

FSU

**NETTO
NULL**

Zentralkonferenz 2020
Conférence centrale 2020
6 Webinars

ARUP

L'INNESTO PROJECT - MILAN

Paolo Cresci

Sustainability & MEP Leader

Head of Sustainable Development | Arup Italy



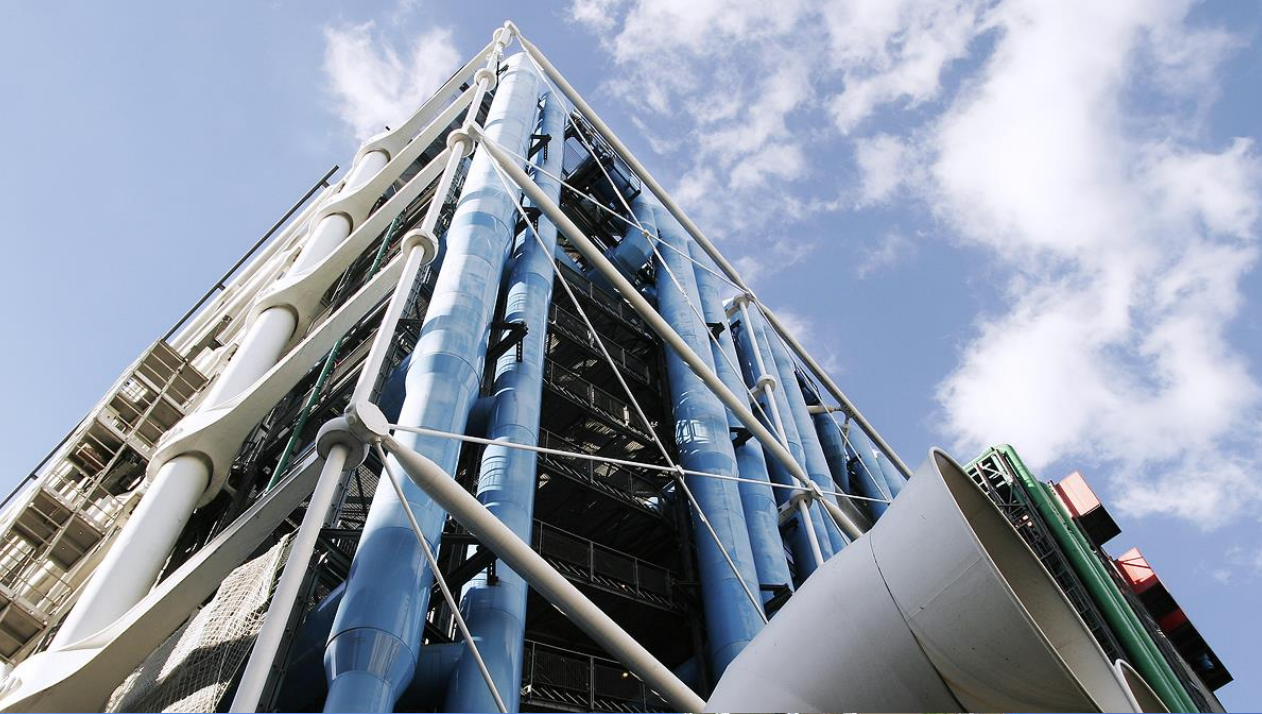
Our aims since 1971

- Quality of work
- Total architecture
- Humane organisation
- Straight and honourable dealings
- Social usefulness
- Reasonable prosperity

Global knowledge and local presence



* Belfast, Bristol, Cardiff, Edinburgh, Glasgow, Leeds, Liverpool, Manchester, Midlands Campus, Newcastle, Nottingham, Sheffield, Winchester



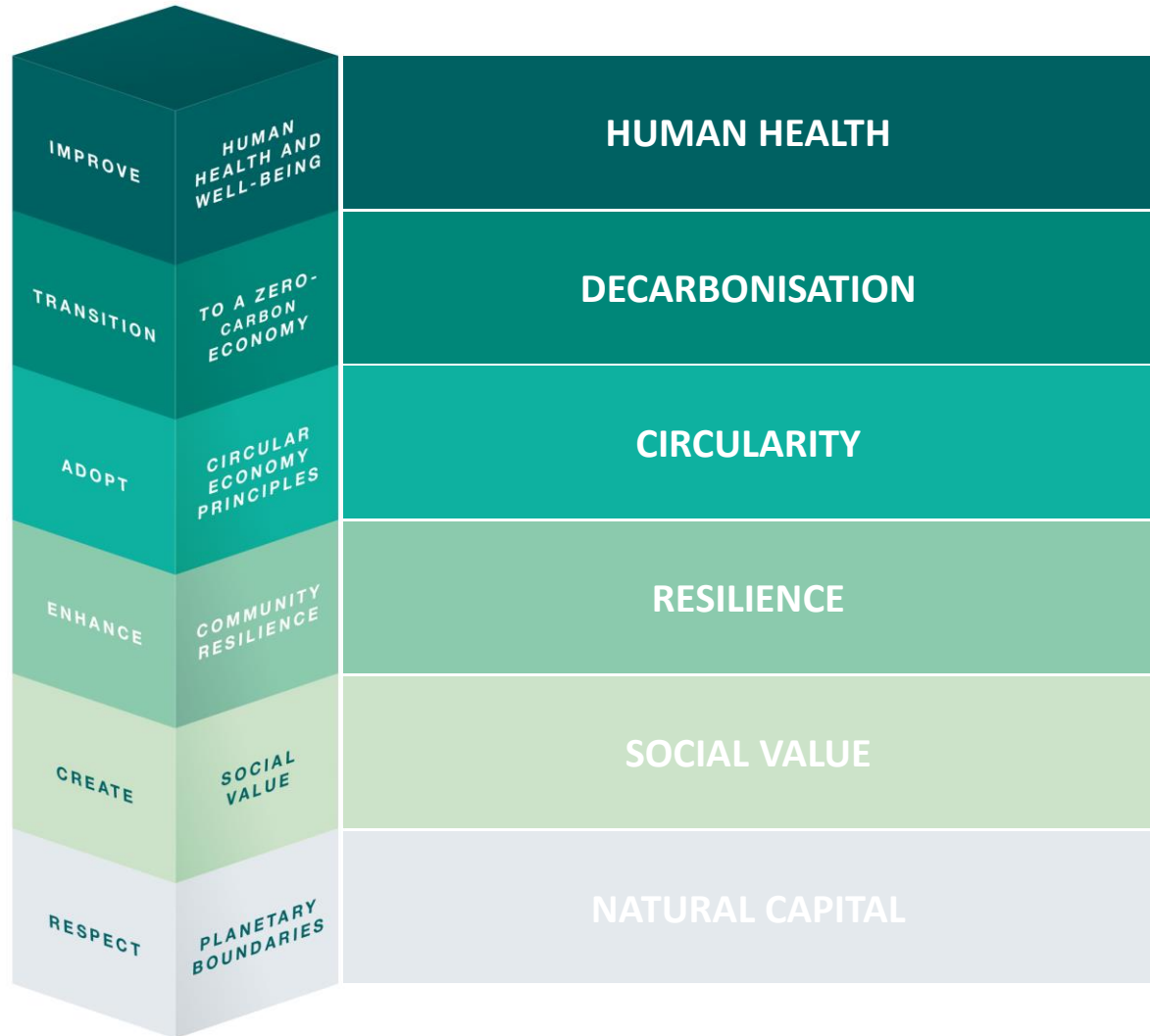


Sustainable Future





6 Principles to guide us



C4O
CITIES

eit Climate-KIC



SISTEMI URBANI
GRUPPO FERROVIE DELLO STATO ITALIANE



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L'INNESTO

Reinventing
Cities Milan

2018 - ongoing

31 sites around the globe



Participating cities

- Auckland
- Chicago
- Houston
- Madrid
- Milan
- Montréal
- Oslo
- Paris
- Portland
- Reykjavík
- Rio de Janeiro
- Salvador
- San Francisco
- Vancouver

NOVEMBER 2017PHASE 1.....>>>.....PHASE 2.....SPRING 2019





lead



coordination

ARUP

architecture



barreca & la varra

planning and sustainability

ARUP

THINK TANK



G1: ZERO CO₂

The first Zero Carbon "Housing Sociale" project in Italy



G2: 30 YEARS

Long-term involvement in responsible and resilient management of resources, spaces and community



G3: ONE COMMUNITY

A collaborative neighbourhood with an agricultural heart, a Human Adaptive Zone to restore urban relationship



01 Building energy efficiency and supply of clean energy



02 Sustainable materials management and circular economy



03 Green mobility



04 Resilience and adaptation



05 New green services for the site and the neighbourhood



06 Green growth and smart Cities



07 Sustainable water management



08 Biodiversity, urban re-vegetation and agriculture



09 Inclusive actions and community benefits



10 Innovative architecture and urban design

10 Challenges



Resident's Handbook



Project Strategies



Current Behaviour



Expected Behaviour



The "Handbook" Tool



62,000

square meters is
the overall site
area dimension

24,000

square meters is
the GFA

21,000

GFA for affordable
housing

60%

of the minimum
area to be
designed for
equipped public
green spaces

4,000

GFA for services
and other
activities



~ 400

New housing
units

~ 300

new beds for
students

100

subjects in the
area contacted
during the
competition phase

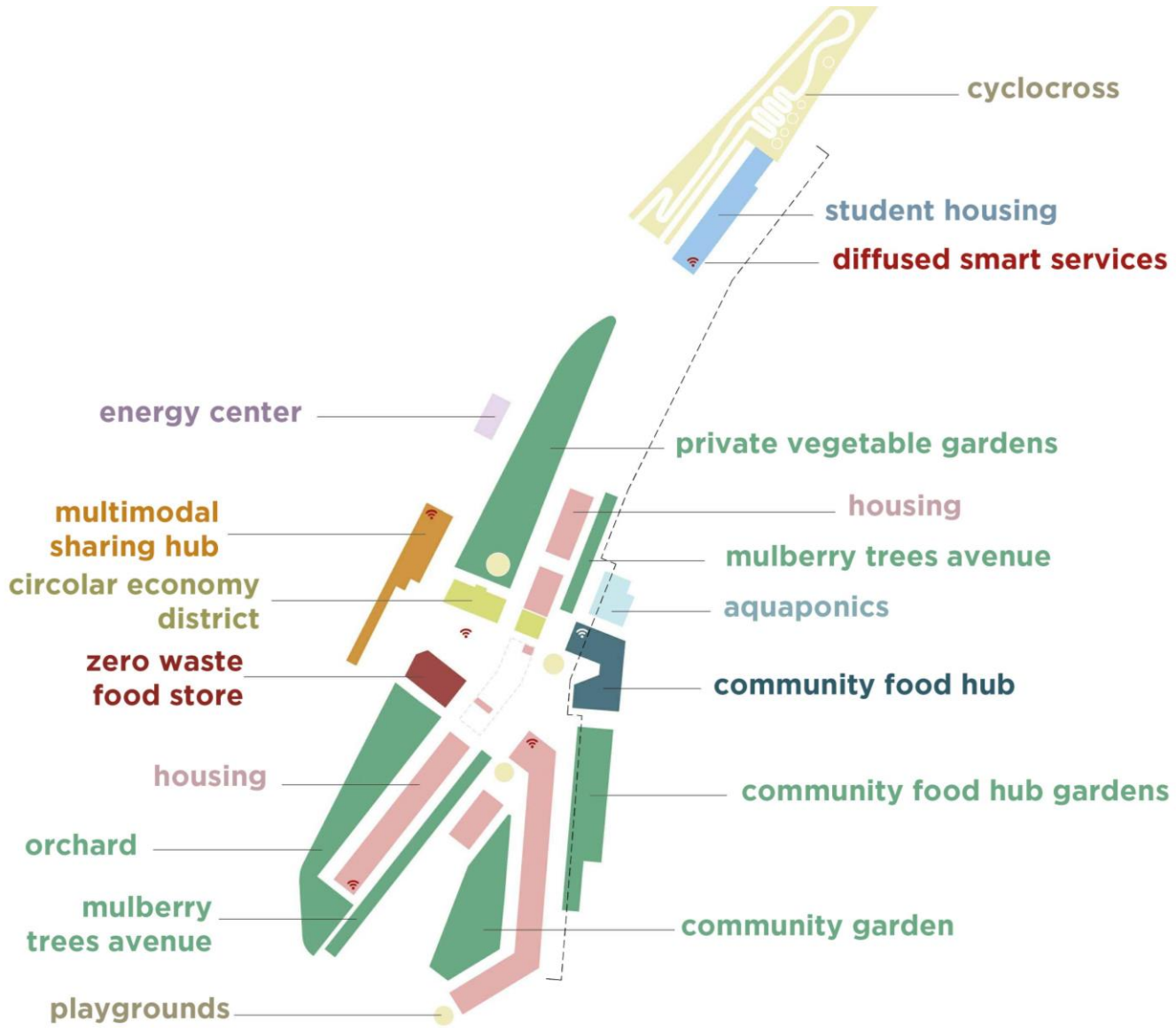
72%

of the overall
area will be
equipped public
green spaces

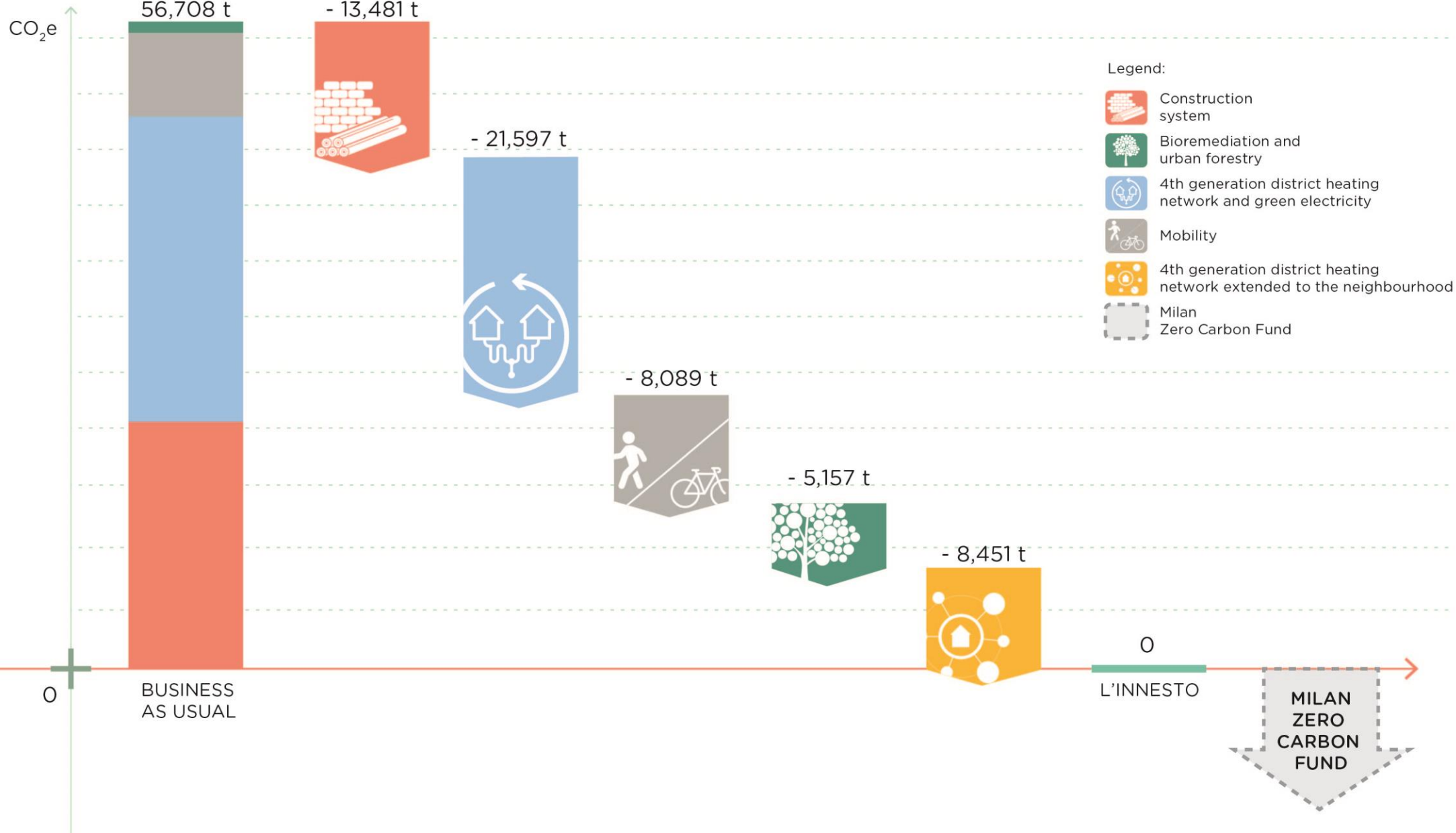
up to **1,000**

New *job*
opportunities/
year created with
the CED

MIX OF ACTIVITIES

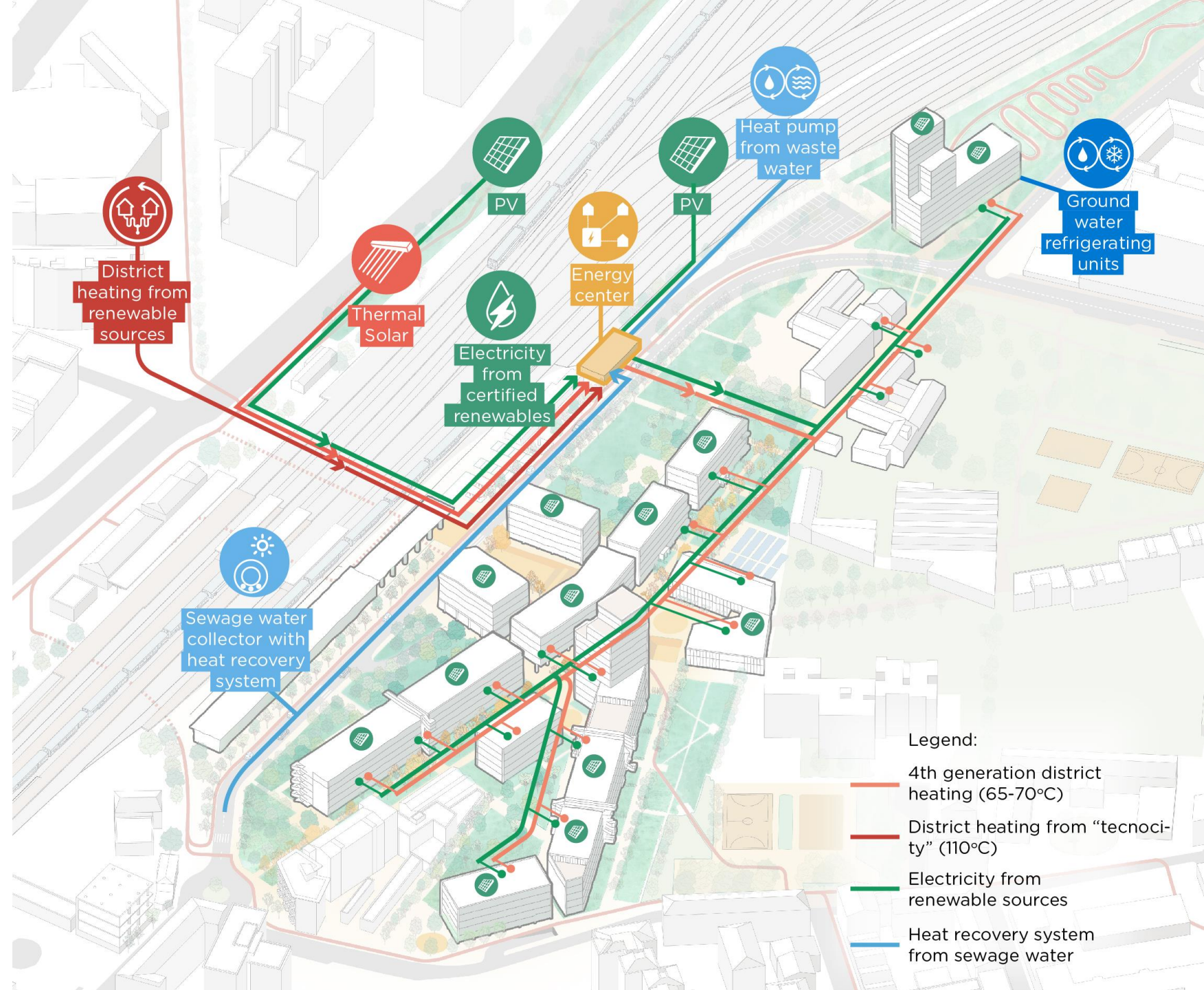


THE FIRST ZERO CARBON “HOUSING SOCIALE” PROJECT IN ITALY



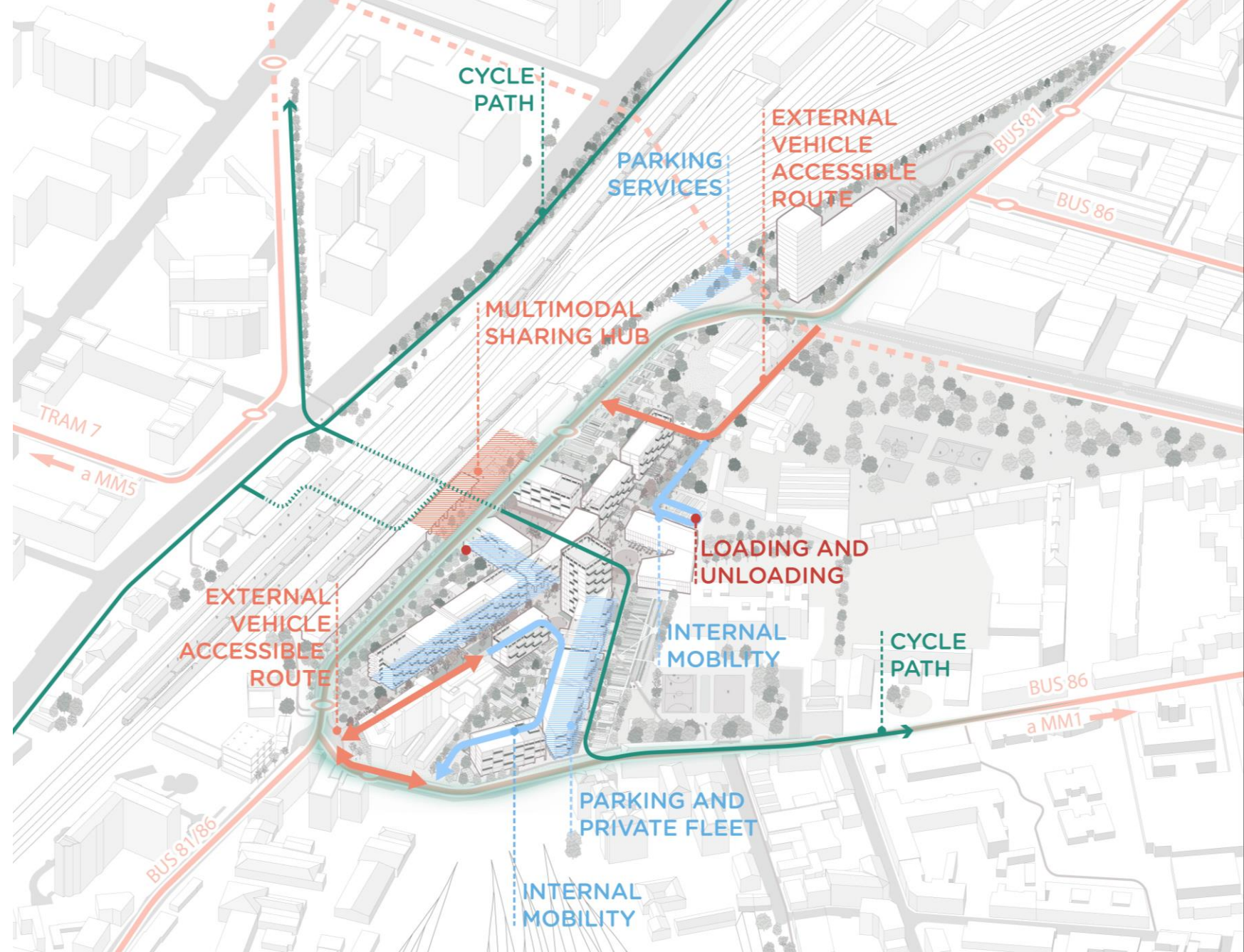
ENERGY AND CARBON

In partnership with A2A Calore e Servizi and MM, the team put forward the first example of low temperature 4th Generation district heating powered by renewable sources, (including urban wastewater)

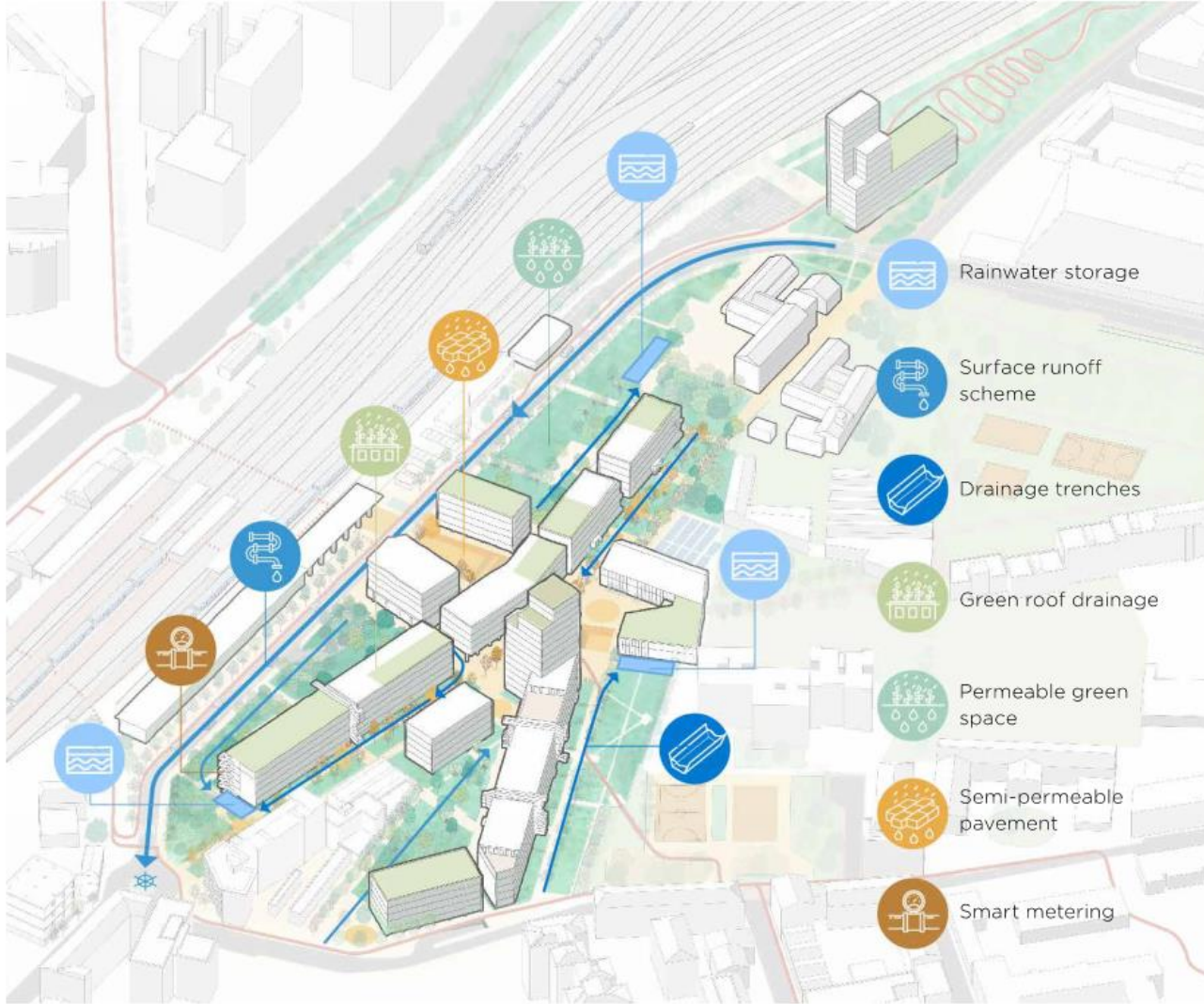


MOBILITY

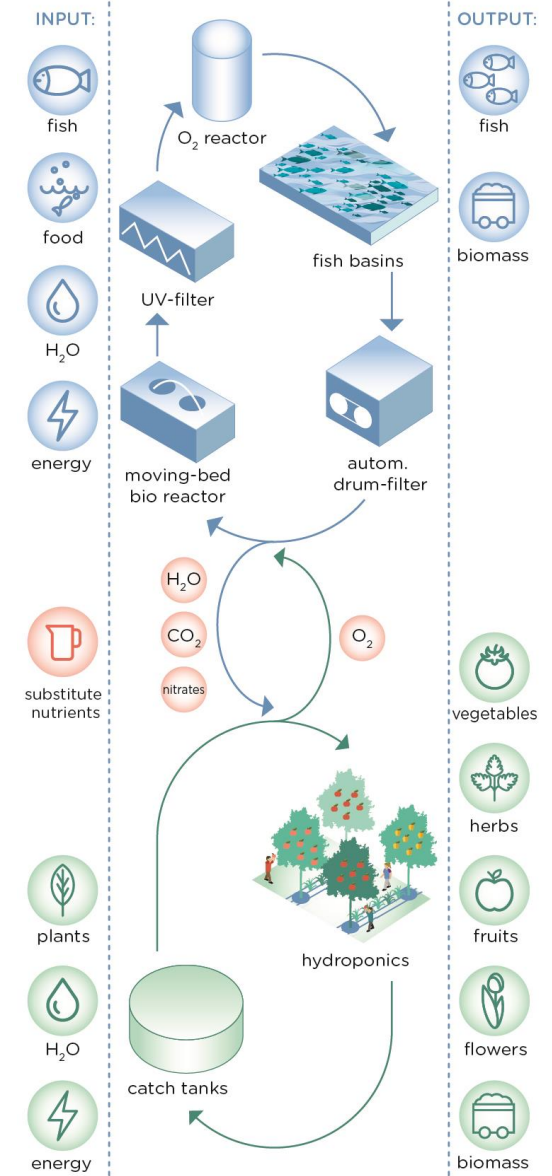
Residents of project L'INNESTO will initiate a virtuous cycle by renouncing the possession and, hence, massive use of private cars, as a result of the many alternative options offered by the compartment.



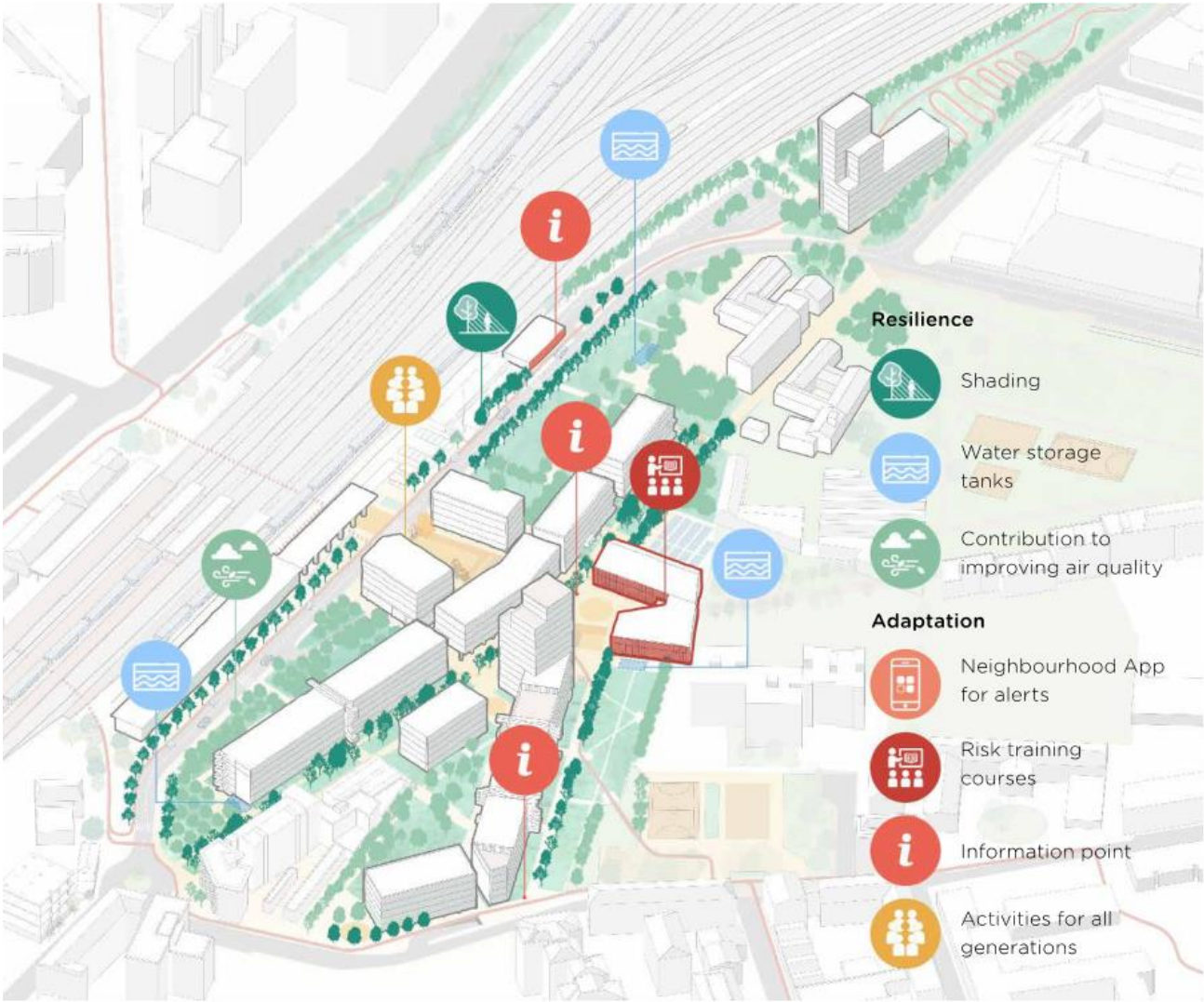
INTEGRATED WATER STRATEGY



Management of water scarcity, excess water and waste water enhancement



CLIMATE CHANGE RESILIENCE AND ADAPTATION



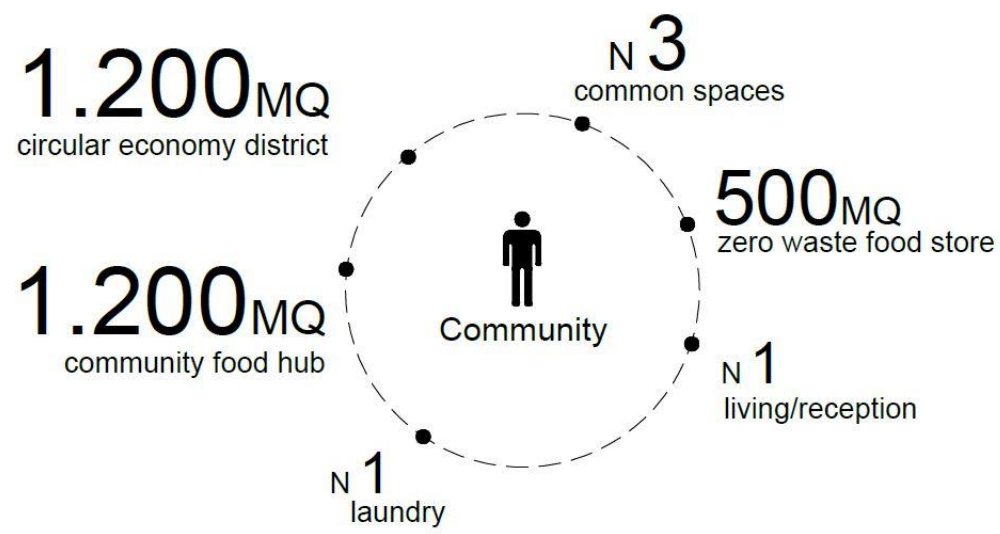
Resilience and adaptation strategies

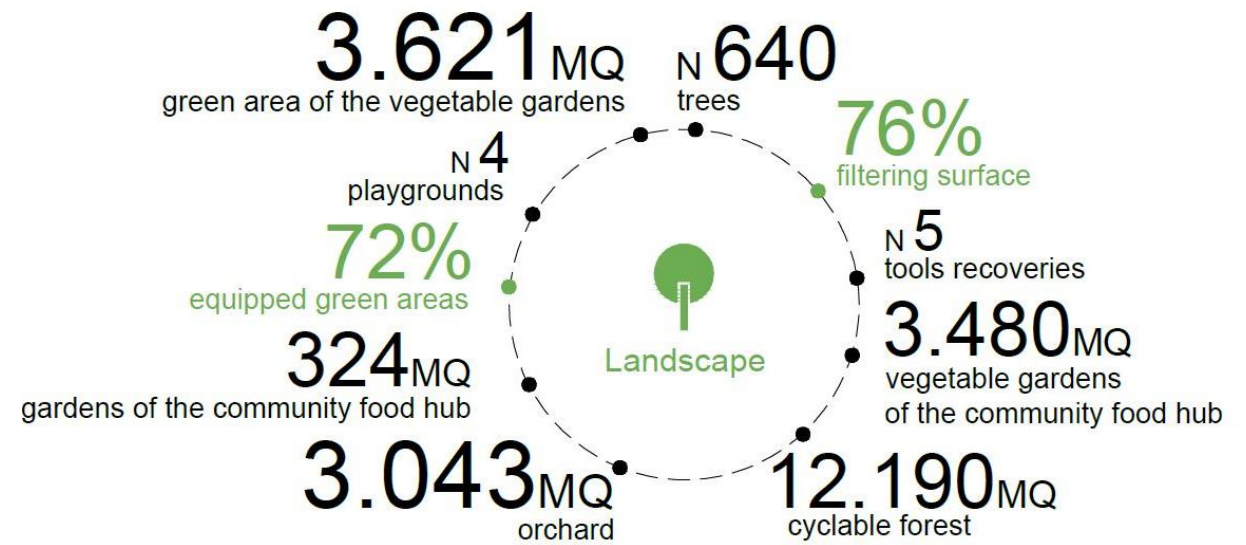




A COLLABORATIVE COMMUNITY, A HUMAN ADAPTIVE ZONE









LONG-TERM INVOLVEMENT IN RESILIENT MANAGEMENT OF RESOURCES, SPACES AND COMMUNITY



double drywall sheet

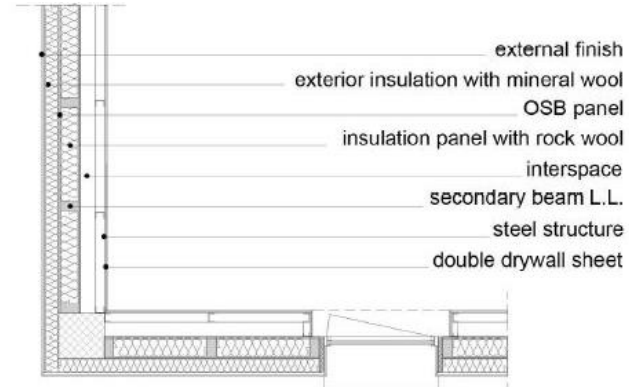
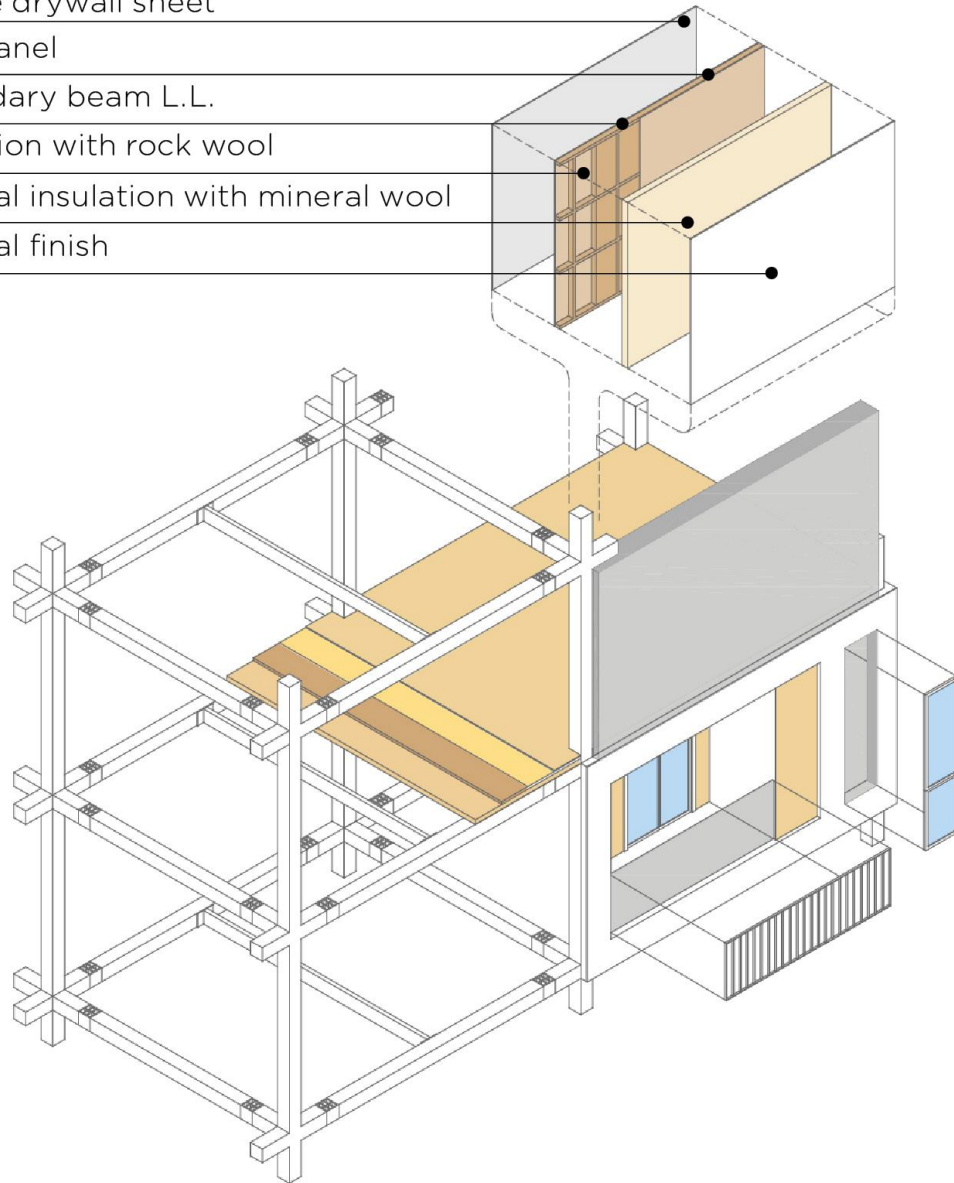
OSB panel

secondary beam L.L.

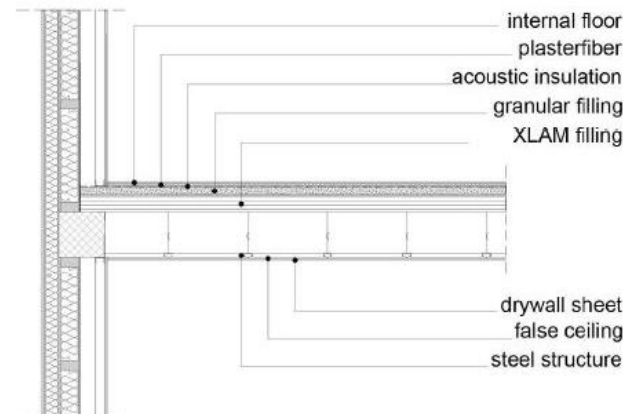
insulation with rock wool

external insulation with mineral wool

external finish



detail A
scale 1:50



detail B
scale 1:50



