

# 7 Square Endeavour

Schouwburgplein Rotterdam – The Netherlands

- Solving Urban Challenges Together



# How did it start?



# Goal

A **carbon-neutral** and **climate-resilient** Schouwburgplein by 2030

## Principles

- The square as a Rotterdam testing ground for sustainable and climate-adaptive measures
- Exemplary and scale able
- (Local) collaboration is key (bottom-up)
- Strategic and integrative approach
- Together with and for the neighborhood
- The Rotterdam square is the first square in a series of seven worldwide.
- Innovative cyclic solutions and reproducible business cases

# The Area



# The Square

IMAX

de Doelen



# The Square



# The Square



# The Square





# How?

Public-private partnership: complementary stakeholders working together



Owner/user



Ministerie van Infrastructuur  
en Waterstaat

Societal



Design & Consultancy  
for natural and  
built assets



DURA VERMEER

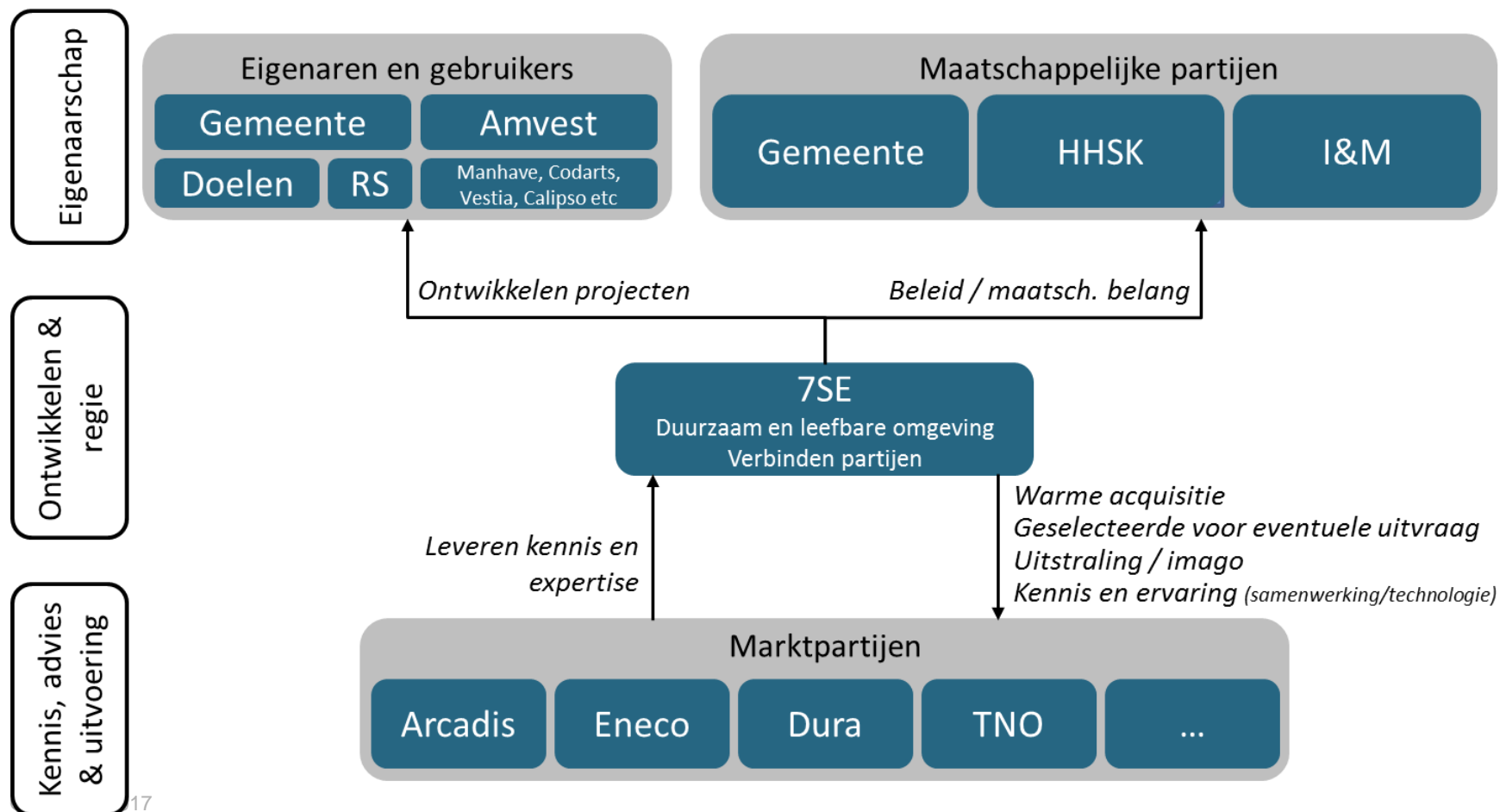


Knowledge and innovation



# How?

## Collaboration and funding model



Elke partner levert in kind en cash bijdrage

# How?



- Focus on three pillars

Roofs and public  
space



Water



Energy



- Together with stakeholders (residents, business owners etc)
- Art as a form of communication

# Our lessons

Movement by inspiration!

- It starts with an idea and inspiration
- Find the right partners and people
- Find an authentic cooperation model
- With this you will create energy and momentum



Er was eens een plein

'Goh leuk idee, maar we doen het toch wel samen?'



**Did project learn from other experiences in other cities?**



# Results so far



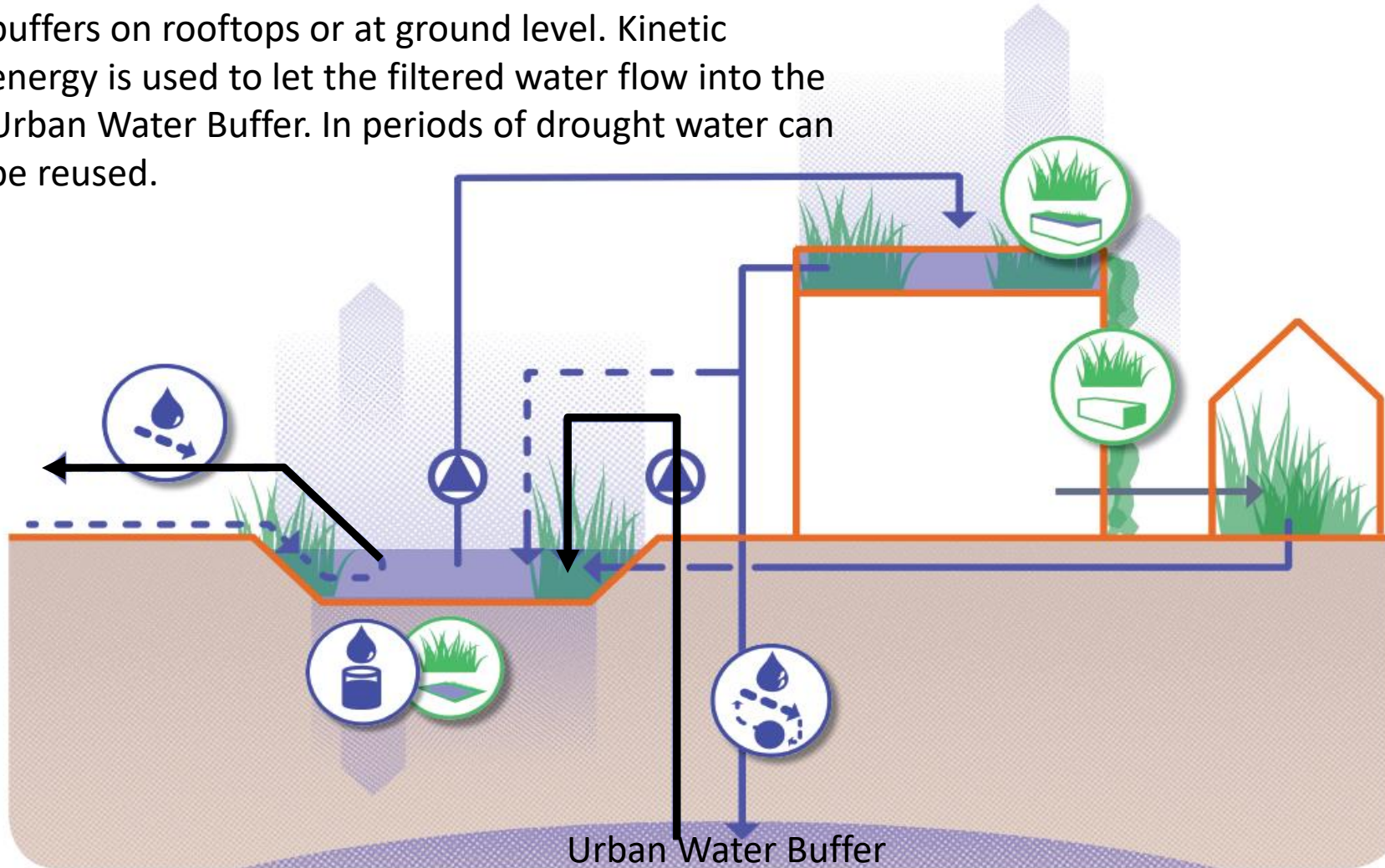
# Water strategy



## Measures

- Multi purpose rooftops
- Green facades
- City stream
- Water buffering
- Local sewage treatment
- Underground Urban Water Buffering
- Capillaries for collection and re-use rainwater



[illegible]

# Water strategy



# Energy strategy





## Priorities

### **Electricity consumption:**

- Change behaviour
- Reduce consumption (thermic isolation, renovation, renewal of installations)
- Generating energy
- Management of energy
- Buy sustainable generated electricity together

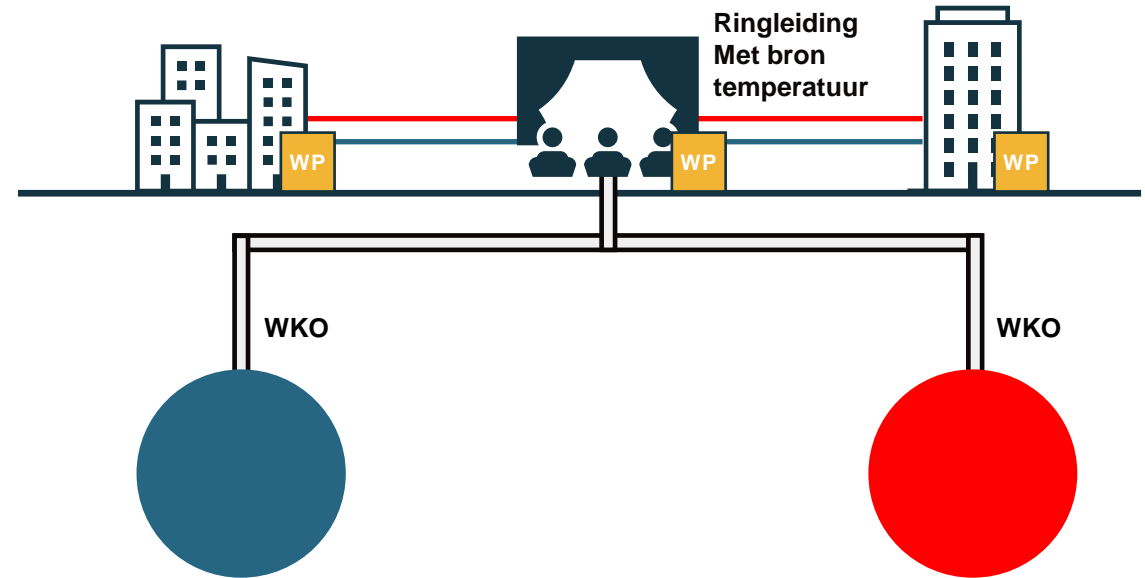
# Energy system



# Energy system



- 2019: feasibility study for a CO2 neutral energy system for Schouwburgplein.
- 2020: business case and plan with various options for a CO2 neutral energy system for the Schouwburgplein
- 2021: Collaboration with Eneco to further develop and design the energy system and work to a FID



*One of the options: Decentralised heatpump system*

**Started in 2015. In 2022 a new cooperation agreement was signed.**

**Goal: together with partners and Eneco develop a carbon neutral and local energy system for the Schouwburgplein**



# Public space and quality of life strategy

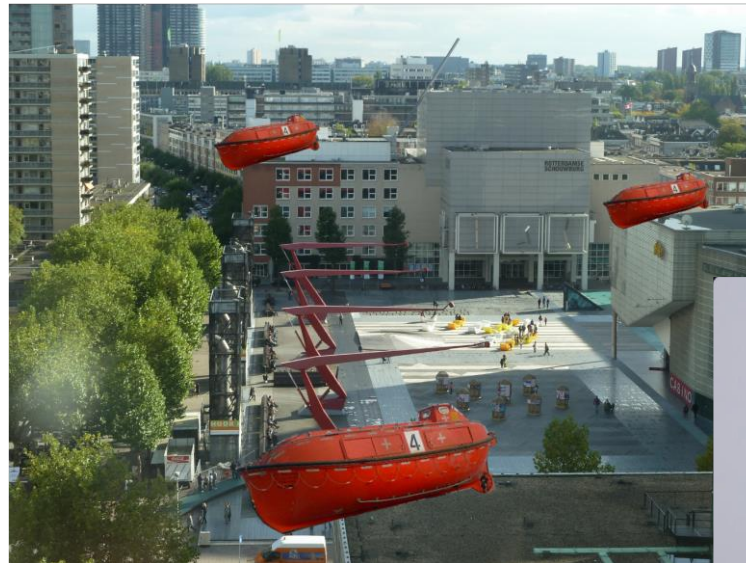


# Public space and quality of life strategy

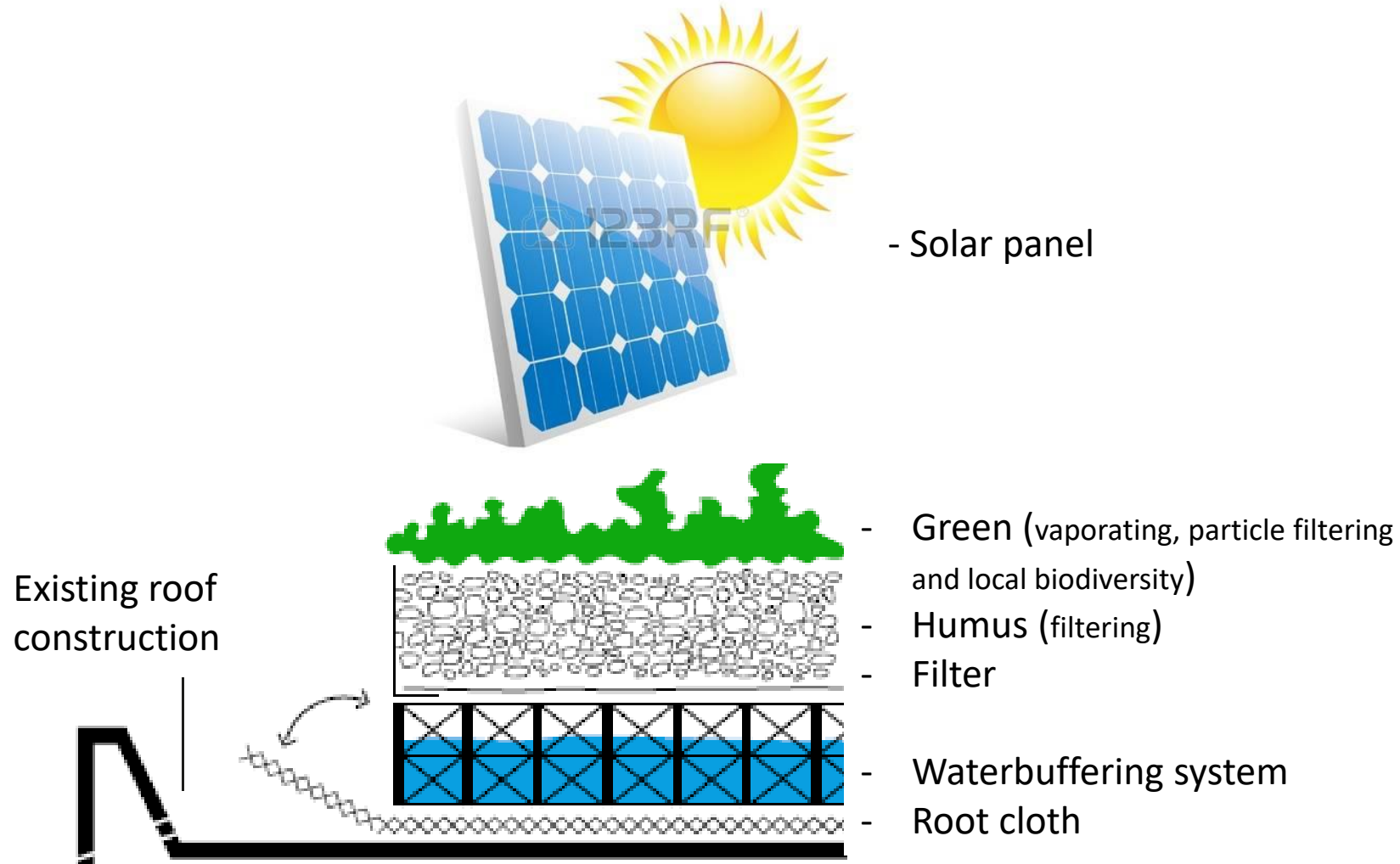


- Art as communication.
- Nature back in the city.
- Nice surrounding to live, work and stay.
- The design is smart, circular, based on nature and humans.

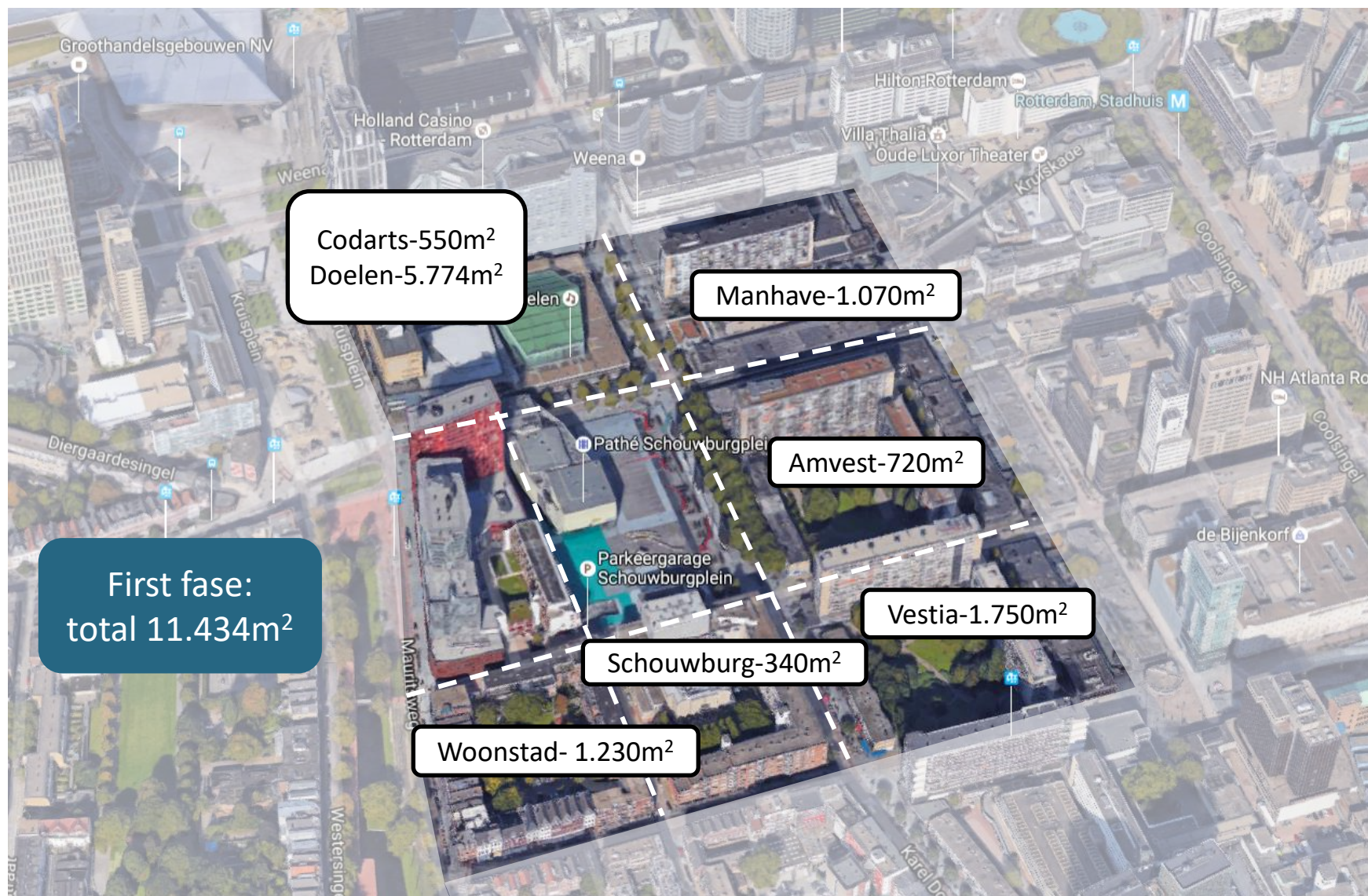
# Public space and quality of life strategy



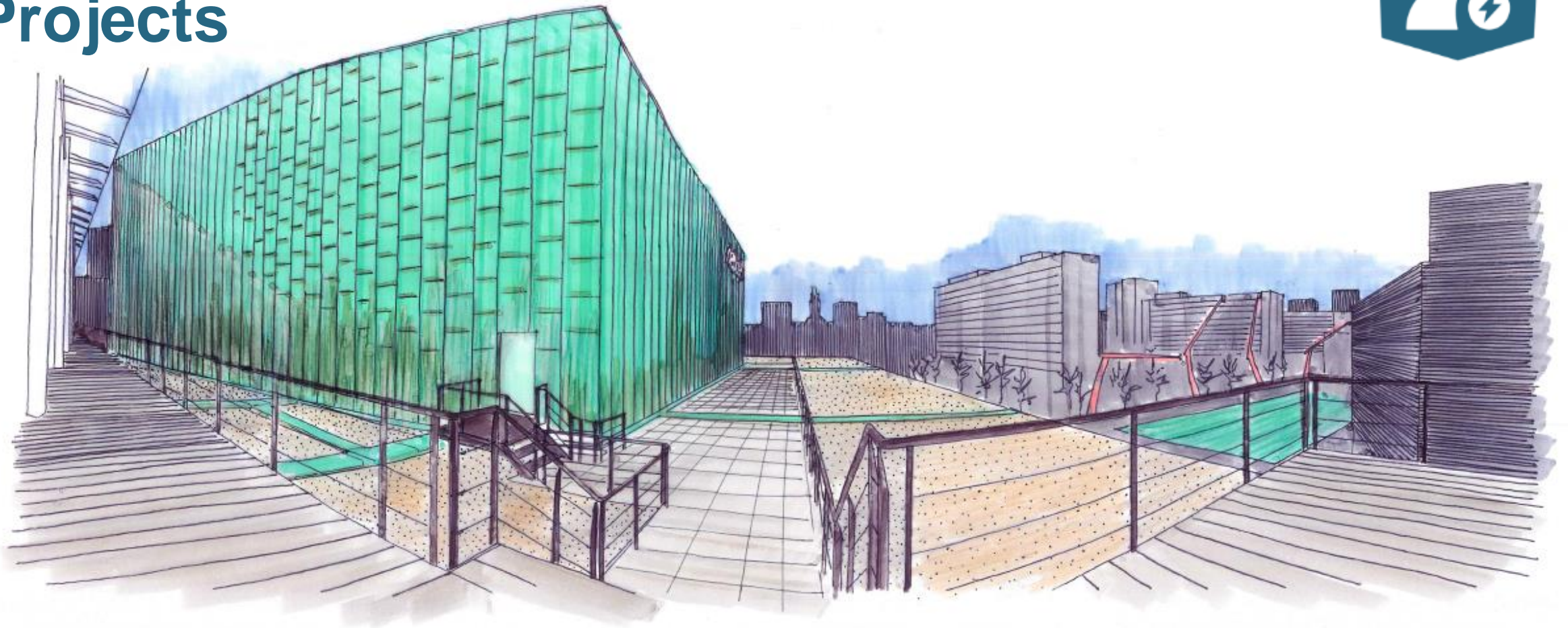
# Multiple purpose rooftops



# Multiple purpose rooftops

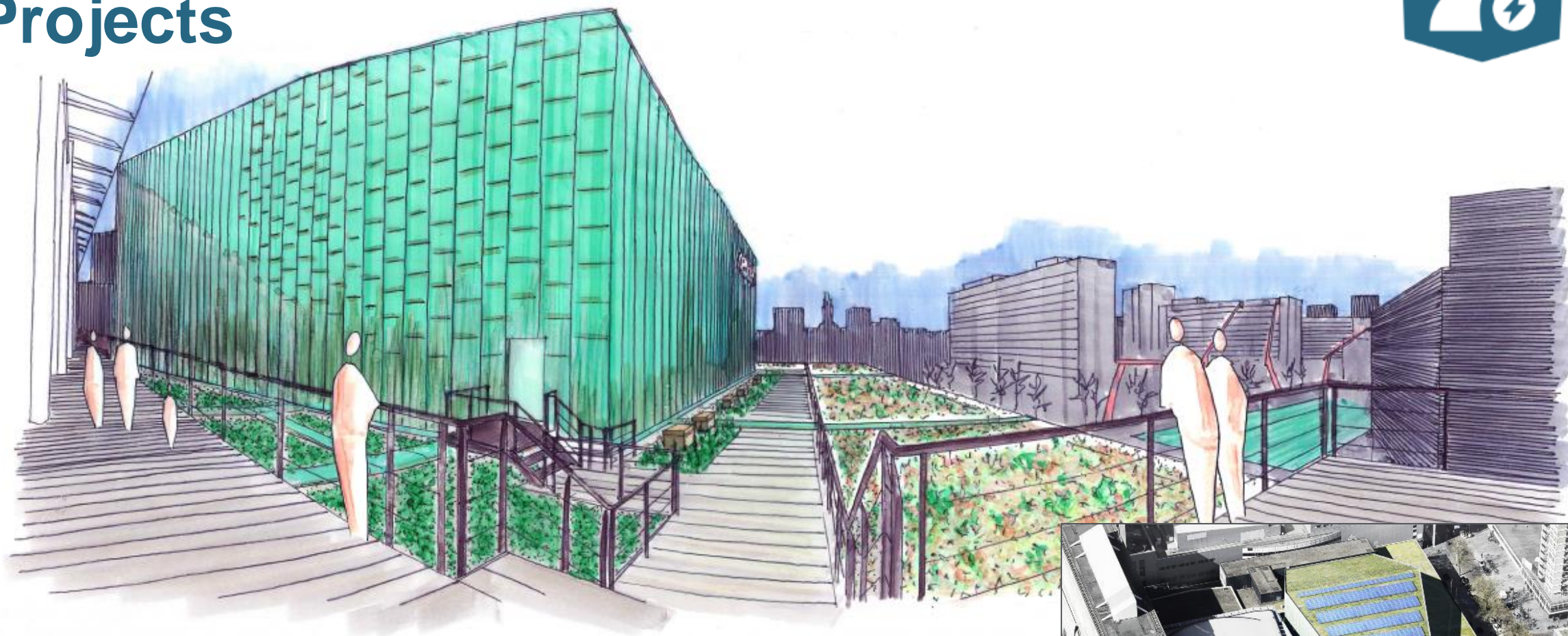


# Projects



Sustainable Roof De Doelen

# Projects



Sustainable Roof De Doelen





- A bad air quality is a problem created by everybody, so it is a problem of everybody.
- It is not a separate issue, so it should not be treated like that.
- We believe that when a smart, cyclic, integral plan is created air quality will benefit of it.
- Our project consists of a small part of Rotterdam, the benefit of the measures on air quality we take will probably not be measurable.
- But: we can be a good example!

# Challenges and opportunities



# Challenges and opportunities



- Making progress after 7 years in a PPS
- Getting the right data out of the stakeholders, they don't see the benefits of the PPS
- Lot of changes in the projectteam – staff turnover
- Money
- Scaling up to other cities around the globe



**Thank you for your attention**