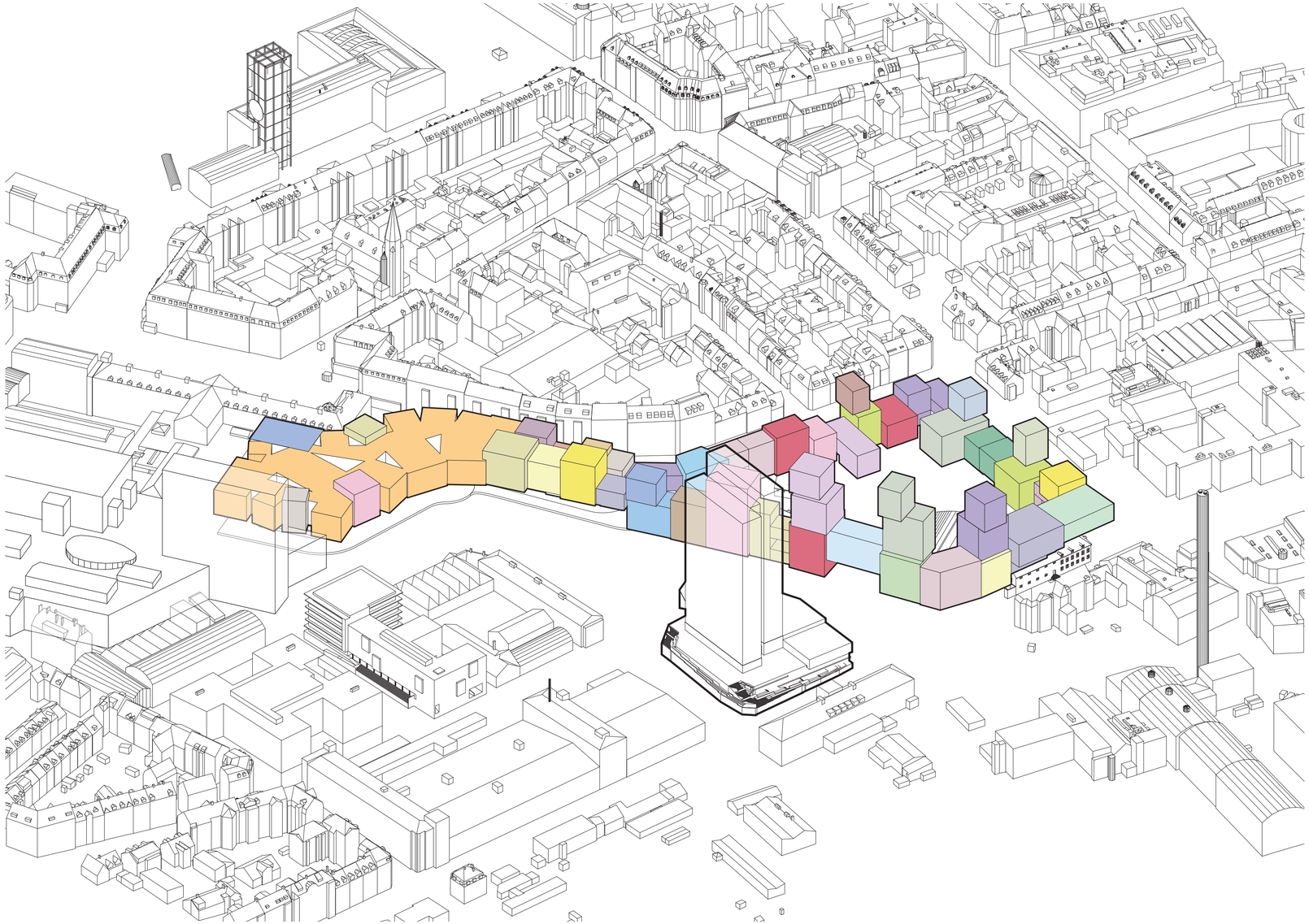

Historisk bykerne
Havnearealer
1900-tals byområde
Banegrav
Tidl. industriområde
1900-tals byområde

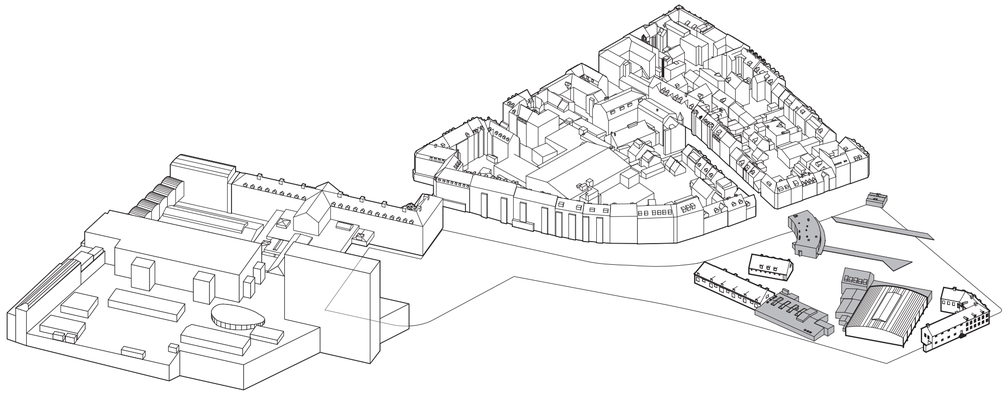

Åen
Strøget
Multimediehuset
Bruun's


Botansik Have & Væksthuset
Den Gamle By
Ceres Grunden
Bymuseet
ARoS
Godsbanen
Rådhuset
Musikhuset
Multimediehuset
attraktor

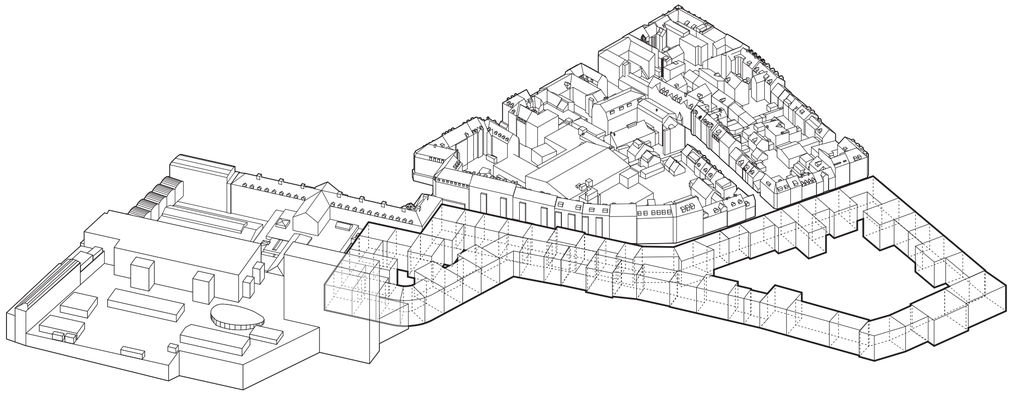




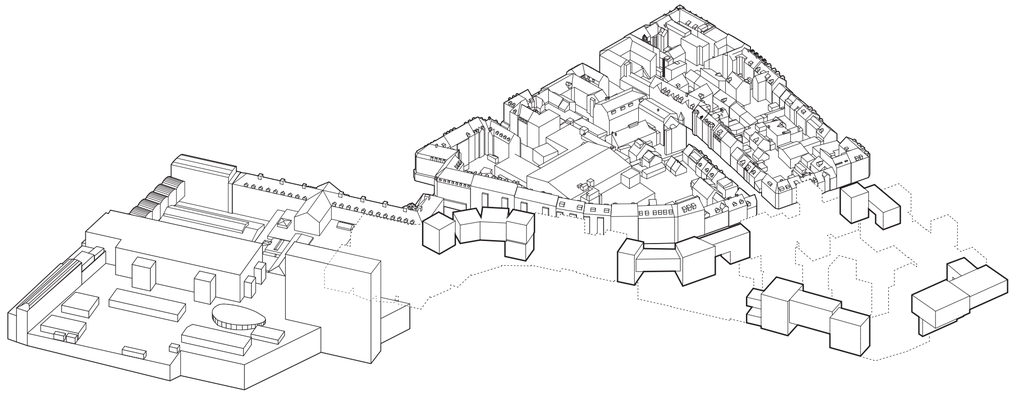




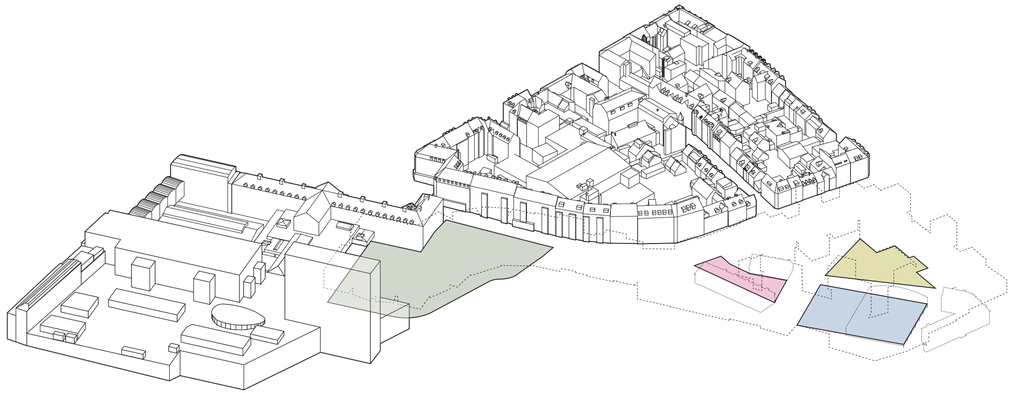
Bevare bygninger



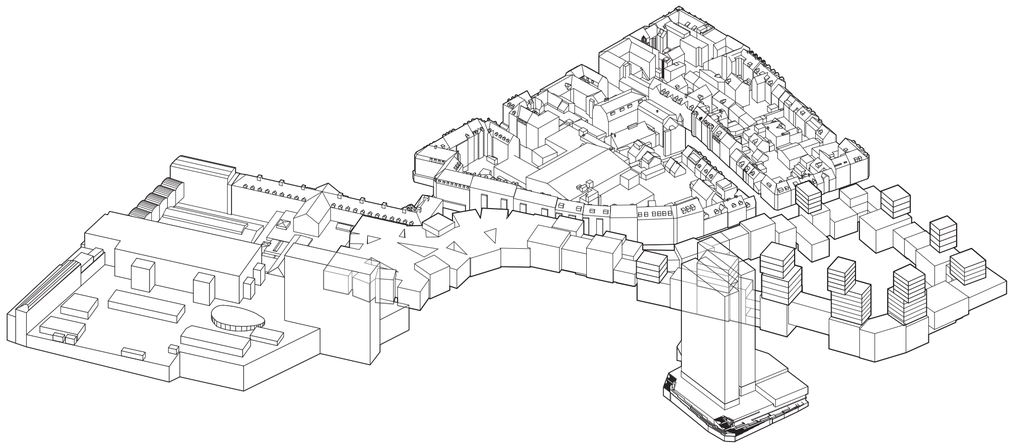
Perlekæden



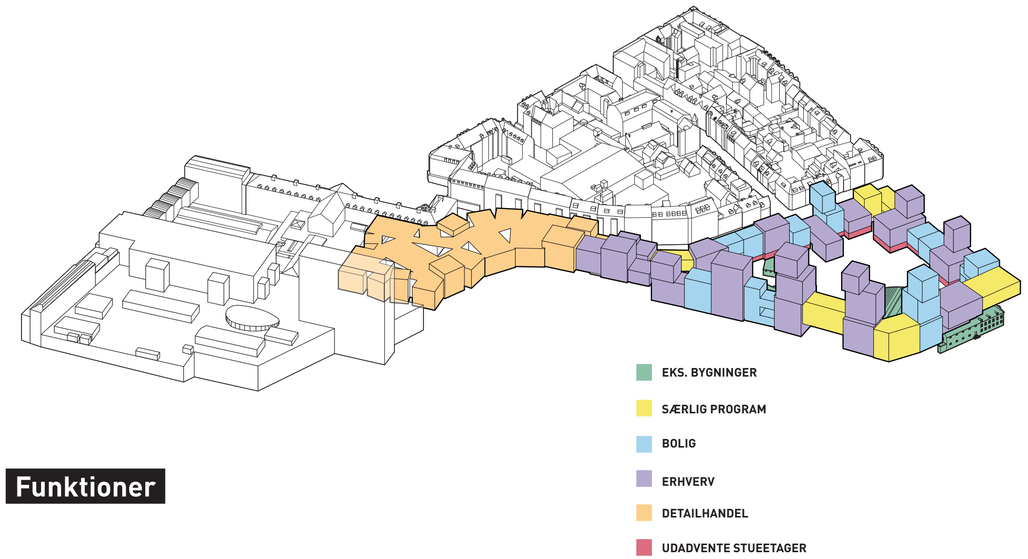
Portene



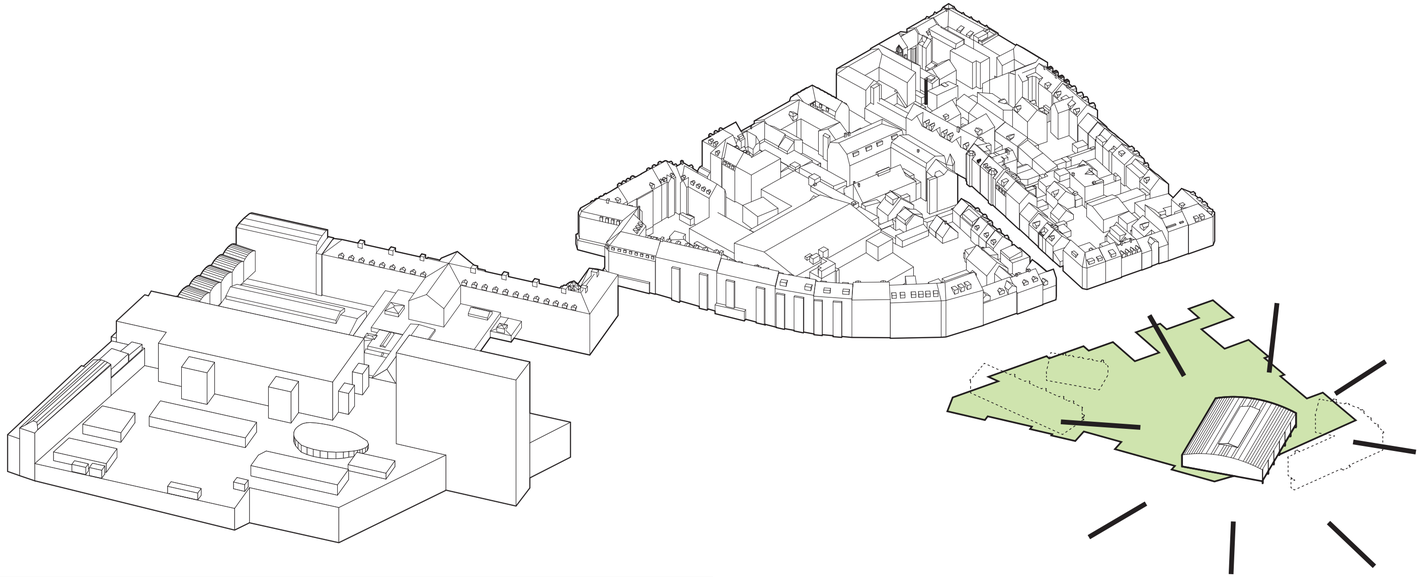
Byrum



Tårnene



Funktioner



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A good city is like a good party - people stay longer than really necessary, because they are enjoying themselves.

Jan gehl