

Students Reinventing Cities Copenhagen

Tuesday 27 February
Virtual Launch Event



Students Reinventing Vasbyhave

**Ellie White
C40 Cities**



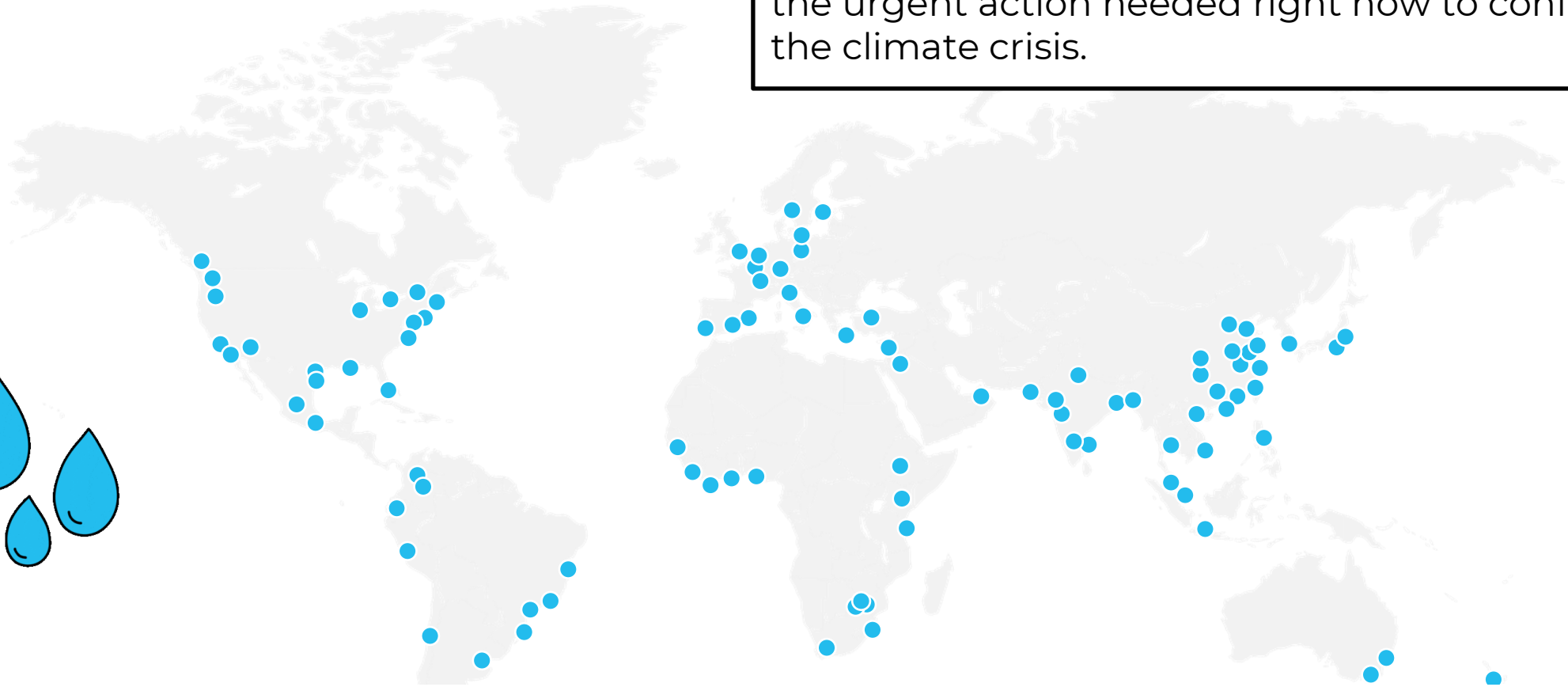
Students Reinventing Cities Copenhagen

Engaging young people to
transform urban spaces
into green & thriving
neighbourhoods.



C40 Cities

C40 is a network of mayors of **nearly 100 world-leading cities** collaborating to deliver the urgent action needed right now to confront the climate crisis.



Directly representing just under **600 million** residents.
Making up more than **20%** of the global economy.

C40
CITIES

Why do cities matter?

Cities occupy
2%
of the world's
landmass

Cities consume
around
75%
of the world's
energy

Cities
create over
70%
of energy-related
greenhouse gas
emissions

Cities
generate over
80%
of the
world's GDP

The urban model of the 20th Century led to the development of car-oriented public spaces, specialisation of neighbourhoods and urban sprawl. **Cities are seeking new design models to transform urban life.**



Poor quality of life



Long commutes



Poor air quality



Lack of facilities



Integrated spatial planning for more compact and efficient urban growth, through **proximity, mixed use & Transit-Oriented Development**, could **reduce greenhouse gas emissions by 23-26% by 2050.**

IPCC, April 2022

What is Students Reinventing Cities?

An international **competition** that celebrates innovative proposals that **reduce emissions and improve quality of life**.

For **university students** (all ages & disciplines) & **youth (18-28)** to form multi-disciplinary teams and **collaborate with cities**.

To reimagine urban spaces into **green & thriving neighbourhoods**, aligning with **city priorities**.



How does it work?



**Cities identify
sites they would
like to transform &
revitalize**



**C40 organises the
international
competition**



**Youth form teams
and submit their
best proposals to
regenerate the
urban areas**

9



**Students
Reinventing
Cities**

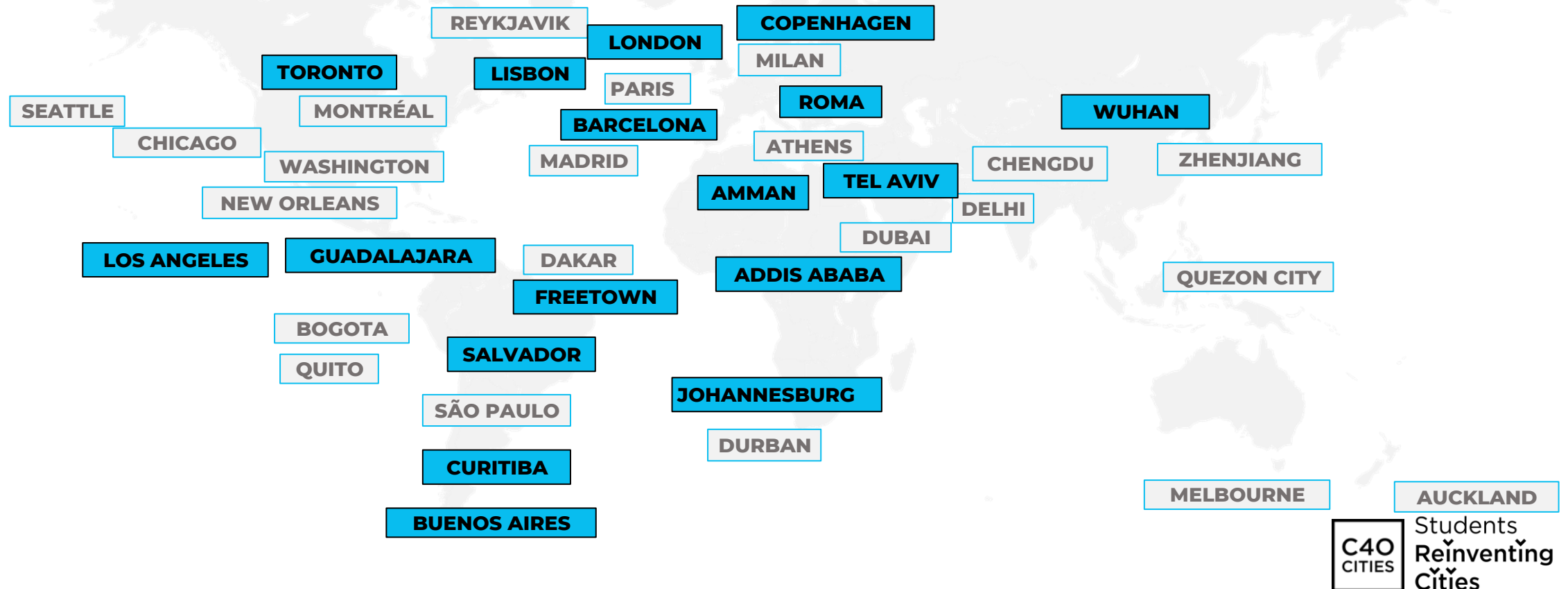
Who can apply?

- **University students** of any age & discipline (*registered in 2023/24 academic year*).
- **Young people** (18-28).
- **Local** and **international** participants.
- Mixed & **multidisciplinary** teams highly encouraged.
- No maximum number of team members.



A growing global movement

3 editions
17 cities this year & 39 in total
2000+ international students
220+ universities



Global success of the competition

A global competition for students to share their vision for green & thriving neighbourhoods

WINNING PROJECT

C40 CITIES Students Reinventing Cities

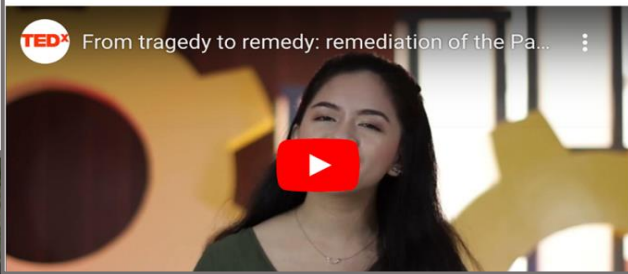


WORLD ARCHITECTURE NEWS

Students Reinventing Cities: C40 Cities competition to combat climate change

Teams of university students will share their vision for transforming 18 city neighbourhoods to deliver a green and just recovery from the COVID-19 crisis

TEDx Students Reinventing Cities



C40 CITIES Students Reinventing Cities: Second Edition ...



Press Release 2021-09-28

18 outstanding teams announced as winners of students reinventing cities competition

1,100 students from 150 universities respond to the call for ideas to reinvent parts of their cities.



Competition Framework

Designing **Green & Thriving Neighbourhoods**, a **cross-sectoral & holistic** design approach that maximises **environmental & social benefits**.

Advocating the **proximity model** - a model of **polycentric city** made of multiple **complete neighbourhoods**.



Green economy



Complete neighbourhood



People-centred streets & mobility



Connected places



A place for everyone



Clean construction



Green energy & buildings



Circular resources



Green spaces & climate resilience

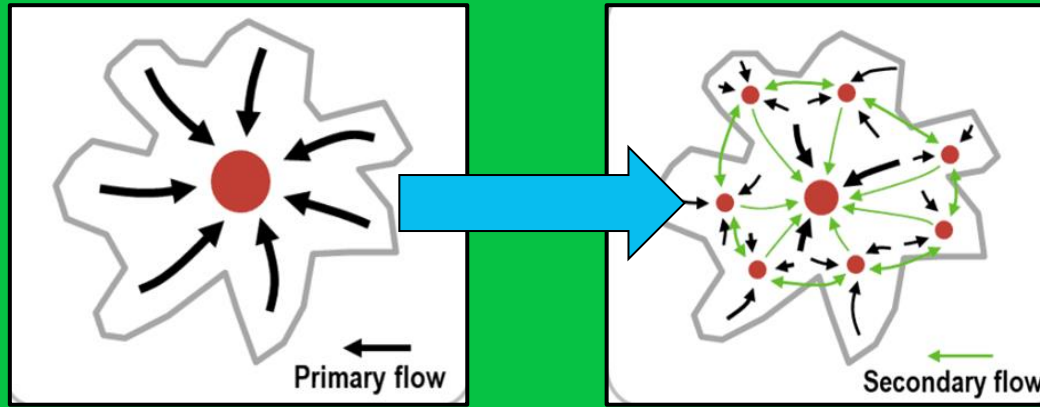


Sustainable living

GREEN
Pathway to
near-zero
emissions

THRIVING
Resilient &
people-
centred place

The Proximity Approach



Monocentric

Polycentric

Mix of people and a wide range of housing choices.

Mix of uses with integrated local amenities and services.

Public spaces that are designed around the needs of the people.

15 minute City
Paris, Milan, Rome

15-minute Community Life Circle
Chengdu

Superblock
Barcelona

20-minute Neighbourhood
Melbourne

Complete Neighbourhood
Portland

Wellbeing City
Buenos Aires

Vital Neighbourhood
Bogota

Liveable Neighbourhood
Glasgow

And many more...



Students
Reinventing
Cities

Develop proposals to reimagine an urban area considering:

City Priorities

Align with city's **Climate Action Plan** & **redevelopment** expectations

Green & Thriving Solutions

Solutions to **reduce emissions** & improve **quality of life**

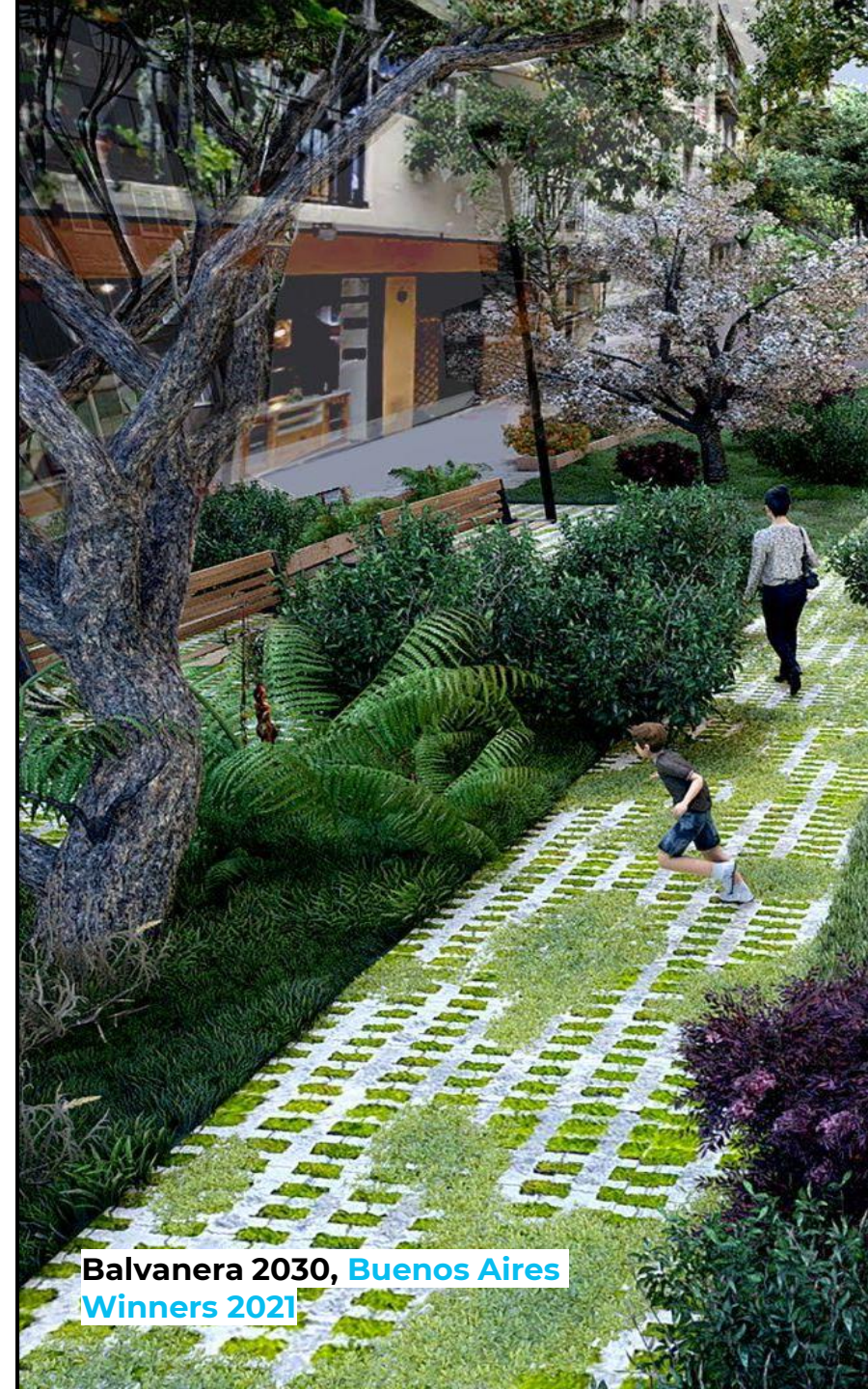
Quality of Team

Design approach, variety of expertise, work with stakeholders & additional research

Feasibility

Consider **cost, technicality, & timeline**

Reinventing
Cities



Balvanera 2030, **Buenos Aires**
Winners 2021

What's required in your proposal

Description of
the team

Explain how
team worked
together

Use template

**Updated Team
Form**

Design concept

Environmental
assessment

Analysis of
benefits

10 pages

Project Proposal

1 digital
illustration
board

3 high-res
images/
drawings

**Graphic
Presentation**

Budget,
timeframes &
challenges

Compliance with
local regulations

Stakeholders &
responsibilities

3 pages

**Implementation
Plan**

Winning teams awards

Official certificate signed by the Mayor
& Executive Director of C40

Receive coverage in local & global
**communication campaigns, including
C40 official videos**

Present work & connect with city
officials & leading sectors

Receive **city-specific prizes**
(e.g implementation consideration,
internships, exhibitions)



Eco-Barrio 7 de Agosto, Bogota winning team

C40
CITIES

Competition Documentation

Regulations & Guidance
(Application Guidelines page)

Site Form + Dataroom
(Sites in competition page)

**Students Reinventing Cities**

Students Reinventing Cities

A global competition for universities and students to share their vision for green & thriving neighborhoods.

Regulations for the Competition

Table of Contents

- Foreword
- Objectives
- Structure of the competition
- Calendar
- Team Composition
- The 10 Principles for a Green & Thriving Neighbourhood
- Submission
- Evaluation Criteria and Juries
- Awards

**Students Reinventing Cities**

Students Reinventing Cities

Guidance to Design a Green and Thriving Neighbourhood

**Students Reinventing Cities**

Vasbyhave, Copenhagen

Jernbanebyen, 55.658371, 12.551879

In Copenhagen, a former rail yard area is being transformed into a green and thriving neighborhood with 9,000 residents and 4,000 jobs over the next 15 years. The area, Jernbanebyen, is a world-leading example of how to promote health for people & planet through urban planning and design. The project takes an evidence-based approach to healthy neighborhood development, focusing on urban interventions for diverse ages, incomes and backgrounds that promote health through easy to access healthy and affordable food, widely accessible invitation to physical activity, and social infrastructure to deepen social connections and support overall mental health.

One of the most powerful tools for public health intervention is green, public space. One of the integral green, public spaces in the first area to be developed is Vasbyhave – a one-hectare park

in the first phase of the development. The park represents an incredible opportunity to test health interventions at the neighborhood scale.

Through this competition, we invite you to provide your best ideas on how the park can prevent and promote health for the residents and visitors of the area. We are seeking ideas on how the park can promote healthier living for the diverse groups of people who will be using the park and living in the surrounding area, with a special focus on intergenerational use.

Our focus is not only on people but also on the planet, which is why we are also seeking ideas that focus on creating the foundation for promoting planetary health through such as climate adaptation and development of biodiverse ecosystems.



Figure 1 | Vasbyhave & its surroundings

Approx. size of area: The park itself is one hectare but is a part of the 9-hectare first phase of the development. The park connects to a two-hectare park, Lokomotivskoven, on the other side of a bridge that connects the North and South of the area.

Key information: The park is located within the first phase of the development, a mixed, community-oriented neighborhood with diverse housing options and integrated education, play, work and healthy food options.

Priority areas & main expectations: Three specific priorities apply to the park, but overall, it is expected that the park be programmed in a way that promotes the health of both people and the planet.

The design should furthermore focus on creating spaces for diverse user groups, intergenerational meeting points, enhancing inclusivity. Additionally, the park should boost climate resilience through adaptation measures and biodiversity while also taking its connection to the wider city into account.

Documentation

[ENG] STUDENTS REINVENTING CITIES - COPENHAGEN SITE FORM

Dataroom Access

Download specific documents for this site

OPEN DATAROOM

Visit www.c40reinventingcities.org/en/students/



- › HOME
- › SITES IN COMPETITION 2023/24
- › APPLICATION GUIDELINES
- › FAQ
- › PREVIOUS WINNING PROJECTS
- › MANIFESTO

Students Reinventing Cities

2023/24 competition now live

Common
documents

Documentation

[ENG] STUDENTS REINVENTING
CITIES_TEAM FORM (PHASE 1)

[ENG] STUDENTS REINVENTING
CITIES - REGULATIONS

[ENG] GUIDANCE TO DESIGN A
GREEN AND THRIVING
NEIGHBOURHOOD

For each site: Site
Form, *Dataroom* &
Question Box

Documentation

STUDENTS REINVENTING
CITIES - SITE FORM

Dataroom Access

Download specific documents for this site

OPEN DATAROOM

Questions?

If you have a question or would like more details on the site and the Students Reinventing Cities competition, please use the form below. You will receive a response via email.

First name *

Last name *

E-mail *

Competition Timeline

Exceptions for London
& Buenos Aires

Competition Launch

Info about all sites & cities live on the website. Team Registration open.

November 2023

Project Submission Deadline

Teams submit a completed proposal.

20 June 2024

Announcement of winners

Prizes and media coverage.

September 2024

Teams Registration Deadline

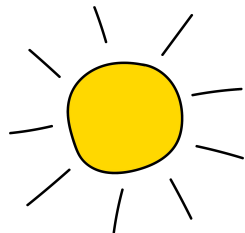
Students form teams and register online.

21 March 2024

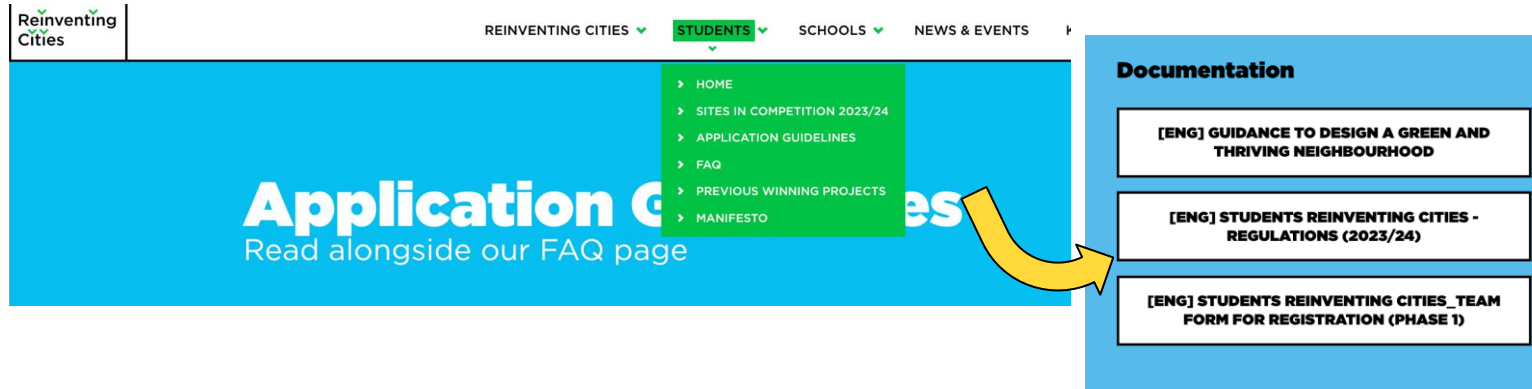
Selection of winning projects

City, C40 and local experts form a jury to select the winning team.

July 2024



Register your team



21 March 2024

Download and
fill out the team
form

> **Vasbyhave**
Copenhagen, Denmark

REGISTER YOUR TEAM >

Registration closes on Thursday 21 March
2024 - 5PM UTC

Upload the form
via the registration
portal



C4O
CITIES



**A Green & Just future is
the future we want.**



**Join the Students
Reinventing Cities Network**

c40reinventingcities.org



History of Jernbanebyen Copenhagen

Sandra Gonon
City of Copenhagen
*Technical & Environmental
Department*



26. Januar 2024

Jernbanebyen

"Railway City"

Sandra Gonon,
municipality of Copenhagen





Planning proces

- Kommuneplan 2019 –
Municipal planning framework.
Guidelines: plot ratio, municipal buildings, green structure and historic preservation
- Masterplan competition won by Team Cobe june 2021
- First political presentation and decision - april 2022
- Lokalplanforslag – Local Plan political presentation may 2024



Heights and volume

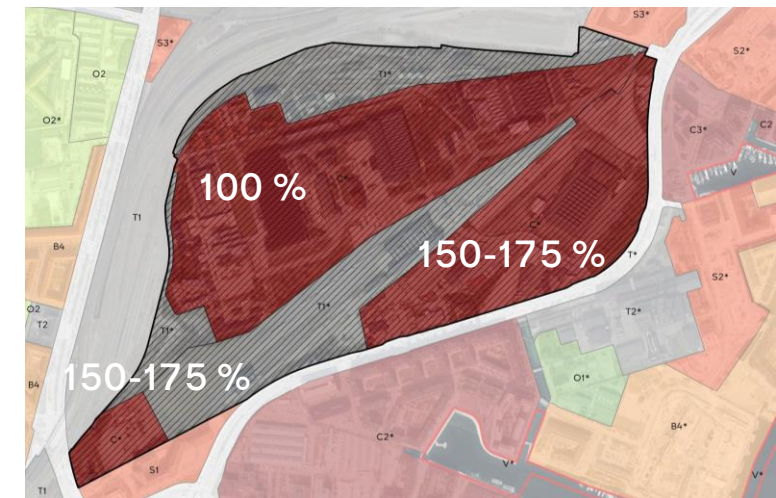


Ca. 500.000 m²

Ca. 60 % housing

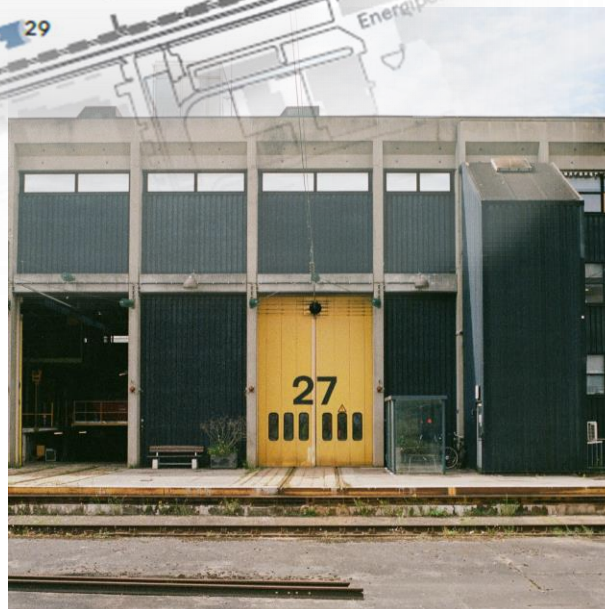
Ca. 4.000 apartments

Ca. 8.000 new inhabitants



Listed buildings and historic preservation

- Liste as historic environment - Kommuneplan 2019
- Part of the national historic preservation: 'Jernbanen mellem København og Korsør'
- 27 buildings/industrial heritage listed by Copenhagen Municipality.



Listed buildings and historic preservation



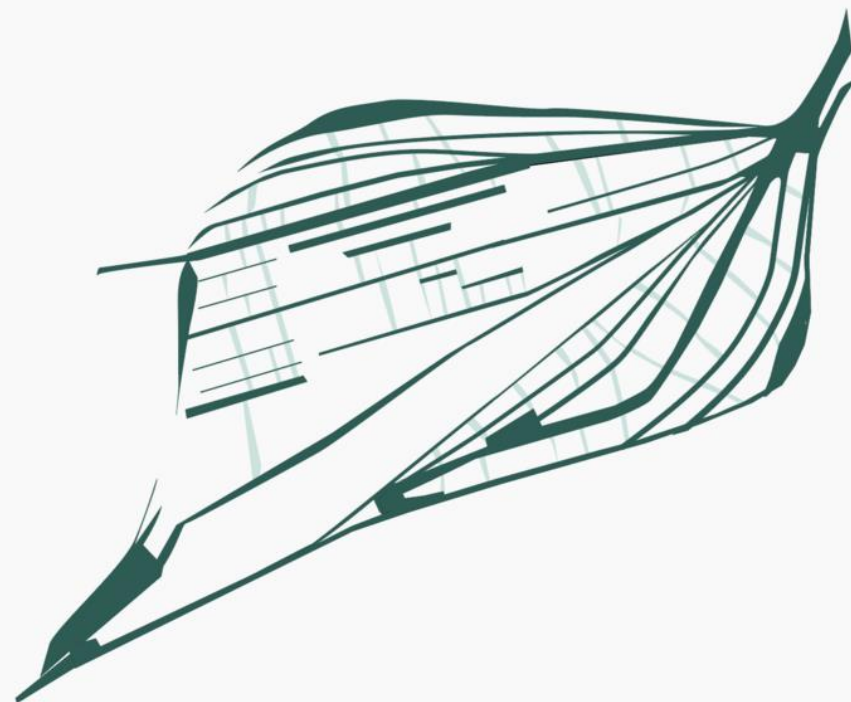
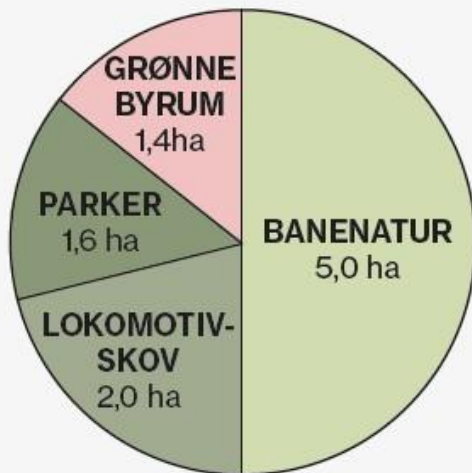
Build between
1895 and 1982



Green structure

10 ha

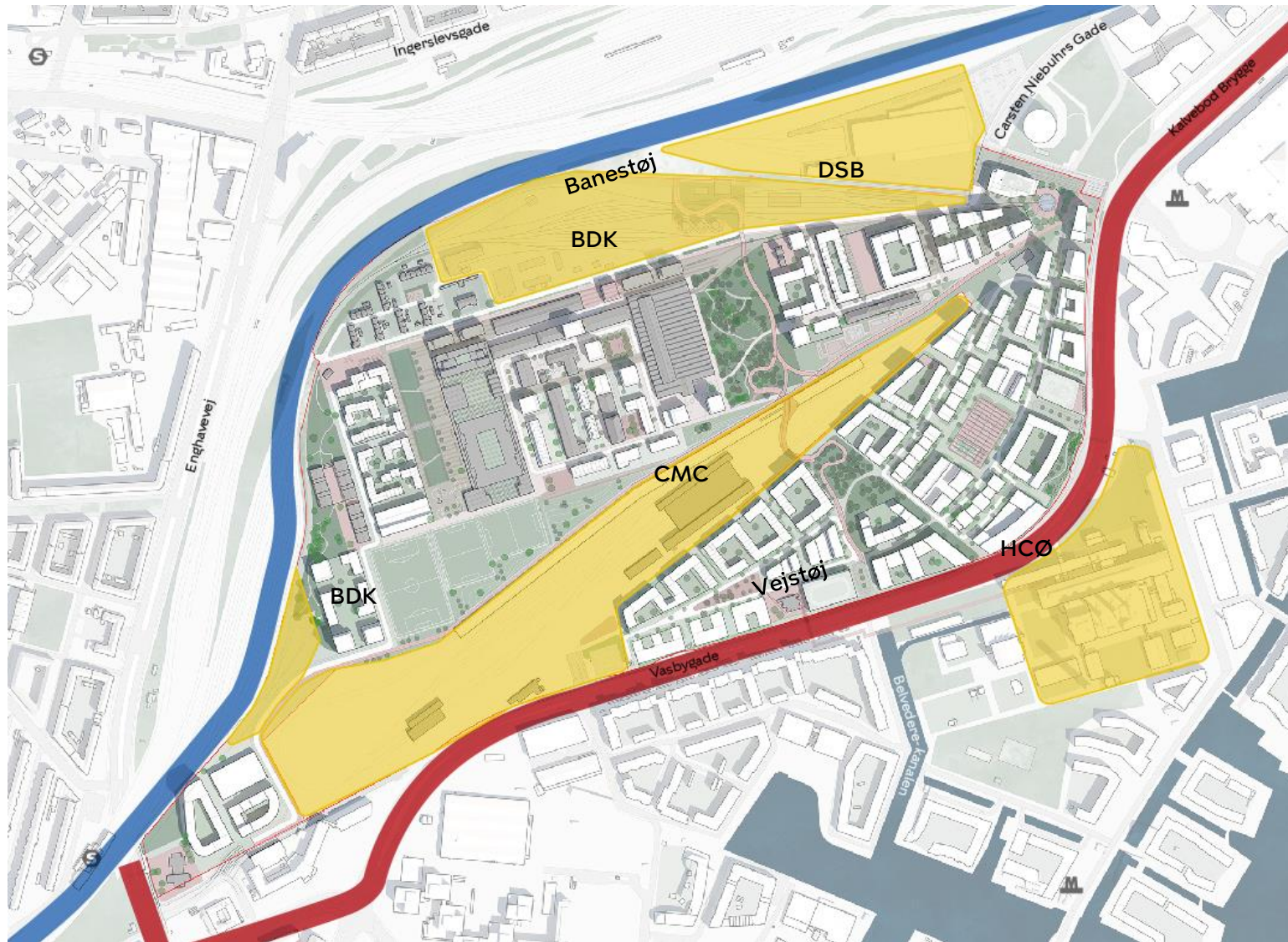
Grøn struktur med parker, aktivitets-
områder og begrønnende byrum



Existing Green structures



Noise

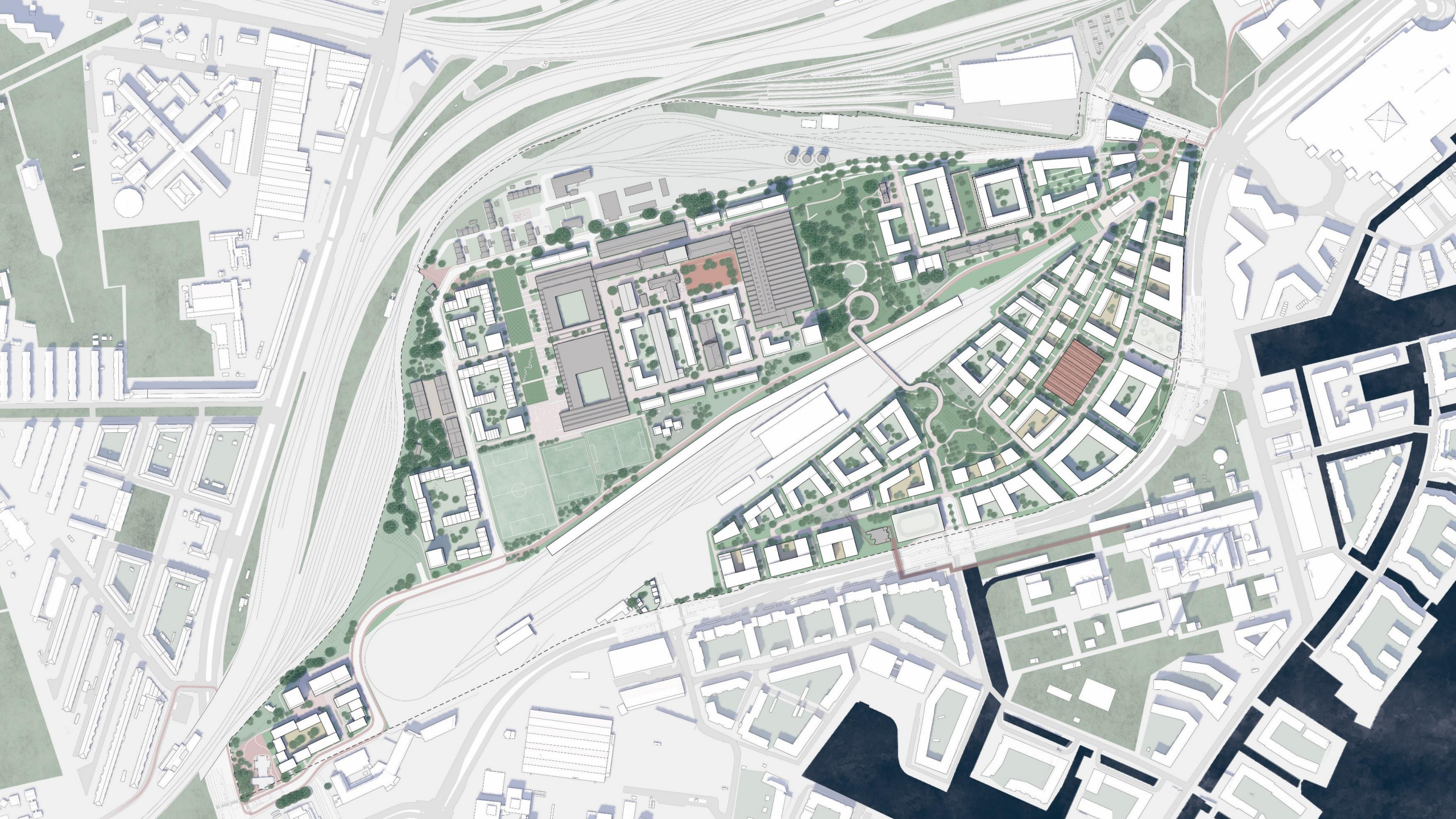


Sources of noise

- Road
- Railroad
- Metro (CMC)
- Banedanmark Workshops (BDK)
- DSB workshops
- H.C. Ørstedværket (HCØ)

Solutions

- Noise barriers
- Double facades
- Noisereducing facades



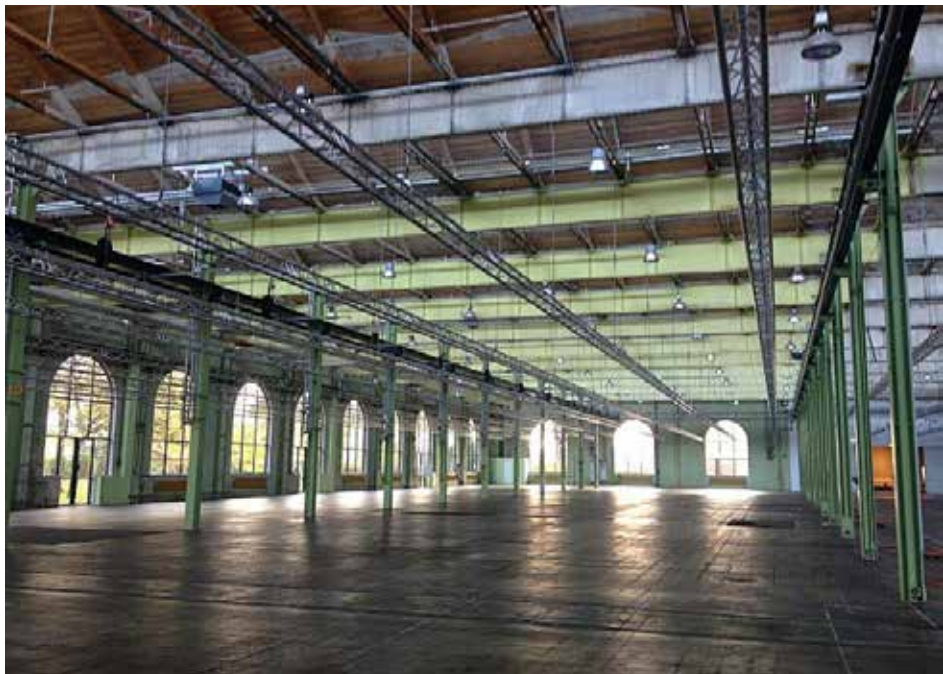
Planning Jernbanebyen

Kim Illum
DSB Ejendomme





The past and the future form the framework for a district with a unique character



DSBs centralværksted

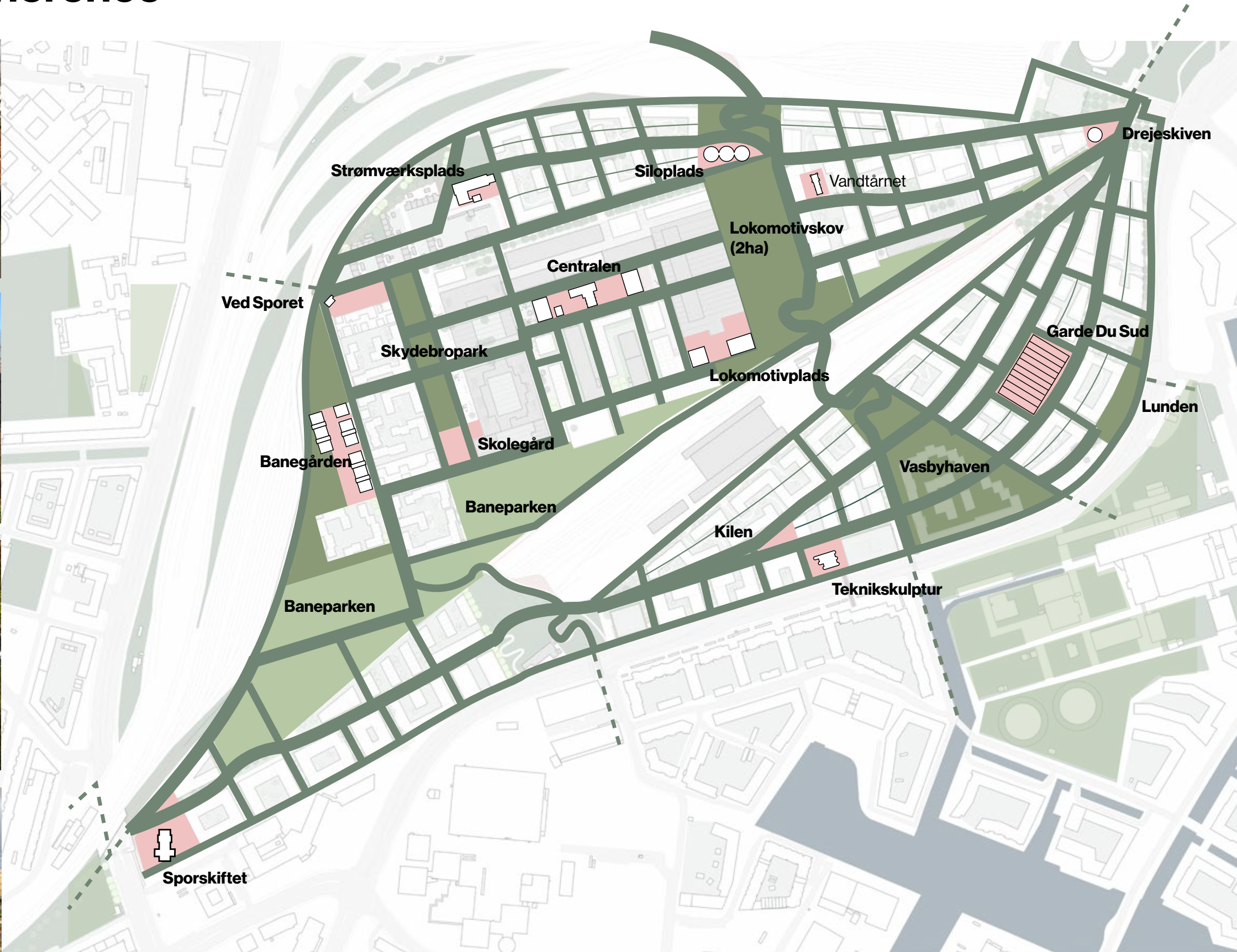


Drejeskiven danner udgangspunkt for eksisterende togspor og nye grønne gaderum



Varieret og mangfoldig beplantning

Green Coherence



KulturNatur



BaneNatur



InfraNatur



LokalNatur

Green Spaces come first

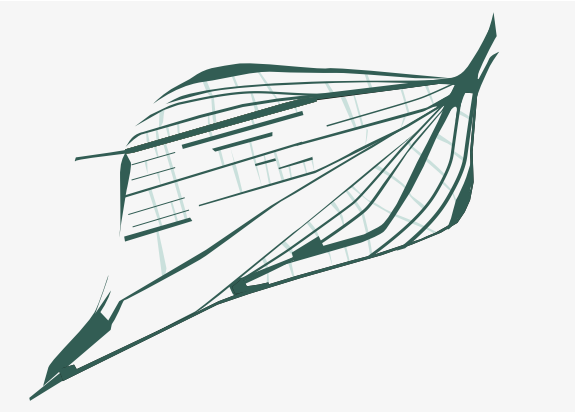


1



Green spaces

2



The Weave

3



The Pearl Necklace

4



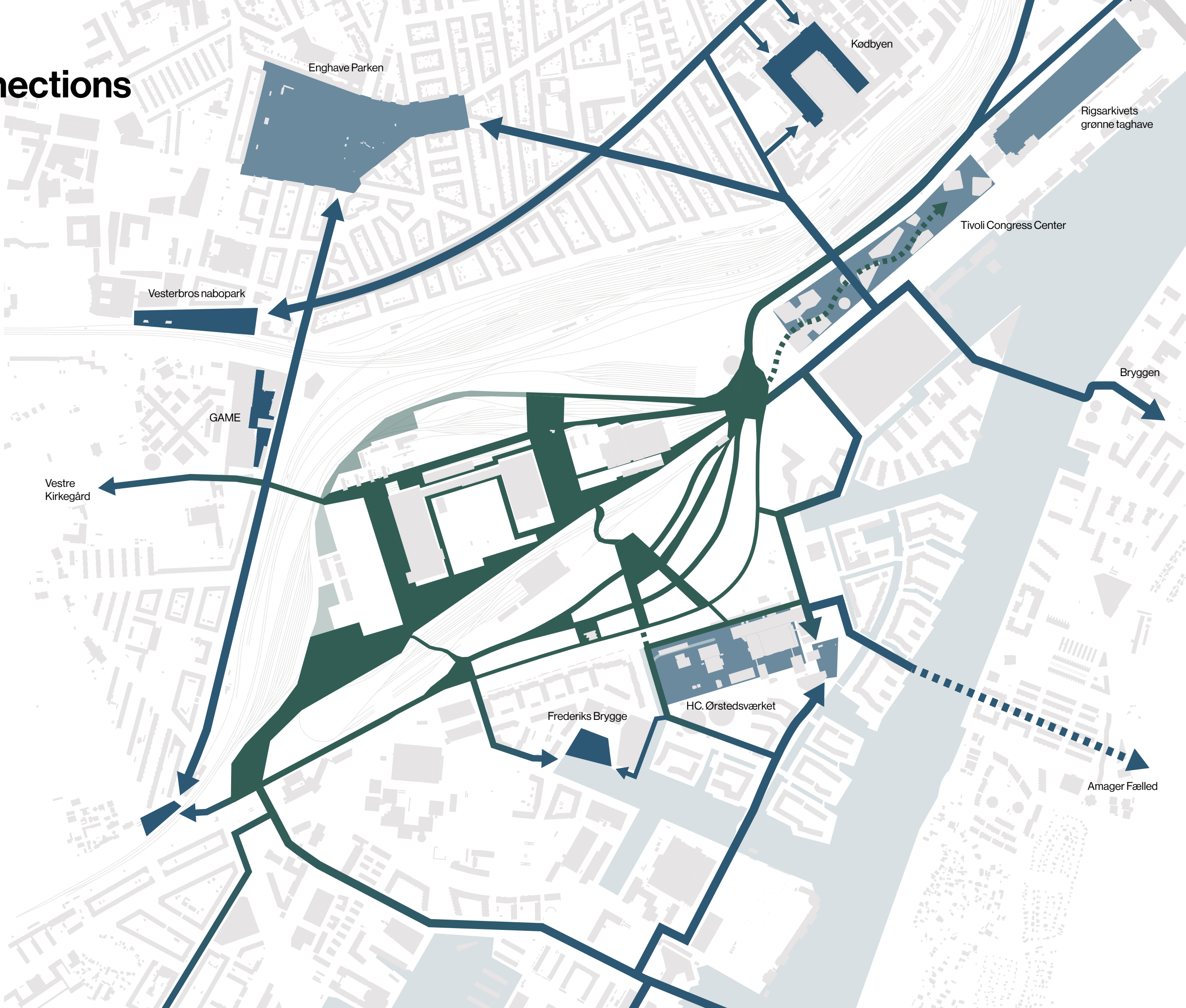
Everyday Neighbourhoods

5



The Working City

Urban connections



Four parks with different nature typologies



Lokomotivskoven



Skydebroparken



Vasbyhaven



**The crowns of the old
trees frame the arrival to
Jernbanebyen**



Active, industrial park



Nørrebroparken



Planudsnit 1:1500, Åbne græsplaner til fodboldbaner, tætte rækker af træer og eng skaber rumlige sekvenser og særlige habitater

A green, diverse and local garden for the whole of Jernbanebyen



Vasbyhaven

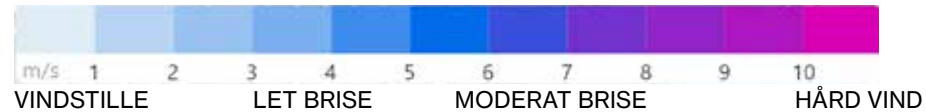
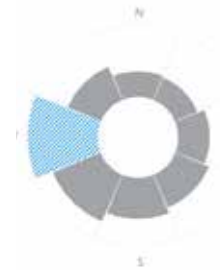
Microclimate: Wind



Vindkomfort

Mikroklimaanalysen viser en kombination af alle vindretninger for at belyse, hvor der er bedst læforhold flest dage på året.

Analysen viser, at der er mest vind i nord- og vestdelen af parken, der egner sig mindre til ophold.



Vestenvind

Vestenvindanalysen viser hvordan området påvirkes af vestenvinden, som er den mest dominerende vindretning.

Vindanalysen viser, at det meste af haven har et behageligt vindmiljø til ophold. Lettere briser mod nord og i havens midte.



Lavning til skybrudsvand

Der skal etableres lokale lavninger til skybrudsvand i Vasbyhaven, som er med til at sikre Sporkvarteret og Kilen mod oversvømmelser ifm. 100 års-hændelser. Lavningerne kan udformes som en naturlig del af terrænbearbejningen i haven.

Vasbyhaven

Microclimate: Hours of direct sunlight on the ground per day



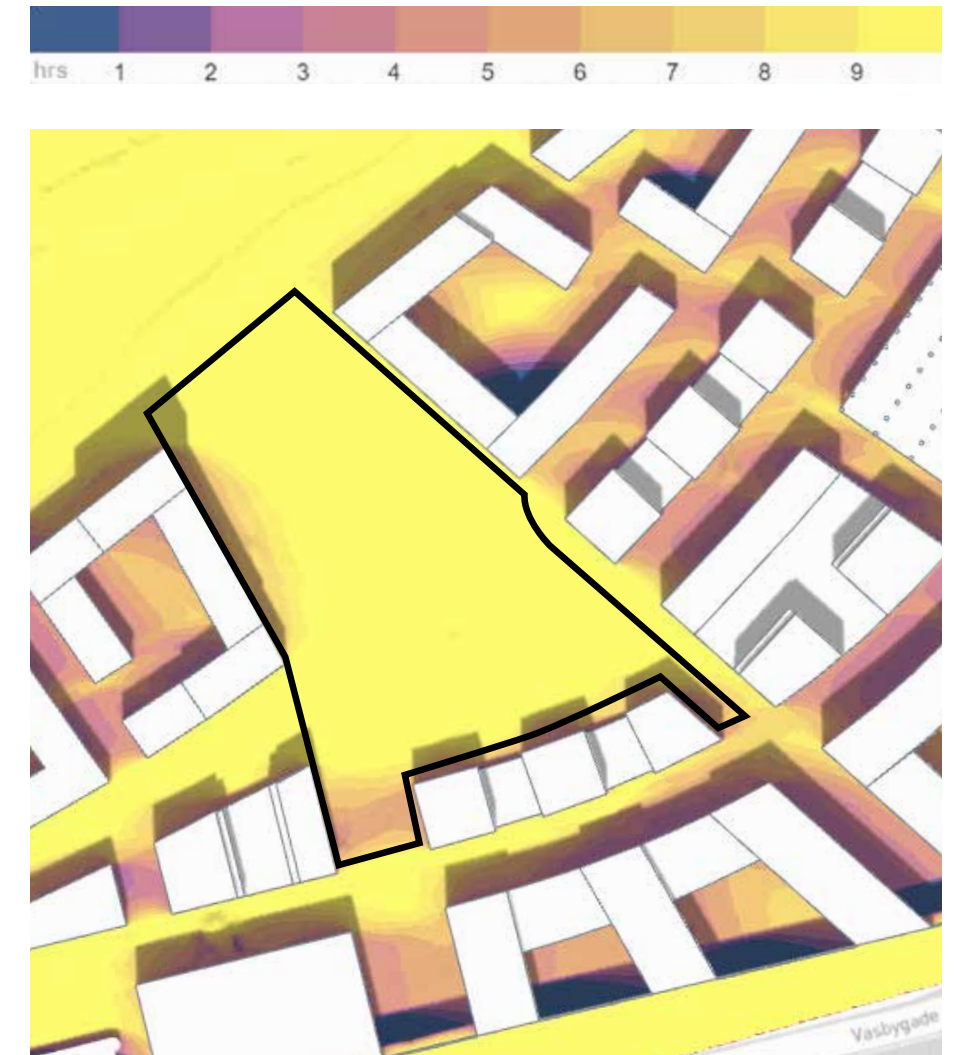
21. december

Ved vintersolhverv er der bedst sol i havens nordøstlige del.



21. marts (jævndøgn)

Ved jævndøgn (marts og september) er der generelt mange timer sol i haven. Det er bedst mod havens østlige side, der er særligt egnet til ophold.

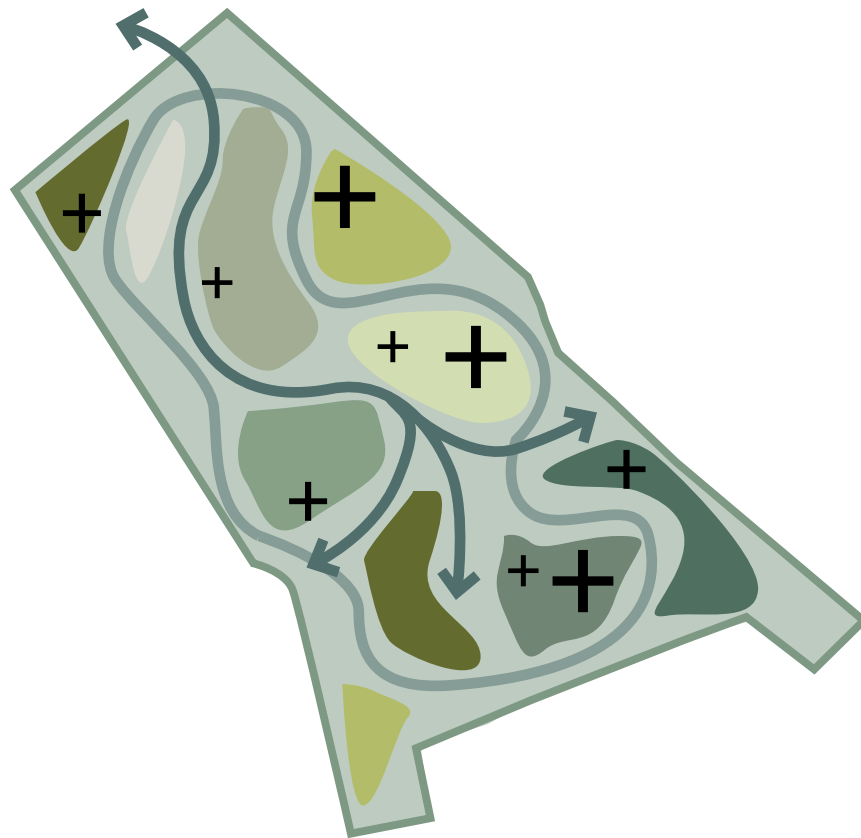


21. juni

Ved sommersonhverv er der generelt rigtig god sol i haven. Der er kun en anelse skygge fra bygningerne mod syd og vest.

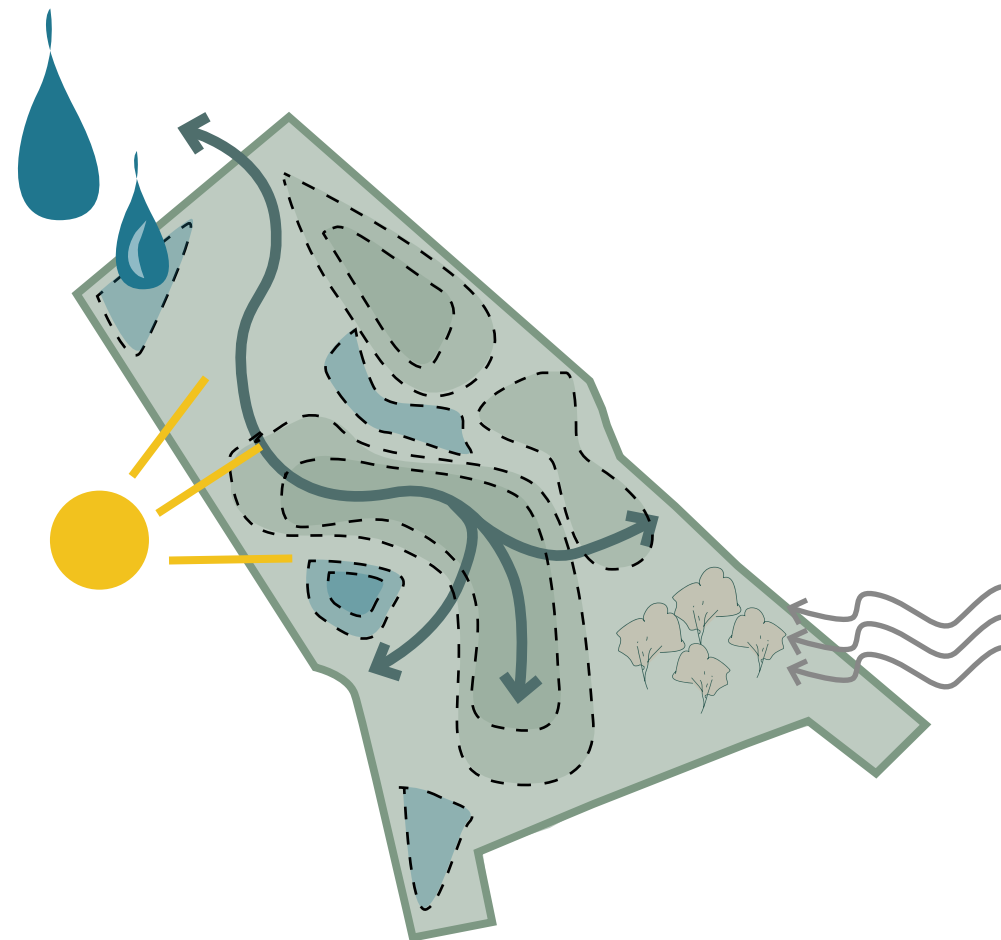
Vasbyhaven

Transform vision physical restrains in to a green an thriving garden for all



Bevægelse og ophold

En stor fællesskabshave med en serie af haverum og mødesteder til bevægelse og ophold.



Performativt terræn

Performativt landskabsdesign kan vende terræn- og vandudfordringer til rumlige kvaliteter.



Haven

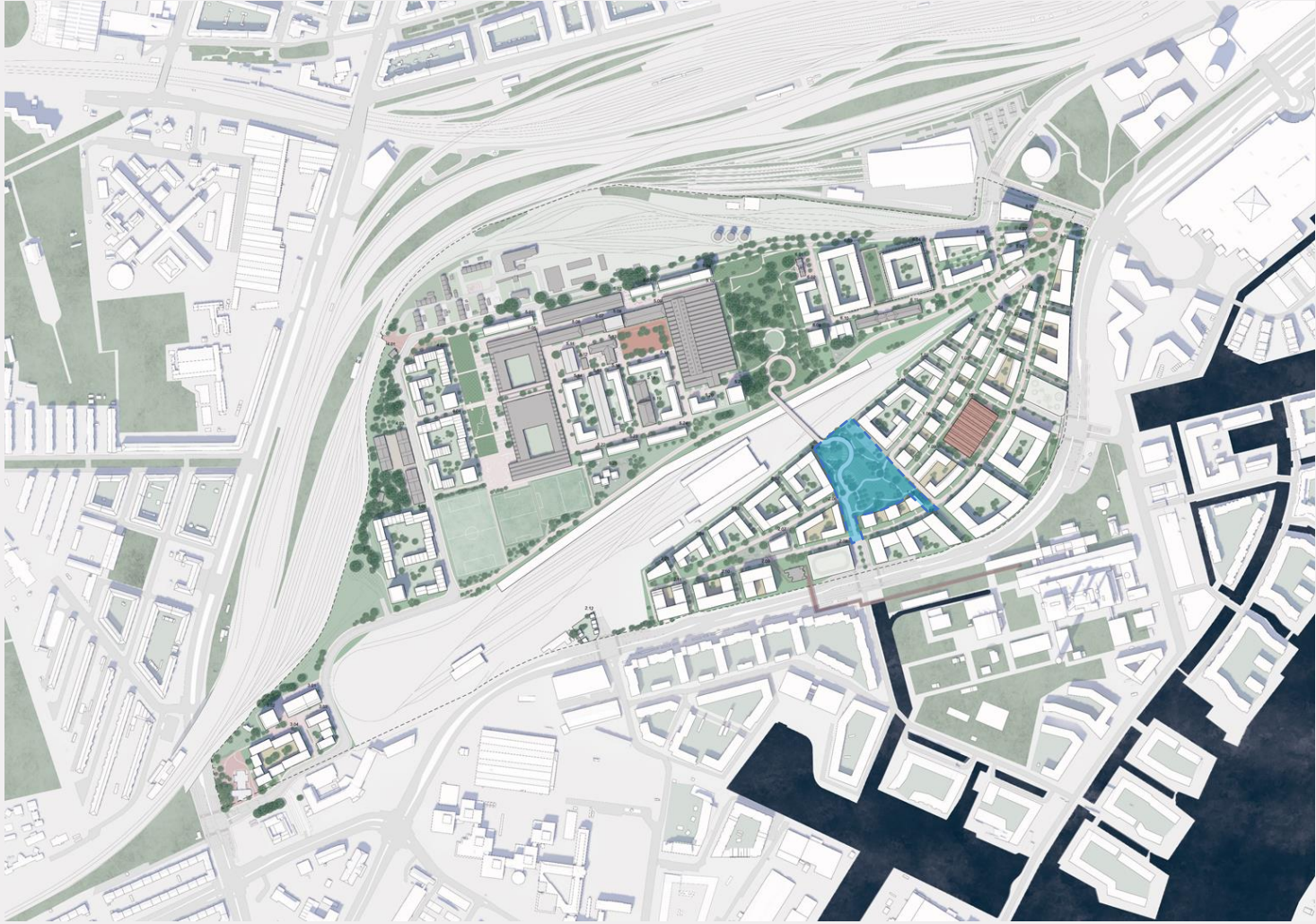
Landskabsprincippet kan have særligt fokus på mental sundhed i form af rekreation, sanselige oplevelser og meningsfulde (have)fællesskaber.

Reinventing Vasbyhave

Astrid Vilhelm
Nrep
&
Kim Illum
DSB Ejendomme







Reinventing Vasbyhave

Priorities & expectations...

1. Health Promotion
2. Intergenerational uses
3. Biodiversity & climate adaptation



Health Promotion

Physical health

Mental health

Social health



Intergenerational uses

Solving needs for people
in immediate surroundings
and beyond...

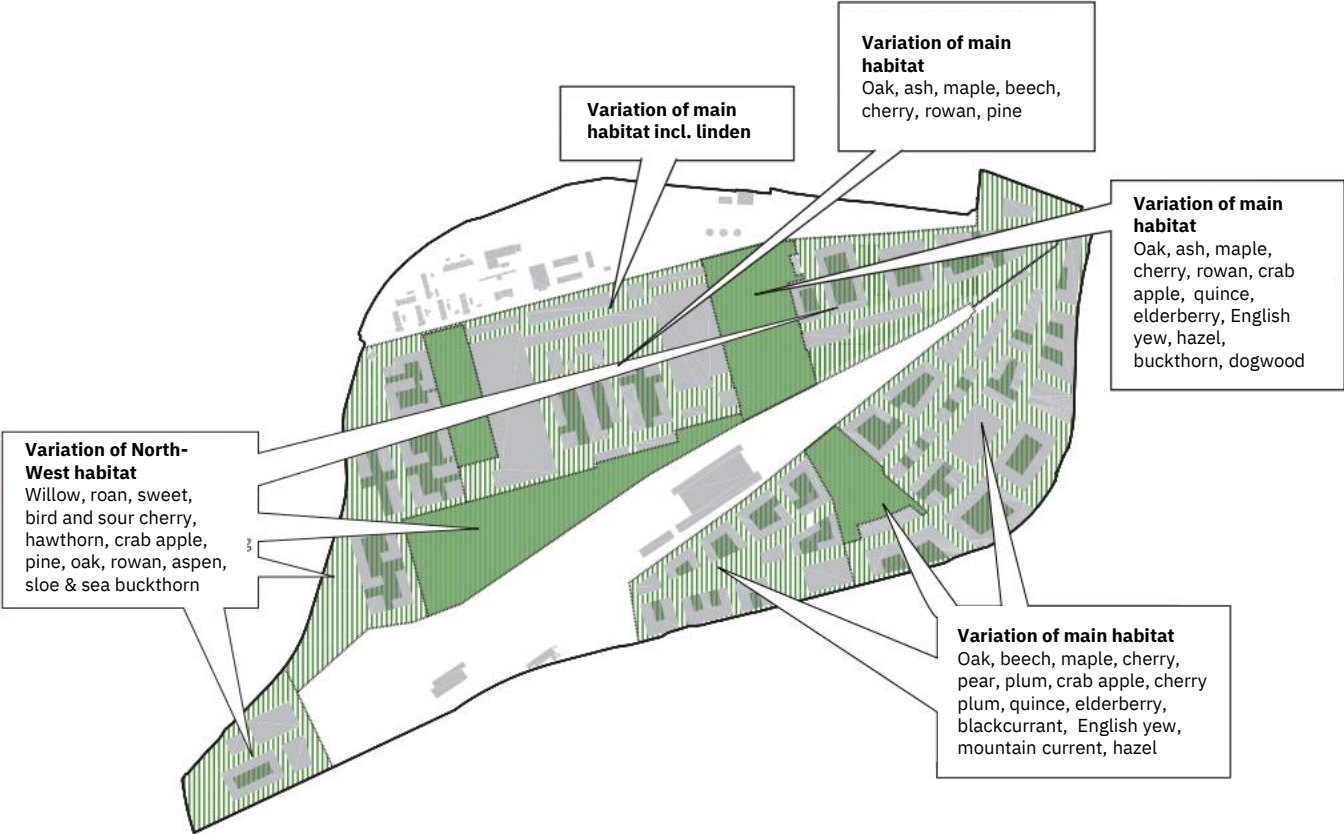


Biodiversity, habitats & climate adaptation

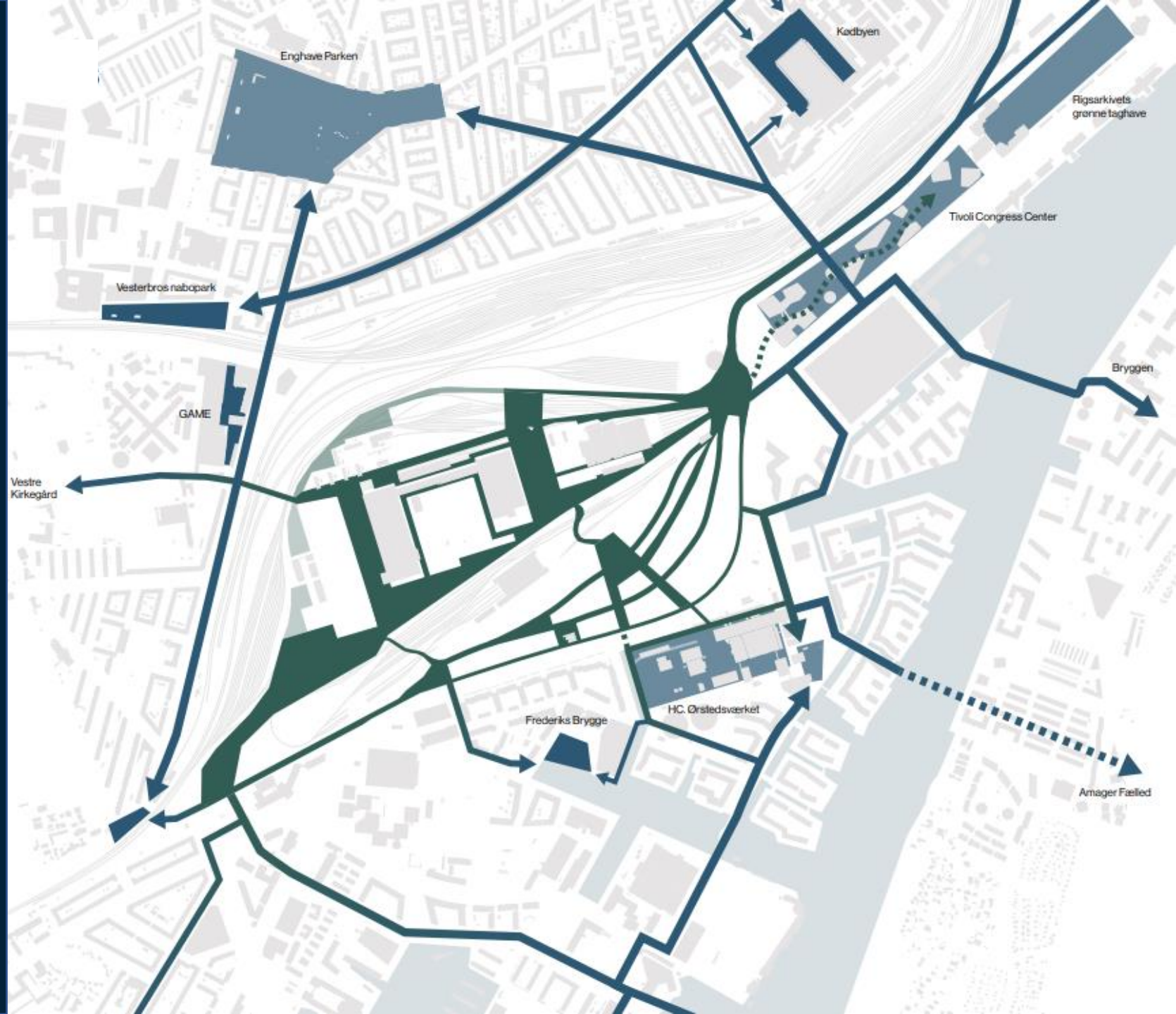
Solving challenges of tomorrow while promoting planetary health....



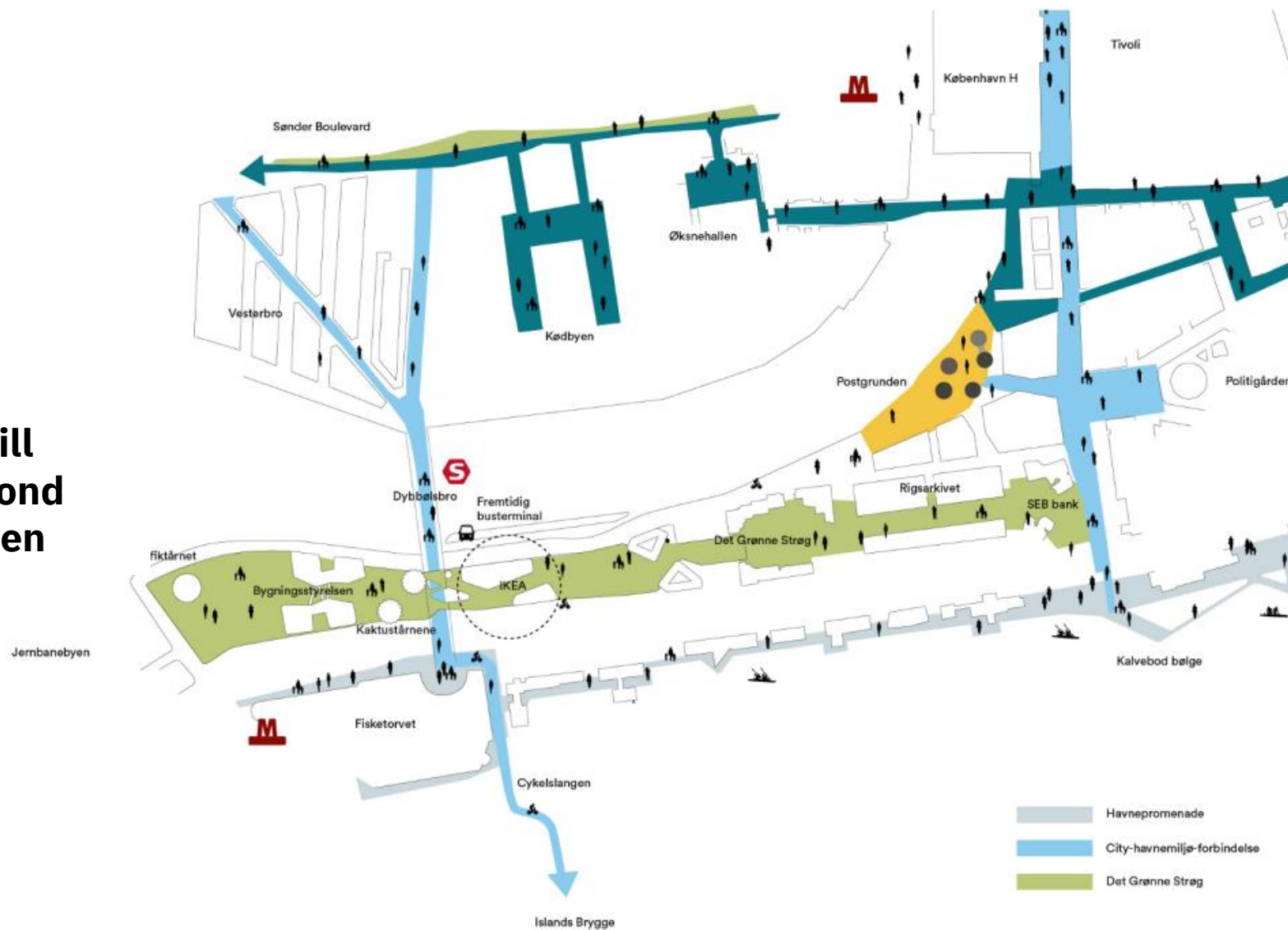
Strategy in the South of Jernbanebyen with limited existing nature qualities



Green urban connections



The Green Structure will expand beyond Jernbanebyen



Q&A

