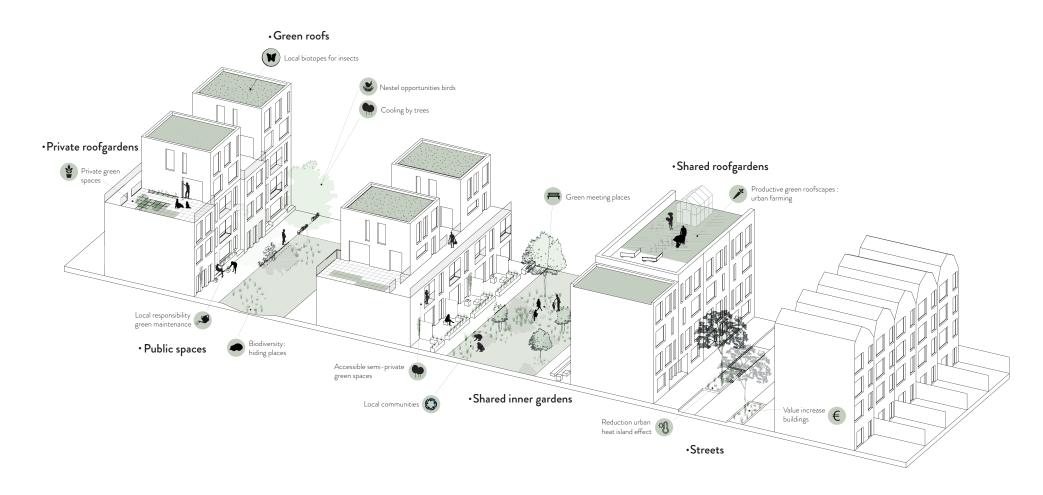
Rethinking Urban **Domestic Gardens**

Aligning Urban Domestic Gardens to Concrete Urban Demands



Tarwewijk, a look into the future

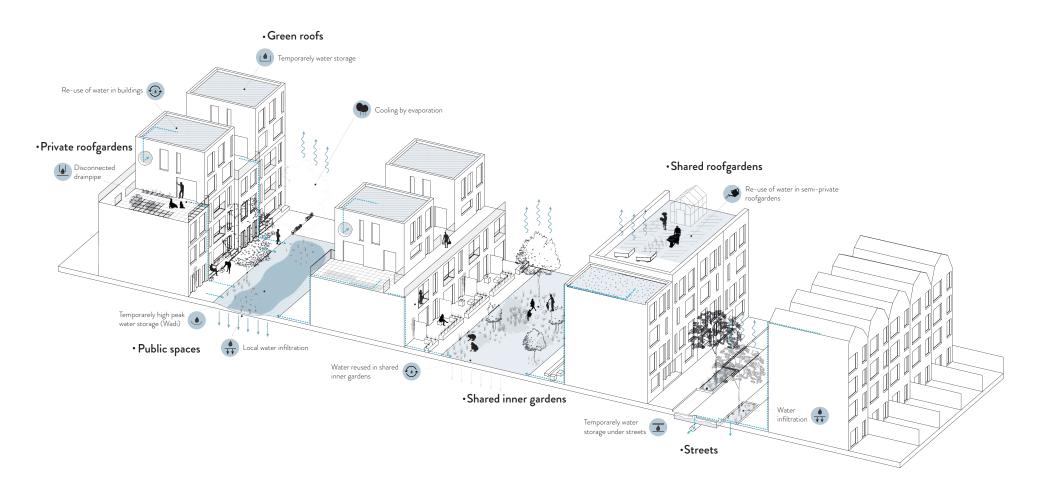




3

- / 'a Tarwewijk with more valuable green in different urban layers'
- / 'a Tarwewijk where green connects'

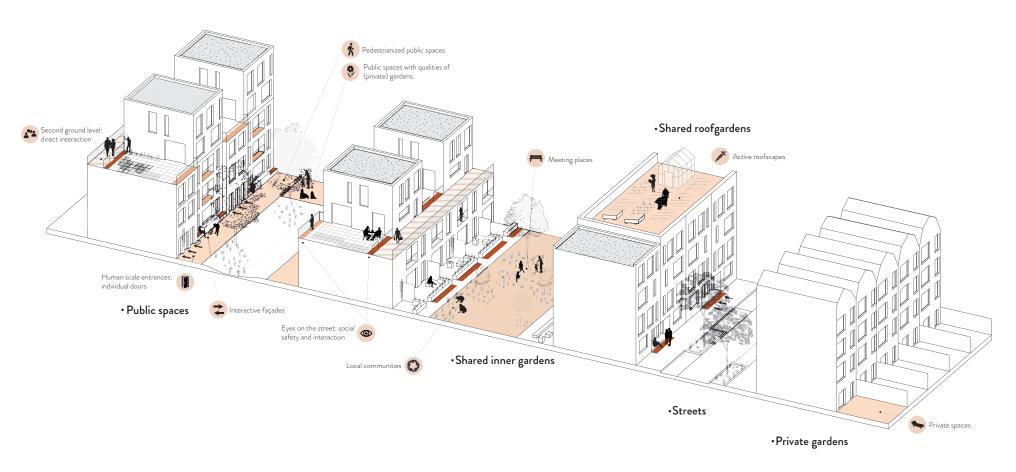






/ 'a climate proof Tarwewijk'





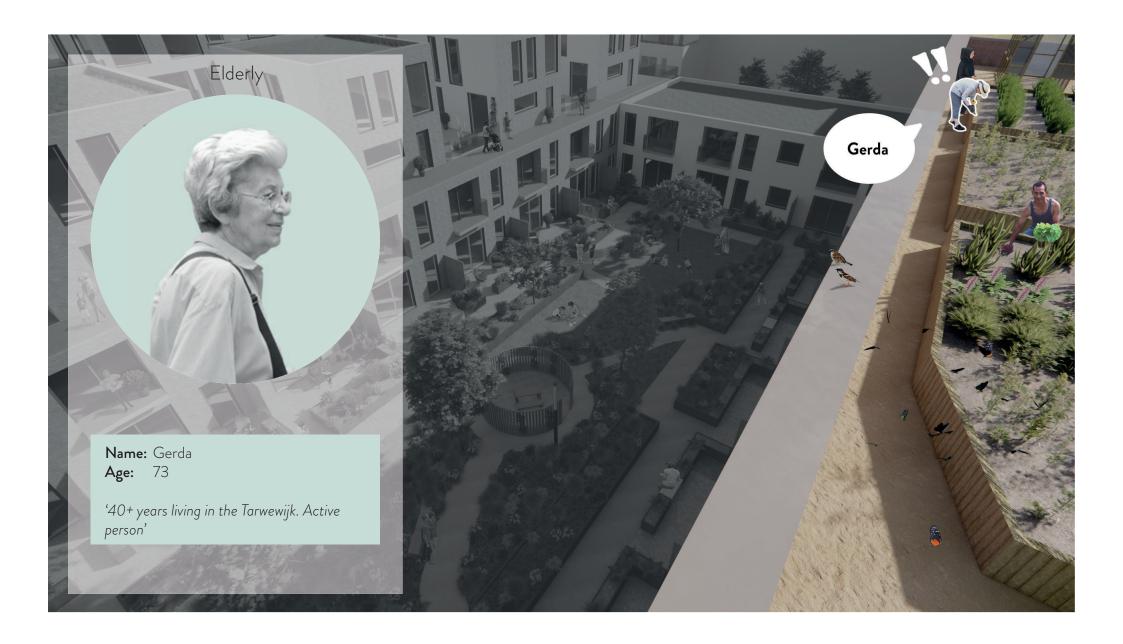


- / 'a Tarwewijk with more social cohesion
- / 'a Tarwewijk with a human scale, for the **people**

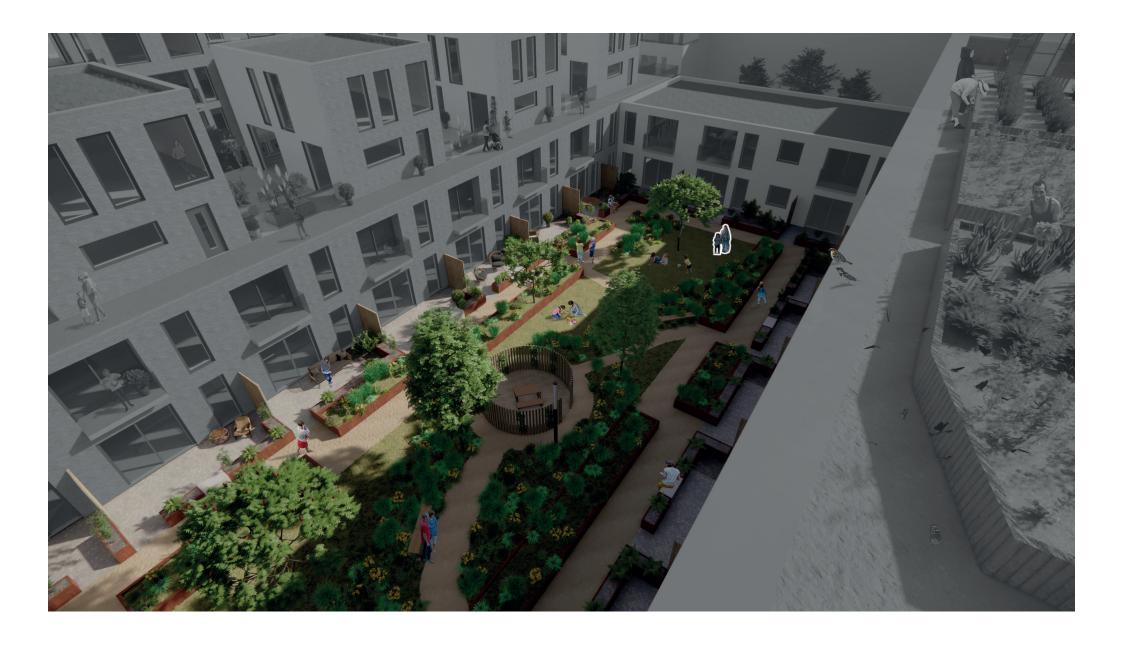












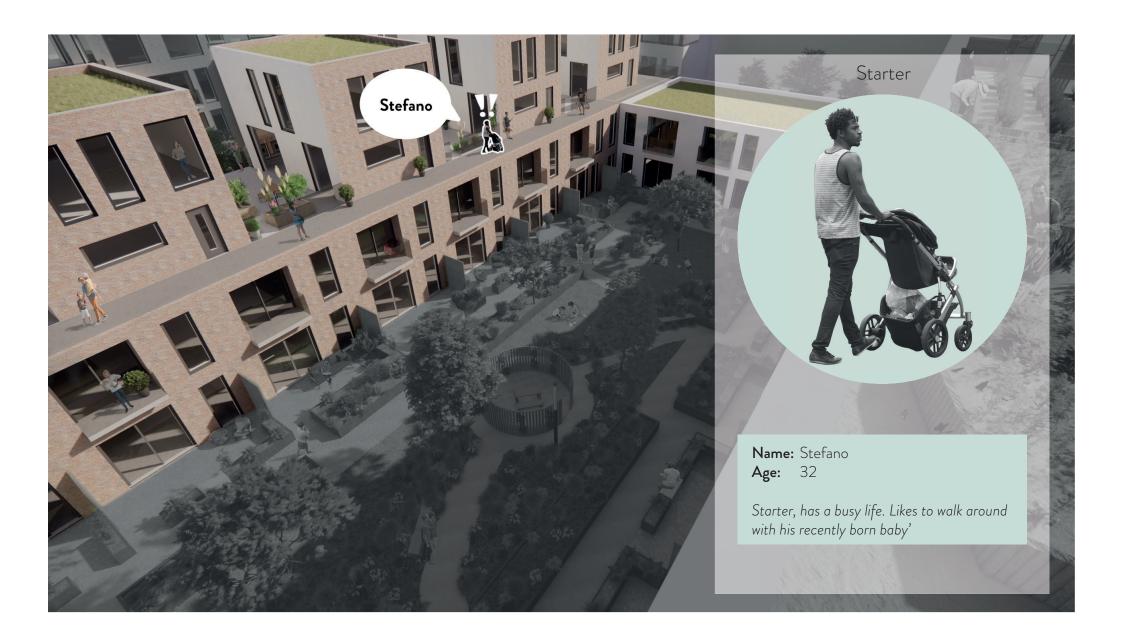


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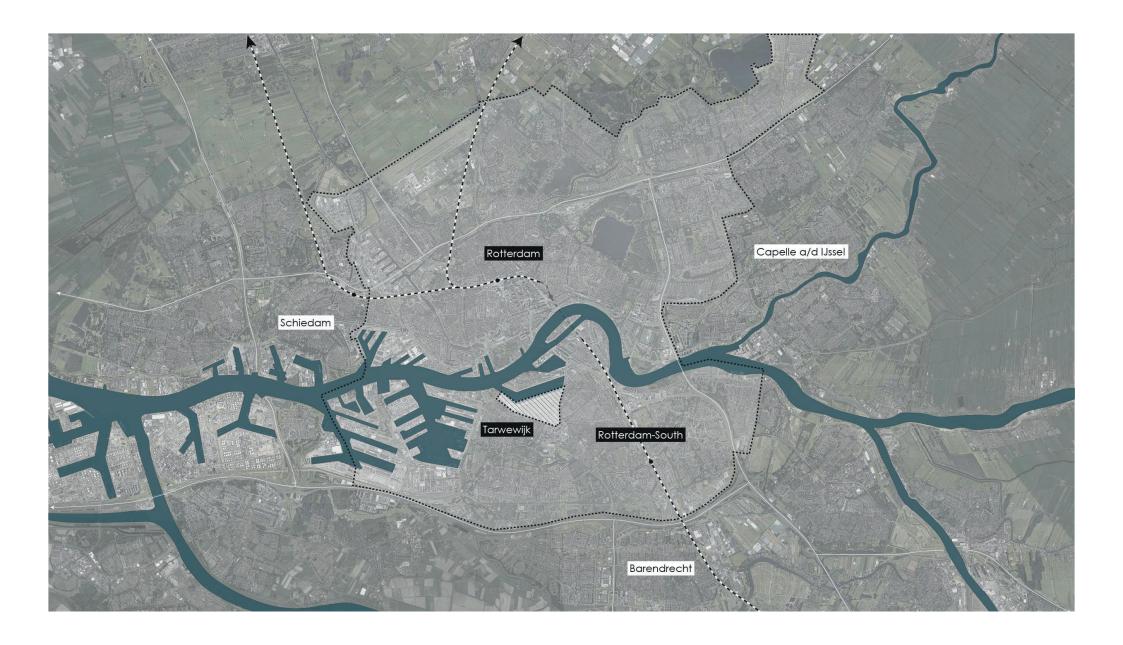








Tarwewijk, a look into the present













Esila

"I'm disappointed that my neighbour isn't doing anything with his garden"







Concrete urban demand 1:

Decrease of soil sealing





Urban domestic gardens contribute to negative effects on the living quality of the urban environment

Increase of soil sealing of the urban environment through the urbanization of cities in the Netherlands

The contribution of urban domestic gardens to soil sealing increases

+

40% of the gardens in Rotterdam are paved, 51% in the Tarwewijk

Tarwewijk Introduction



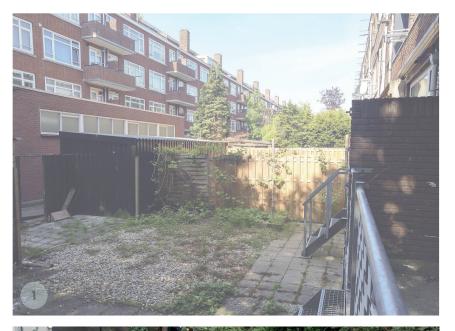
Gerda

"Im disappointed that my neighbour isn't doing anything with his garden"

(1

"Elderly experience to much heat in the public space"

2





Concrete urban demand 2:

Climate proof urban environment





Mismatch between climate adaptation and the use of urban domestic gardens:
Increased contribution of gardens to the problems

Less green: loss of biodiversity

Increased heavy precipitation.

More water related

problems

(floodings)

Increase effects of the Urban Heat Island: warmer in cities



+



•••

Gerda

"Im disappointed that my neighbour isn't doing anything with his garden"

(1

"Elderly experience to much heat in the public space"

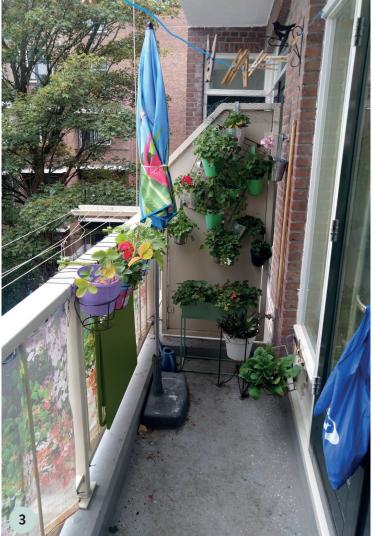
(2)

"Shared gardens would be nice to have, since a lot of people do not own a garden

(3)









Concrete urban demand 3:

+

Densification



Friction between available space for development of dwellings and space for urban domestic gardens and green

Need for 230.000 new dwellings in South-Holland in the existing urban environment

More stress on the quality of open areas like public spaces urban domestic gardens

P5 presentation

Increased importance of the quality of open spaces like urban domestic gardens for the liveability of the local environment

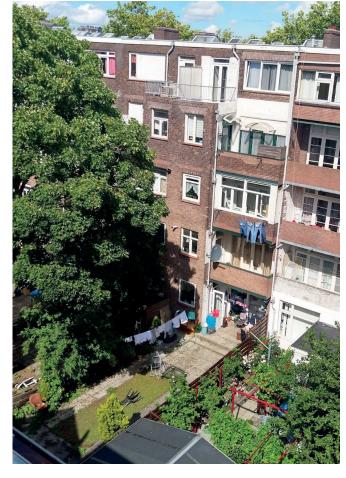


Rediscovering the garden & public spaces

Concrete urban demand 5:

Spatial justice: accessible, qualitative outdoor spaces







"Adults/elderly
have nowhere to go,
there is nothing to
do for them"



Urban environment





Social environment

'Physical environment not aligned with needs social environment'

'Social environment not aligned with needs physical environment'

Reconnect through urban domestic gardens! Urban environment

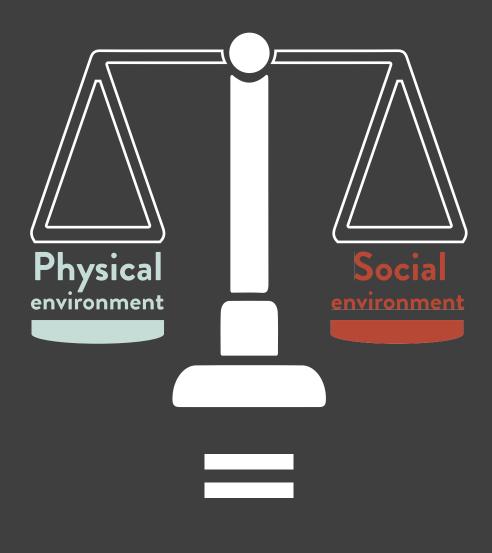




Social environment

'Physical environment aligned with needs social environment'

'Social environment aligned with needs physical environment'



Liveability

How can urban domestic gardens contribute to a more liveable urban environment through a sustainable urban regeneration of the built environment, in response to concrete urban demands?



Value urban domestic gardens?

Environmental values



Microclimate value
Restorative value

Cooling of the urban environment

Natural replenishment groundwater

Decreasing urban floods

Increasing biodiversity

Increasing privacy (front gardens)

Barrier effect

Contributory value

Place attachment

Social cohesion (increased contact neighbours)



"Elderly experience to much heat in the public space"

Environmental values	Microclimate value Restorative value	Cooling of the urban environment Natural replenishment groundwater Decreasing urban floods Increasing biodiversity Increasing privacy (front gardens) Barrier effect
	Contributory value	Place attachment Social cohesion (increased contact neighbours)
User values	Place for passive activities	Place to be passive Sitting and relaxing Watching and feeding wildlife and birds Sunbathing Drying laundry
	Place for active activities	Exersising pets Green maintance/gardening Playing with friends/children Entertaining friends/family Eating picnicking outside
	Restorative values	Place of peace and quietness Increasing mental health Increasing physical health Social well-being
	Representative value	Selling point to others

Tarvewijk, Last je borent

VELDEMIS

ADELINATION OF THE STATE OF THE S



"I have a garden for the green elements, with nice plants and vegetables. I like gardening for the physical aspect, which is important at my age."





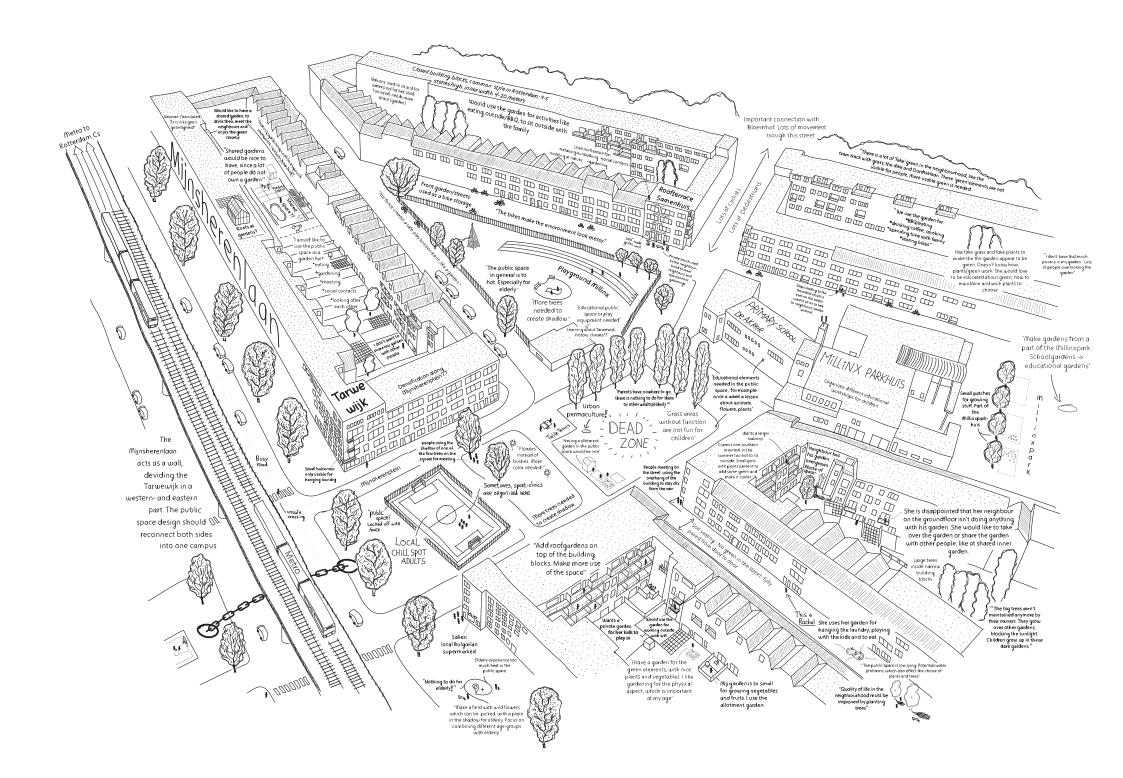


"Educational elements needed in the public space, for example once a week a lesson about an animal, flowers or plants."

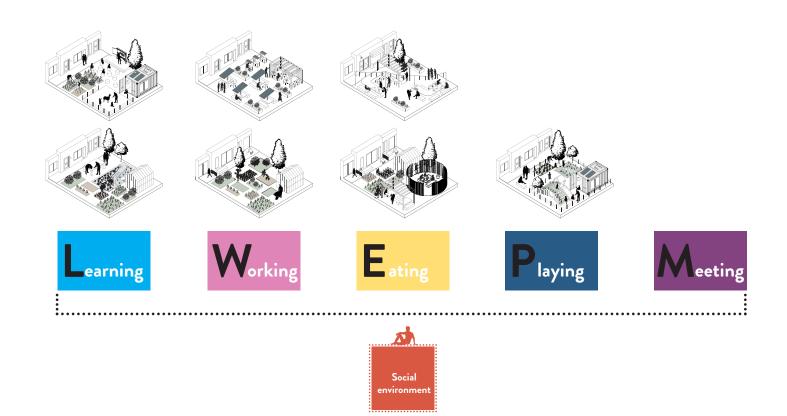








Design Principles

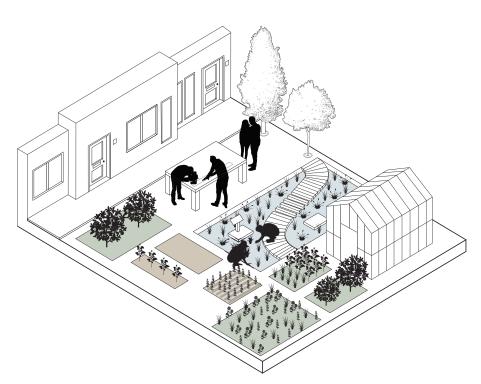


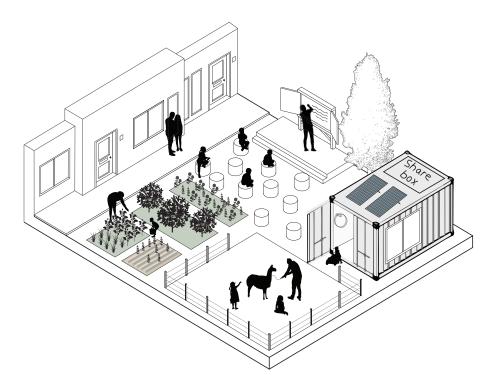




Esila

"I have fake grass and plants to make the garden appear to be green, because I don't know how plants/green work. I would love to be educated about green"





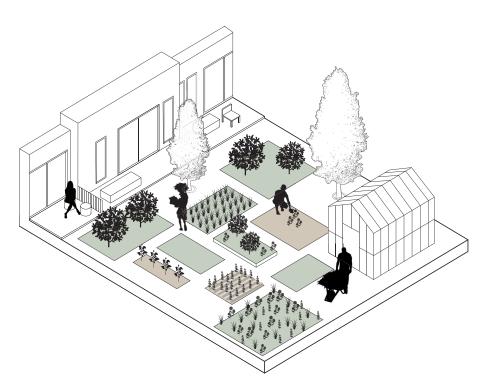


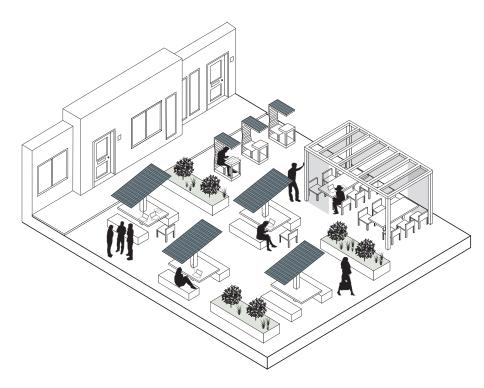






"I would use a garden to work outside with WIFI"









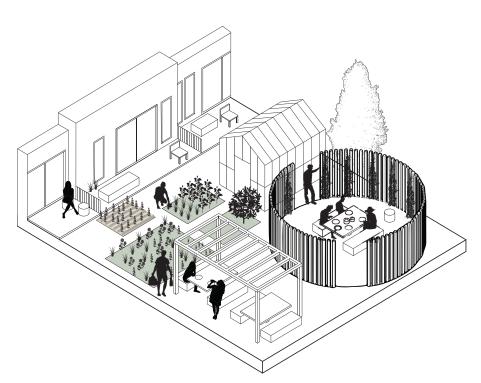


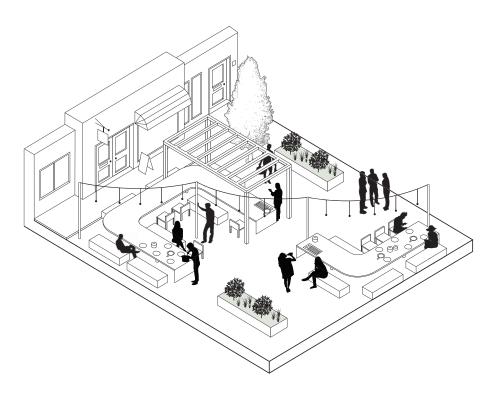






"I would use the public space as a garden for eating, meeting, social contacts, looking after each other"









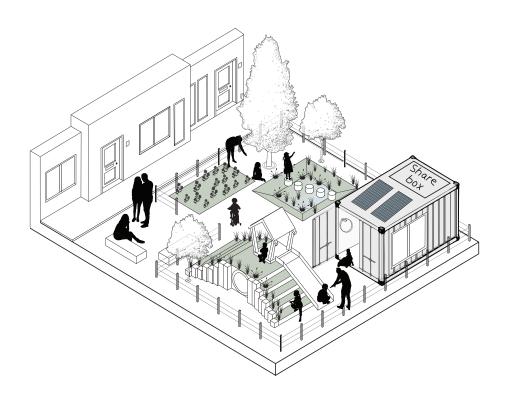








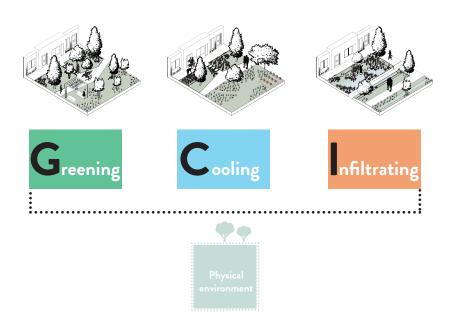
"I want a private garden for my kids to play in"



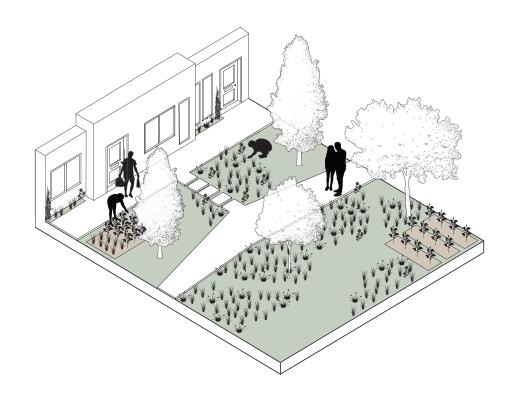












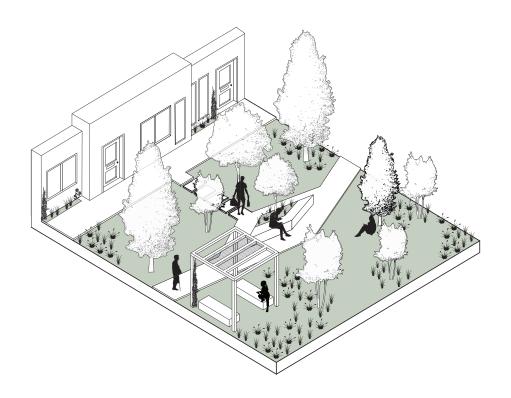








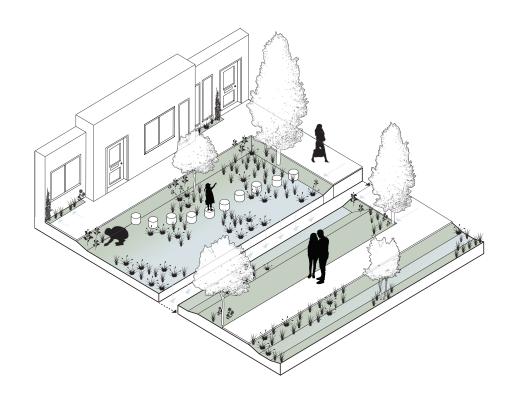
Quality of life in the neighbourhood must be improved by planting trees. Its too hot'











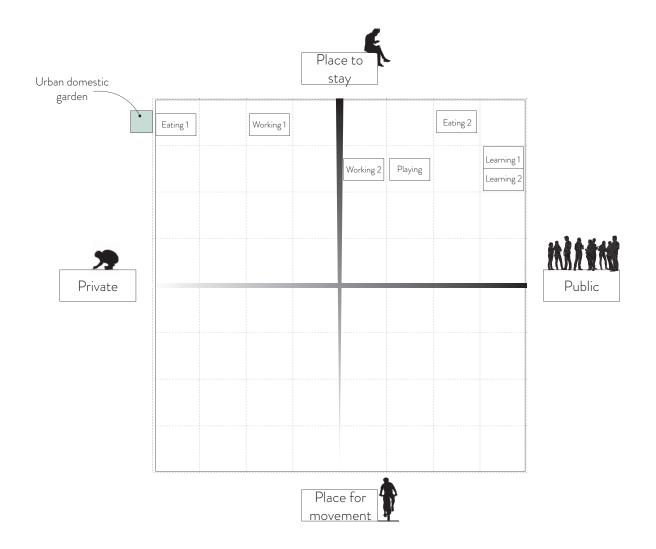






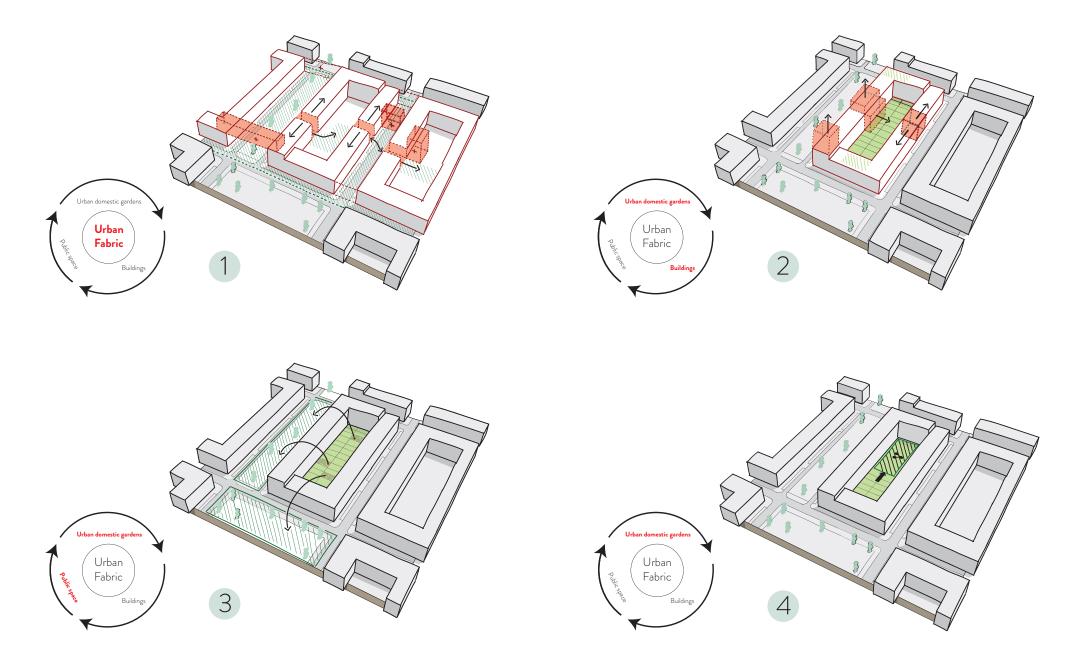








Activating the potential of urban domestic gardens

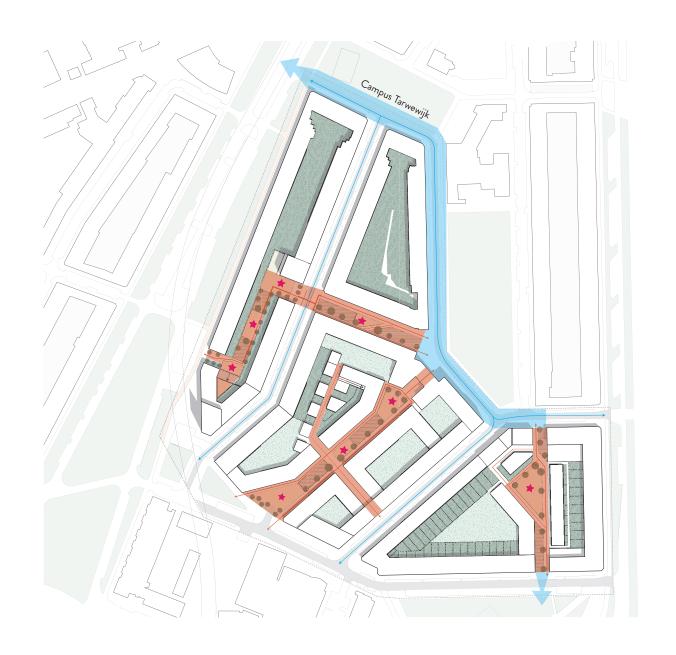


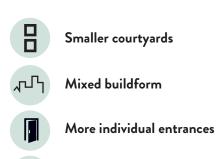


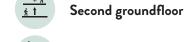






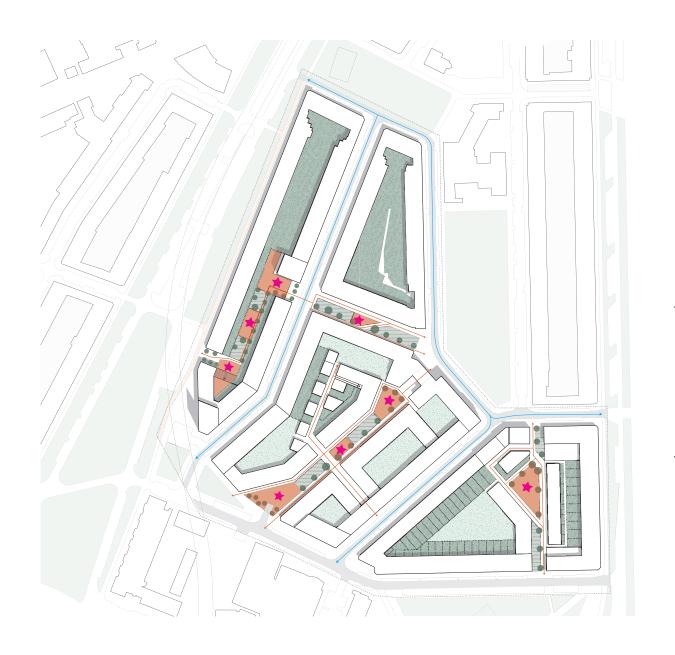


















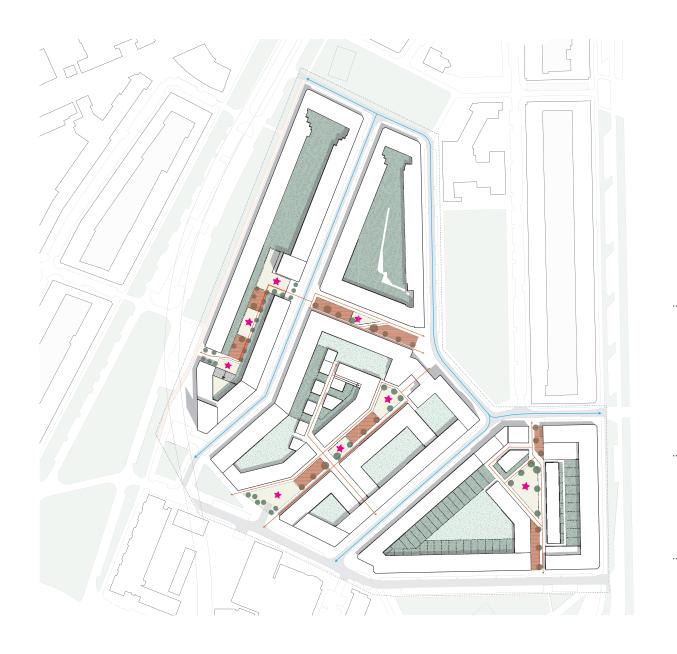
Playing

Working

Meeting



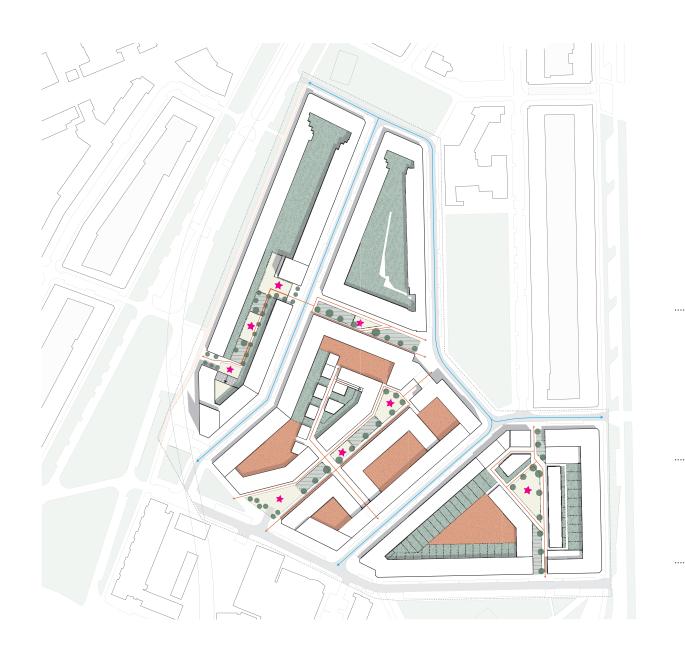








nfiltrating



















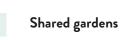










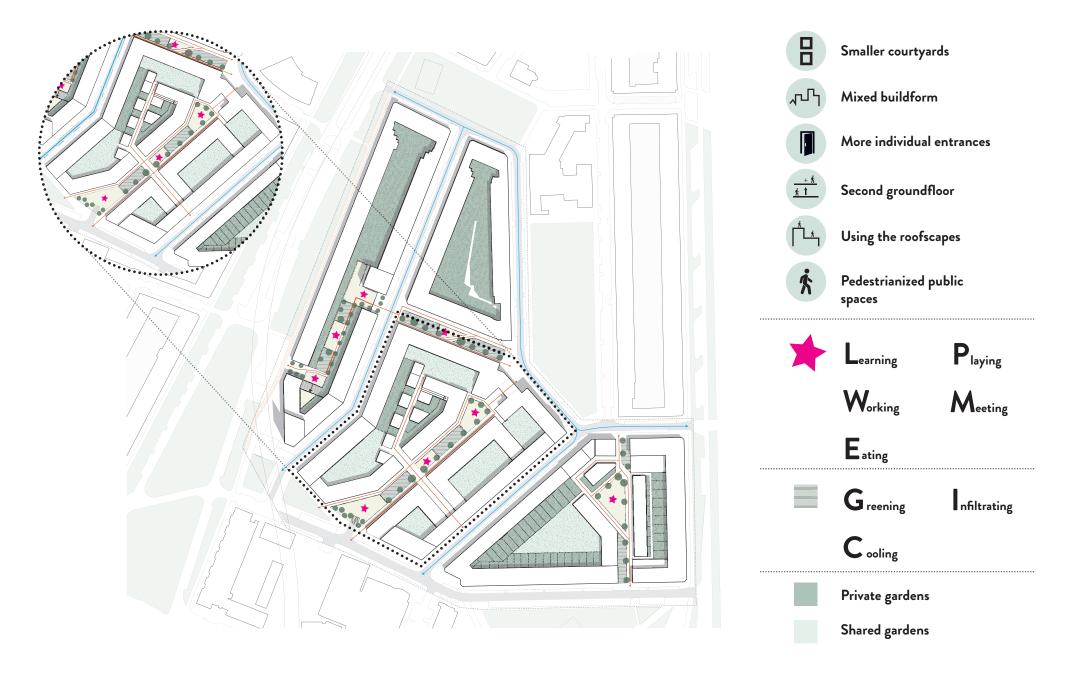






Social

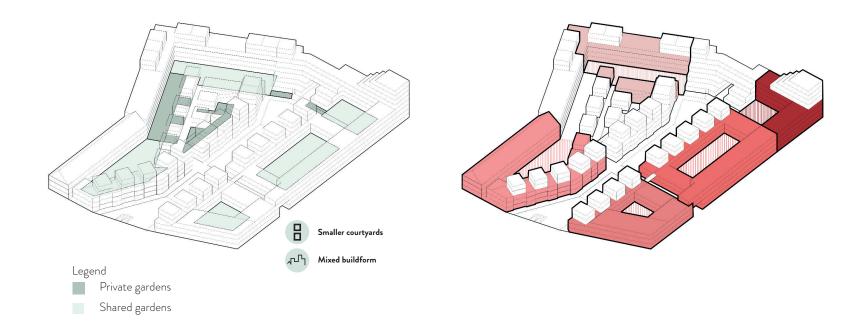




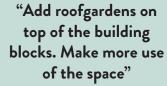


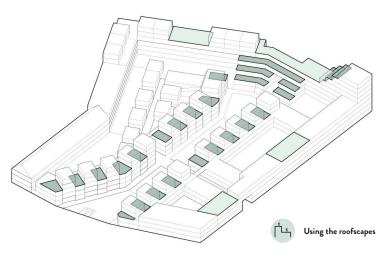


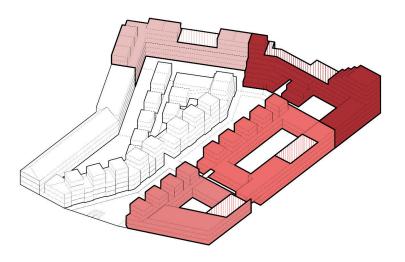












Legend

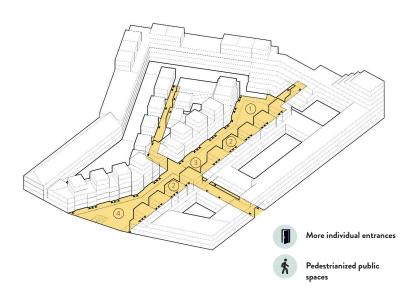
Private roofgardens

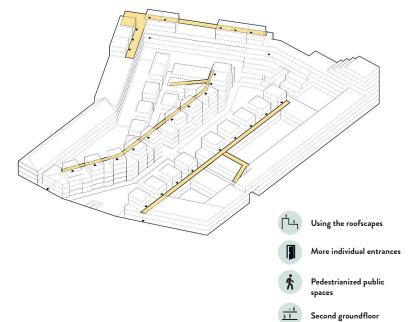
Semi-private roofgardens





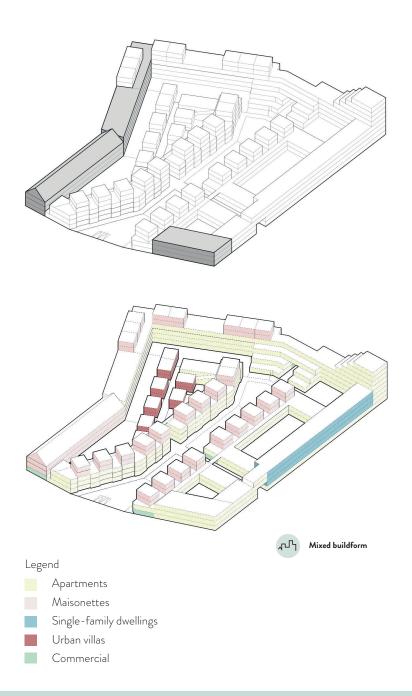
"Having an allotment garden in the public space would be nice"





New qualities public space:

$$\bigcirc$$
 $E_{ating 2}$ + P_{laying}

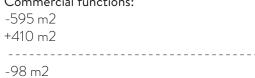


Typology in numbers:

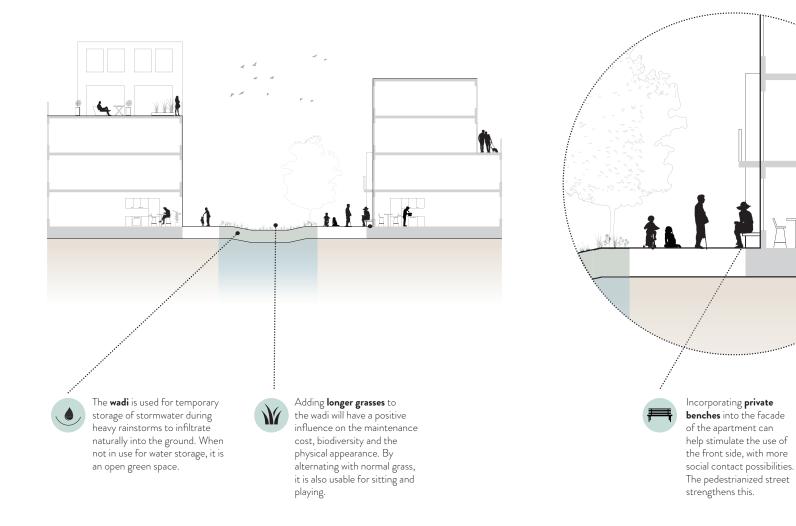
Housing:

-160 dwellings (demolished):	12.140 m2
+244 dwellings:	22.790 m2
+84 dwellings	+10.650 m2

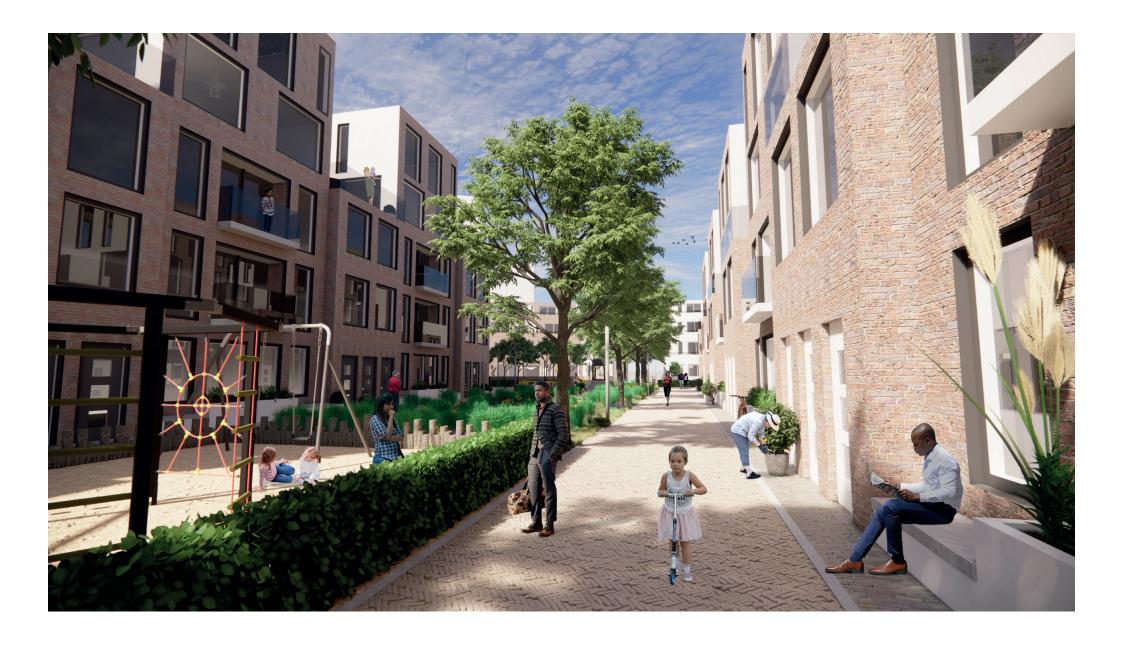
Commercial functions:



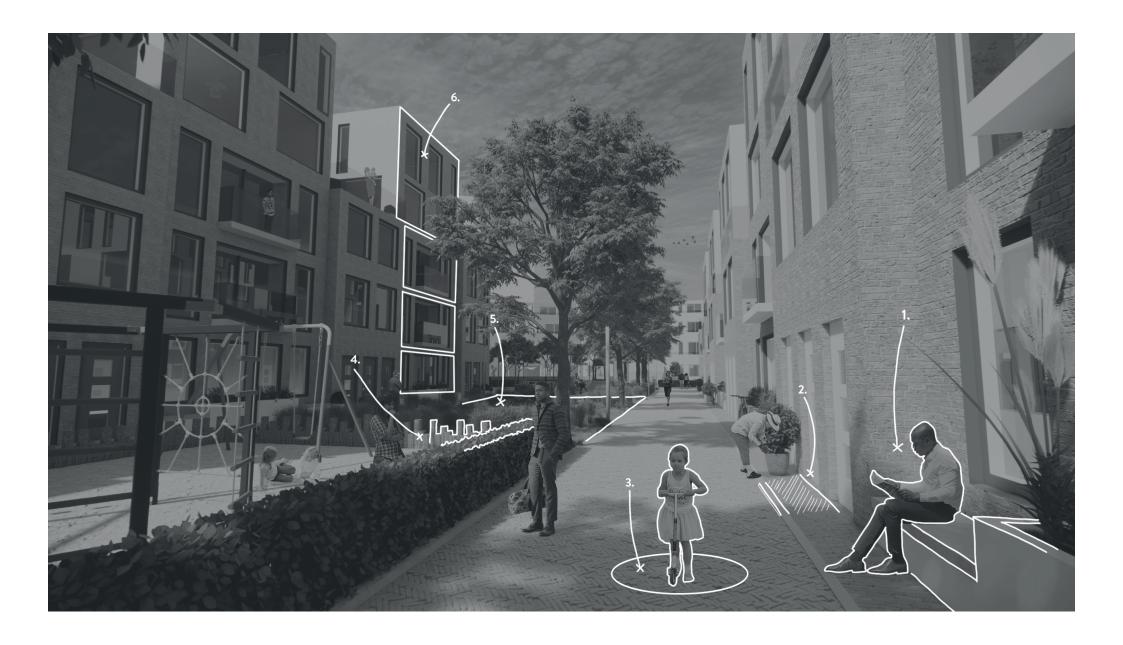
P5 presentation



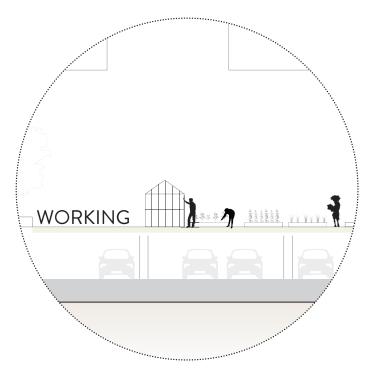












The central glasshouse in the allotment garden can be used to store materials and equipment, for sharing with other gardeners to stimulate social contact.



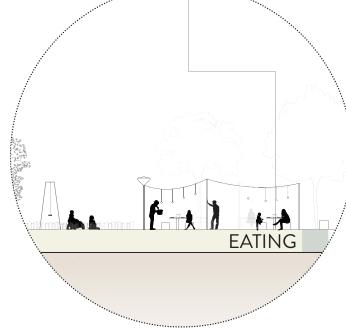
Working in the allotment garden can help improve the physical and mental condition of the residents, while it is also a meeting place for social contact between people.

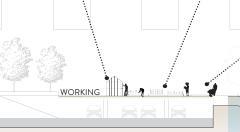
Allotment gardens give people ownership of maintenance. Local stimulate this process further.





Outdoor eating area focused on bringing larger audiences of the local community together through cooking and eating together, an important quality in many cultures of the people in the neighbourhood.









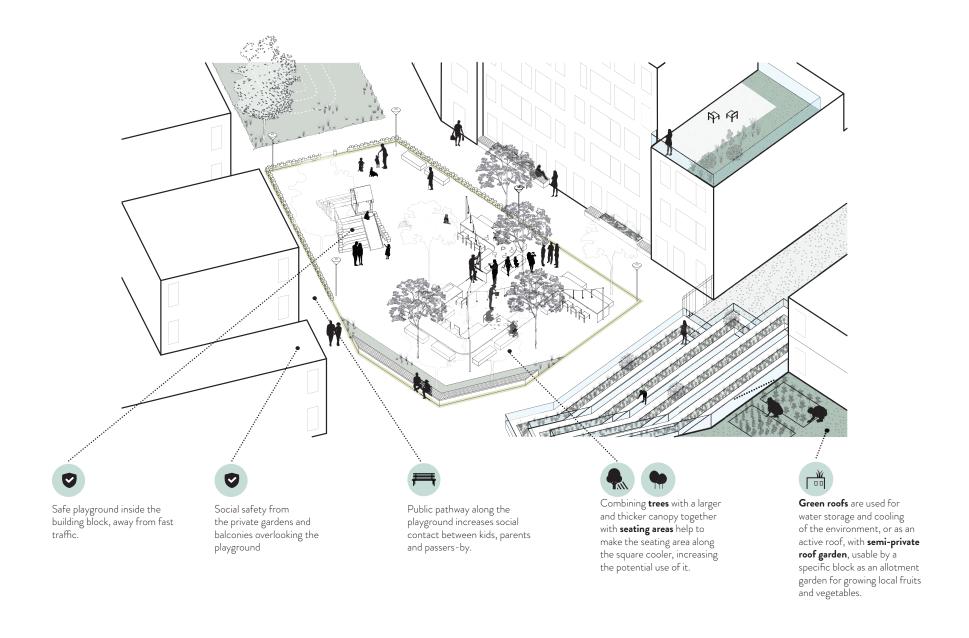








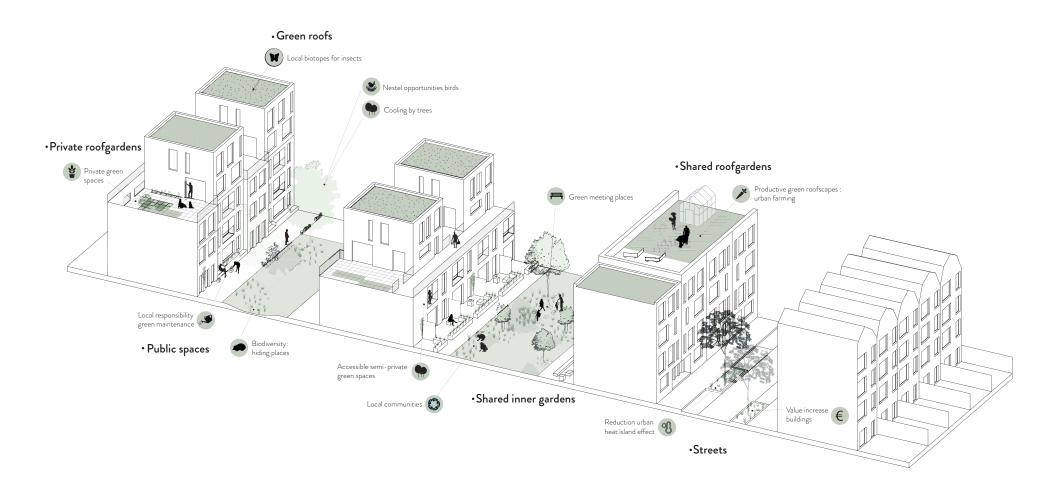








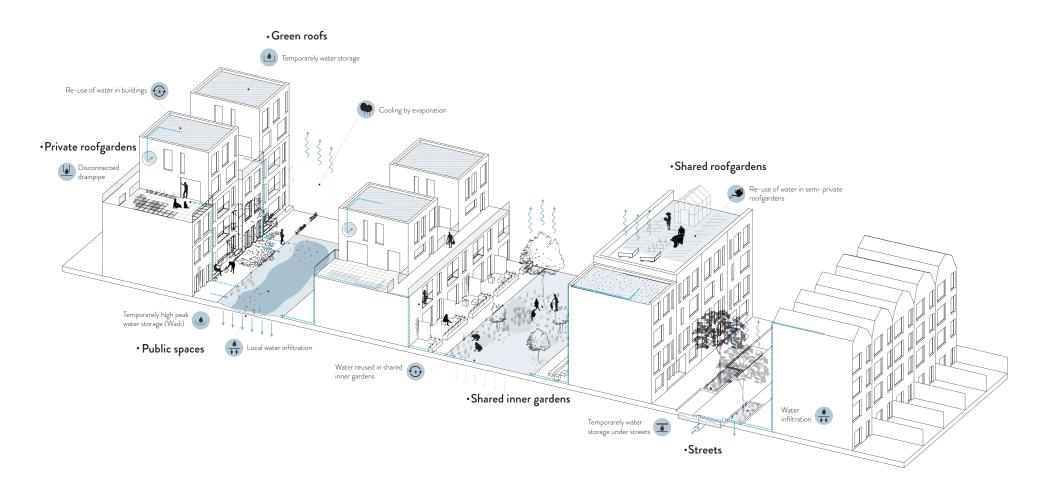
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- / 'a Tarwewijk with more valuable green in different urban layers'
- / 'a Tarwewijk where green connects'

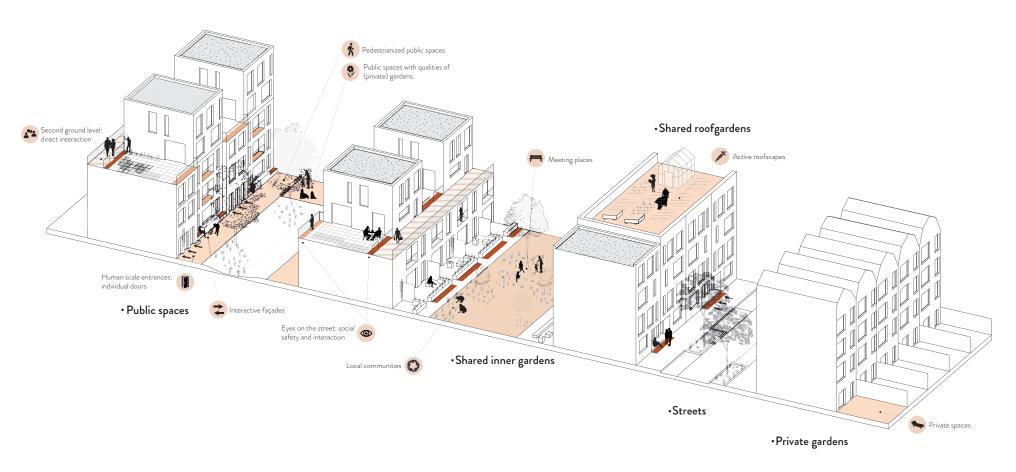






/ 'a climate proof Tarwewijk'







- / 'a Tarwewijk with more social cohesion
- / 'a Tarwewijk with a human scale, for the **people**







Thank you!