



DISTINCTIVE

Architecture

P4 presentation | aE Studio

Personal Information
Balthazar Kiewiet de Jonge

Name of studio:	Architectural Engineering Graduation Studio
Design tutor:	Anne Snijders
BT tutor:	Paddy Thomesen
Research tutor:	Mo Smit





ACTUEL
PARQUET

VENTE RESE RENOVATION

04 37 1 28 40

100% GARANTIE

LE CENTRAL





Nations Unies
Conférence sur les Changements Climatiques 2015
COP21/CMP11
Paris, France

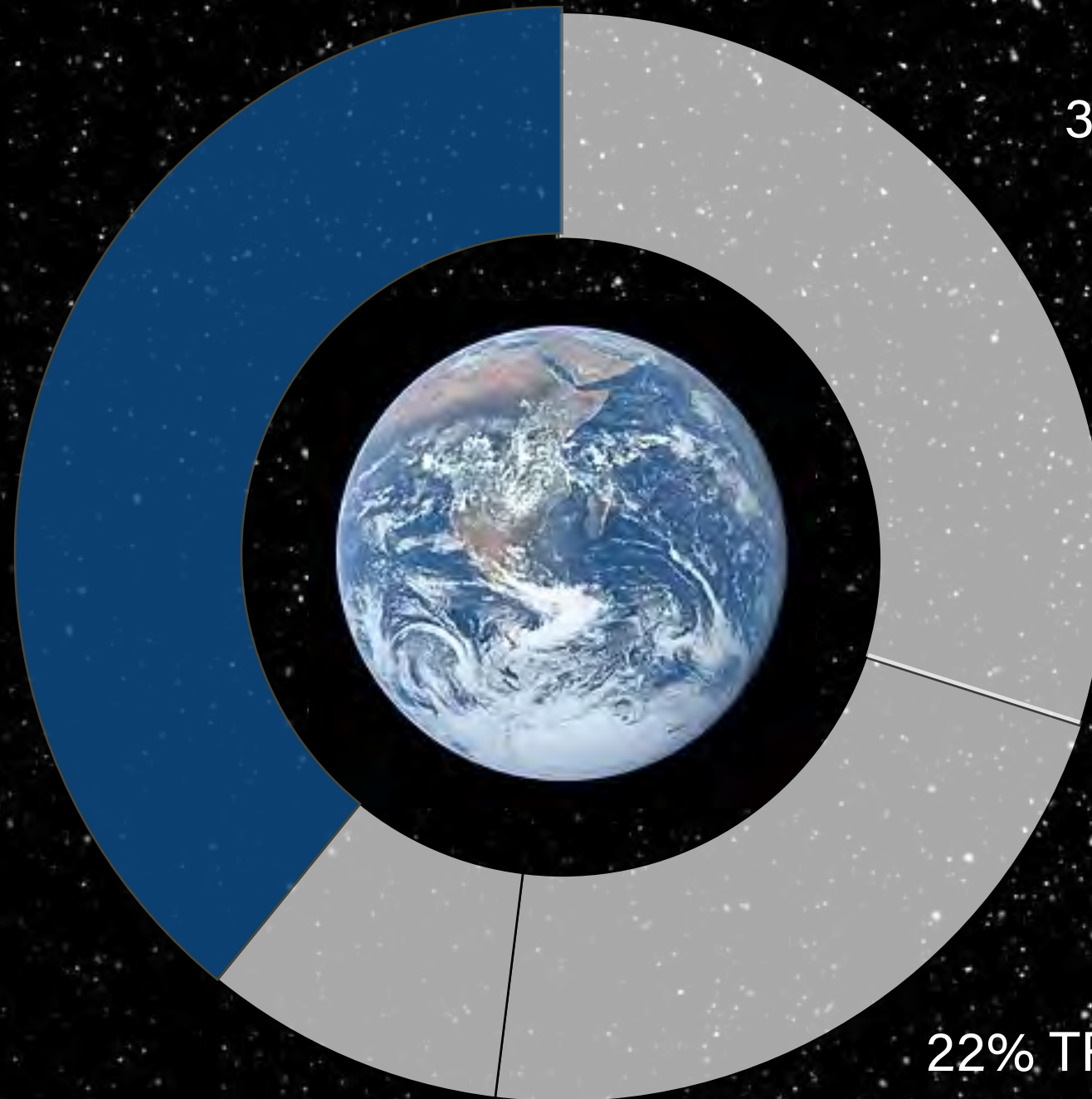
Nations Unies
Conférence sur les Changements Climatiques
COP21/CMP11
Paris, France

39% BUILDINGS

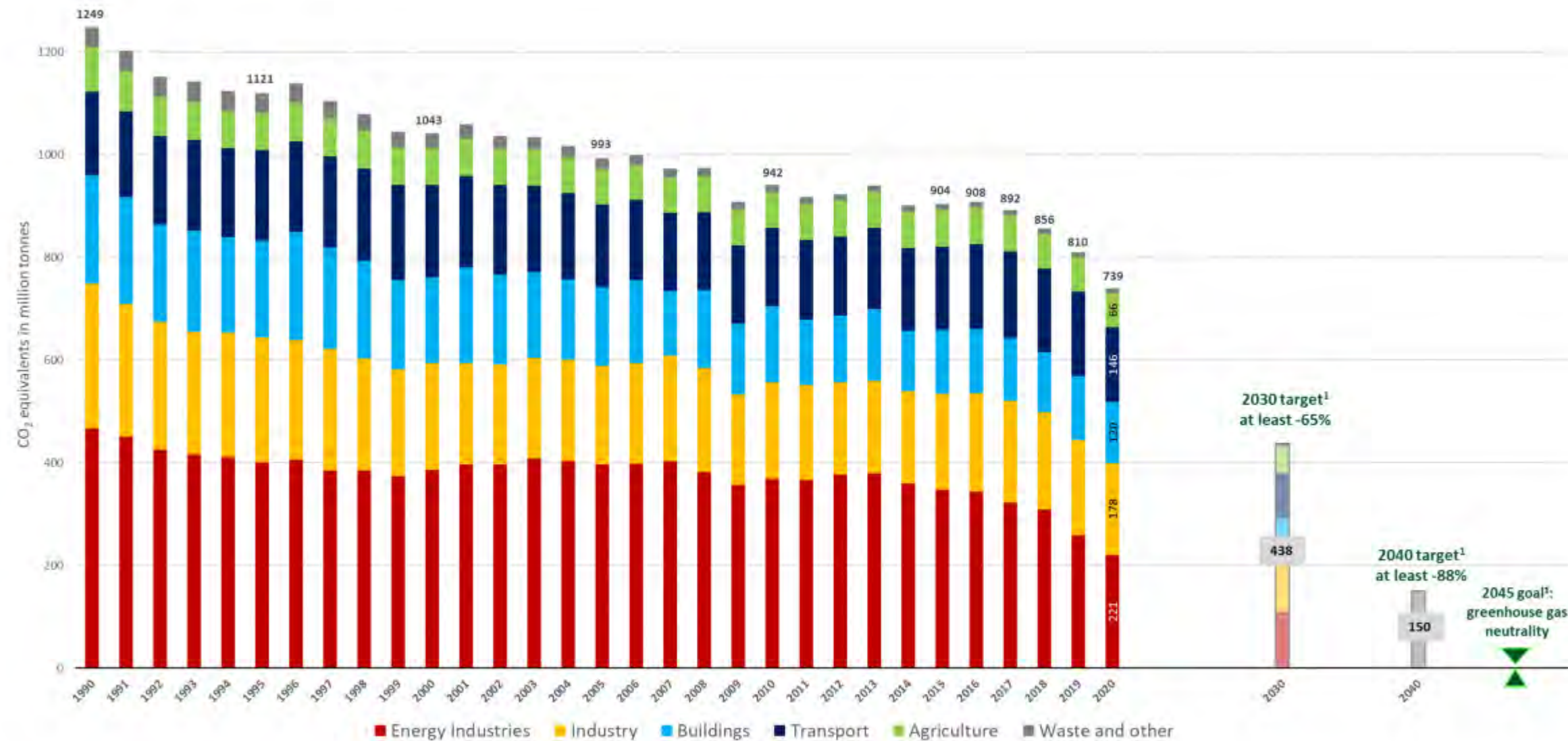
30% INDUSTRY

22% TRANSPORT

9% OTHERS



*the building sector is the only sector
failing to adhere to this plan*



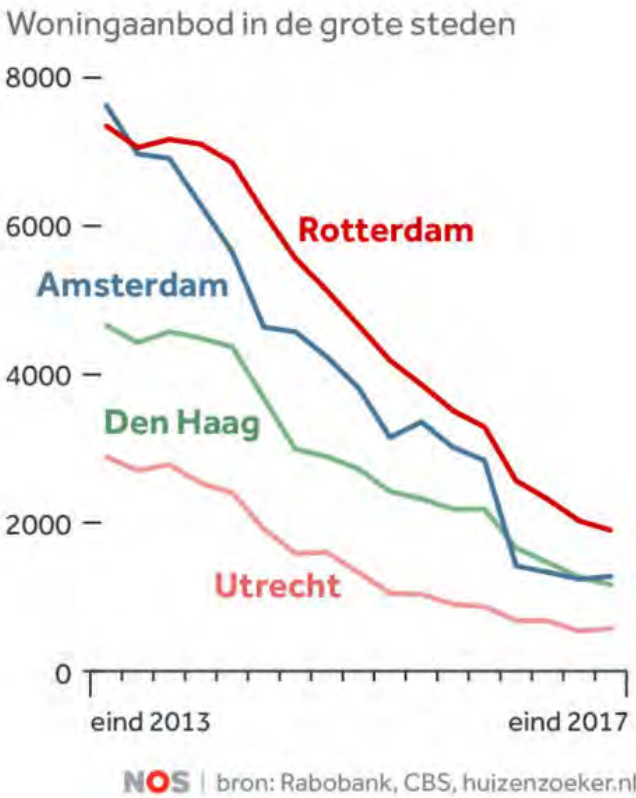
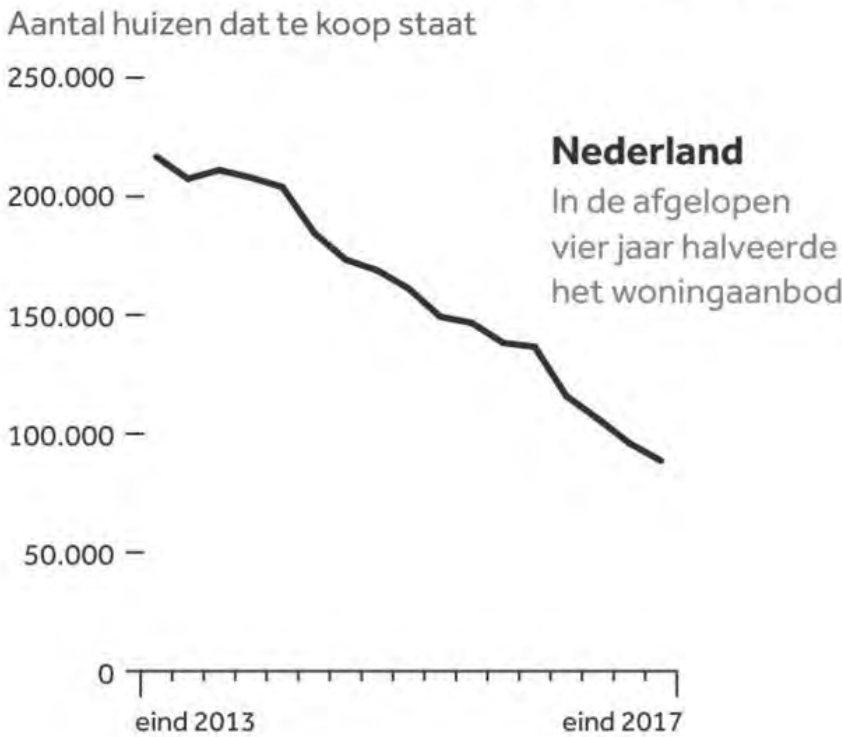
1) 2030, 2040 and 2045 targets as stated in the Climate Action Law.

Note: Without emissions from land use, land-use change and forestry (LULUCF). With the 2021 climate law reform, Germany introduced GHG emissions sink targets for this sector (-25mln t CO2 eq by 2030, -35mln t by 2040 and -40mln t by 2045).

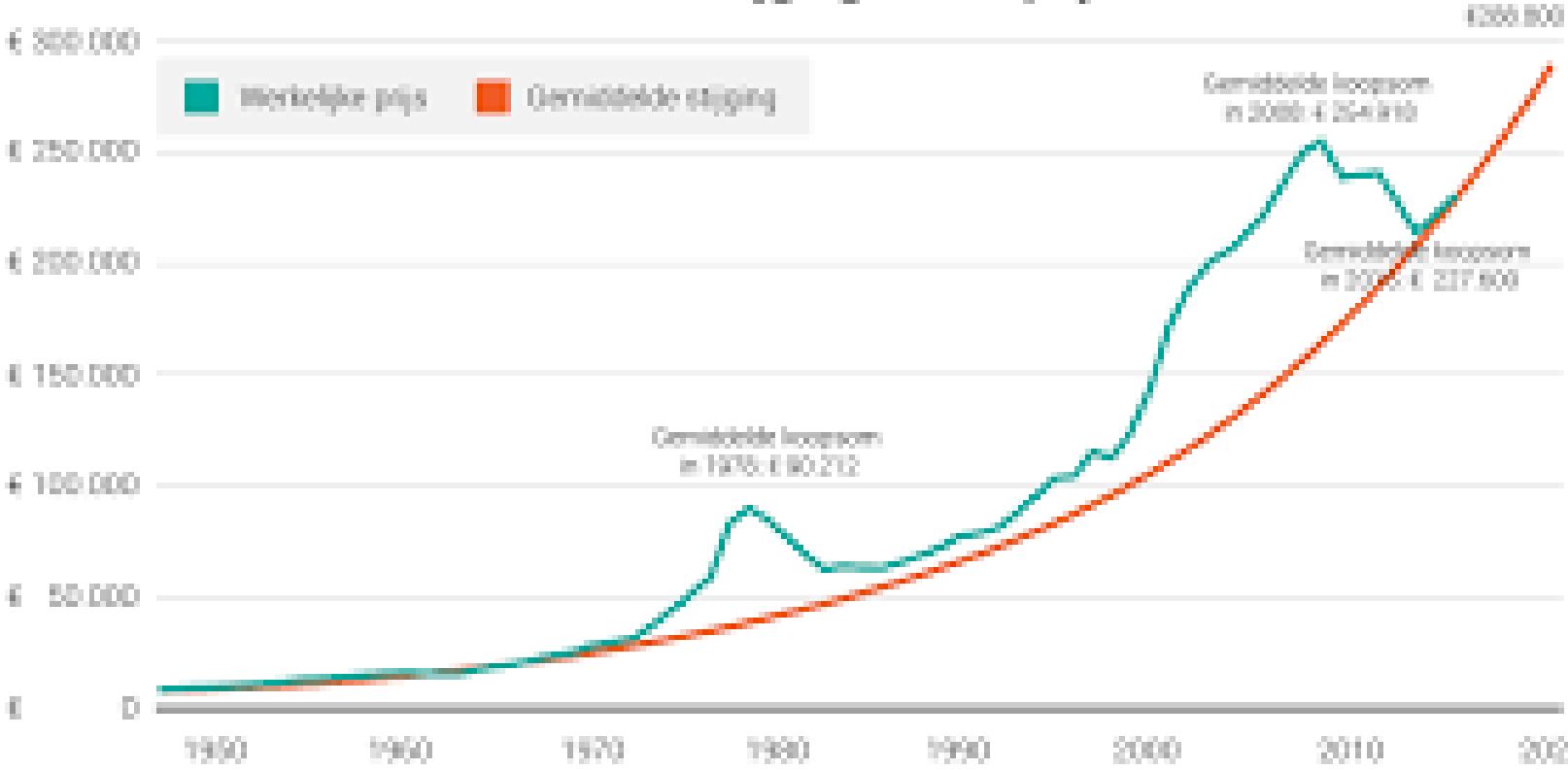
CC BY SA 4.0

*the demand for housing
is increasing*

Steeds minder huizen te koop

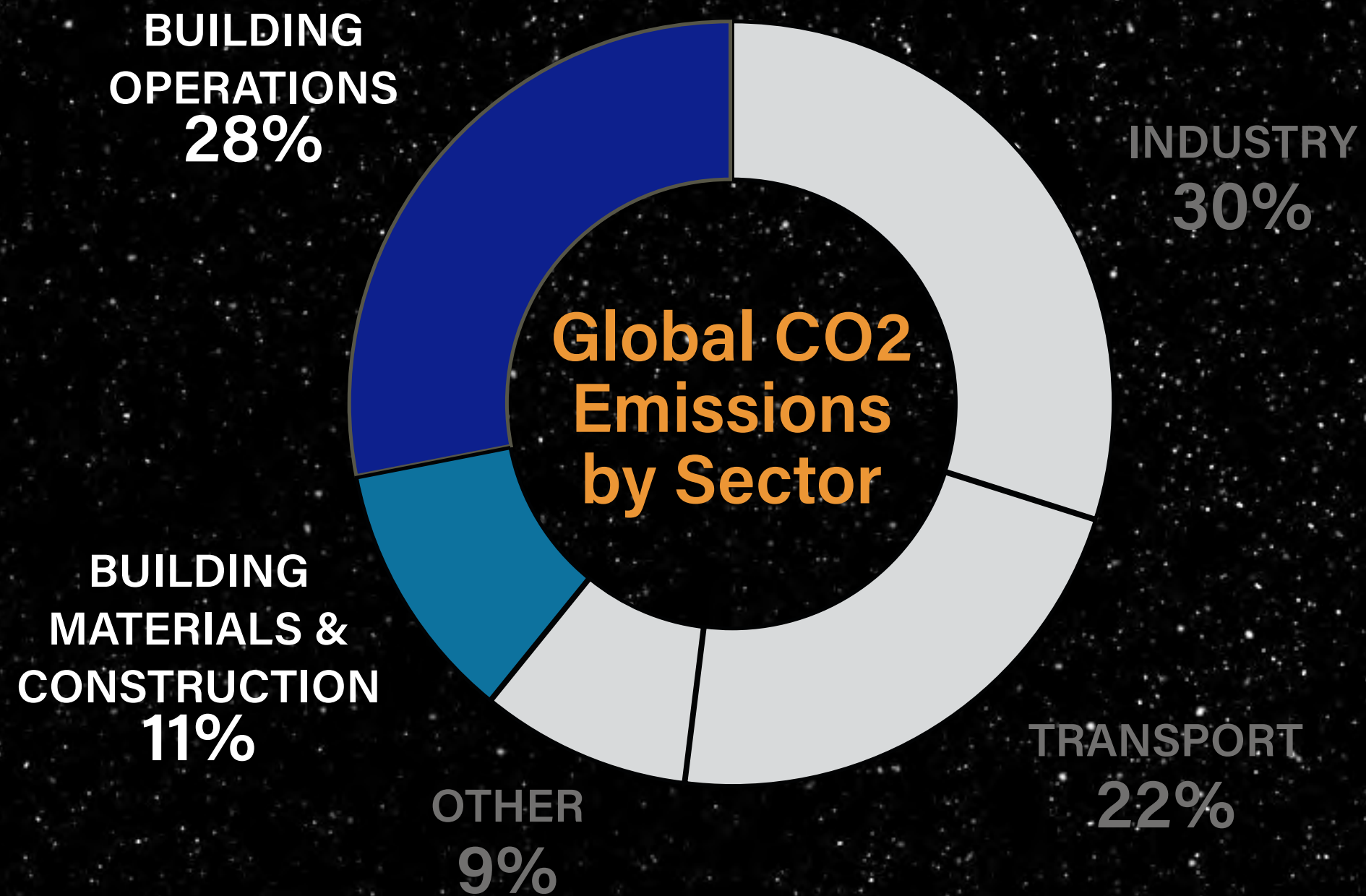


Historische stijging huizenprijs





*So is it even possible
to create **more** houses
while emmiting **less**?*



62,5% LABEL A,B,C



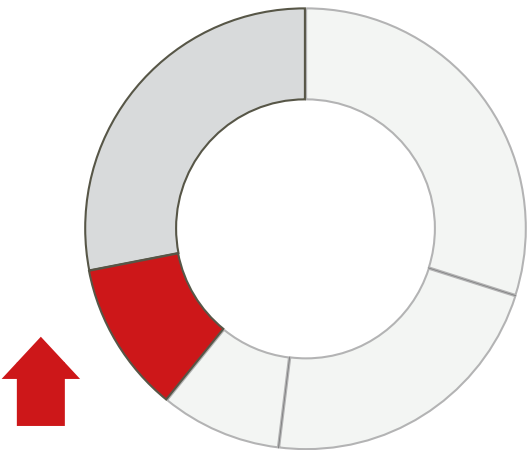
30,5% LABEL D,E,F,G



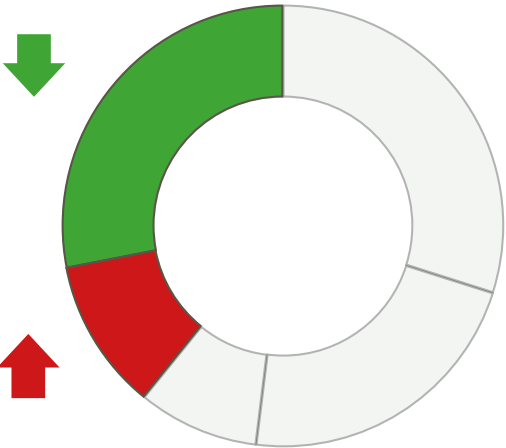
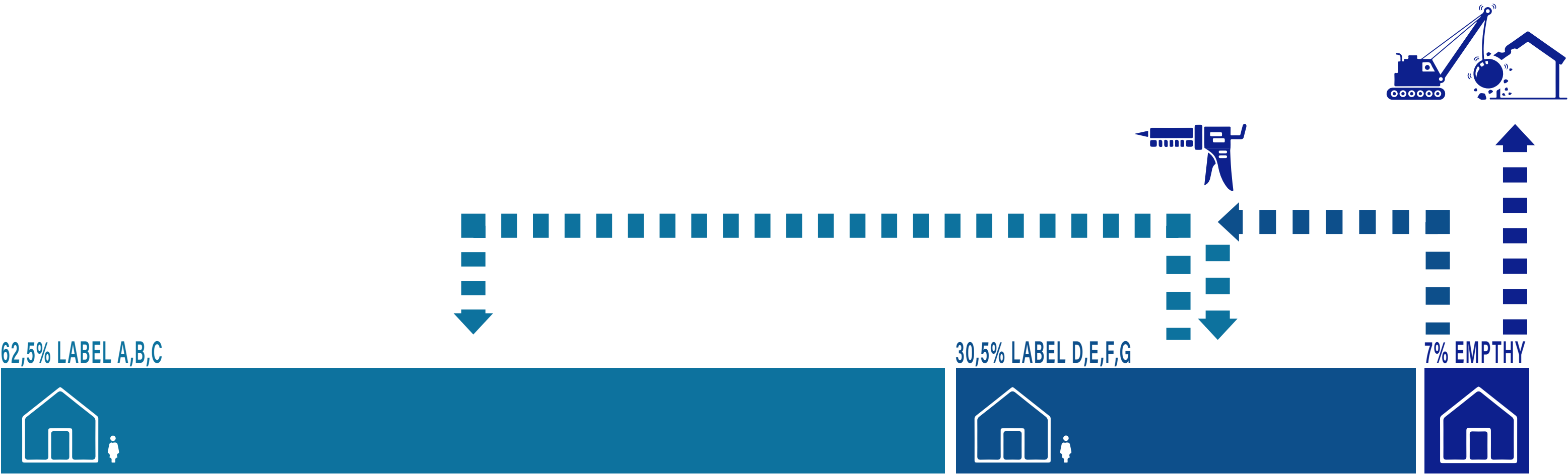
7% EMPHY







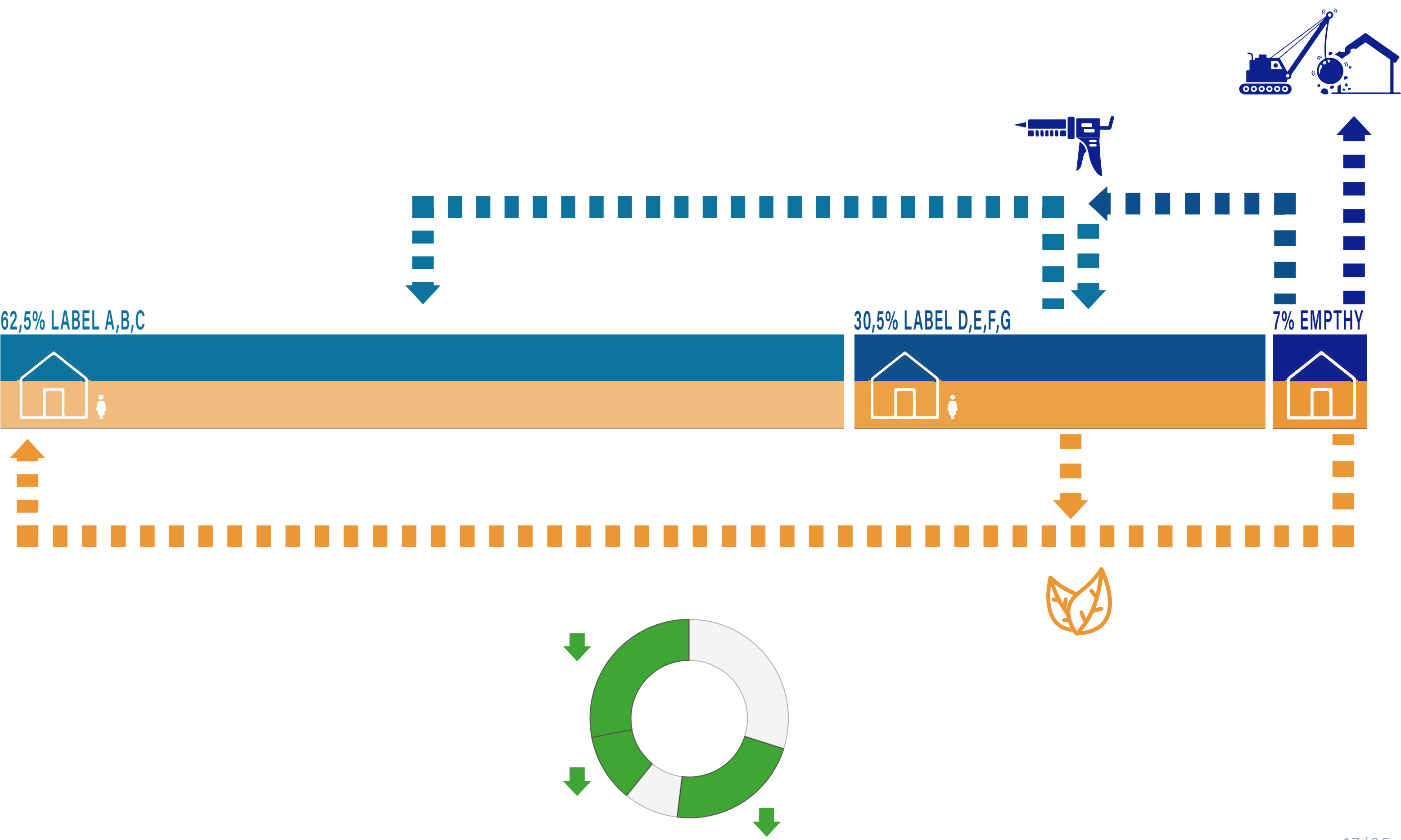


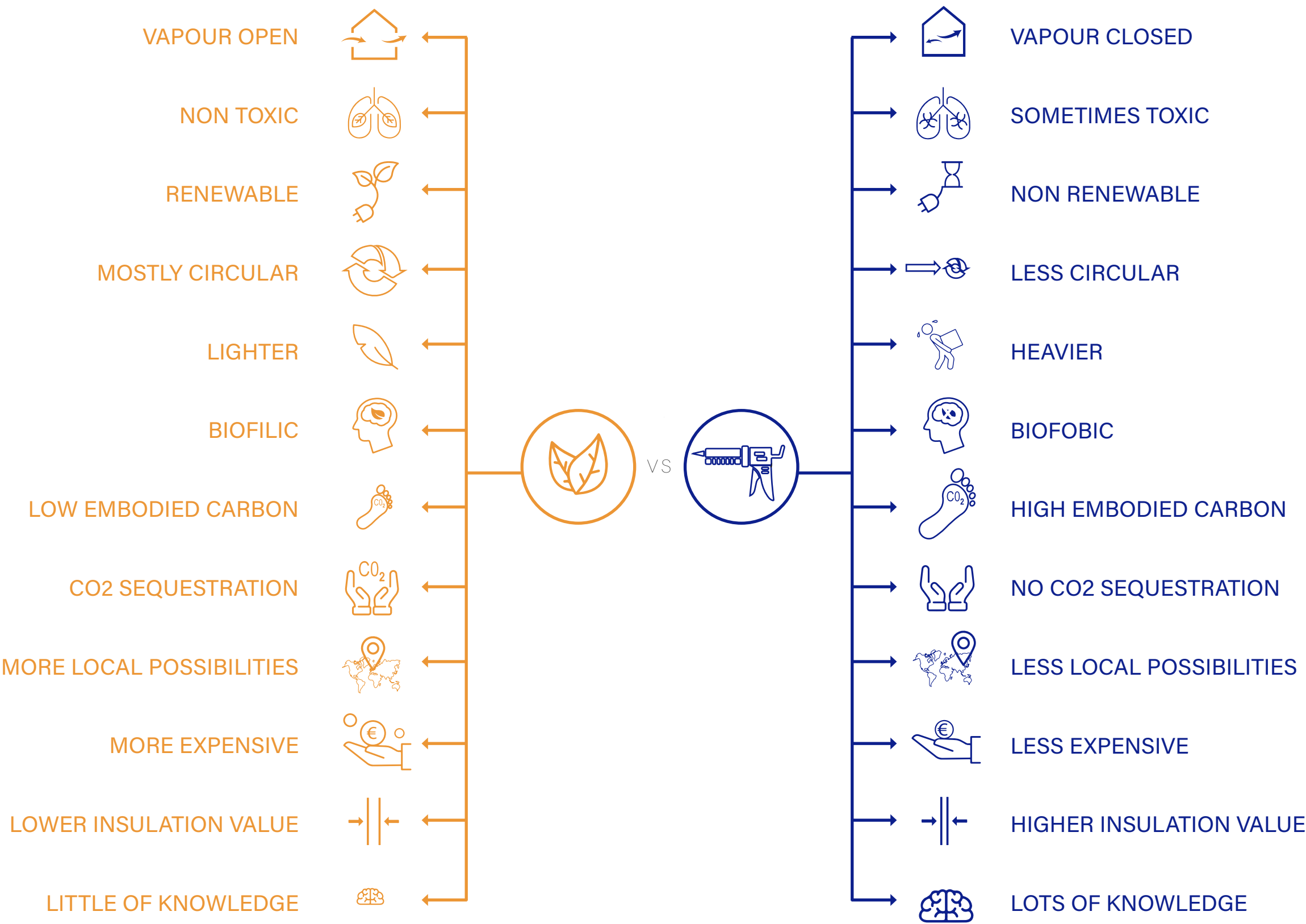


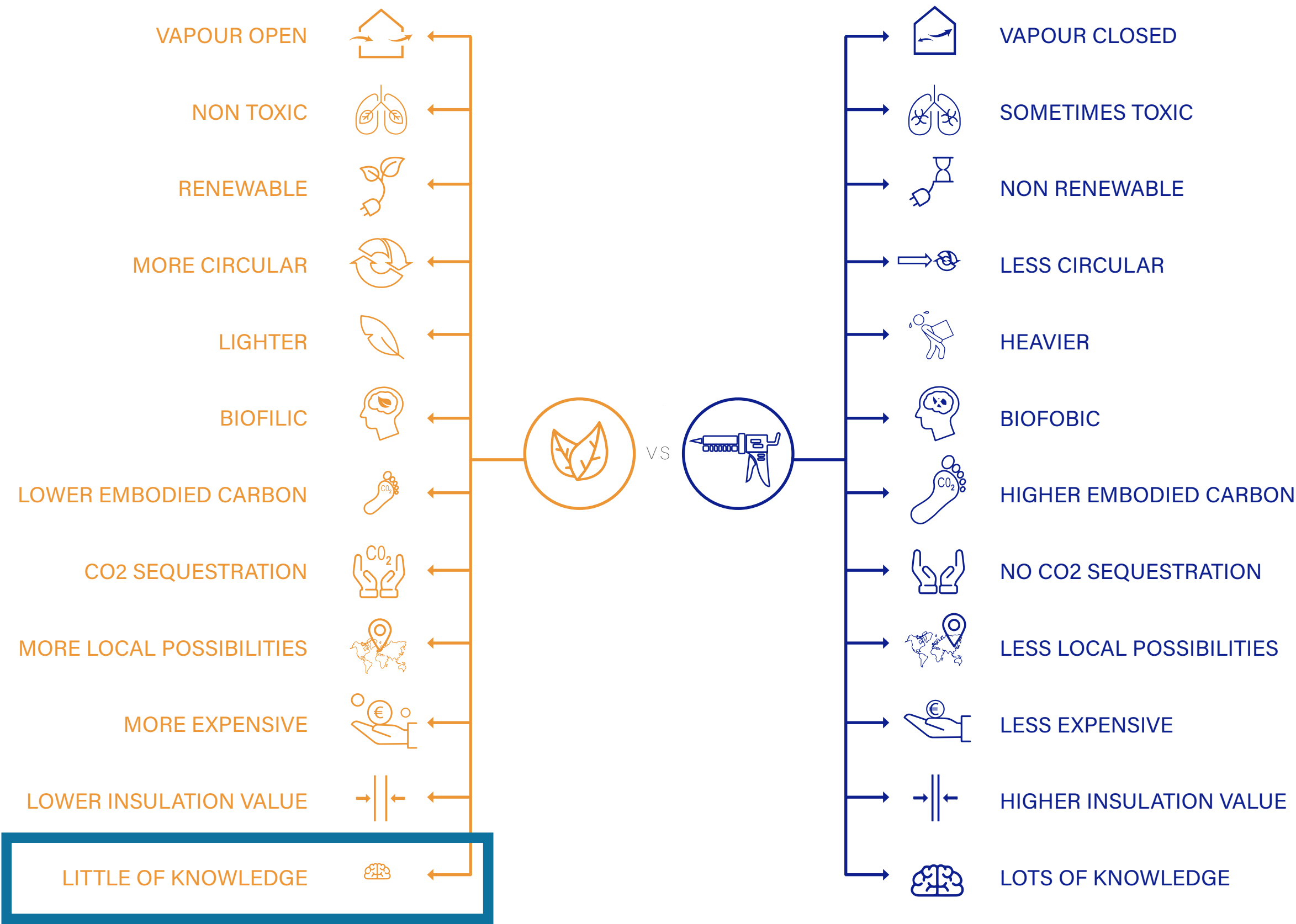
BIOBASED

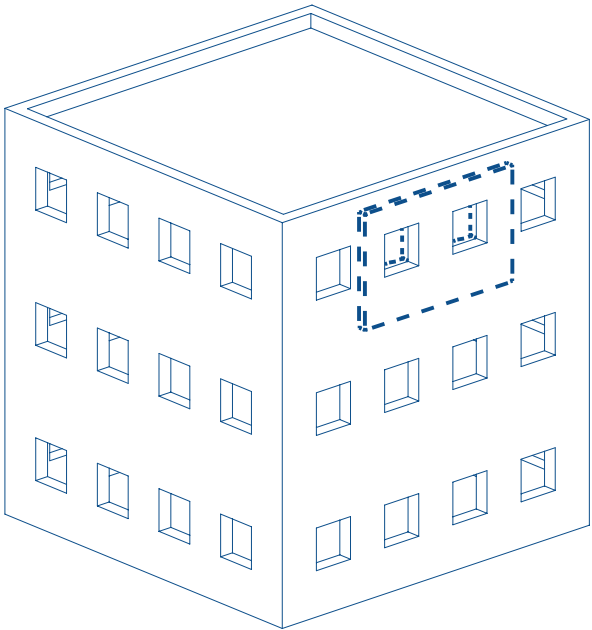
DISTINCTIVE MATERIALS



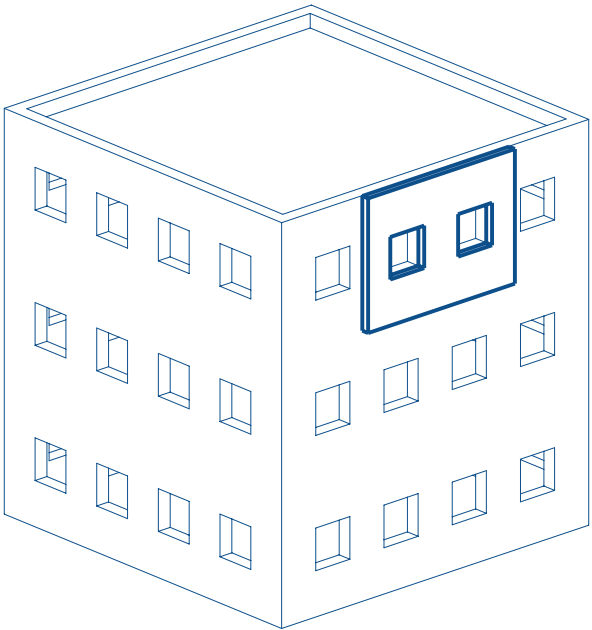
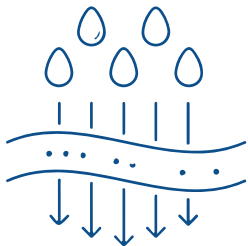




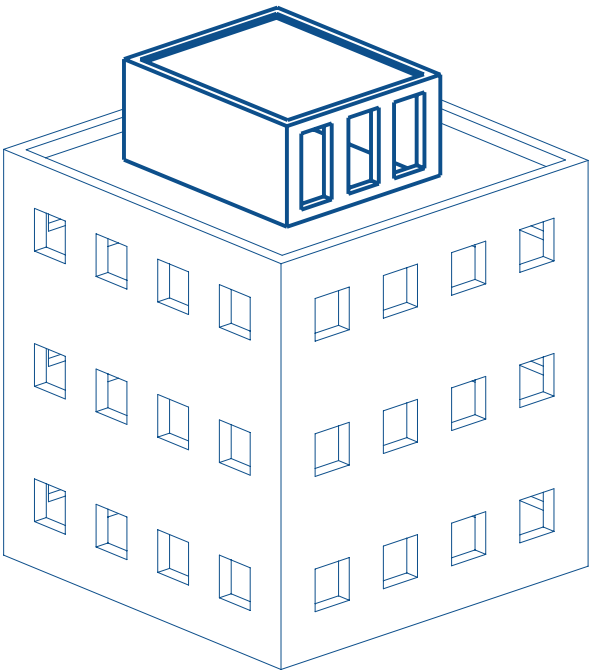
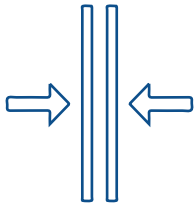




ADD IN

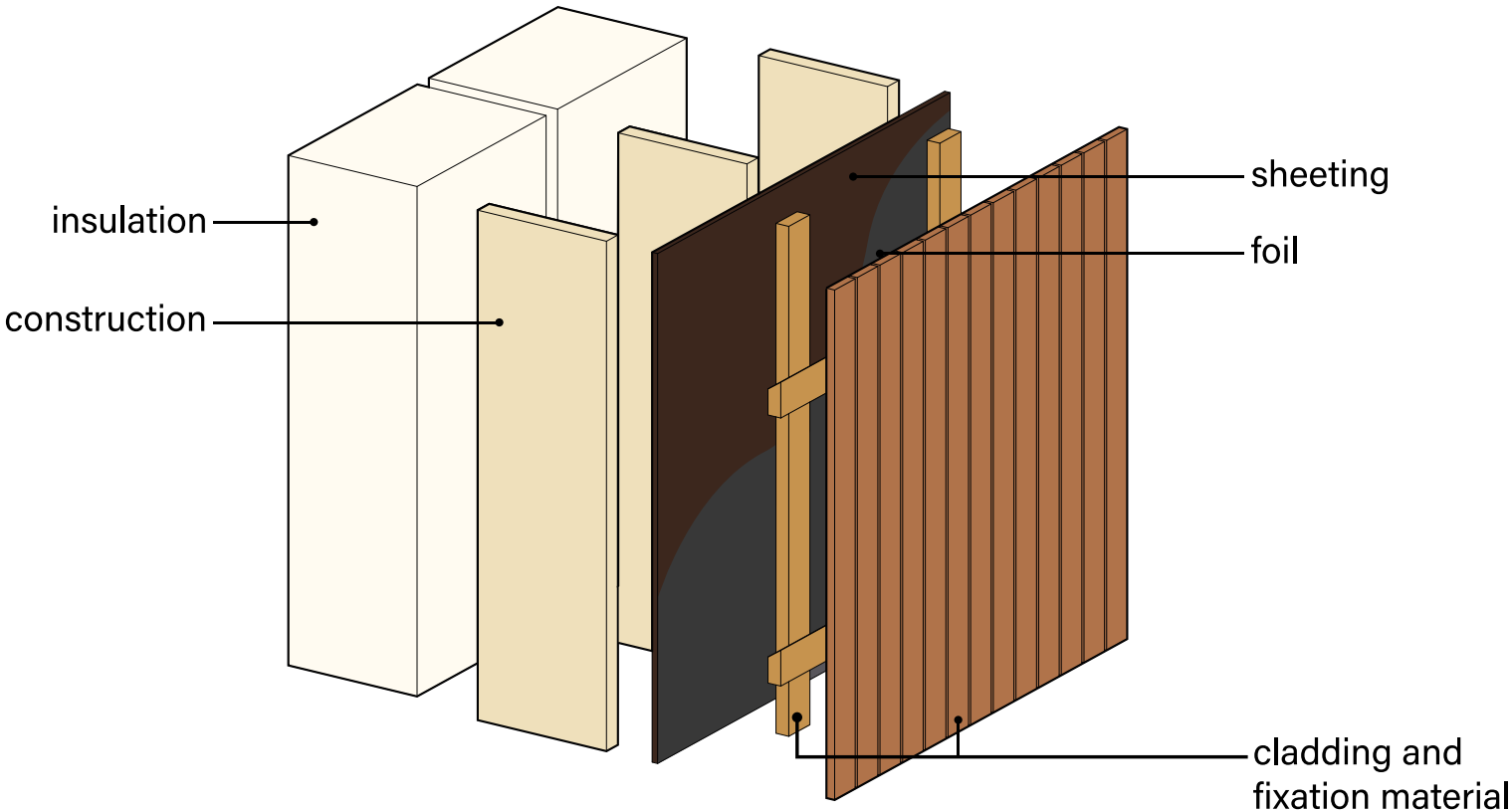


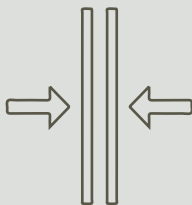
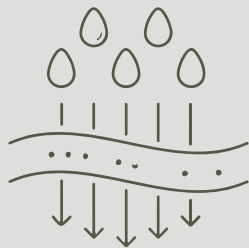
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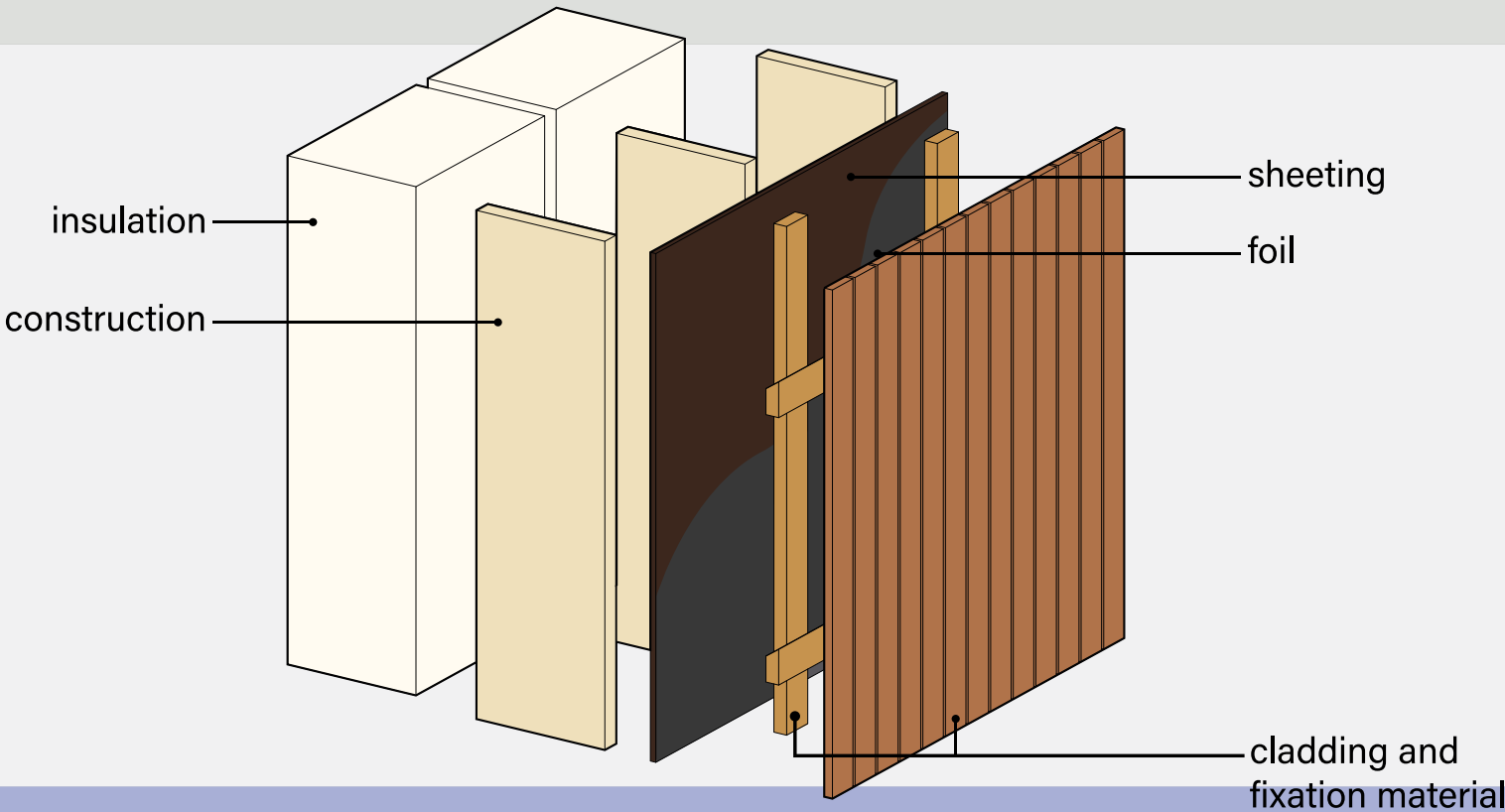
ADD ON



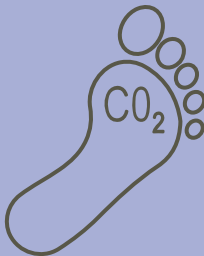
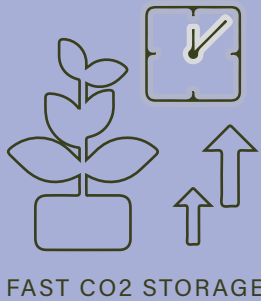




NEEDS



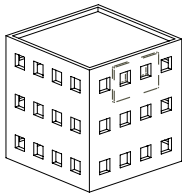
MISCONCEPTION



QUALITIES



PROMISING
RESULTS



ADD IN

FAST CO2 STORAGE

LOW CO2 IMPACT

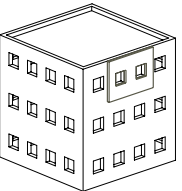
AFFORDABLE

THIN

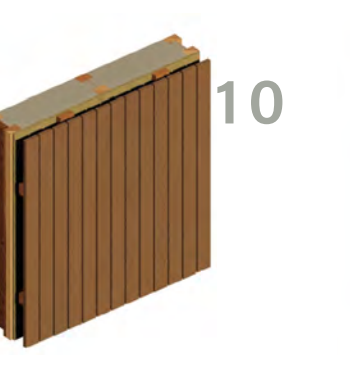
LONG LASTING

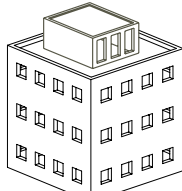
LIGHT





WRAP IT





ADD ON



 = POSSIBLE TO PRODUCE THESE LOCALLY WITH THE EXCEPTION OF THE CONSTRUCTION

1: laminated bamboo construction; hemp insulation **2**: sls fir construction; cellulose insulation **3**: sls fir construction; hemp insulation **4**: I-joist construction; cellulose insulation **5**: sls fir construction; flax insulation **6**: laminated timber construction; hemp insulation **7**: laminated bamboo construction; gramitherm insulation; ecoboard; ventilating wooden battens; moso bamboo xtreme **8**: sls fir construction; blow in straw insulation; dura panel sheeting; ventilating wooden battens; thermo treated poplar wood **9**: sls fir construction; blow in straw insulation; agepan dwd black sheeting; thermo treated poplar wood **10**: I-joist construction; cellulose insulation; agepan dwd black sheeting; ventilated wooden battens; thermo treated nobelwood **11**: sls fir construction; blow in straw insulation; ecoboard sheeting; ventilated wooden battens; moso bamboo xtreme **12**: laminated timber construction; jute insulation; agepan dwd black sheeting; ventilating wooden battens; thermo treated nobelwood **13**: laminated bamboo construction; gramitherm insulation; ecoboard sheeting; ventilating wooden battens; moso bamboo xtreme **14**: sls fir construction; straw bale insulation; dura panel sheeting; ventilating wooden battens; thermo treated poplar wood **15**: sls fir construction; straw bale insulation; mdf sheeting; ventilated wooden battens; thermo treated nobelwood **16**: I-joist construction; gramitherm insulation; agepan dwd black sheeting; ventilated wooden battens; thermo treated poplar wood **17**: CLT sandwich panel construction; blow in straw insulation; ventilated wooden battens; burned black wood **18**: laminated timber construction; jute insulation; agepan dwd black sheeting; ventilating wooden battens; burned black wood

24/85

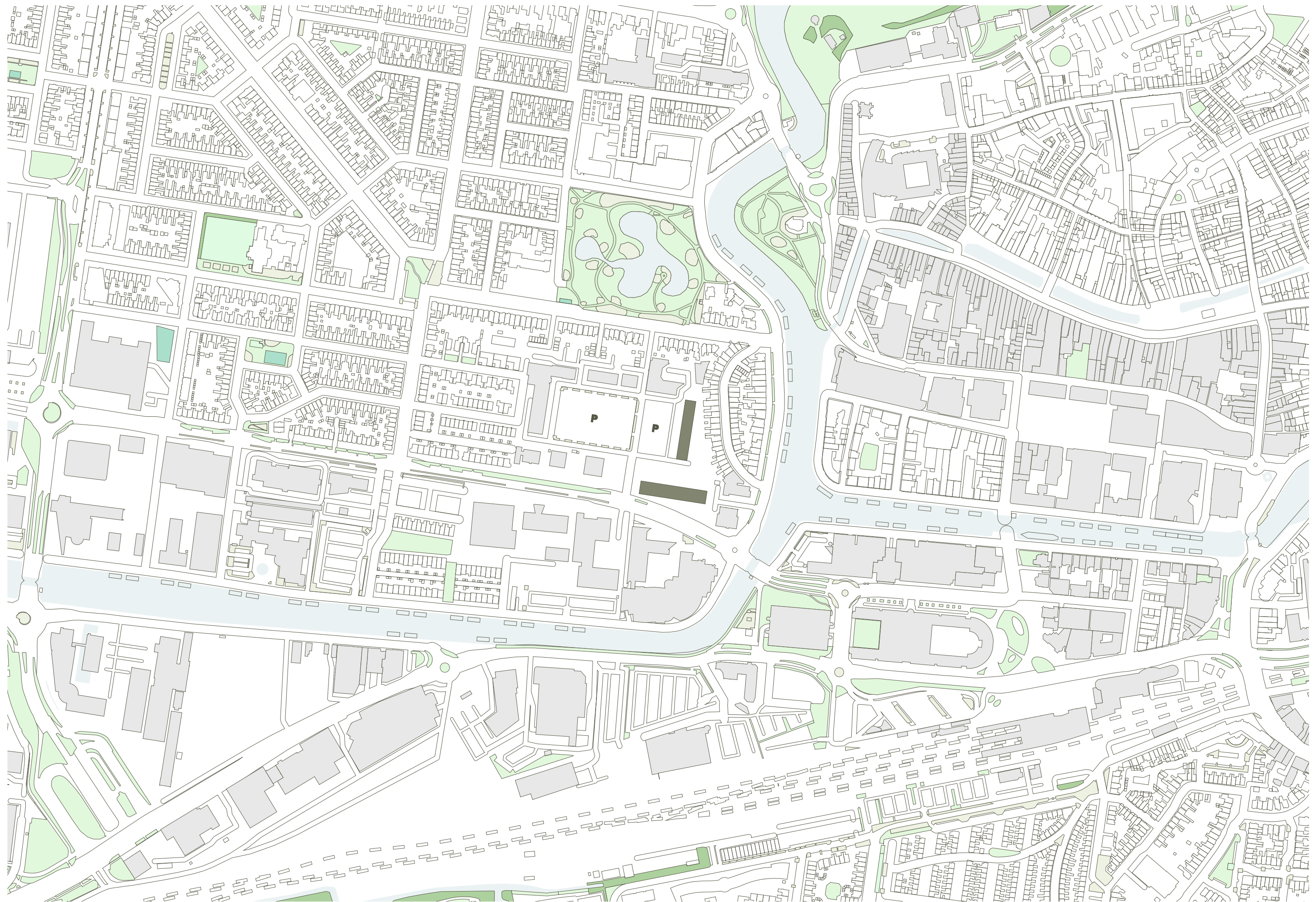
IMPLEMENTATION FIELD

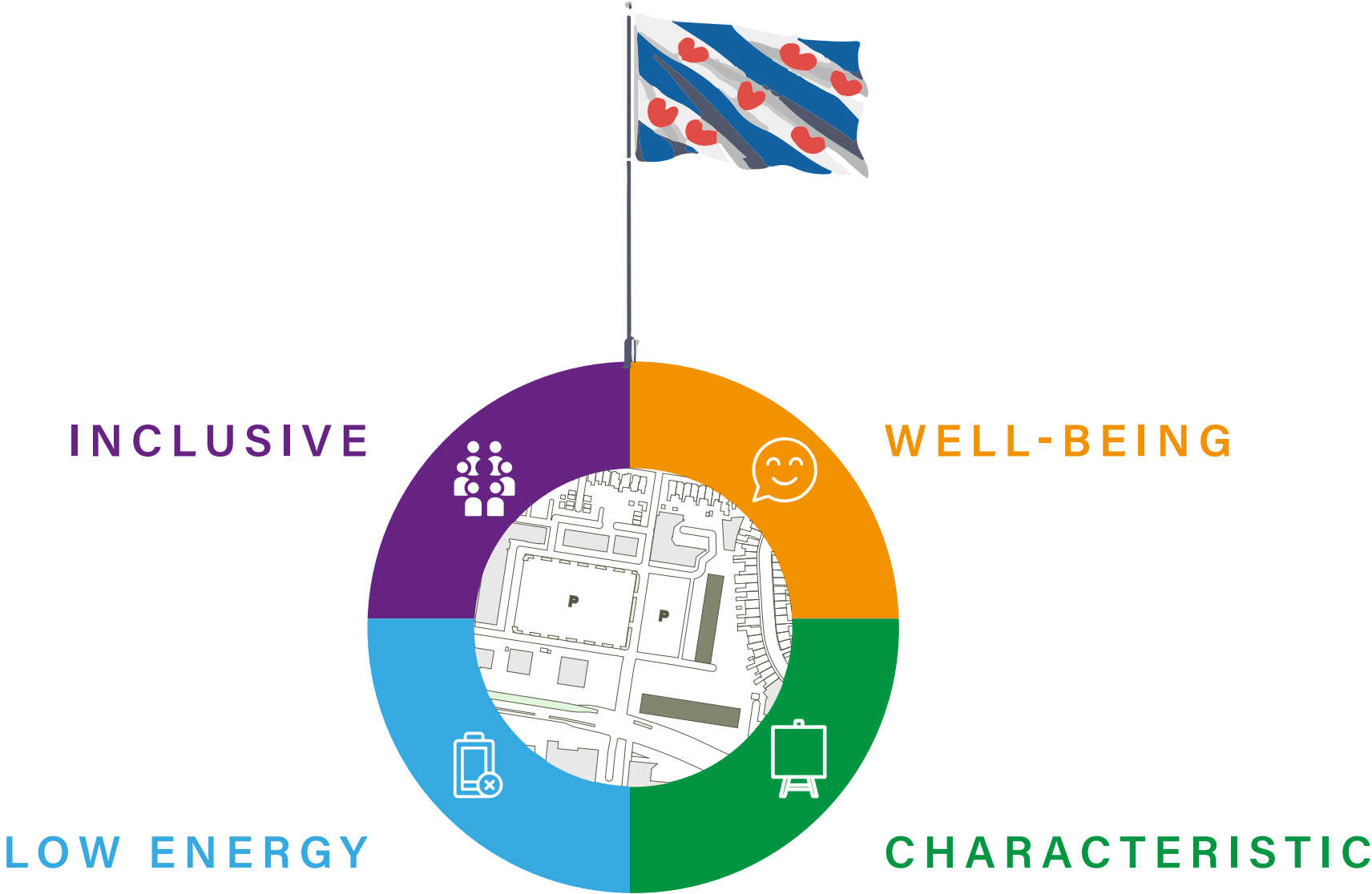


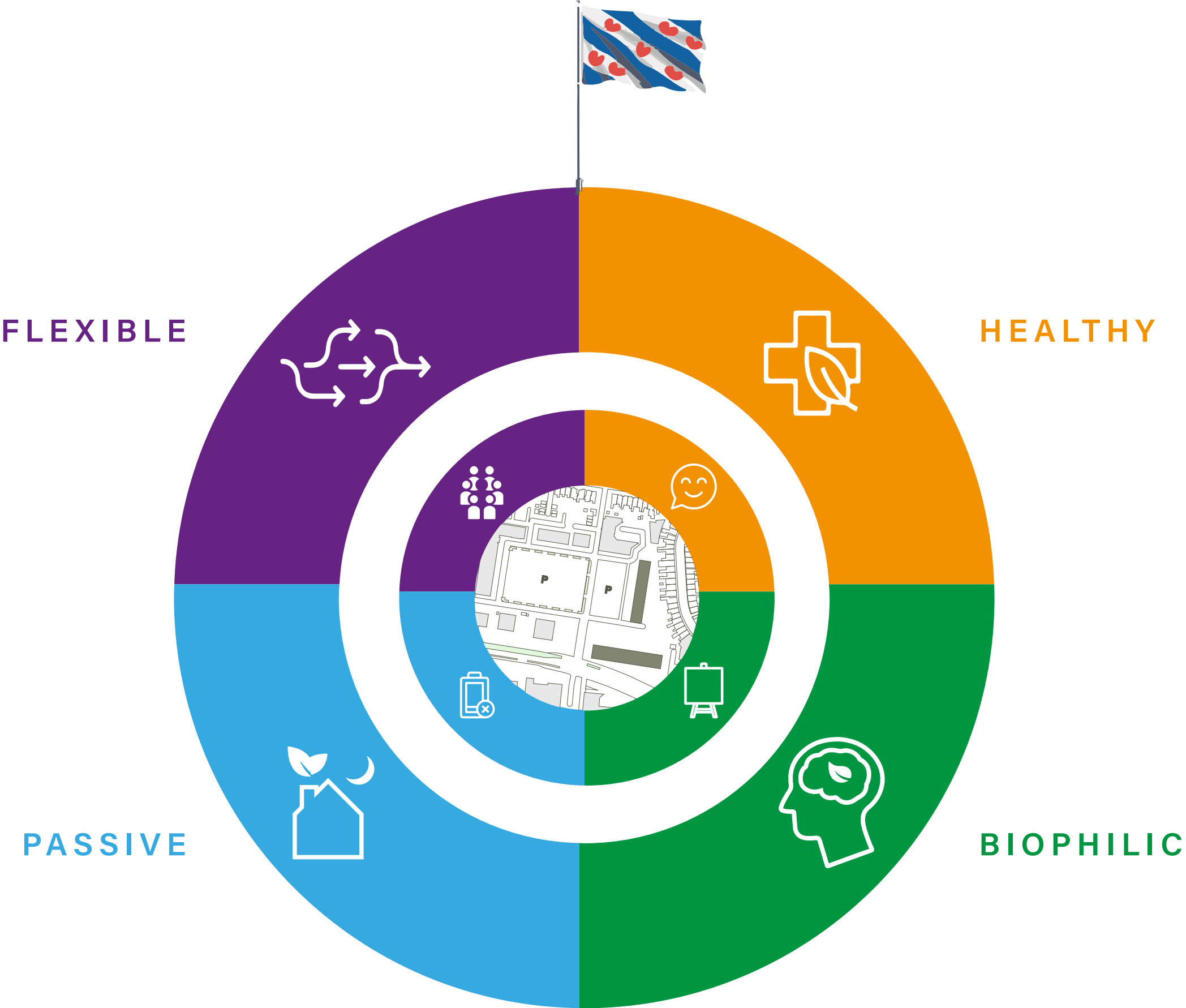




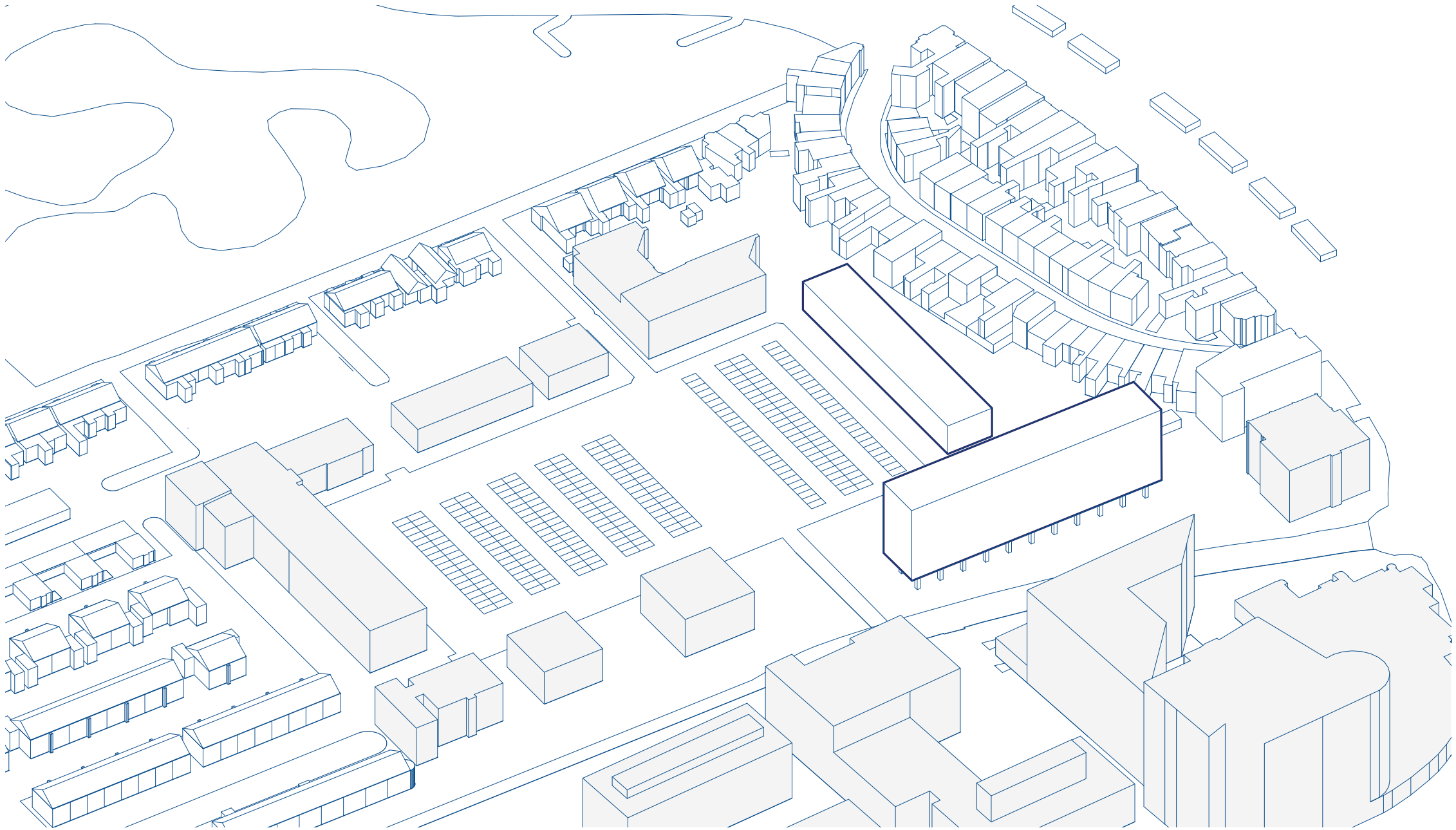




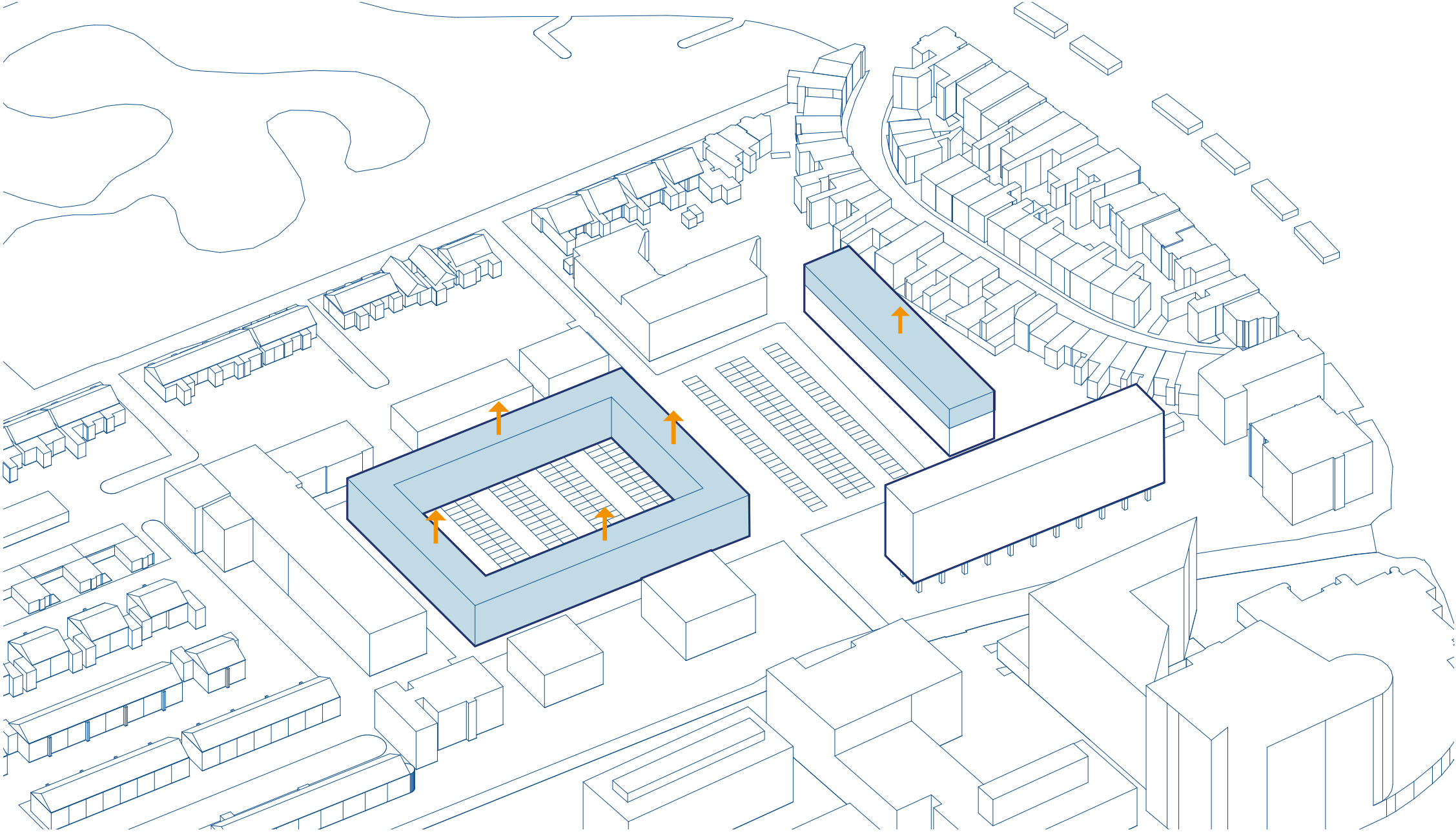




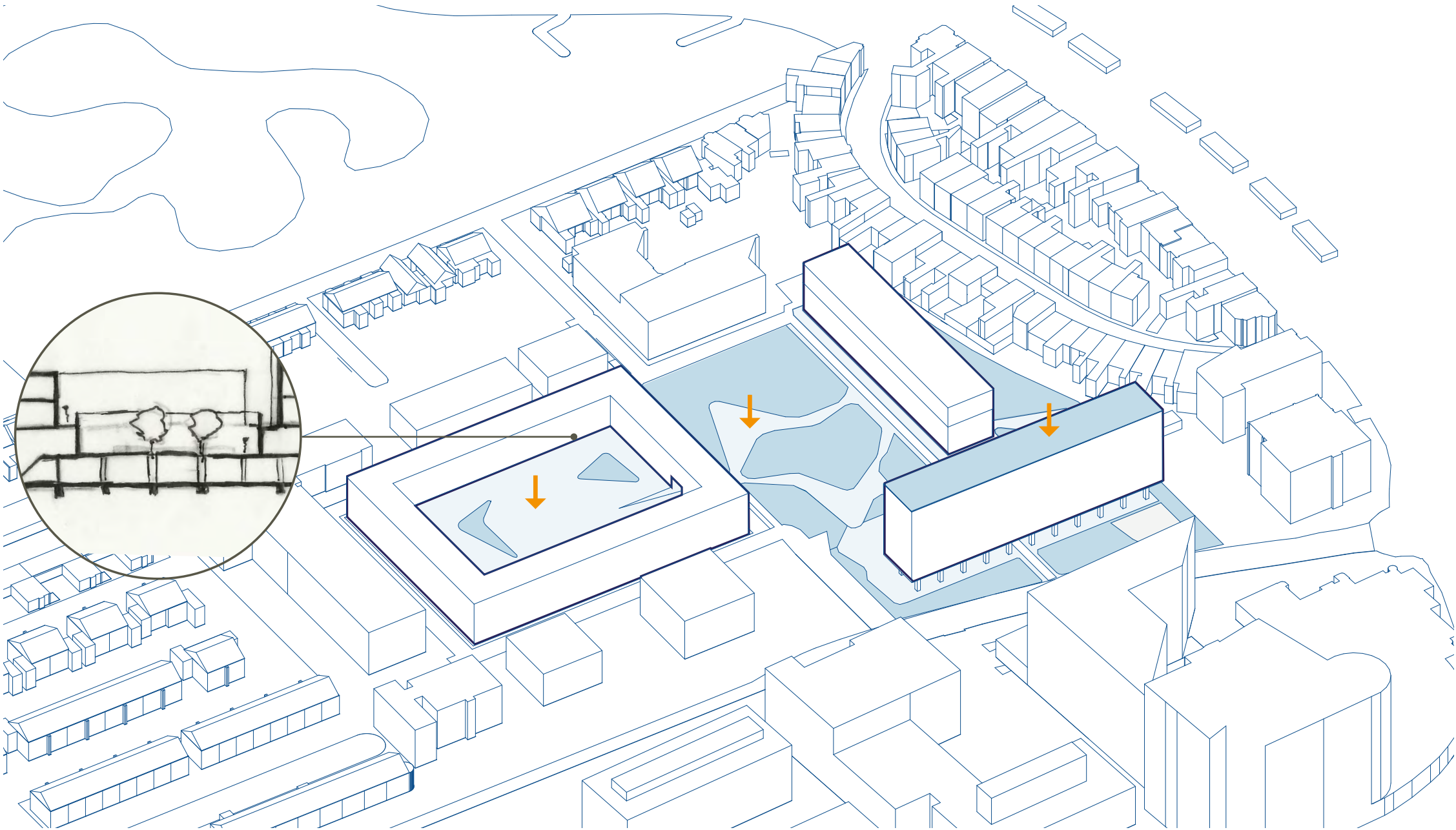
CONTEXT



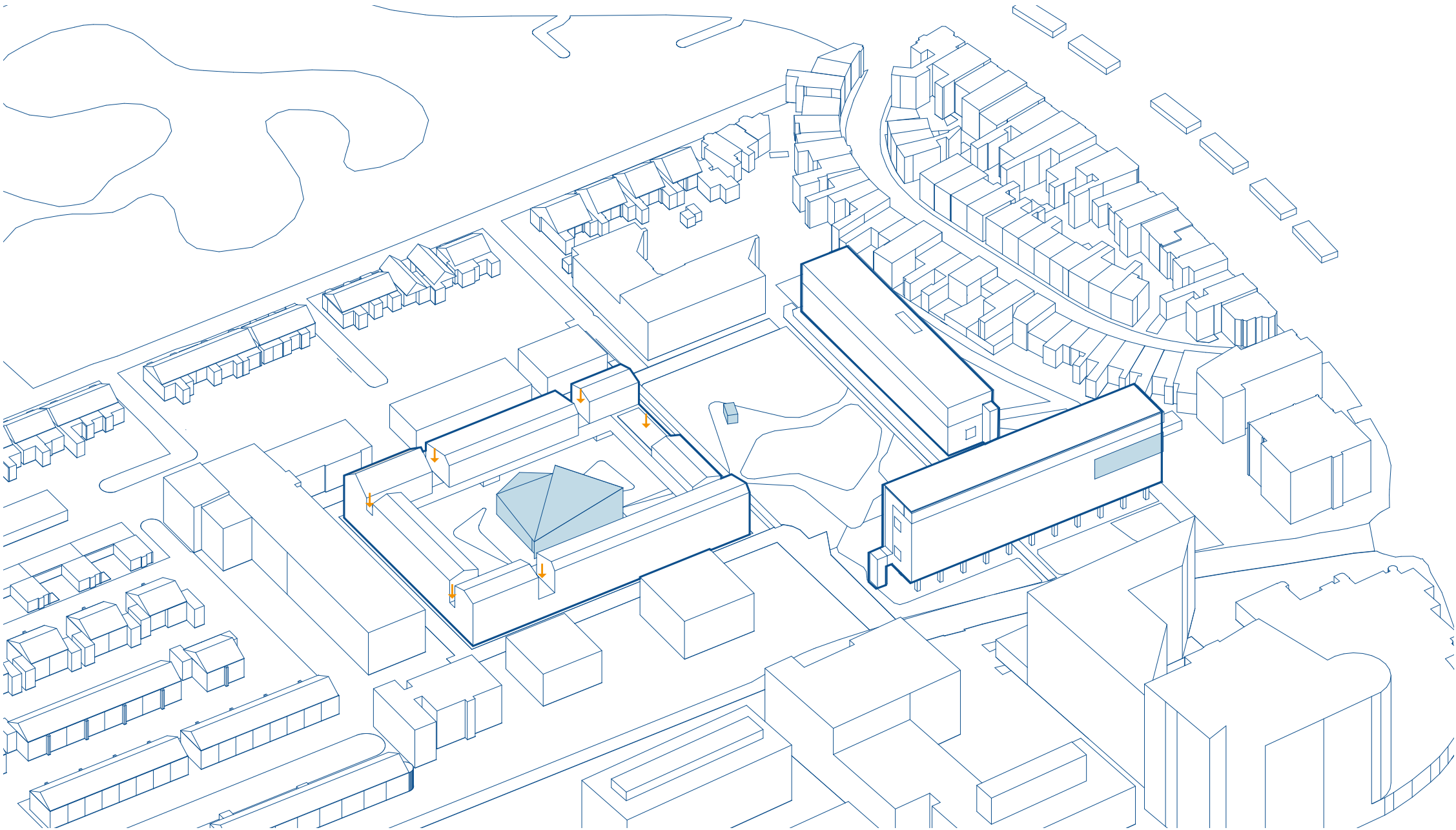
UNSAFE AND UNPLEASANT AREA



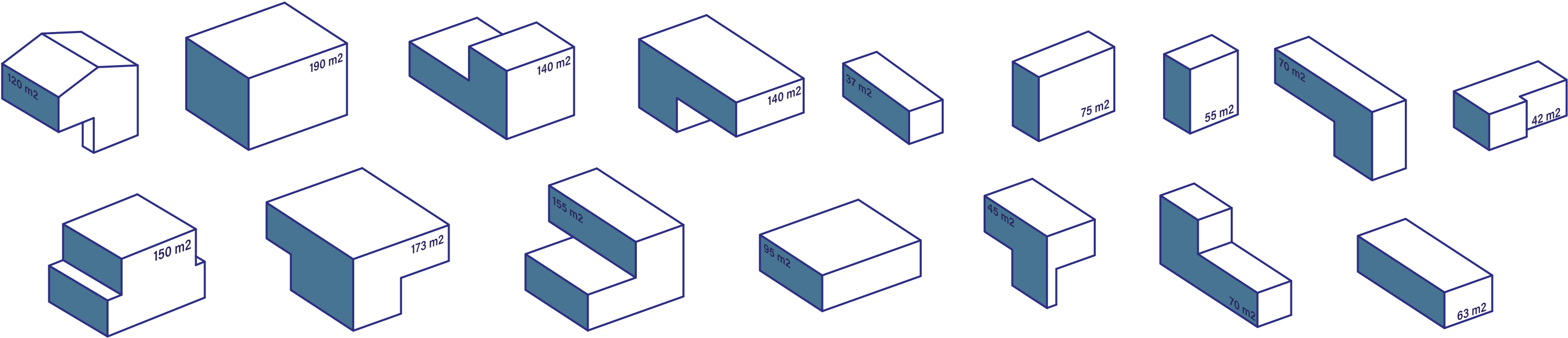
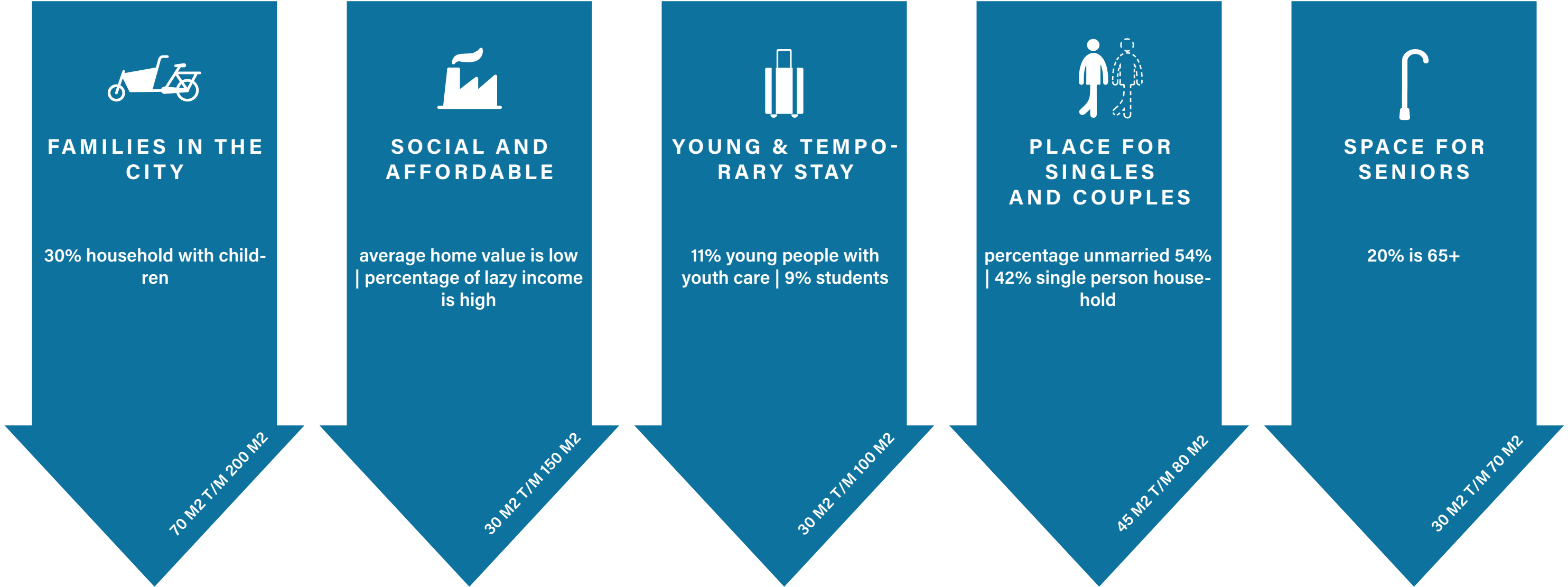
MASS ADDING

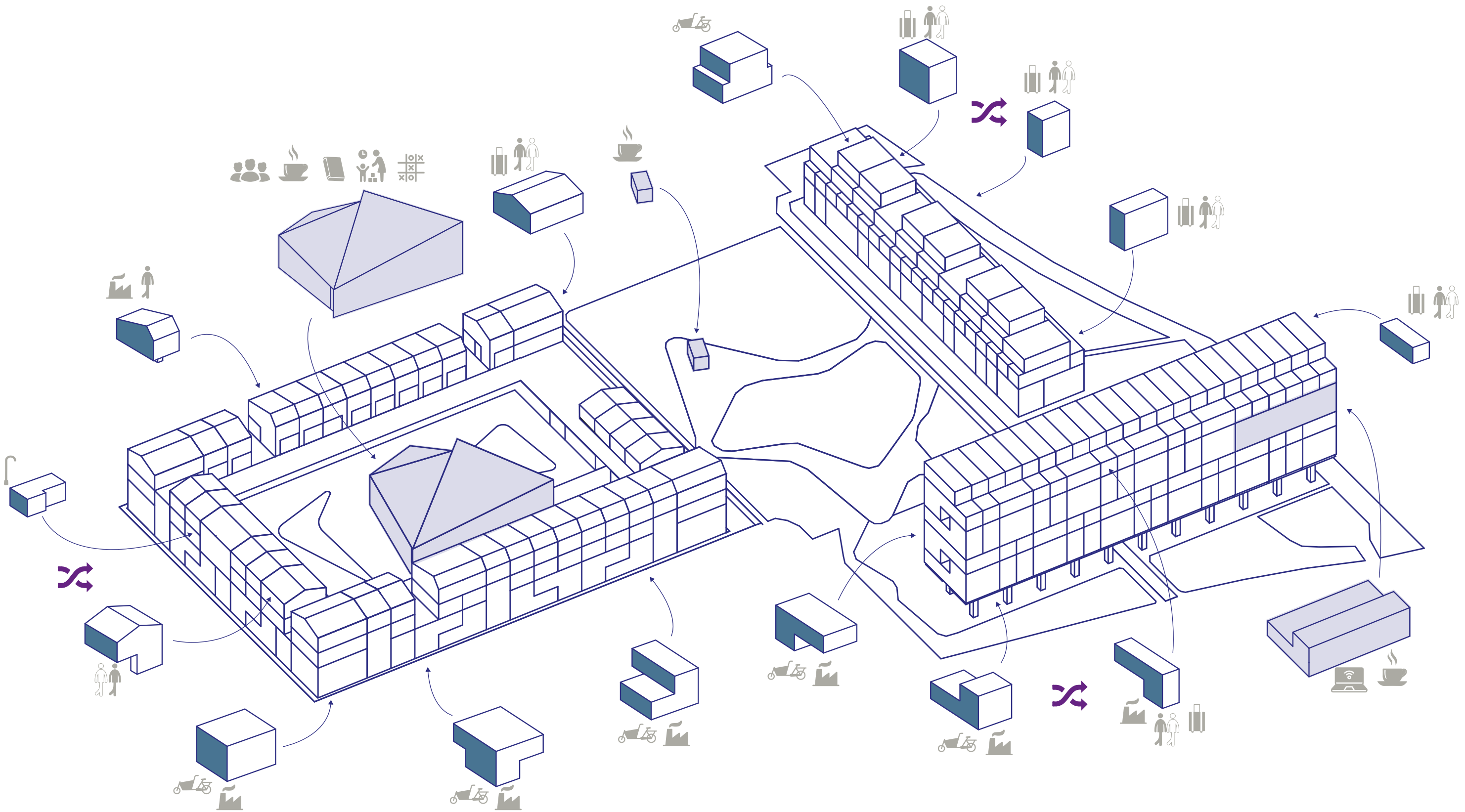


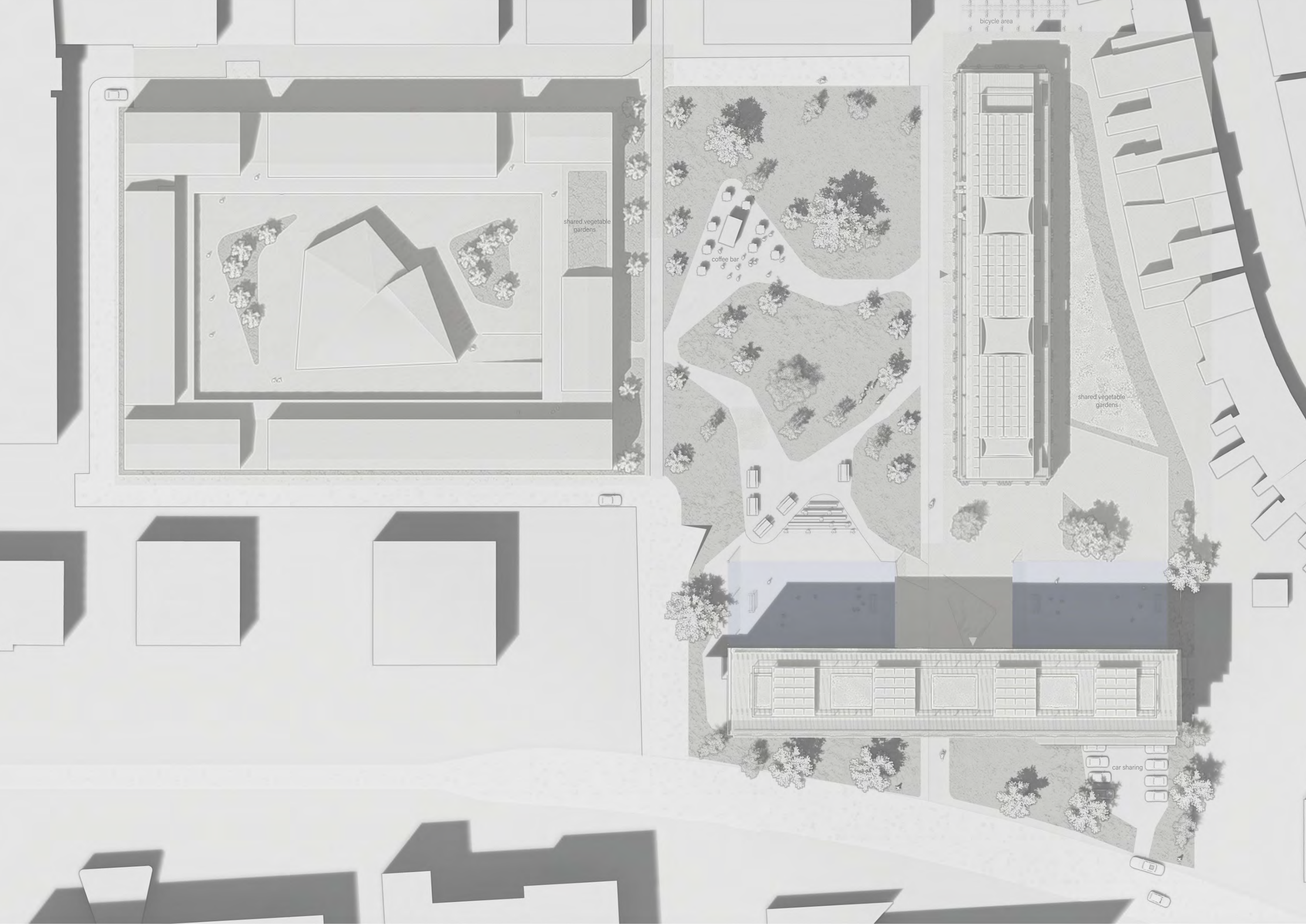
COLLECTIVE EXTERIORS



REDEFINING SHAPE







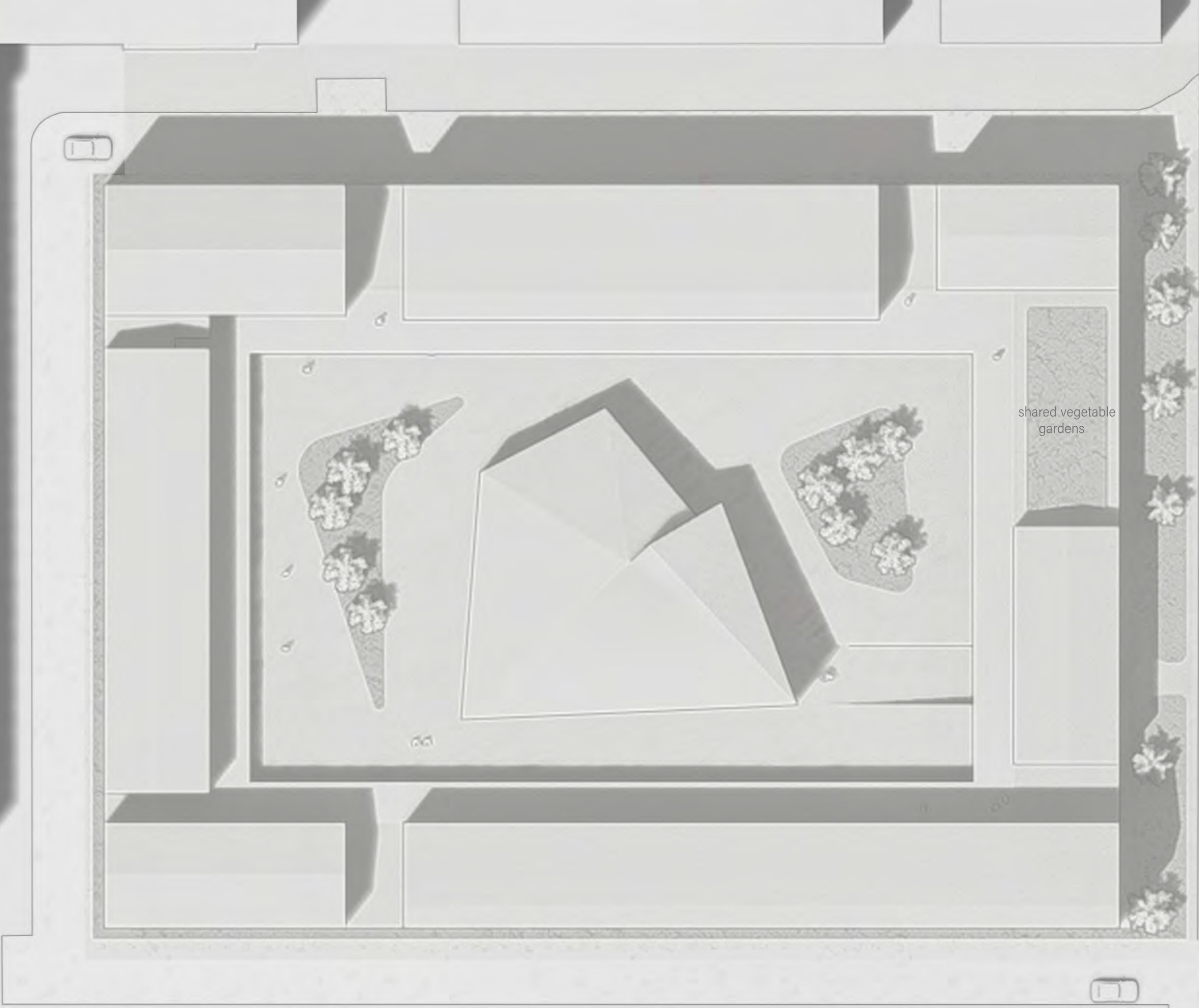
shared vegetable gardens

coffee bar

shared vegetable gardens

car sharing

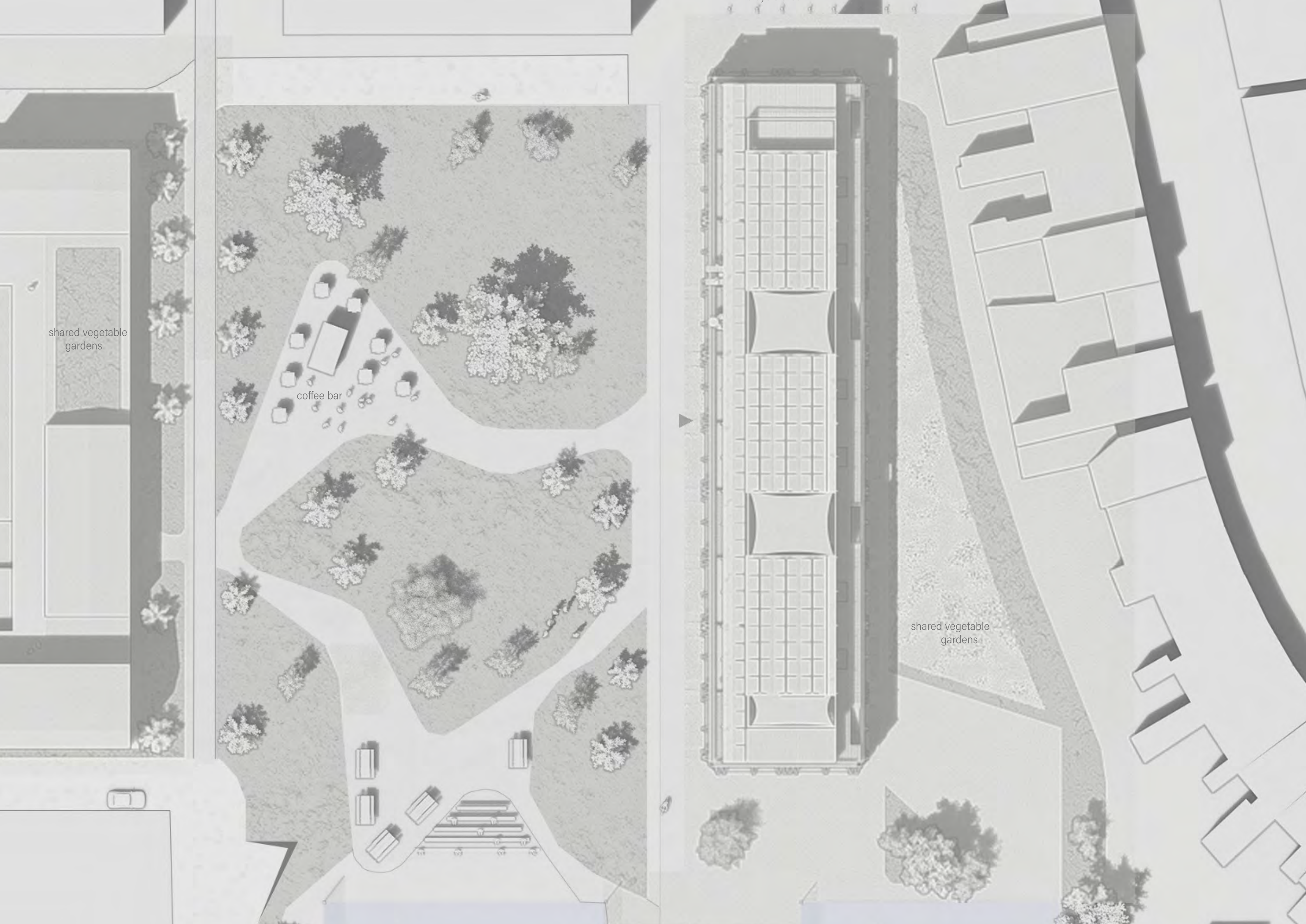
bicycle area



shared vegetable
gardens



coffee bar



shared vegetable
gardens

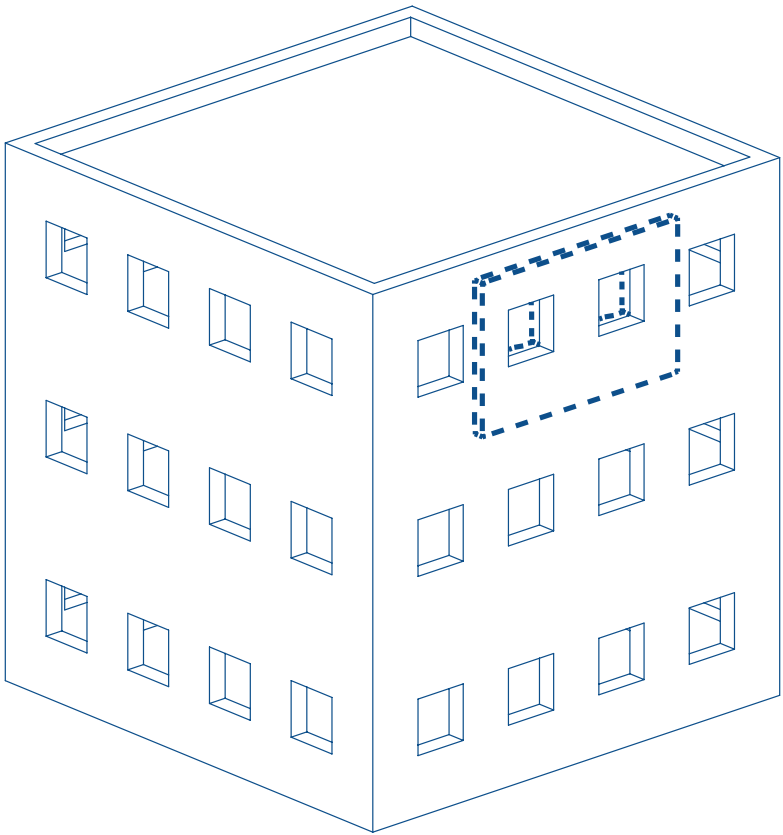
coffee bar

shared vegetable
gardens

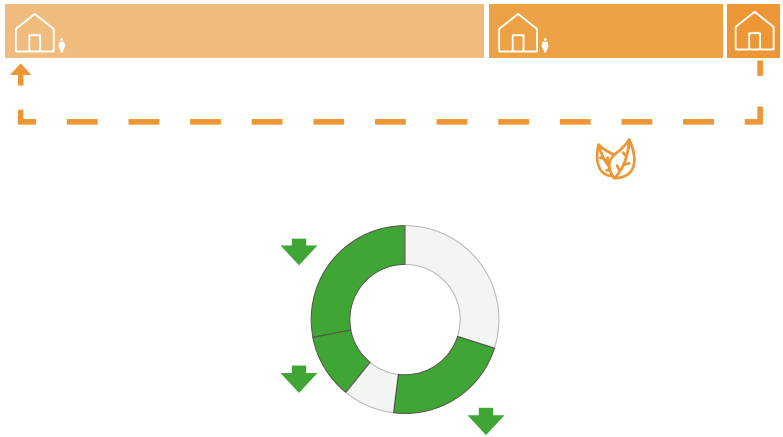


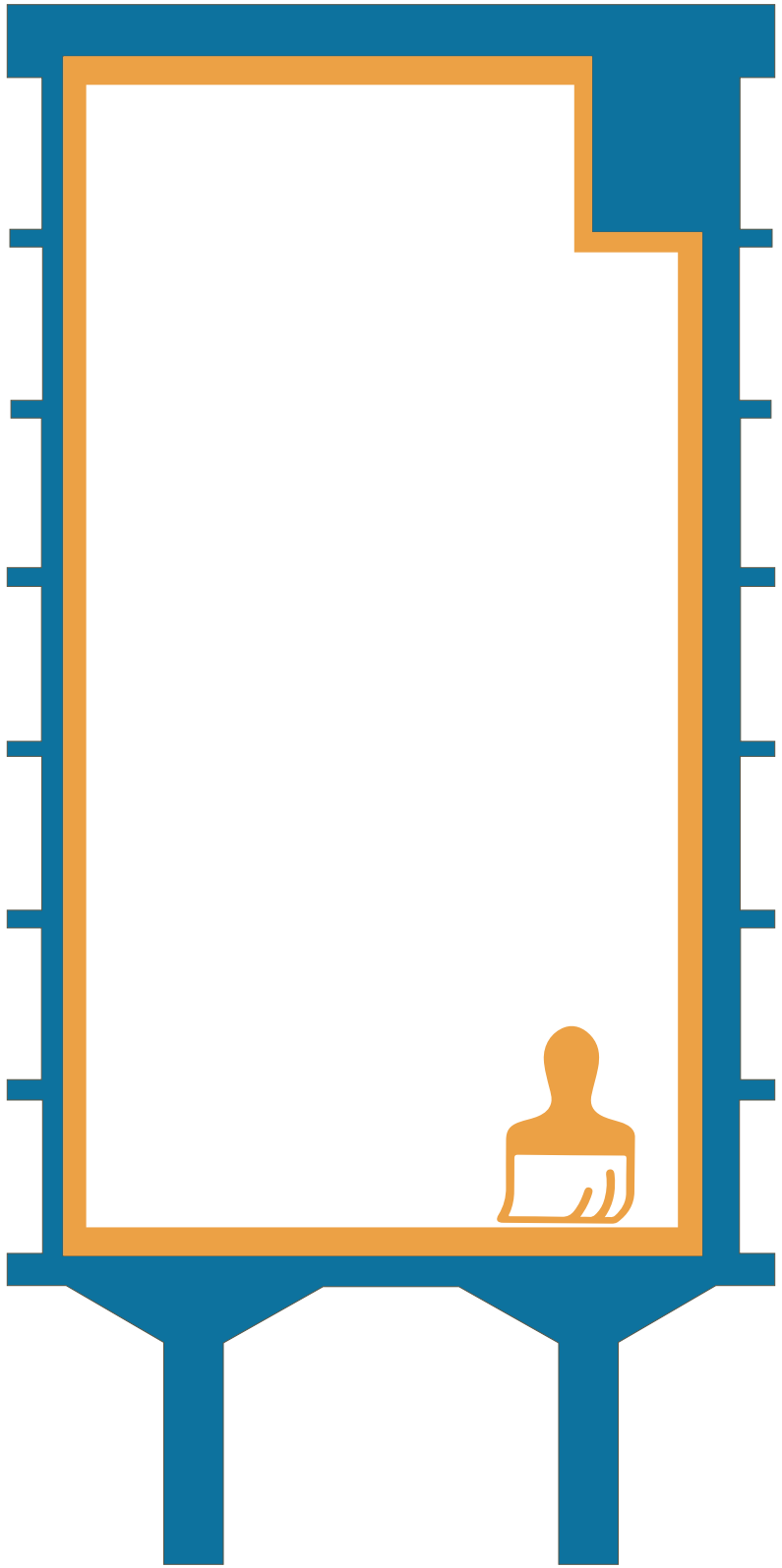
shared vegetable
gardens

car sharing



ADD IN







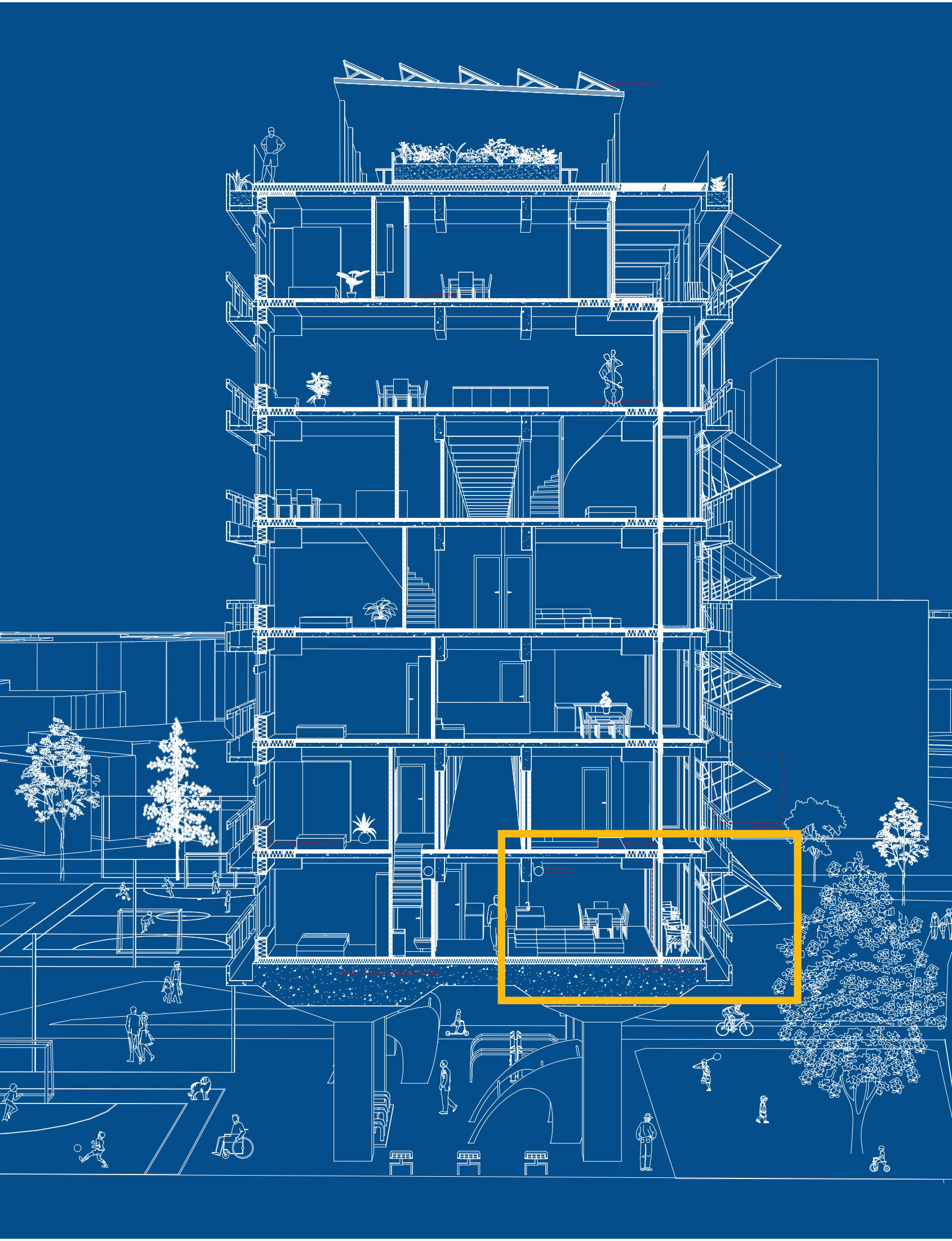


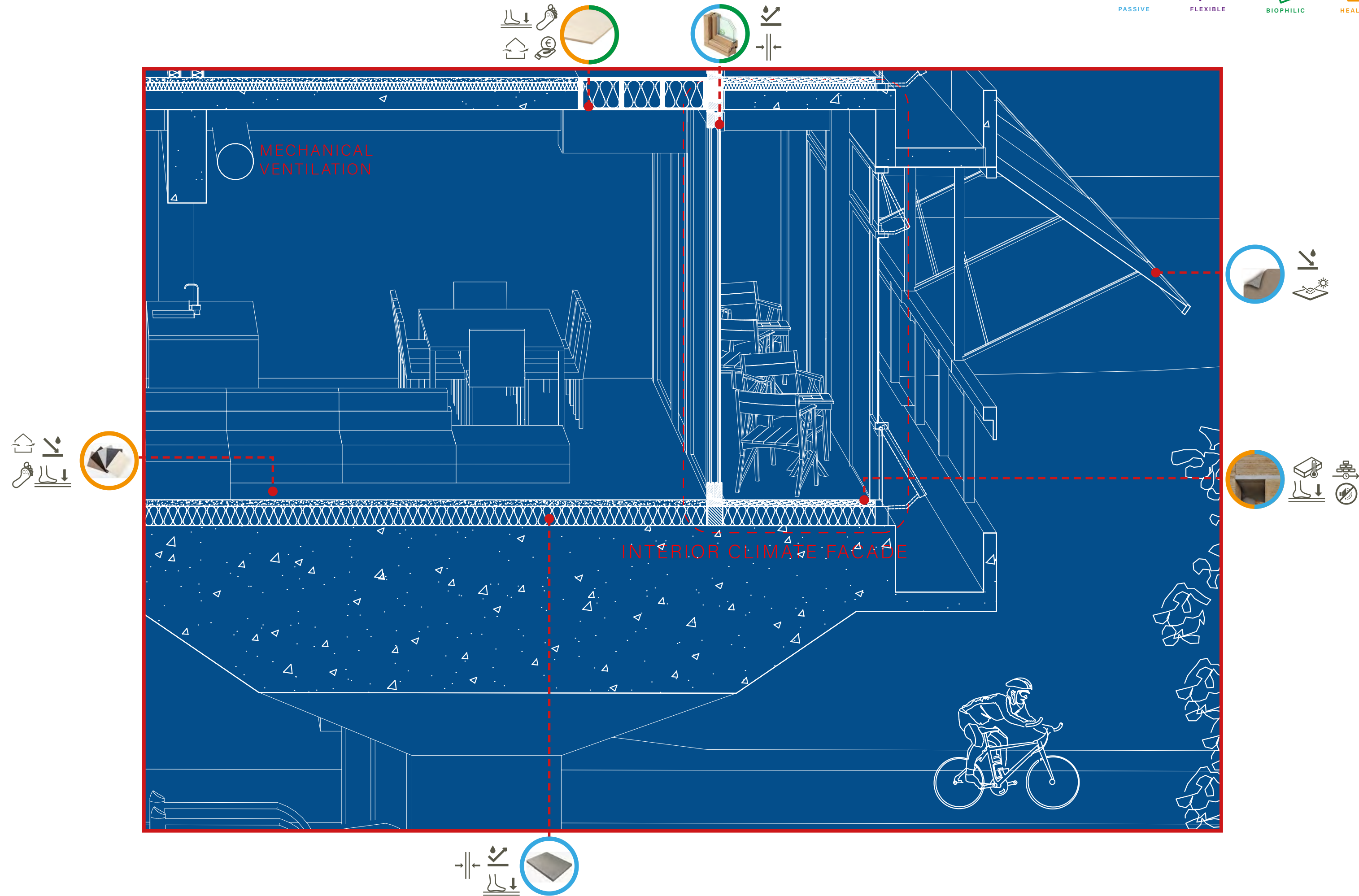








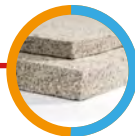
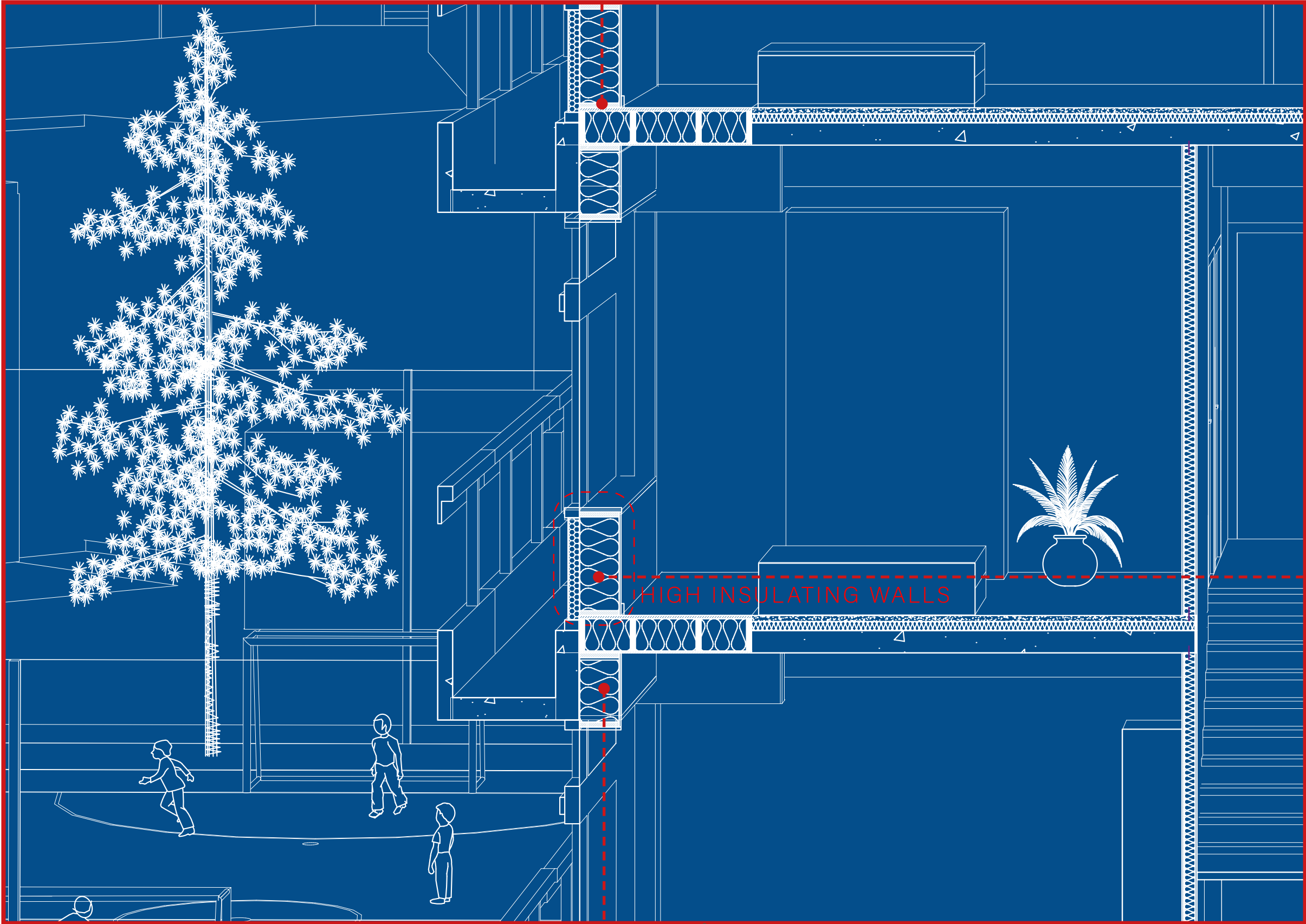






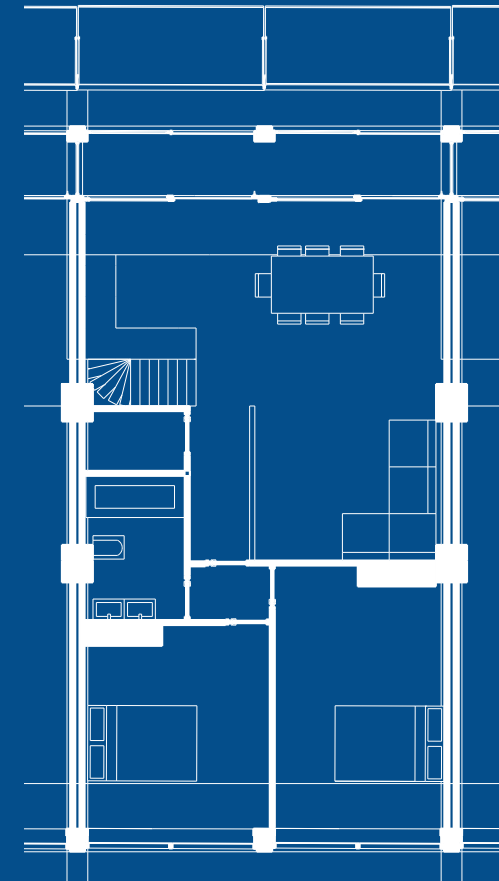
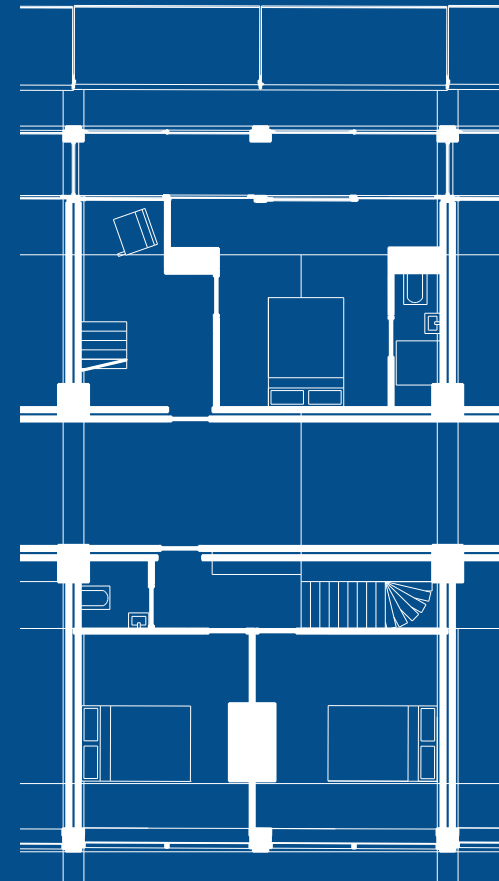
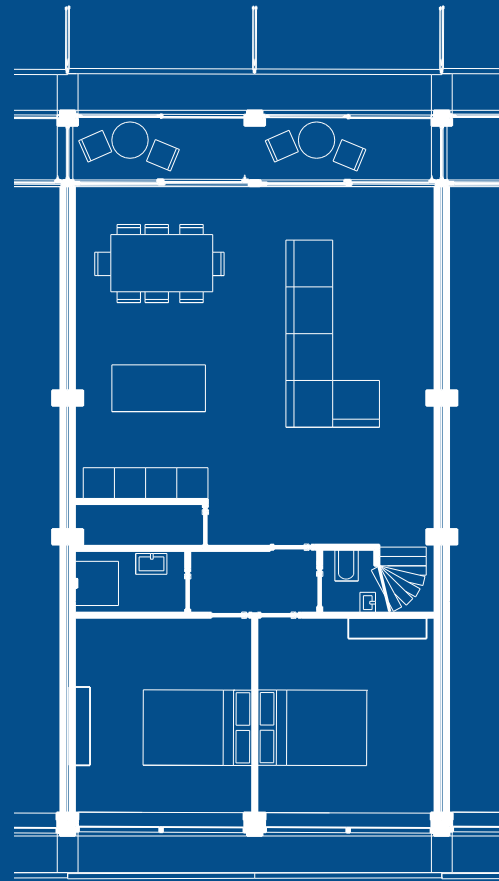




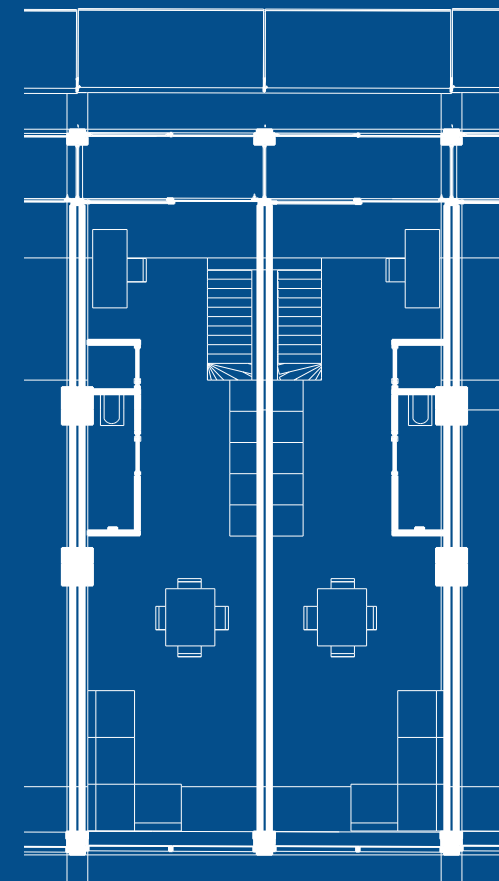
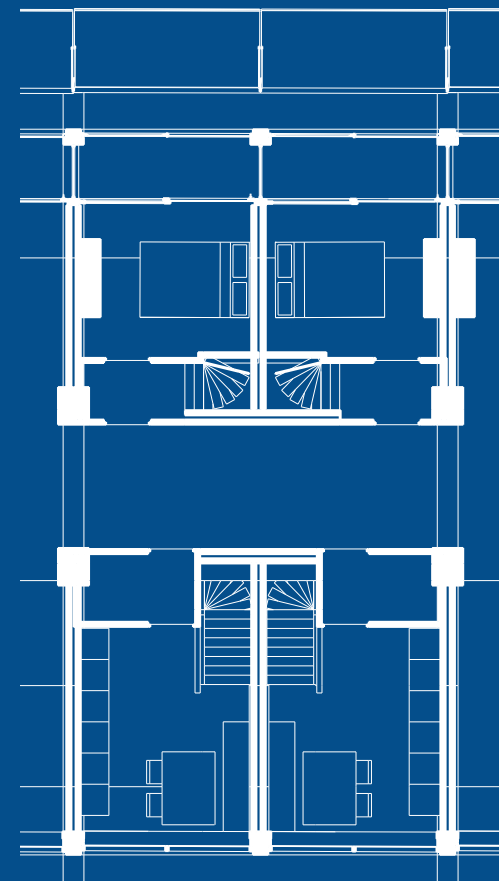
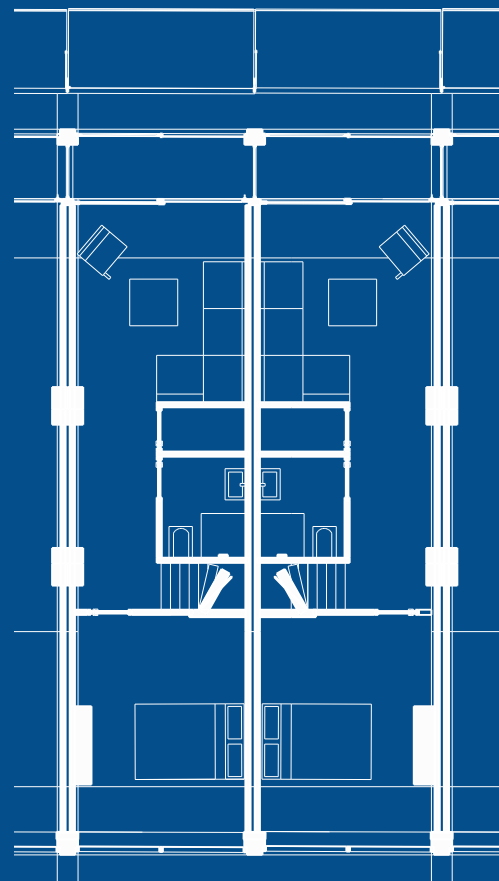




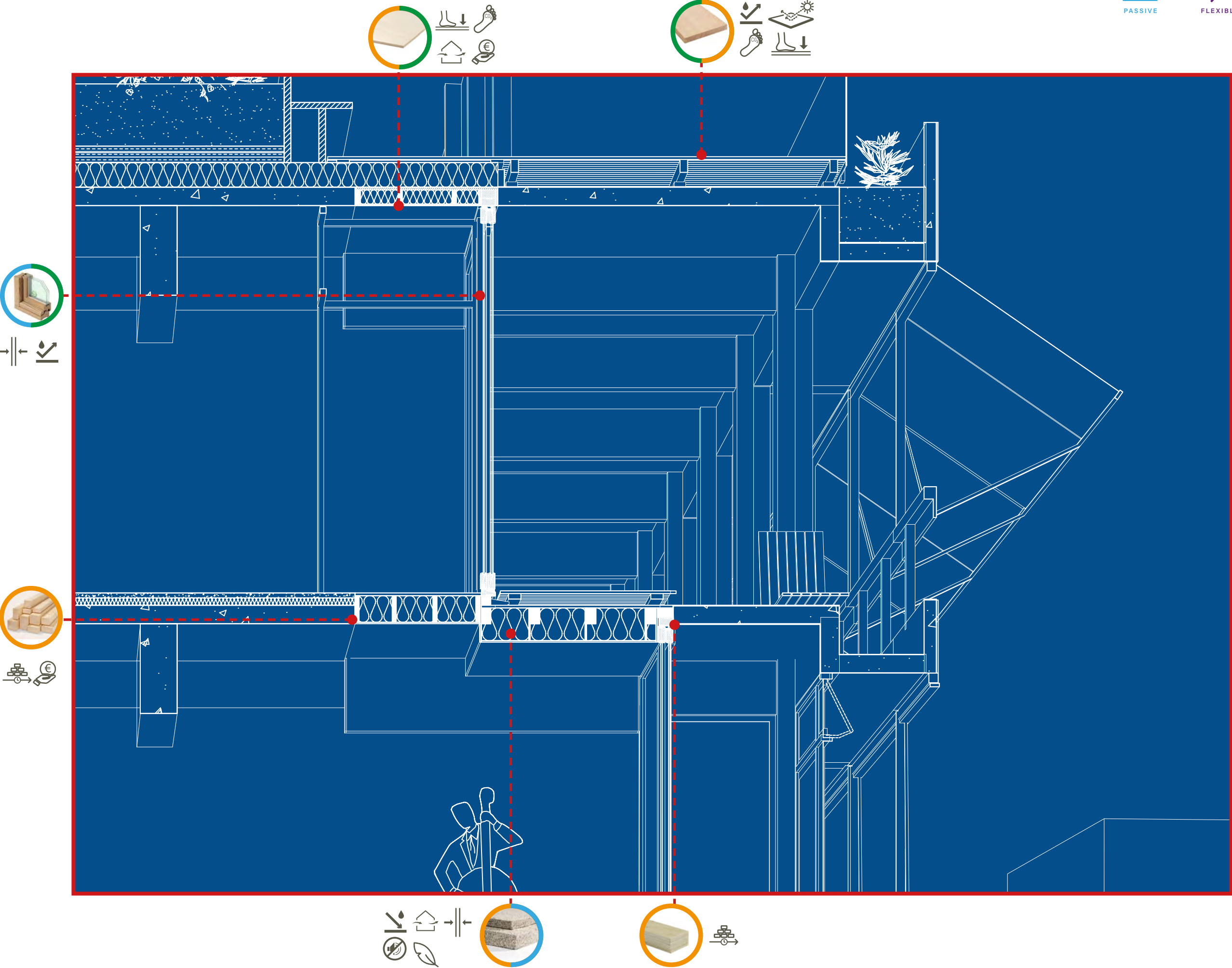
TWO APPARTEMENTS



FOUR APPARTEMENTS

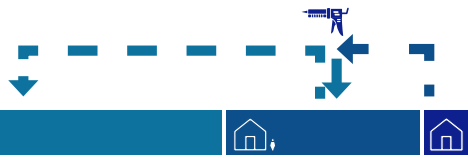




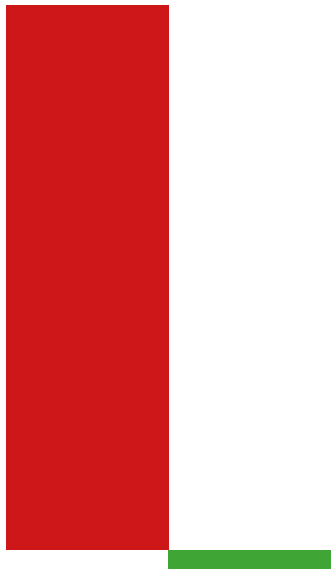




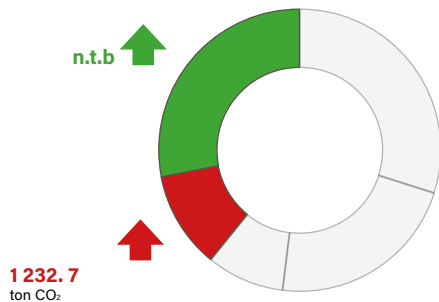




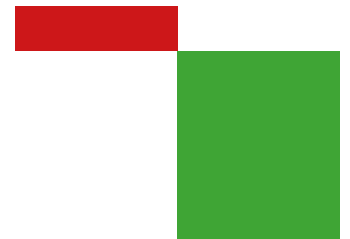
Emmited carbon: **1 282. 7** ton CO₂
Sequestrated carbon: **45. 7** ton CO₂



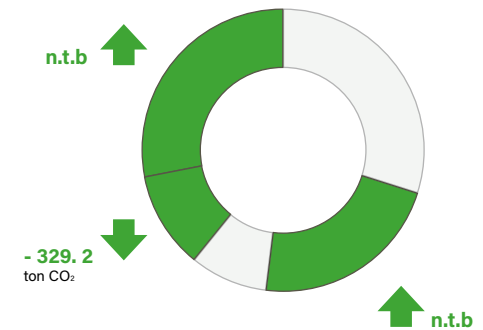
Netto impact: **1 232. 7** ton CO₂

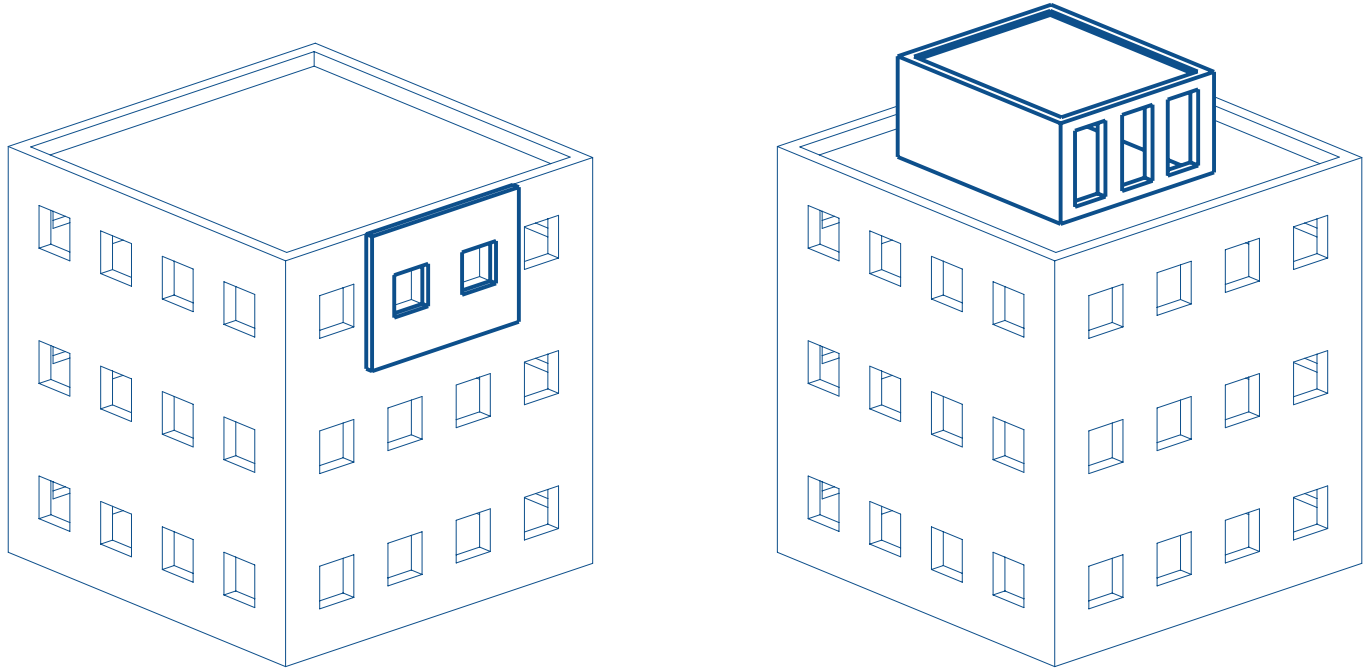


Emmited carbon: **104. 9** ton CO₂
Sequestrated carbon: **434. 2** ton CO₂



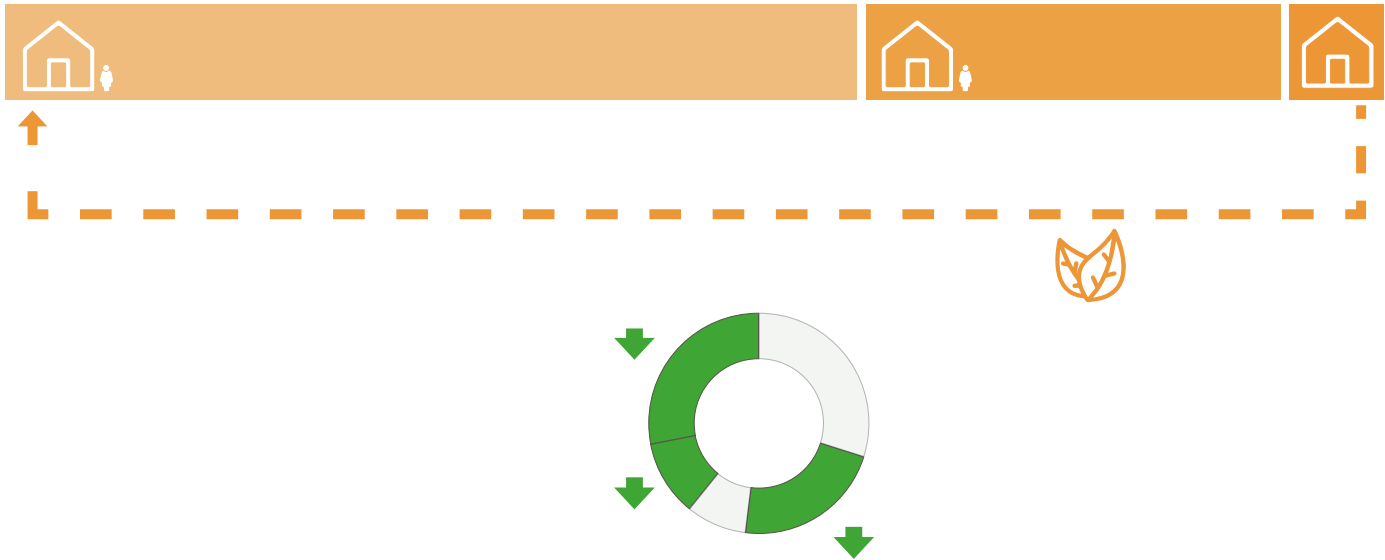
Netto impact: **- 329. 2** ton CO₂

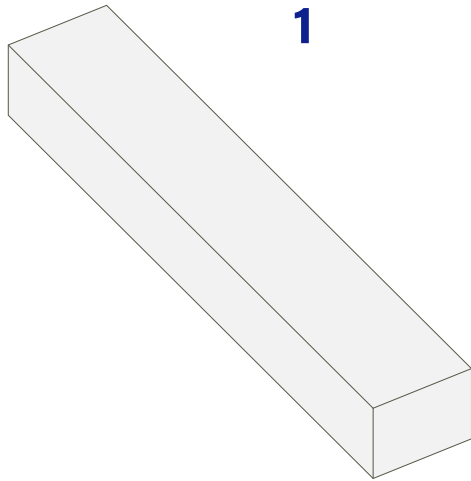




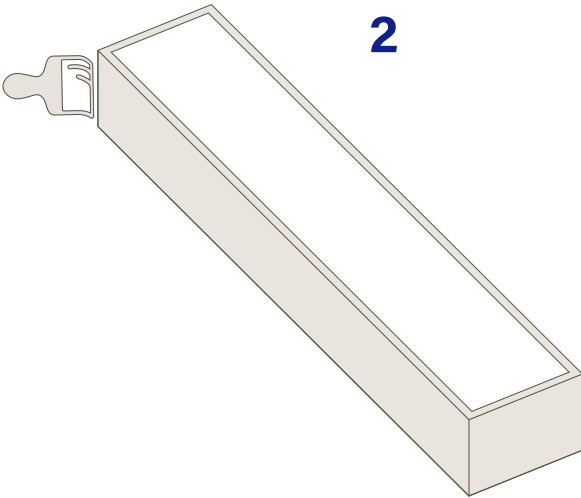
WRAP IT

ADD ON

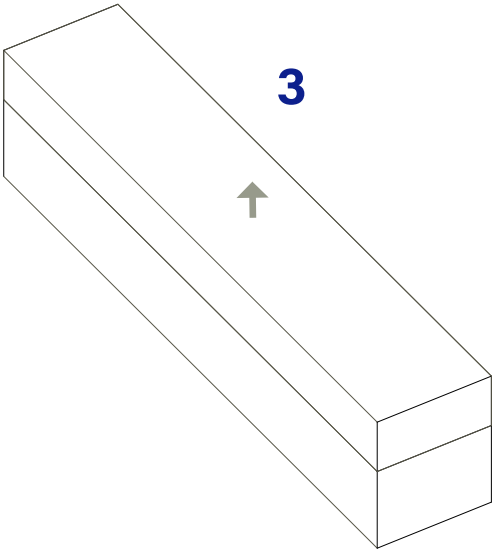




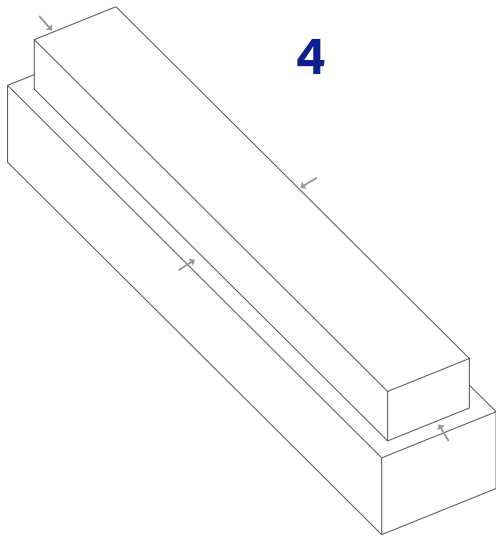
CURRENT STATUS



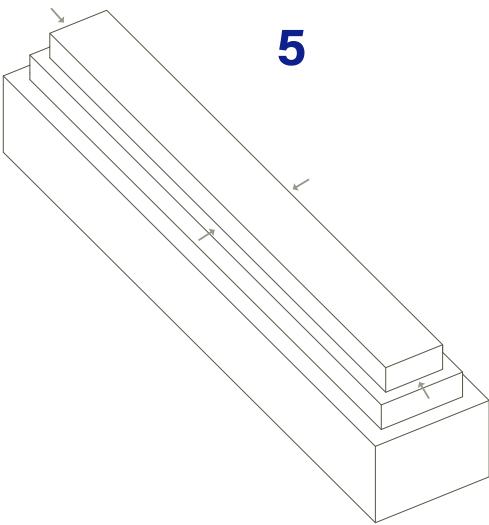
WRAP IT



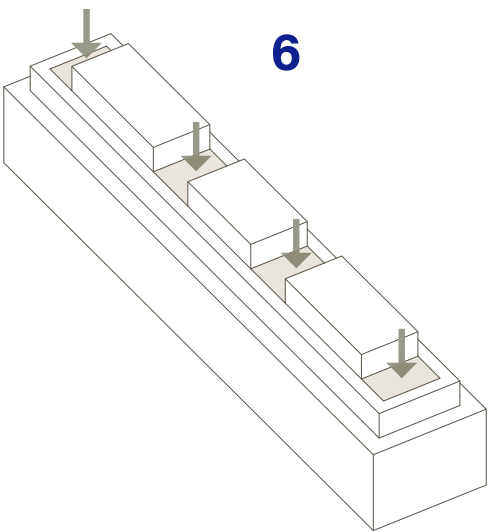
ADD IT



SET BACK

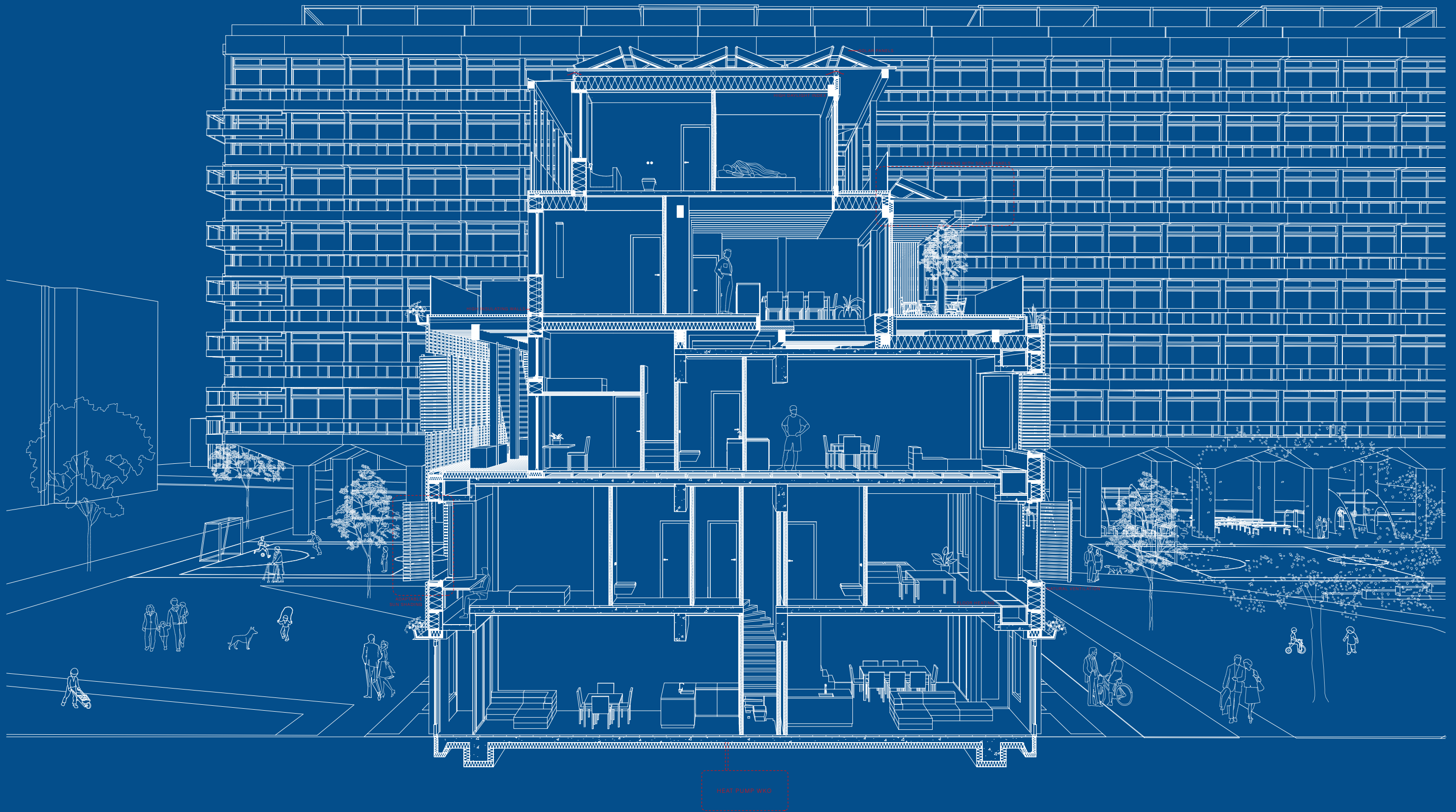


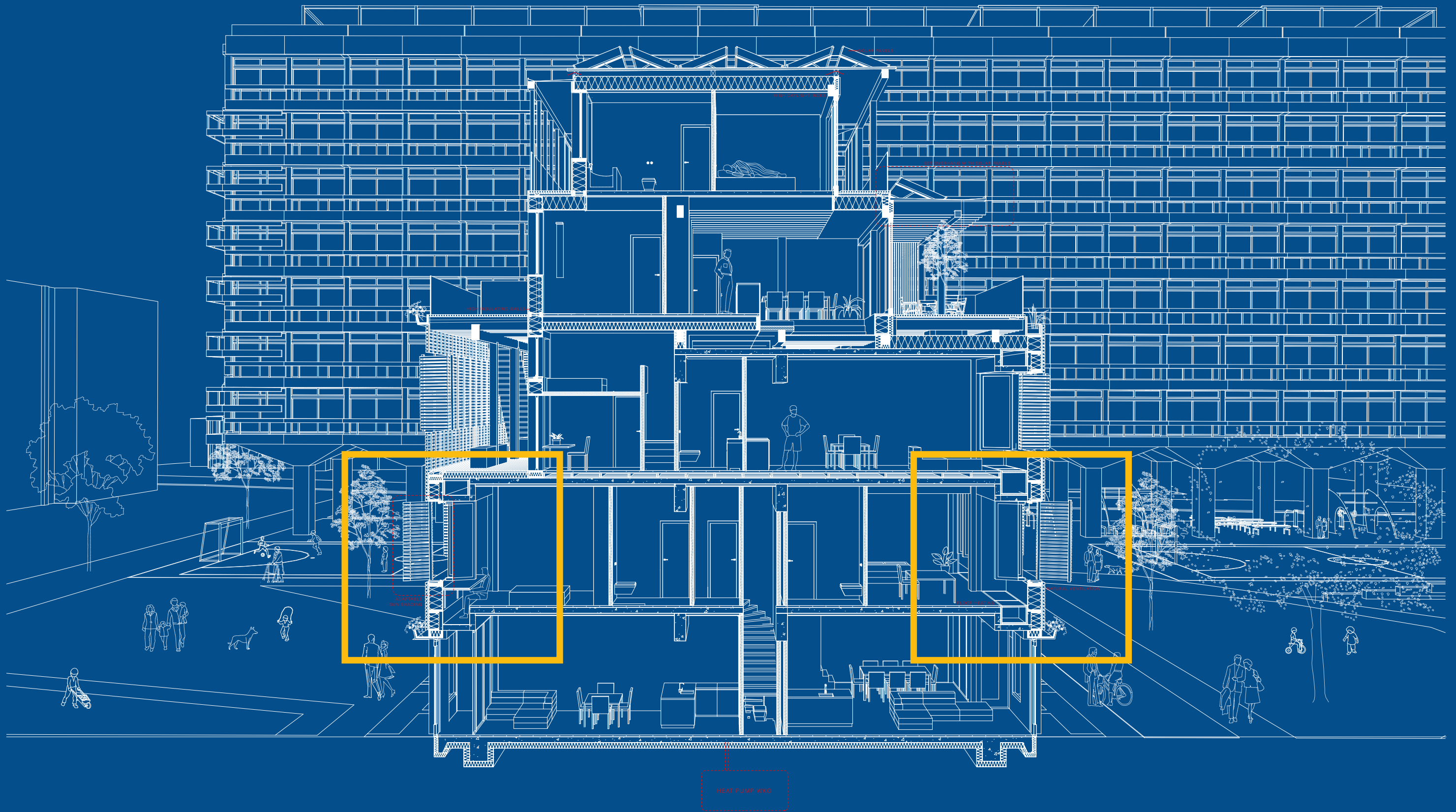
SET BACK MORE

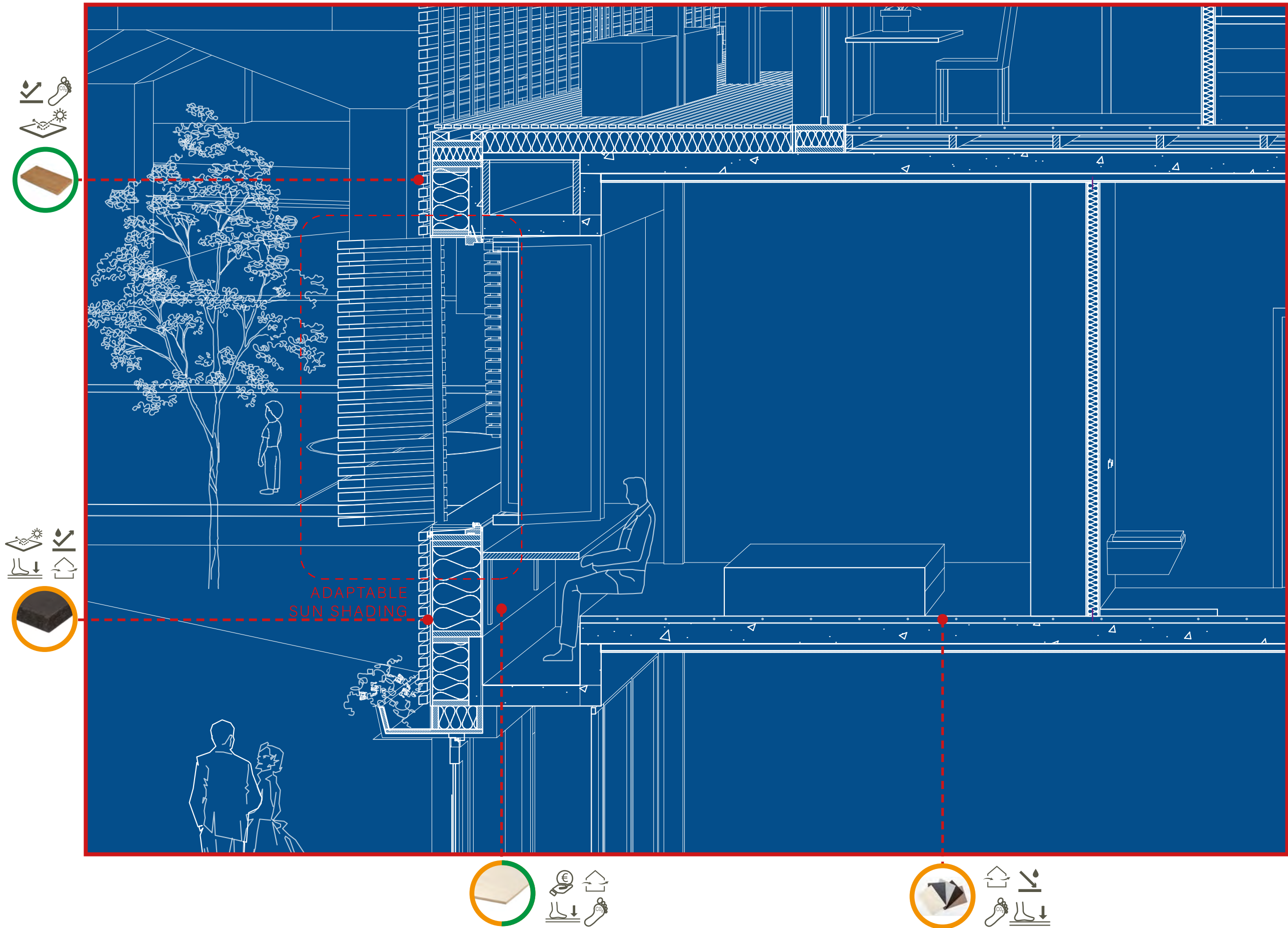


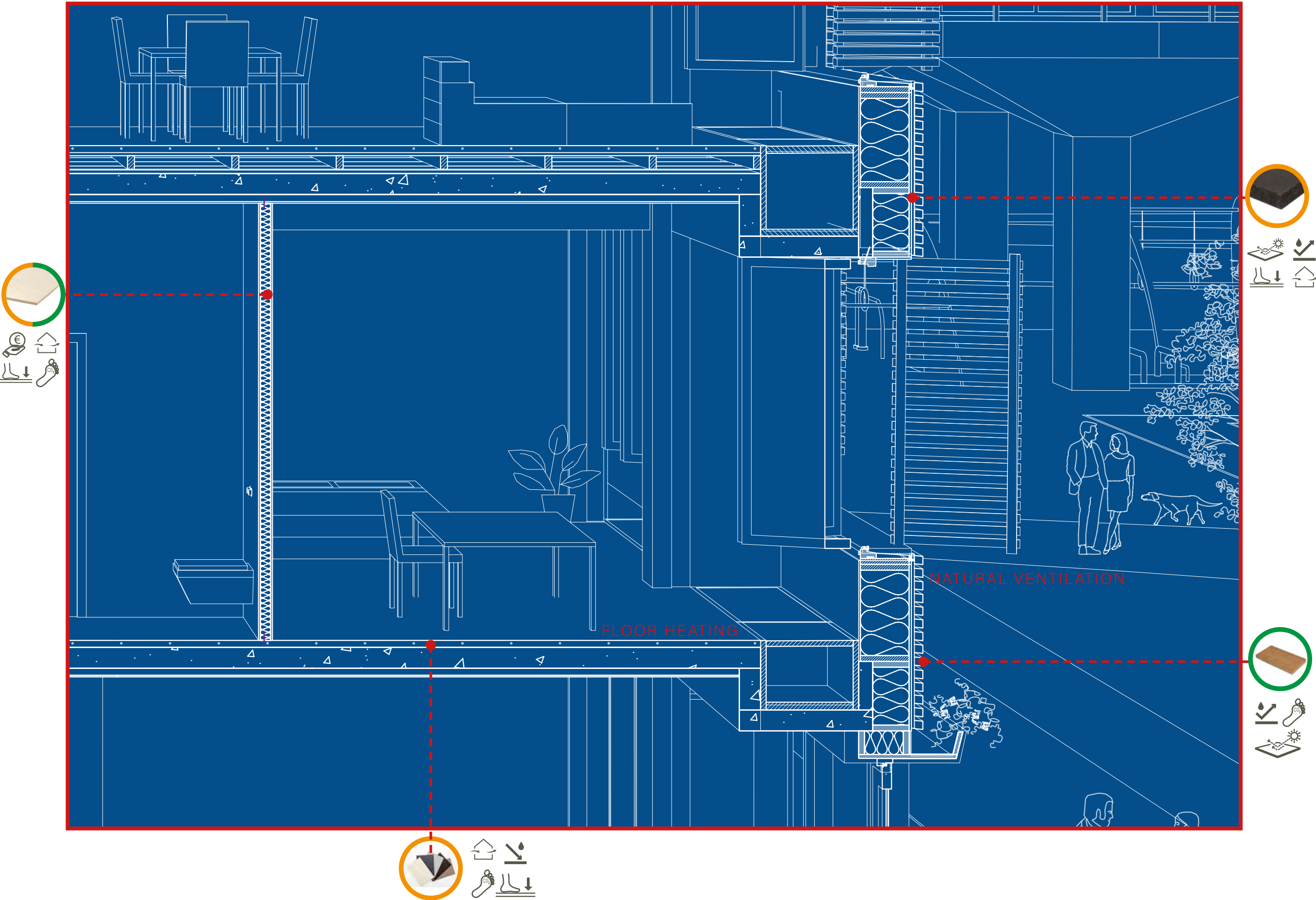
PLACE ROOF TERRACES





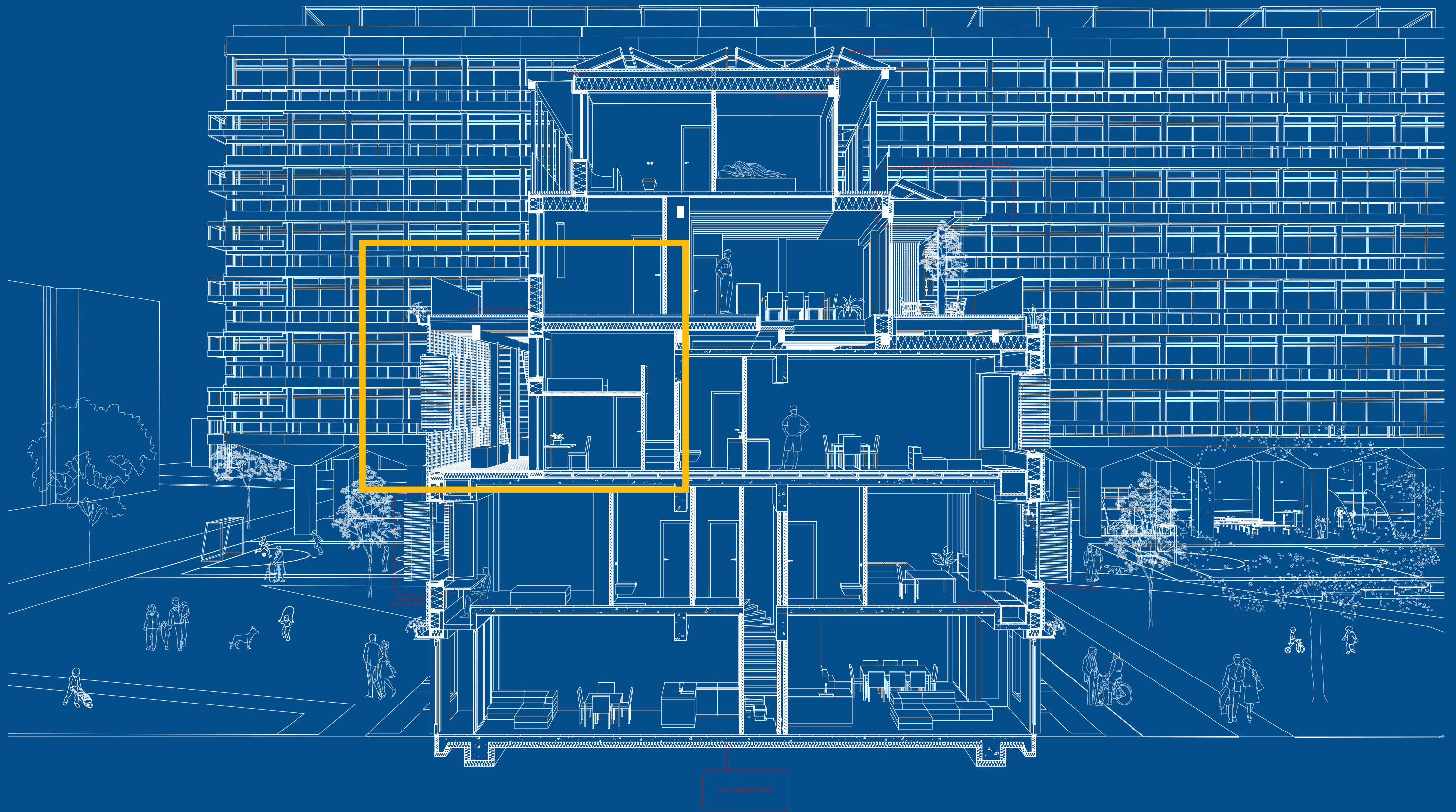


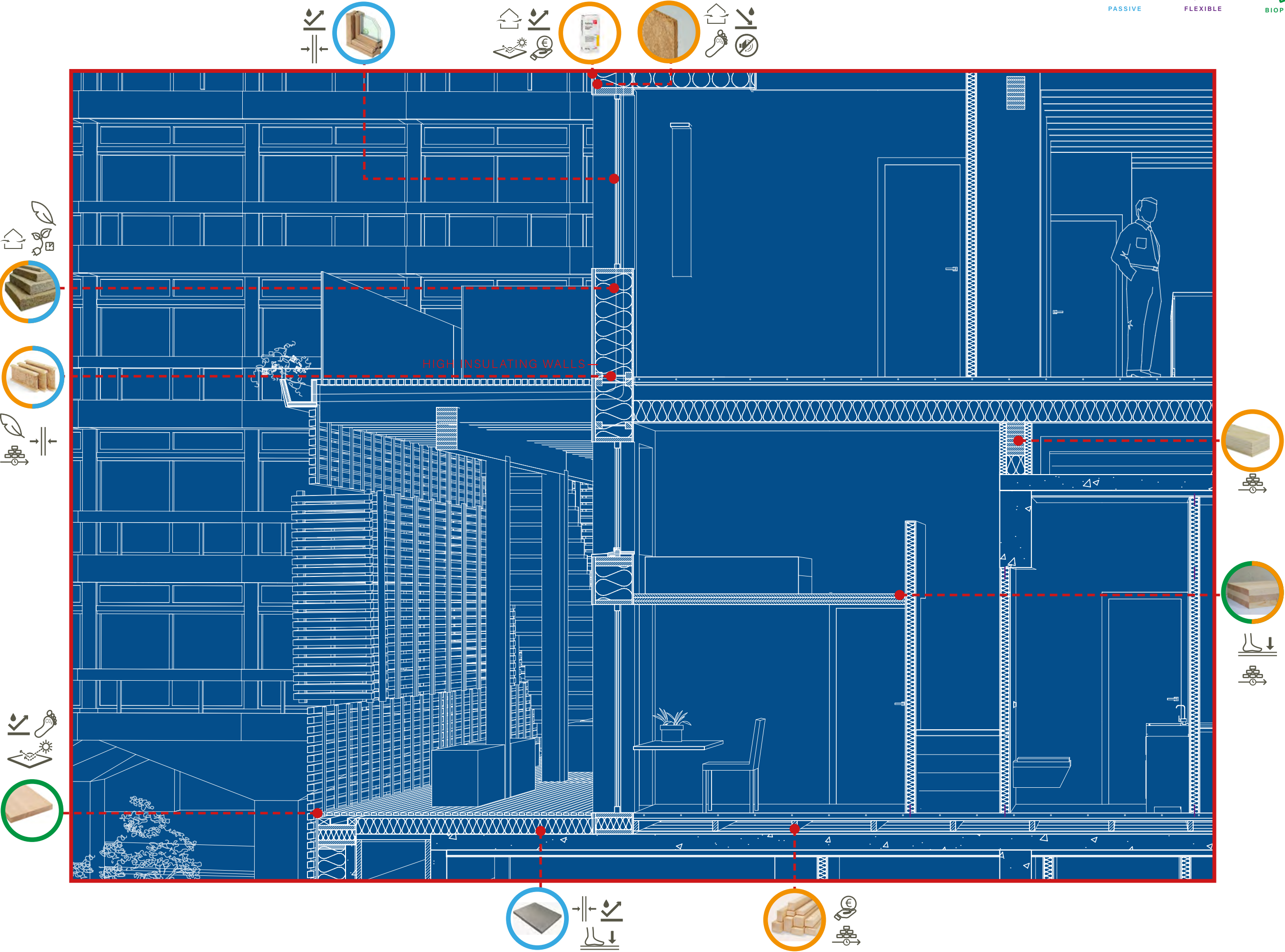


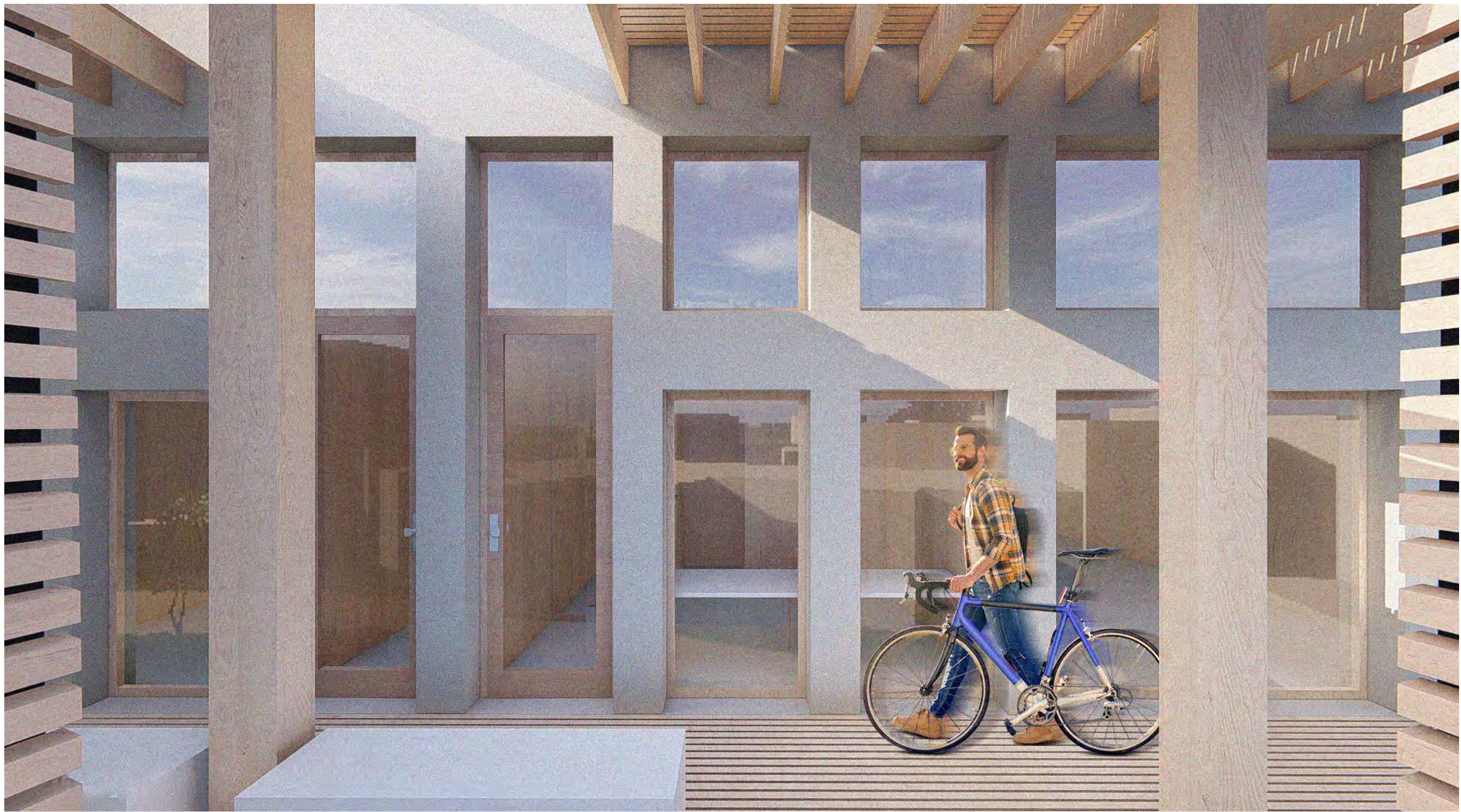






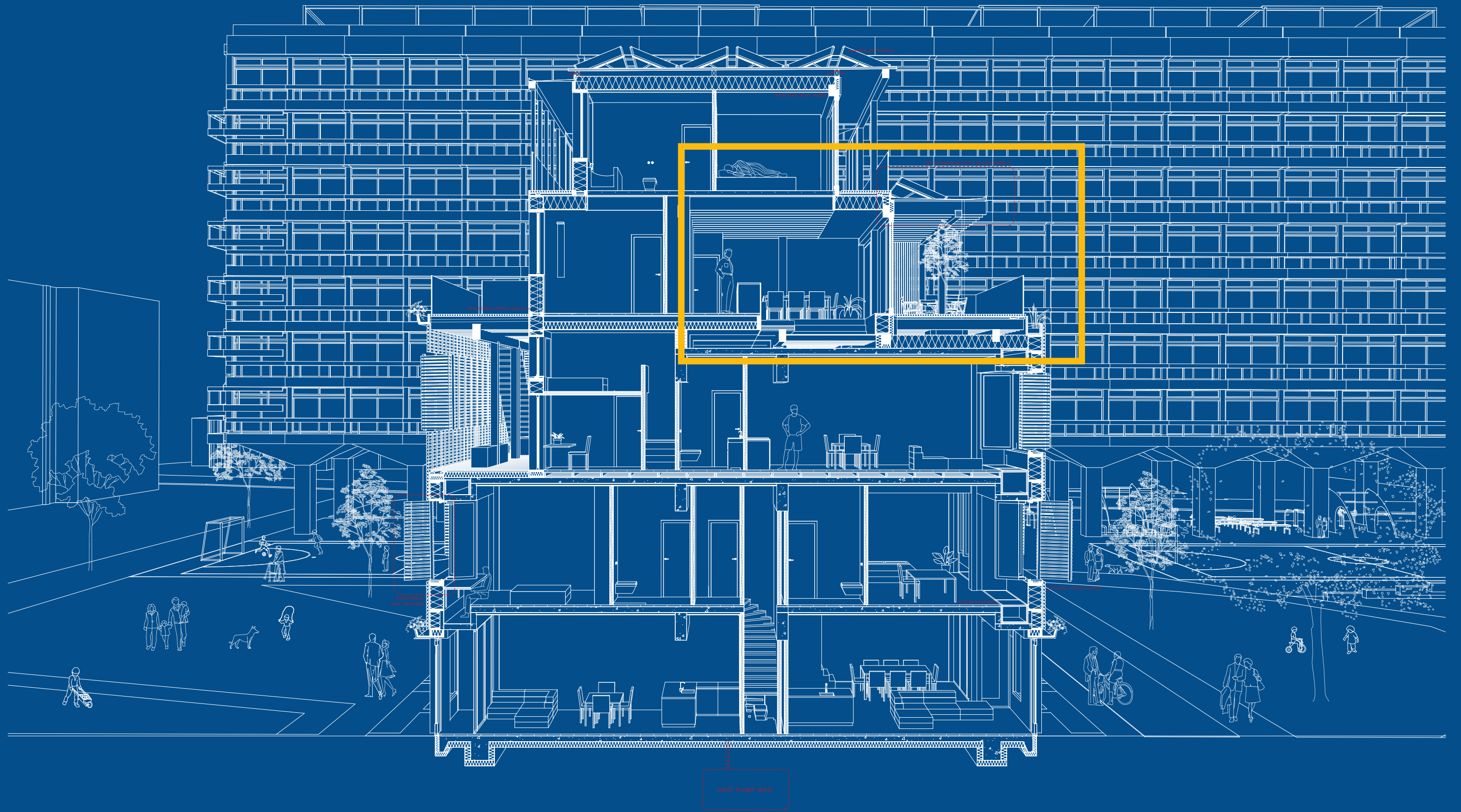


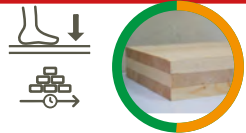
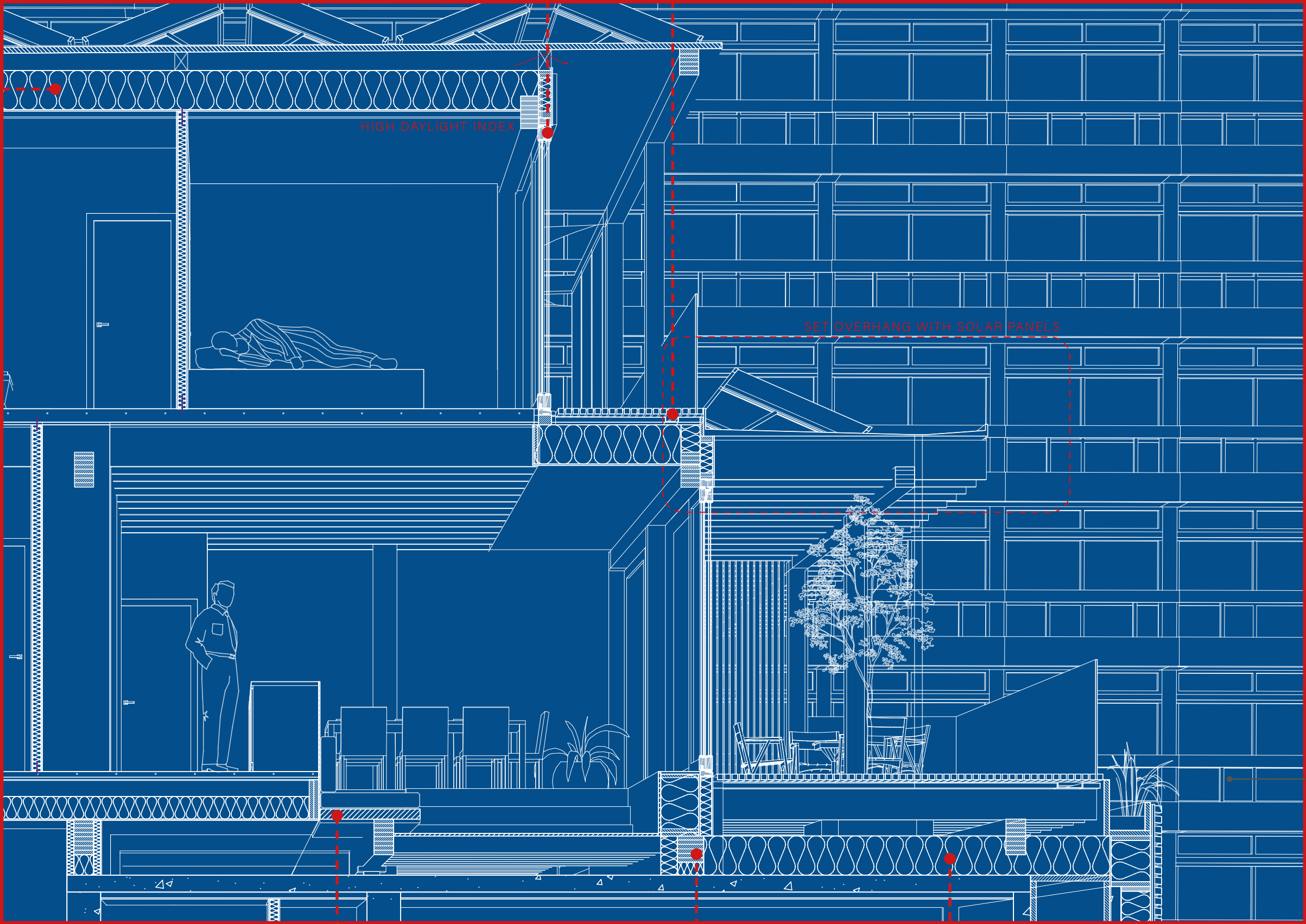












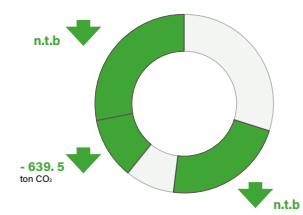




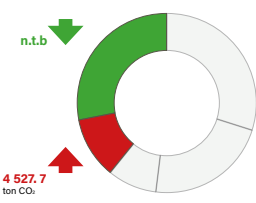




Emmited carbon: **193.9** ton CO₂
Sequestrated carbon: **833.4** ton CO₂
Netto impact: **- 639.5** ton CO₂



VS



Emmited carbon: **4 527.7** ton CO₂
Sequestrated carbon: **0** ton CO₂
Netto impact: **4 527.7** ton CO₂





Emitted carbon: **104.9** ton CO₂
 Sequestered carbon: **434.2** ton CO₂
 Netto impact: **- 329.2** ton CO₂



ADD IN



FLEXIBLE



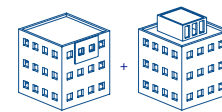
PASSIVE



BIOPHILIC



HEALTHY



WRAP IT

ADD ON



Emitted carbon: **193.9** ton CO₂
 Sequestered carbon: **833.4** ton CO₂
 Netto impact: **- 639.5** ton CO₂

