



FN'S VERDENSMÅL

SDG'erne som løftestang for nytænkning og forretning

Lasse Lind

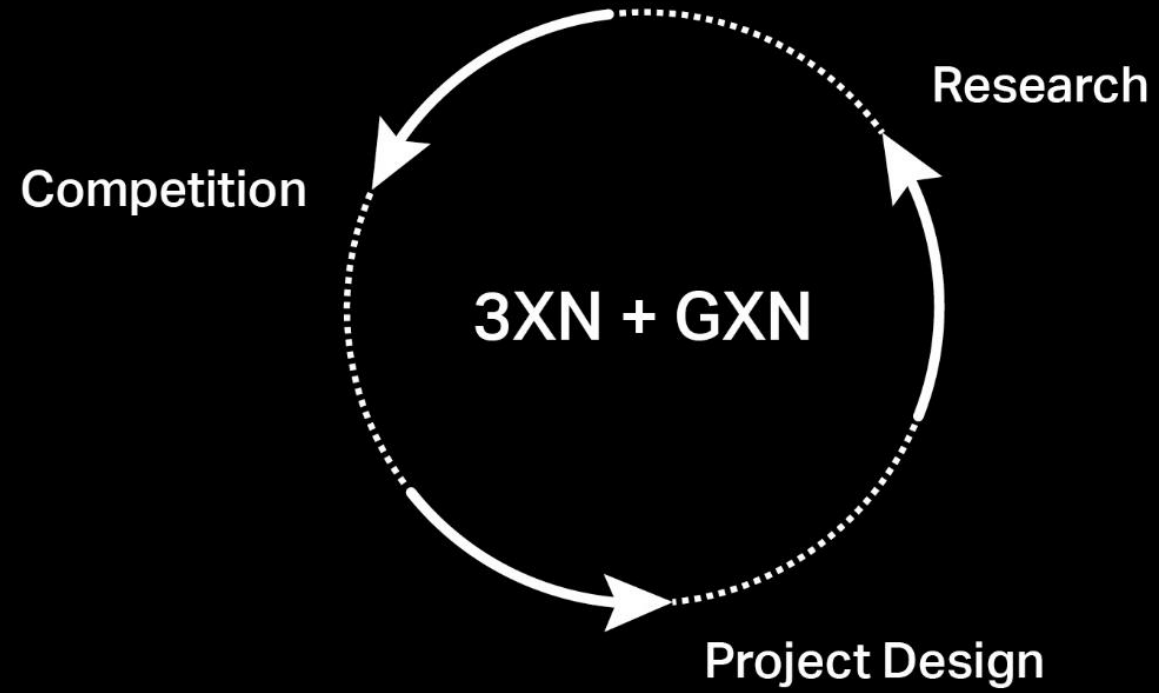
Arkitekt, Partner

lli@3xn.dk

Architecture
Landscape
Interiors
Graphics
Masterplanning
Visuals



Publications
Product
Behaviour
Circularity
Sustainability
Innovation





Partnerne bag Circle House

Kernepartnere

Lejerbo (Bygherre), GXN Innovation, MT
Højgaard, Statens Byggeforskningsinstitut,
Foreningen for Byggeriets Samfundsansvar.



Industripartnere

Spæncom, Dansk Beton, Peikko, Velfac, Rockwool, Orbicon,
Komproment, Caverion, Gyproc, RGS Nordic, NCC Construction,
Kingo Karlsen, Tscherning, Tarkett, Kalk, Dovista, Troldekt.

Konsulenter

Responsible Assets, Horten
Advokatpartnerselskab, Lauritzen
Advising, Hildebrandt & Brandt

Fællestegnestue

Vandkunsten,
Lendager Arkitekter,
3XN Arkitekter

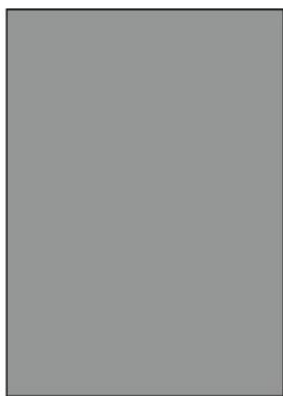
Støttet af

Miljøstyrelsen
og Realdania



CIRCLE HOUSE / DEMONSTRATOR





Væg

+

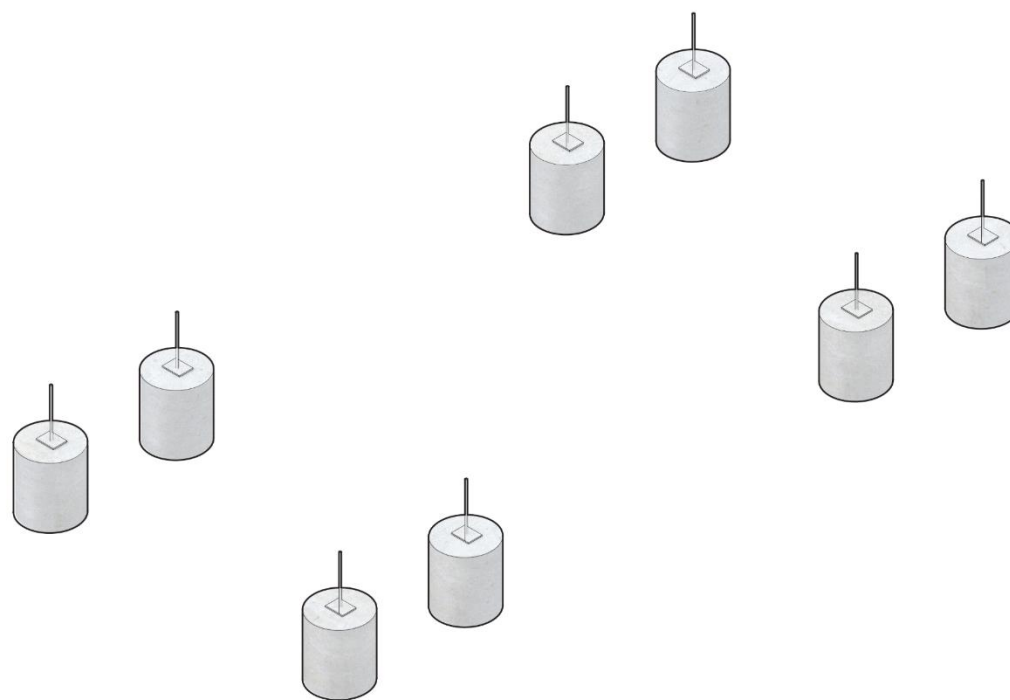


Bjælke

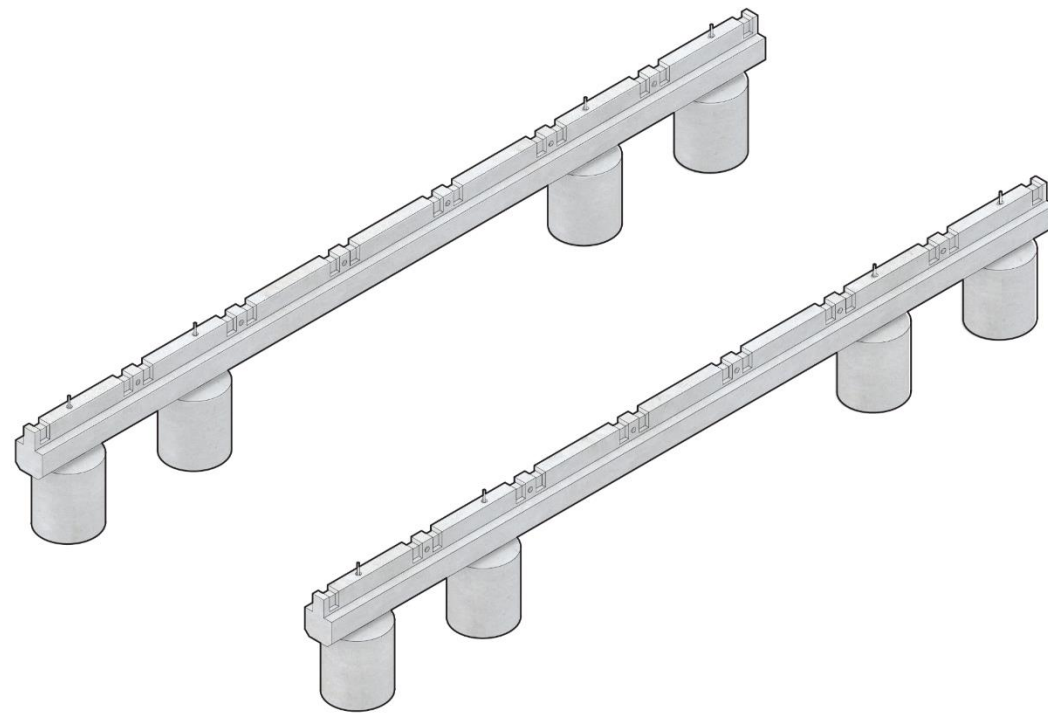
+



Dæk



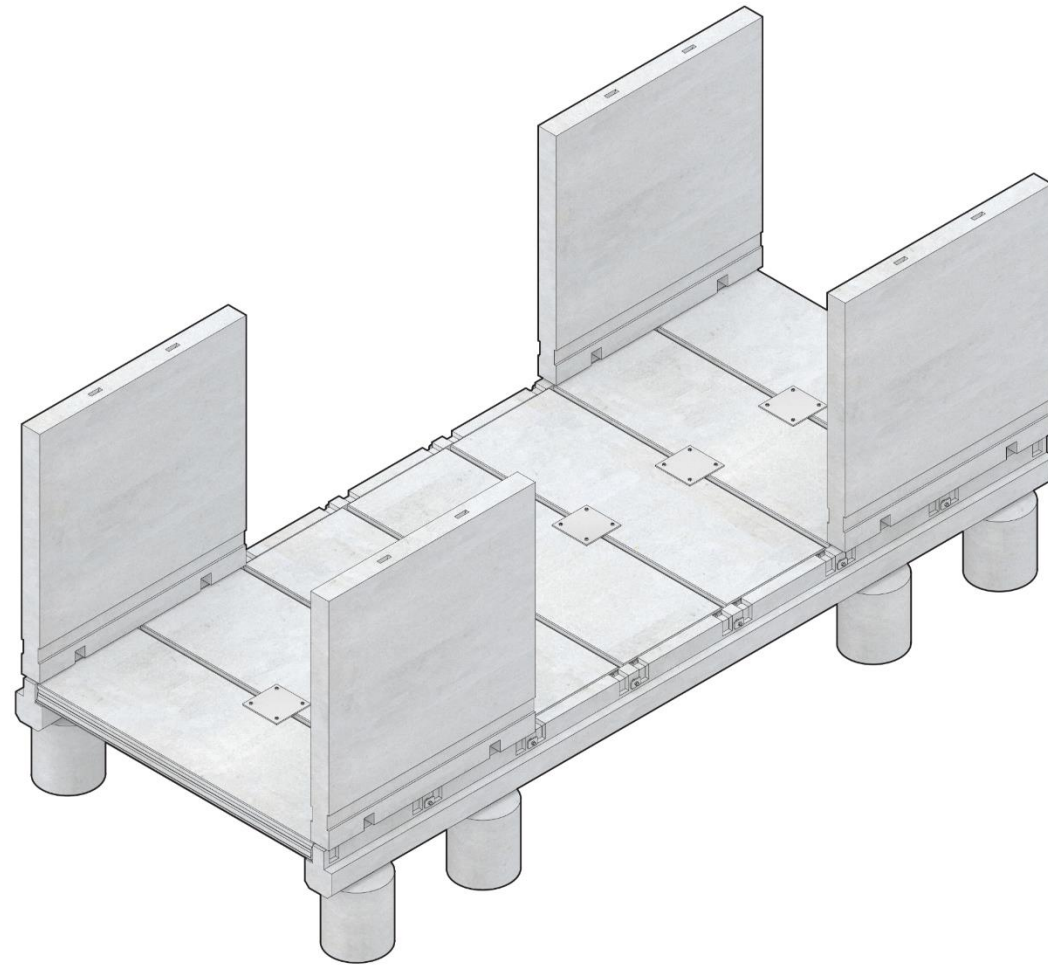
CIRCLE HOUSE / DEMONSTRATOR



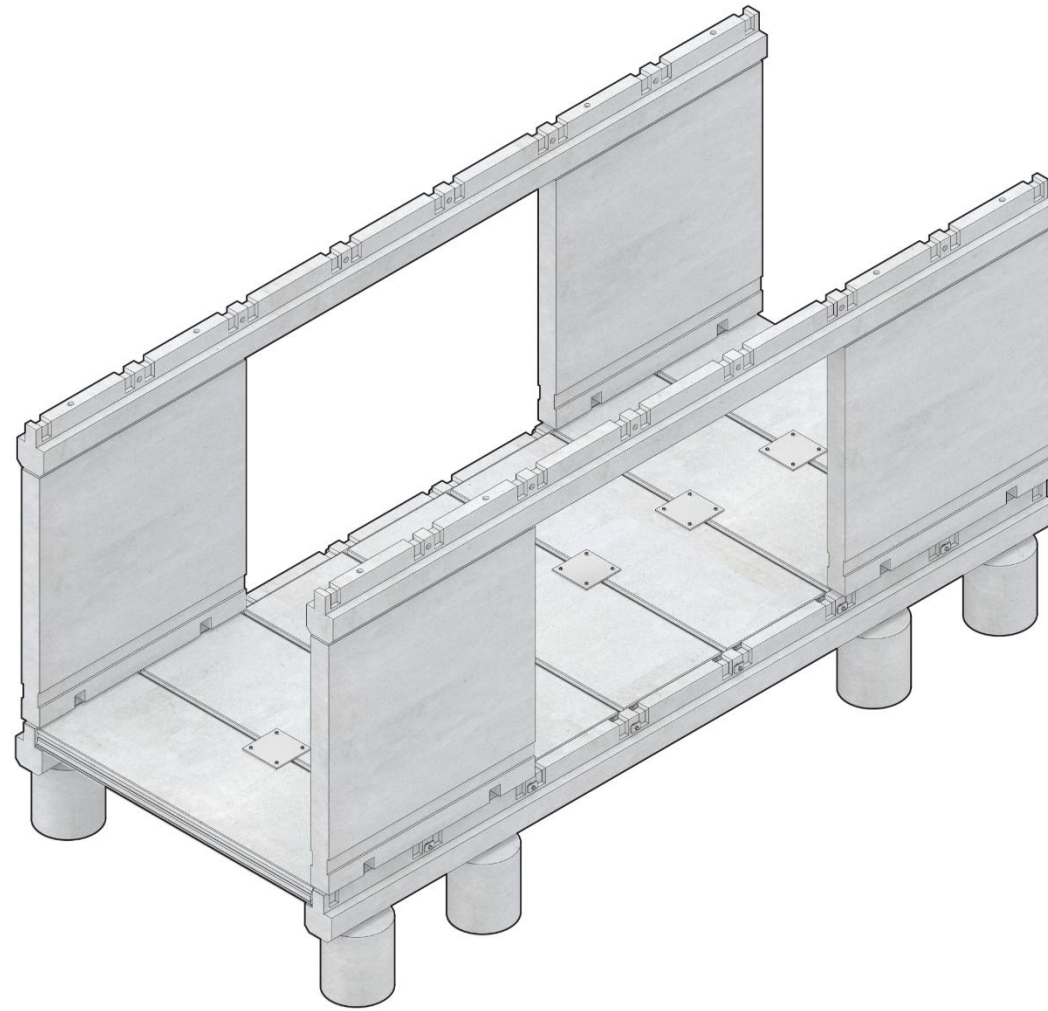
CIRCLE HOUSE / DEMONSTRATOR



CIRCLE HOUSE / DEMONSTRATOR



CIRCLE HOUSE / DEMONSTRATOR



CIRCLE HOUSE / DEMONSTRATOR

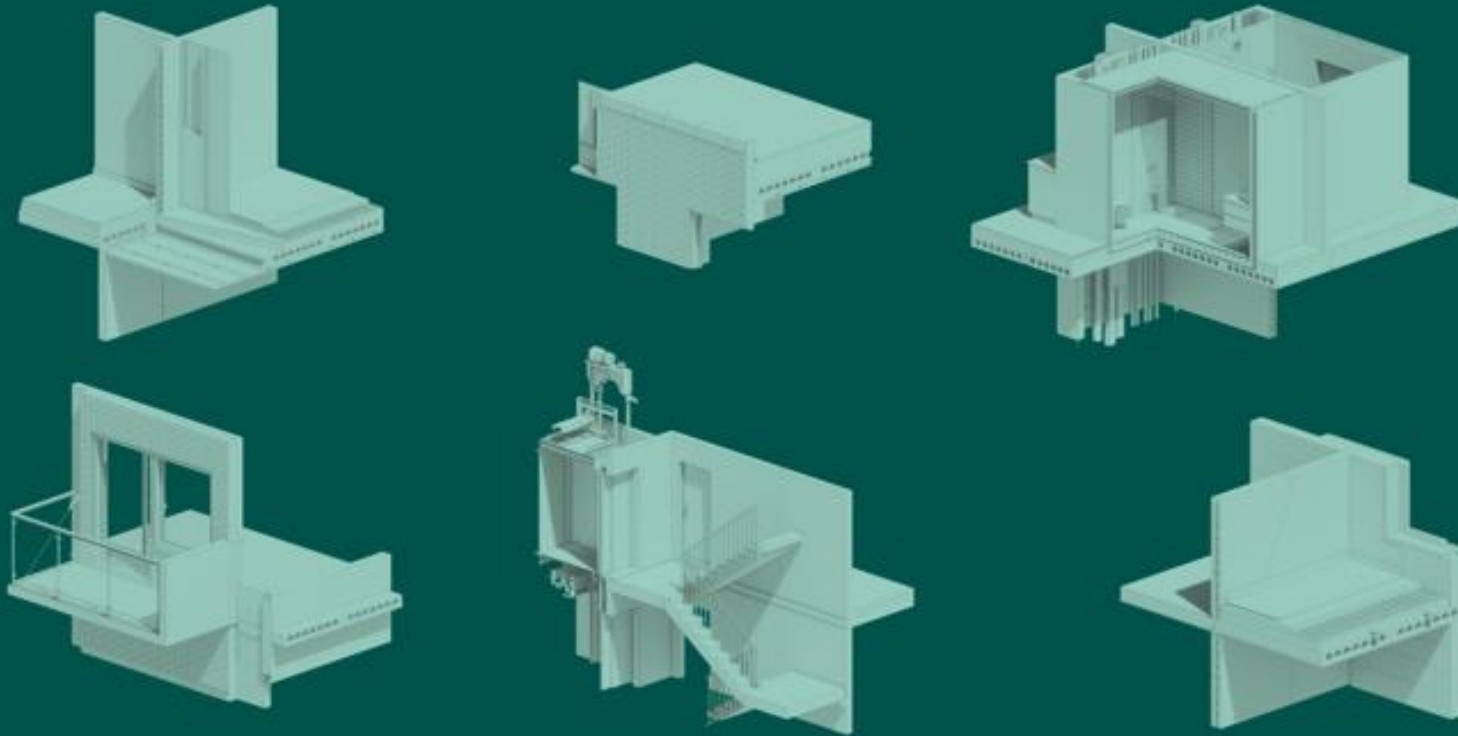


CIRCLE HOUSE / DEMONSTRATOR





CIRCUIT



Transformative Housing

Design for disassembly and flexible construction

Mapping of apartment typologies

Rental



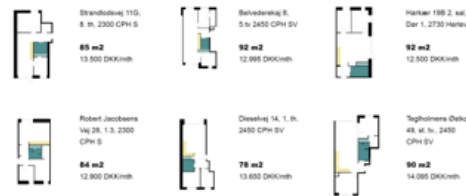
Freehold



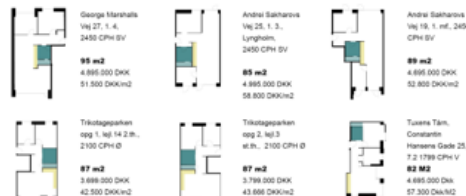
1. Strandboulev 11
2. Belvederevej 3
3. Ege Allé Vg 64C
4. Dronningvej 11
5. Flytedåben 17 4t, 5t
6. Grønbakvej 308
7. Engshøjvej 8B 1. fl.
8. Torsens Tårn 251 7.1
9. Dronning Haa, Kibækstaden 18.1
10. Gæstetorvet 14 5.3
11. Cateksgade 2 4t, 5t
12. Monica Zetlerlands Vej 17 1. fl.

2 Bedroom 78 m² - 89 m²

Rental



Freehold

1 Bedroom 52 m² - 73 m²

Rental



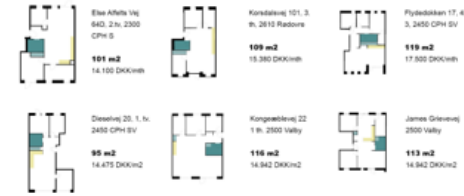
Freehold



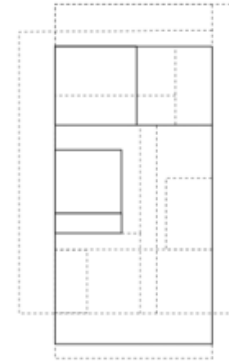
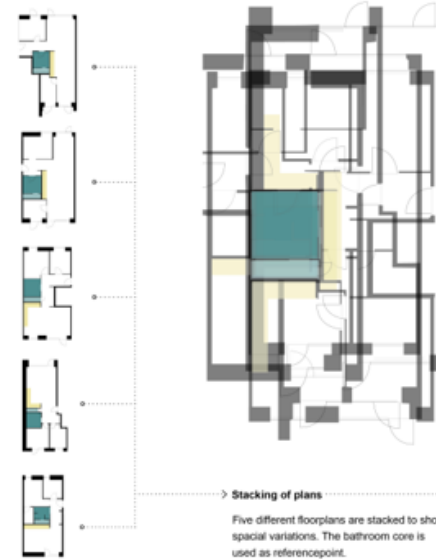
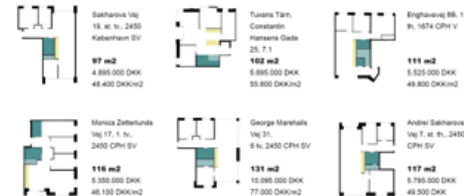
- Bathroom Technical installations Kitchen

3 Bedrooms 95 m² - 119 m²

Rental

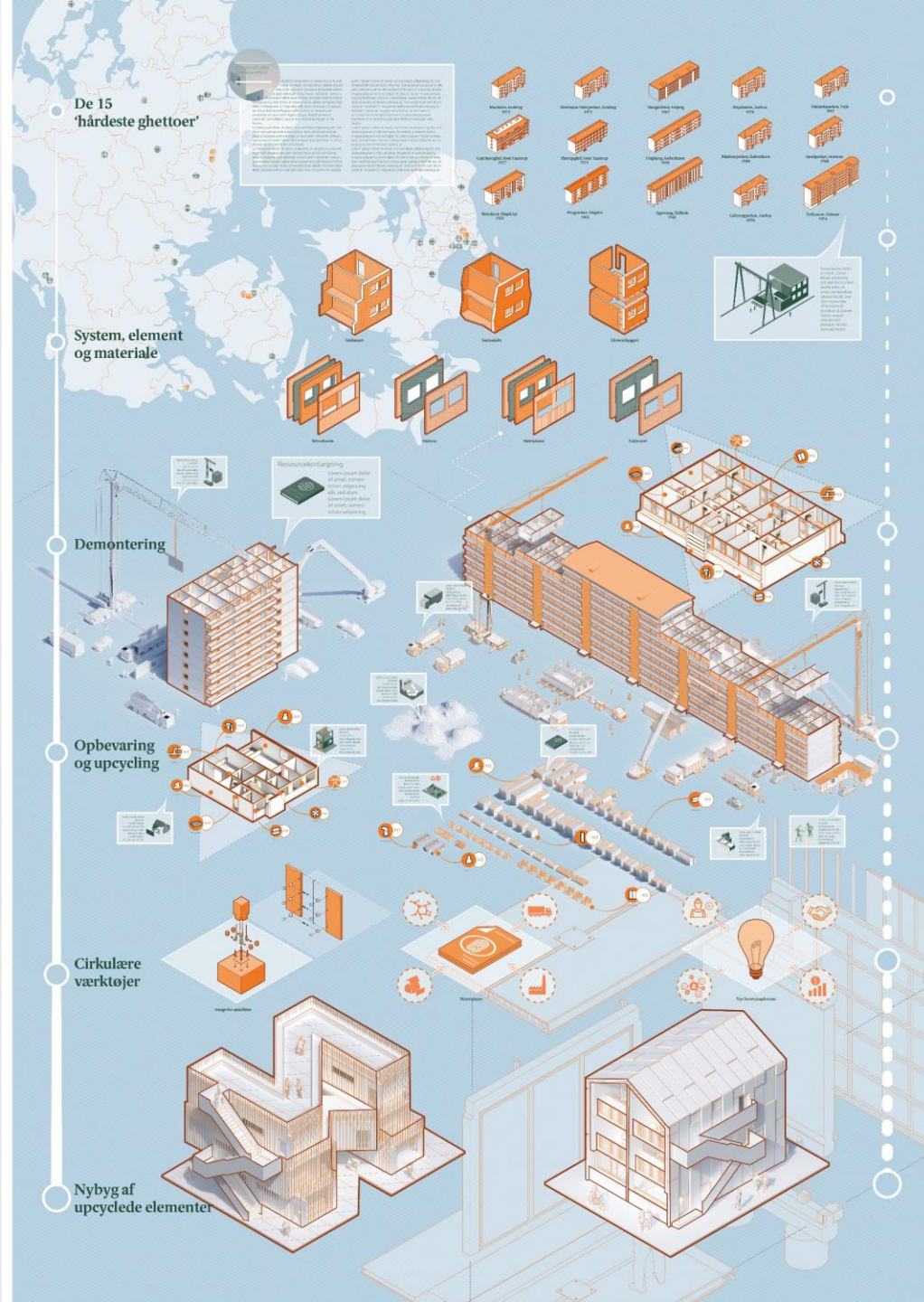


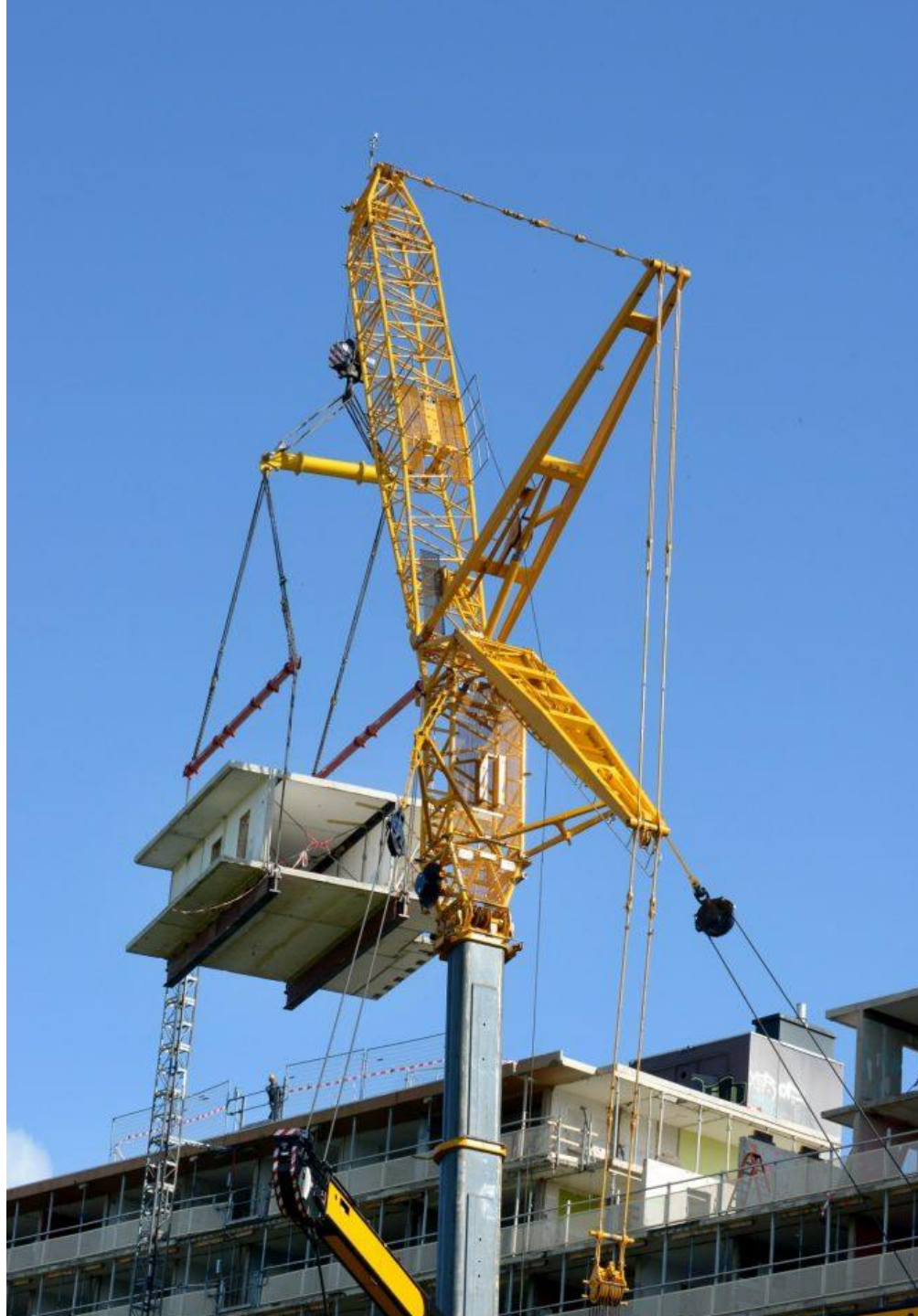
Freehold



Ressource Blokken

Upcycling of the 60's and 70's
social housing typologies





- De 16 hårdeste ghettoområder
- Ghettoområder
- Udsatte boligområder

40 procents reglen

I 2030 må der ikke være mere end 40% af boligerne i de 'hårde ghettoer' der er almene familieboliger.

Bebyggelser der skal omdannes eller nedrives.



Bebyggelse der bevares

GXN

jaja

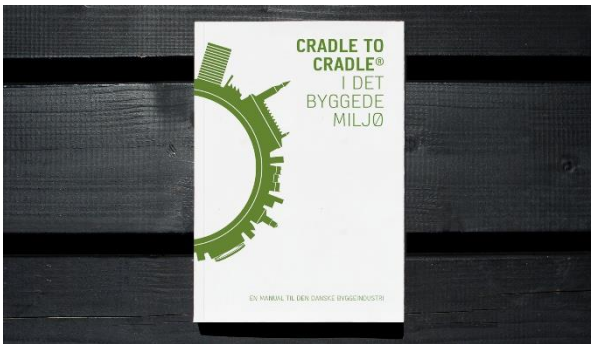
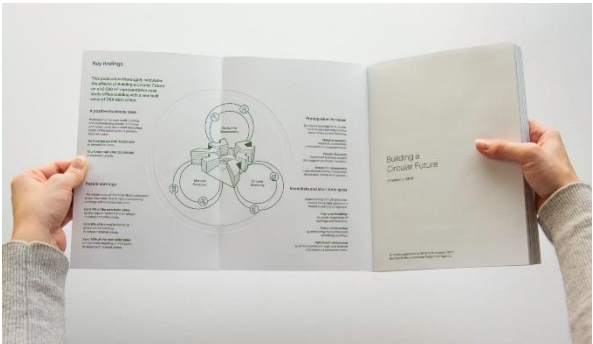
REGNESTUEN
HAUKOHL & KÖPPEN



TEKNOLOGISK
INSTITUT

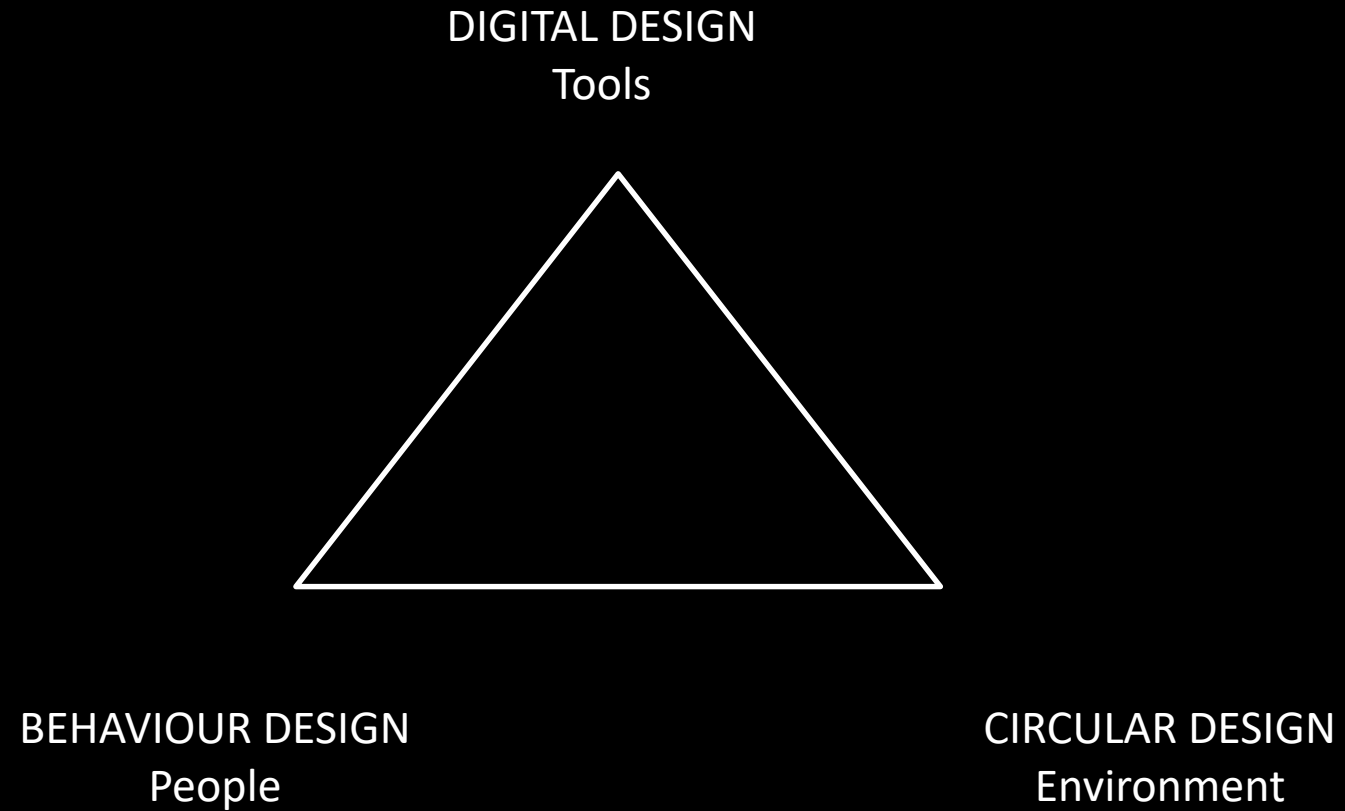
SBi

Publication



GXN

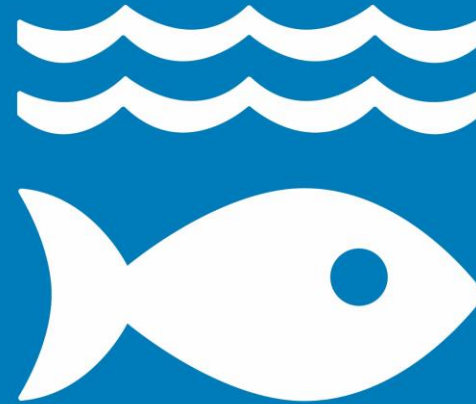
AREAS OF RESEARCH AND PRAXIS



6 CLEAN WATER
AND SANITATION



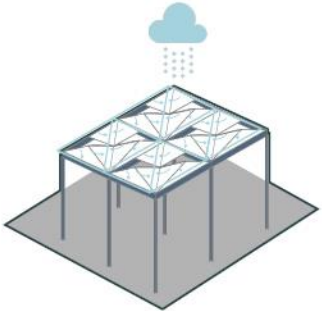
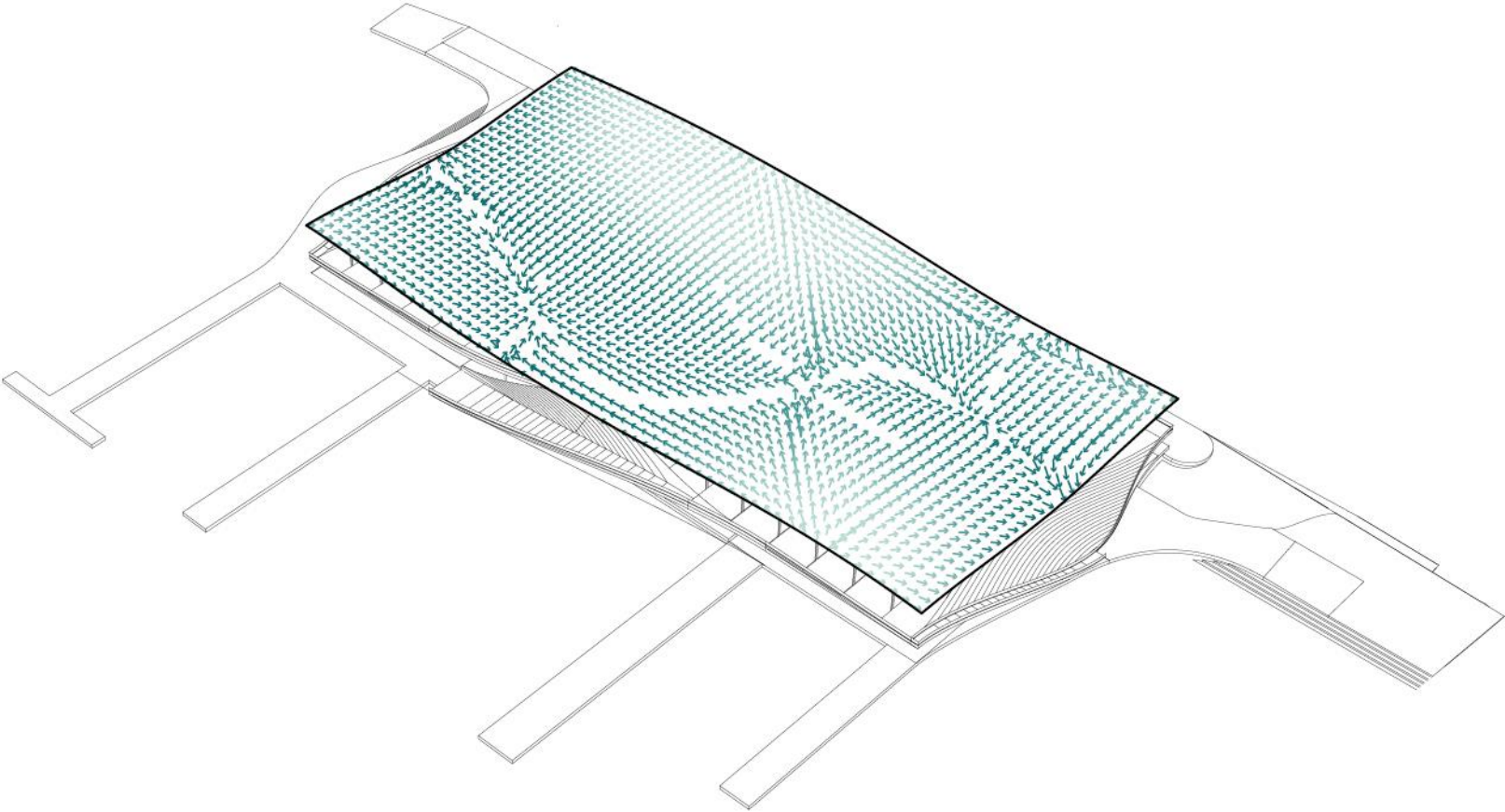
14 LIFE
BELOW WATER





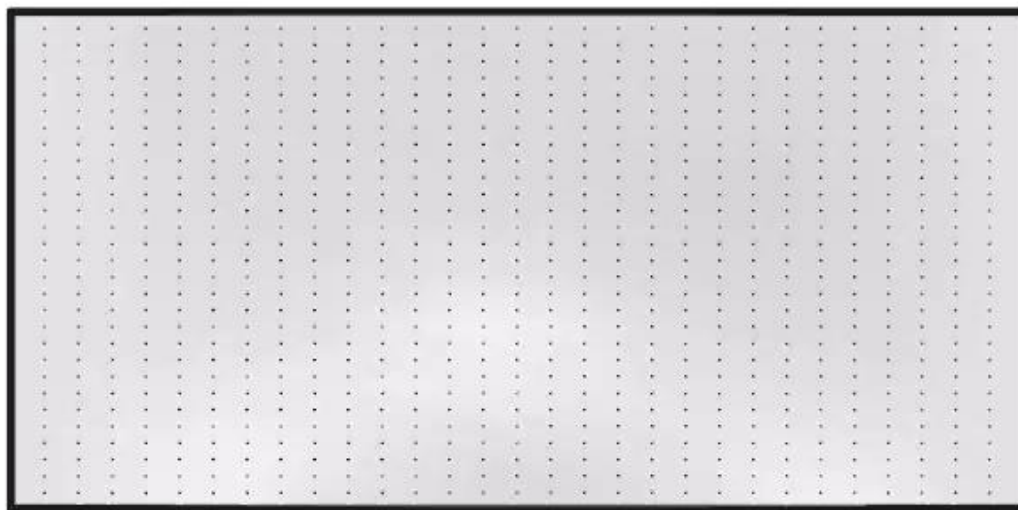
Design Principles

Modules - Water Collection

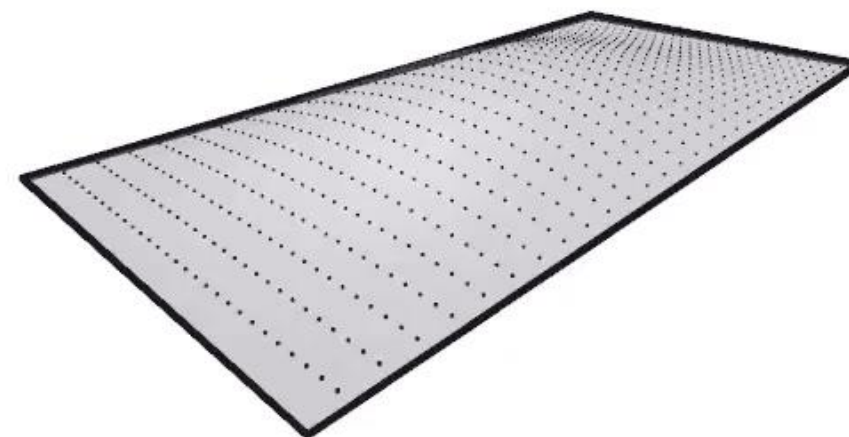


Water collection

View_Top ▾



View_Perspective ▾



View_Elevation ▾



2.12 Built Form & Urban Design Analysis

Biofiltration of Storm-water

Greywater filtering and re-use

The primary biofiltration zone in the Eastern plaza is designed to filter water for reuse in the mechanical systems of the fishmarket. This takes advantage of the constant water demand from evaporative cooling systems as well as the regular daily supply of greywater, topped up by rainwater overflow. The system operates separately to harvested rainwater which is treated and retained for higher-end uses

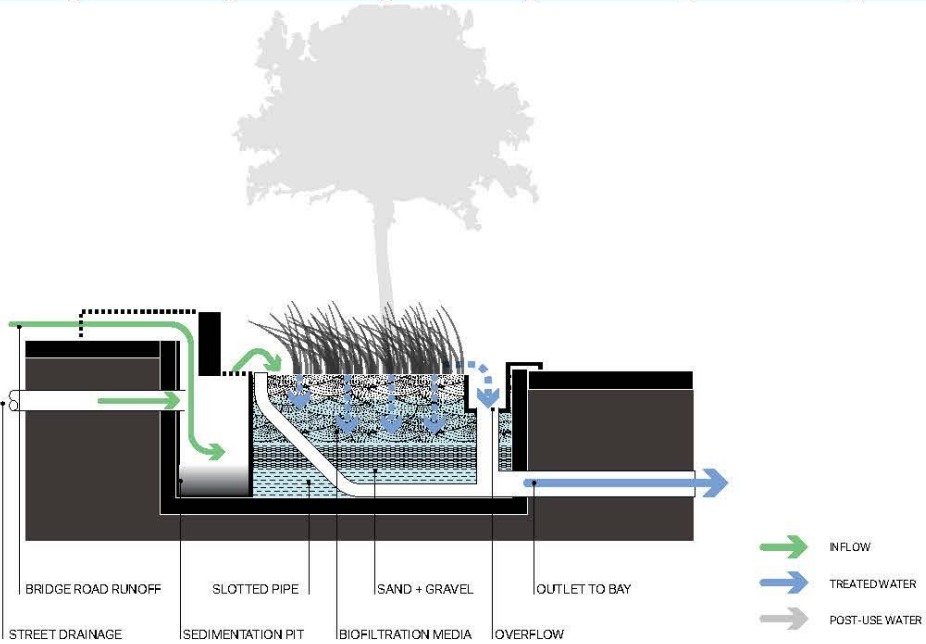
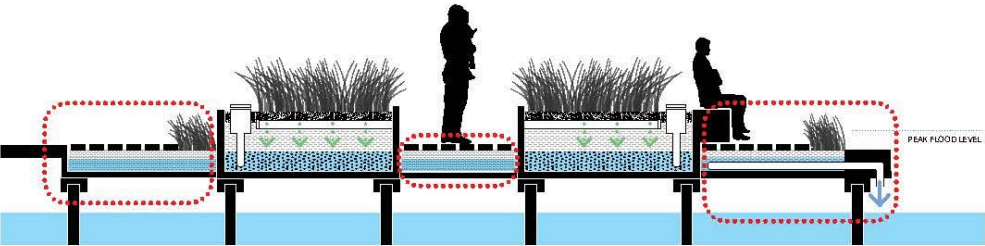
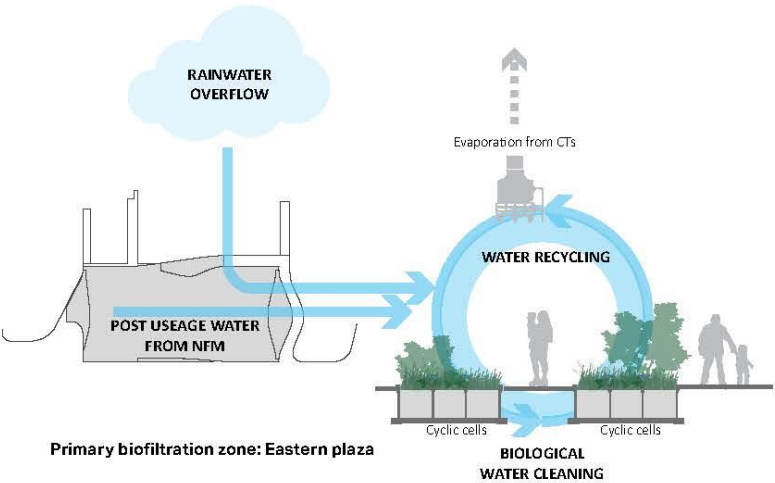


Diagram: Eastern plaza grey-water treatment system



Primary biofiltration zone: Eastern plaza



Primary biofiltration zone: Eastern plaza



NEW SYDNEY FISH MARKET – WATER RECYCLING

712 m³ daily consumption. Aprox. 70% recycled
Average AUS consumption = 0,9 m³ per household
Saves around 0,5 mil. AUD on operation pr. year



8 DECENT WORK AND
ECONOMIC GROWTH



11 SUSTAINABLE CITIES
AND COMMUNITIES



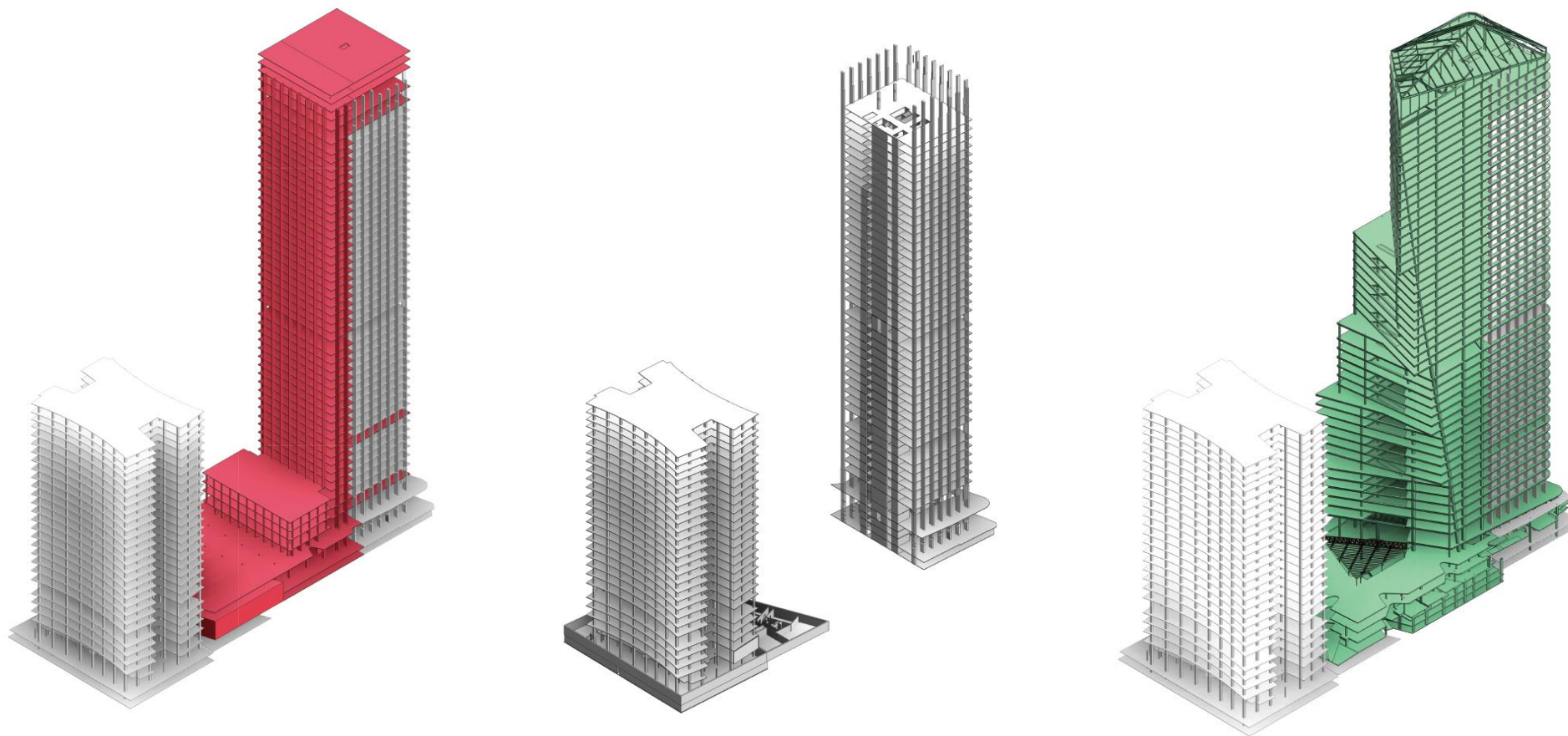
12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION











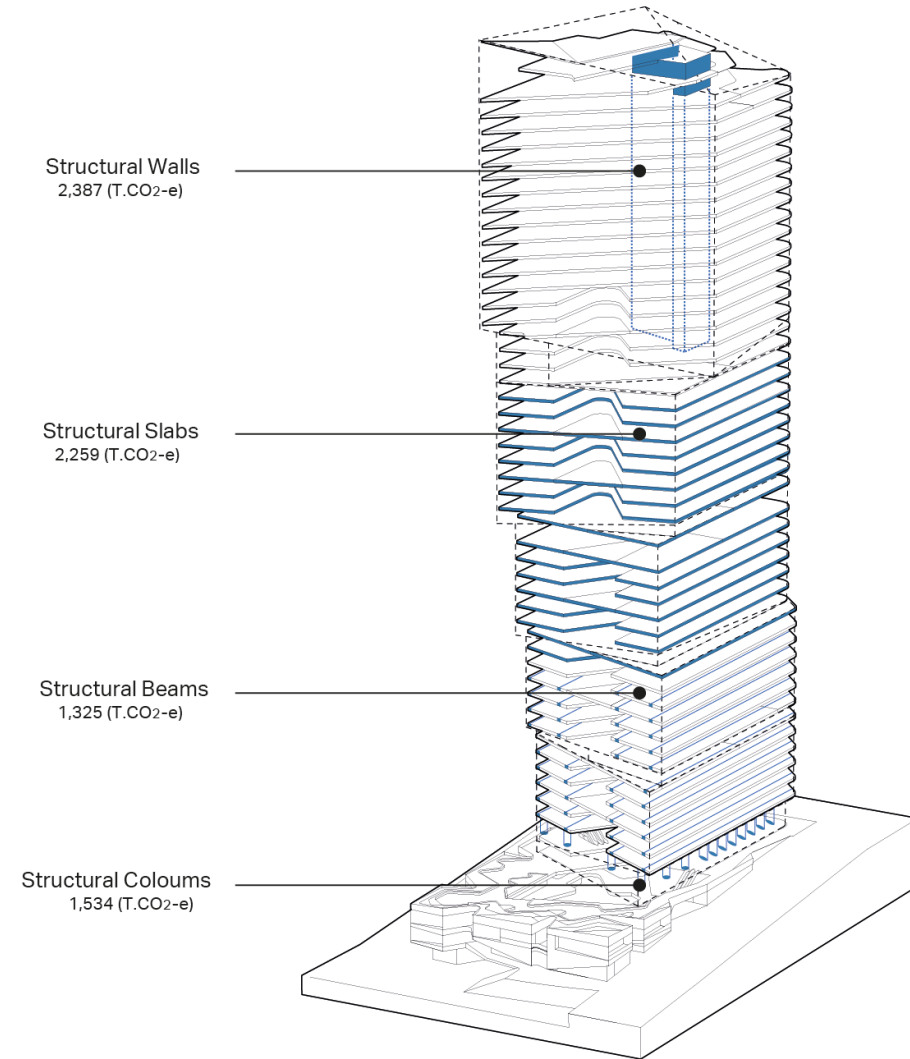
RETAINING 98%
STRUCTURAL WALLS

7.505 Tons of CO₂

EMISSIONS SAVED

*

* The results are based on a published Australian data.





7.505 Tons of CO₂

EMISSIONS SAVED

Equivalent to **2500 one-way flights**
from Sydney to Copenhagen

*





doka

ENDSITE



