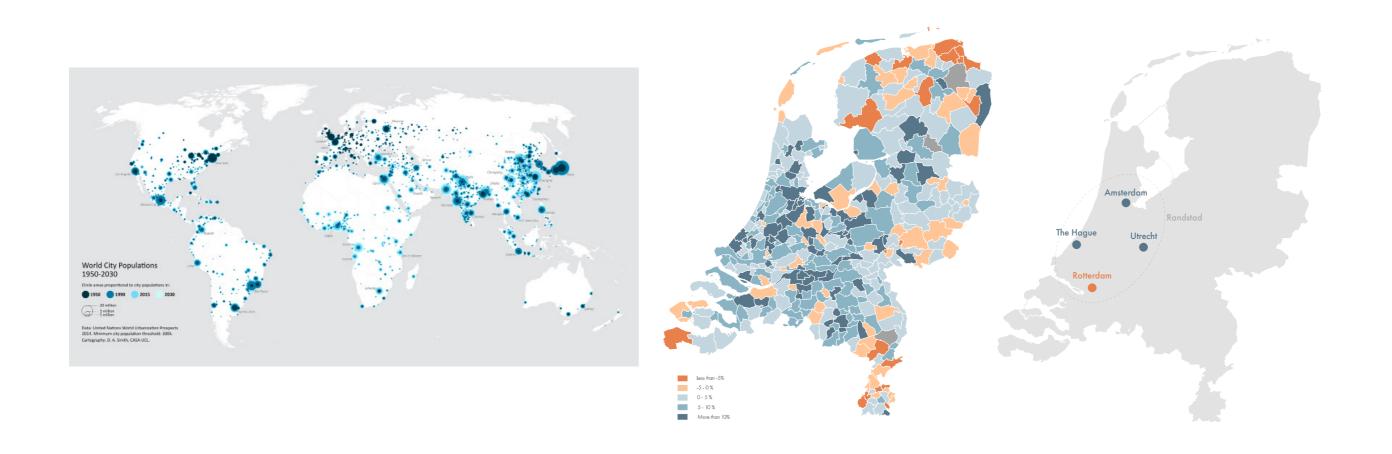


Motivation

MIGRATION
URBANIZATION



Rotterdam





1800 — 2021

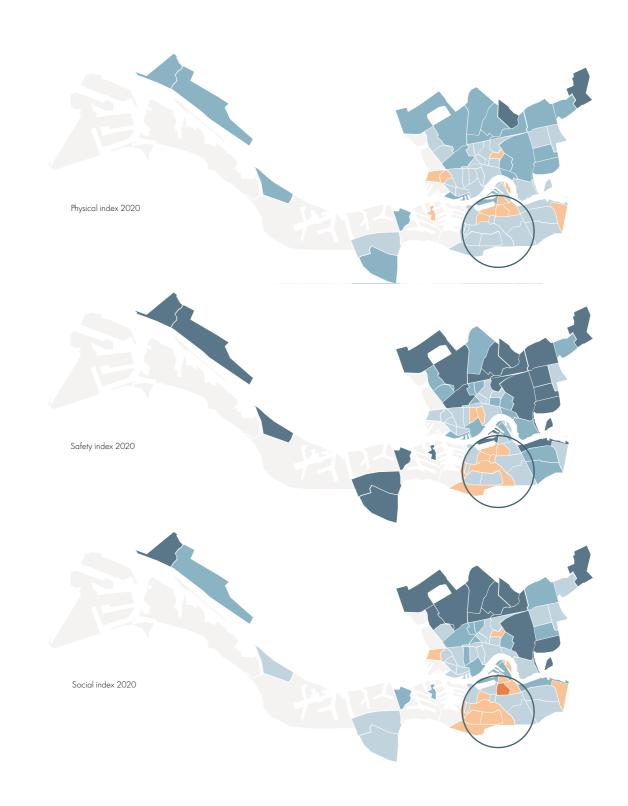
Problem introduction

Baangarantie moet jongeren Rotterdam-Zuid uit criminaliteit houden





Geldplan voor grootschalige opknapbeurt Rotterdam-Zuid



Pressure on sharing public space



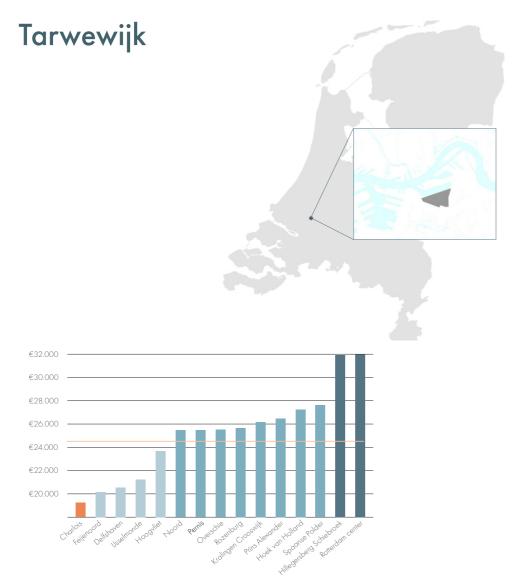










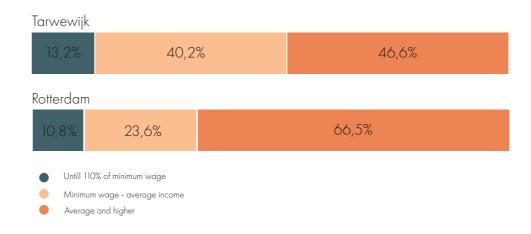




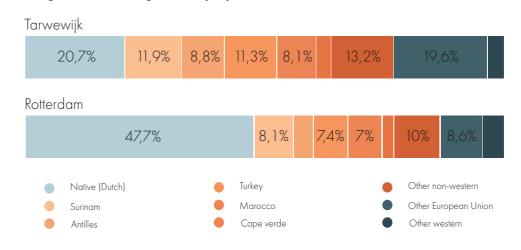
Age categories population



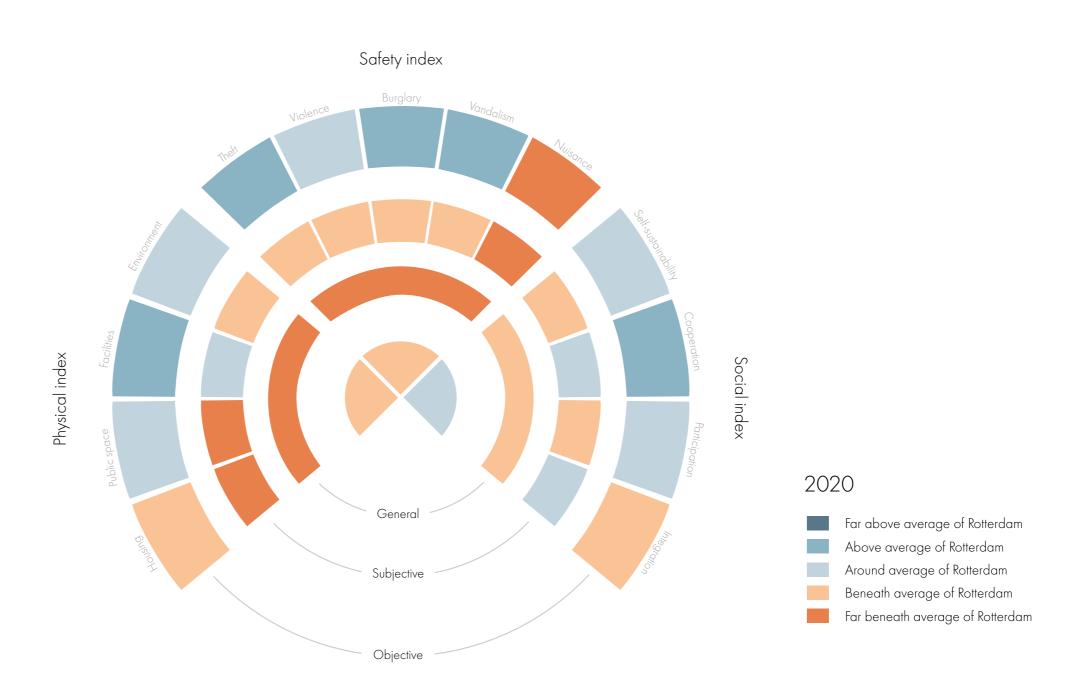
Salary level population



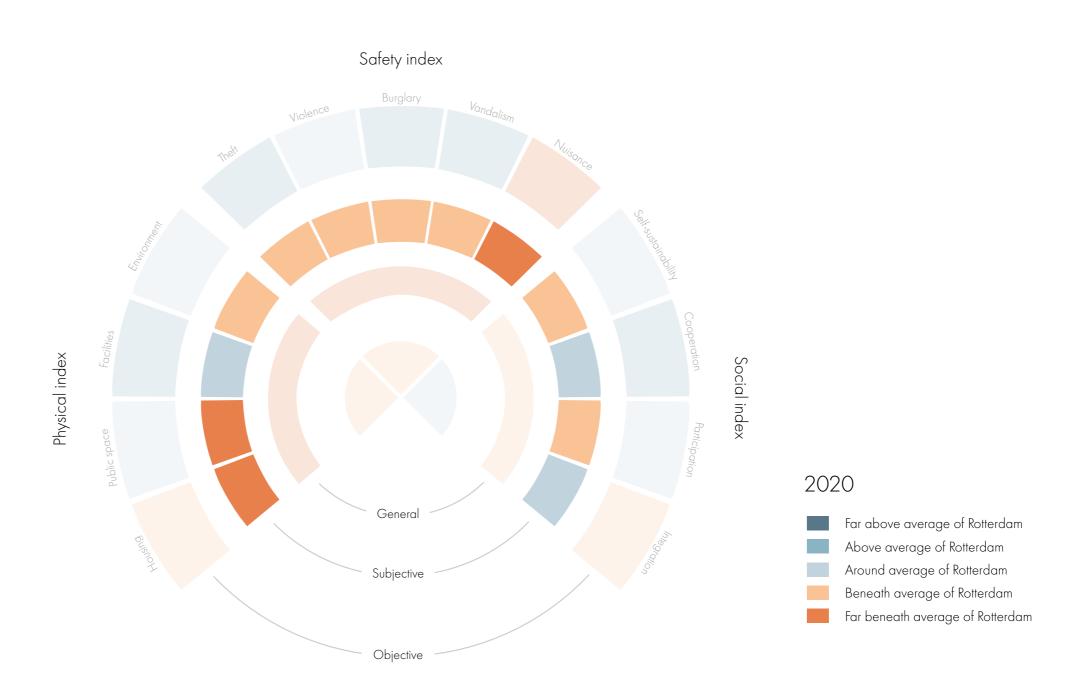
Migration background population



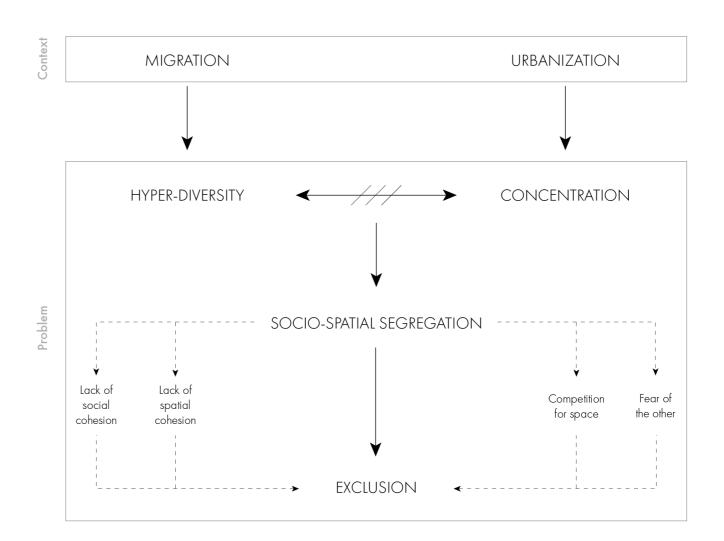
Neighbourhood profile



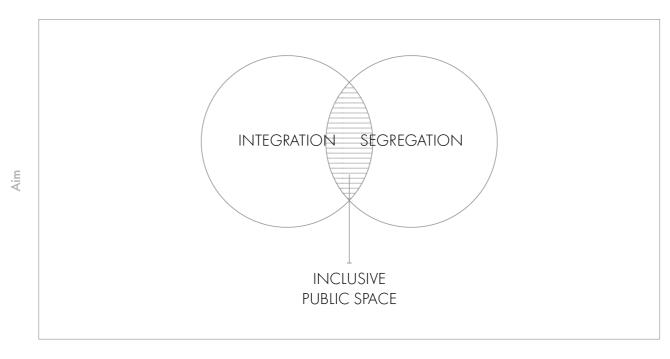
Neighbourhood profile



Conceptual framework



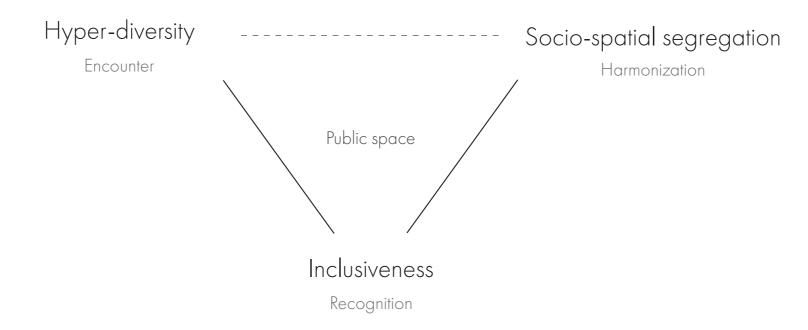
Keep people together Provide people own space



Research question

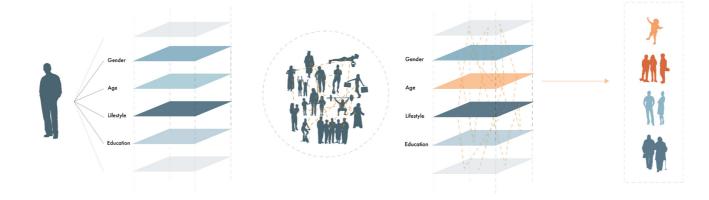
How can public space design enhance inclusivity in a hyper-diverse and socio-spatial segregated neighbourhood of Tarwewijk?

Theoretical framework

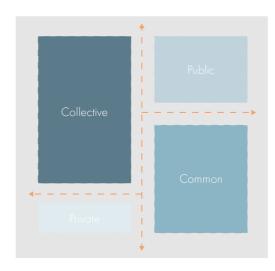


Three values

1. Encounter



2. Harmonization



3. Recognition





- Walkability
- Places for staying
- Edges
- Variety of land use



Walkability

- It is necessary for pedestrians to have enough room to be able to walk freely, without being forced, disrupted or steered too much.
- 2. Enough trust should be provided for the pedestrians to move through the space without a need to worry about their safety in traffic.
- 3. Sidewalks, streets, squares and parks should be safely accessible and usable for pedestrians.
- 4. Physical distance people can and are willing to walk should be kept in mind.
- 5. The street design should be adapted to the speed and pace of pedestrians, a 5 km/h street design.
- Diminish barriers and prevent waiting in order to prevent people to retreat from the street.

- Walkability
- Places for staying
- Edges
- Variety of land use



Places for staying

- 1. Provide places for staying along the edges or in the transition zone between spaces (edge effect).
- 2. Offer choices for sitting such as in front, back, at the side, in the sun or shade, alone or in groups.
- 3. Provide a comfortable microclimate for the users of the public space regarding conditions such as being exposed and shielded from (sun)light, shade, noise, wind and rain.

- Walkability
- Places for staying
- Edges
- Variety of land use



Edges

- 1. There must be a clear demarcation between public and private spaces and between different types of public spaces. Public spaces should be inviting to which everyone should feel welcome to.
- 2. There must be open and active facades for active ground floors and a direct connection between inside and outside of buildings to contribute to the amount of eyes on the street.
- 3. Suitable places for staying should be at places where it is quite simple and natural to enter and exit such as entrances.
- 4. There should be an opportunity for people to appropriate space in front of their home to make it semi-private.

- Walkability
- Places for staying
- Edges
- Variety of land use



Variety of land use

- 1. Neighbourhoods should have a multifunctional purpose. There must be enterprises located along sidewalks such as stores, bars and restaurants.
- 2. Frequent enterprises and different kinds should be provided.
- 3. Public spaces should contain a variety of activities.

- Children
- Youth
- Adults
- Elderly

- Children
- Youth
- Adults
- Elderly



Children

- 1. Children should have a variety of places to play and to learn.
- 2. Children should have enough opportunities for sport and exercise.
- An unspecialized outdoor home base should be provided from where they can play and hang around.
- 4. Children should play under the supervision of adults.
- 5. The design should recognize things that children can do, rather the things they can not do.

- Children
- Youth
- Adults
- Elderly



Youth

- 1. The public space should provide options for communication and interaction.
- 2. There should be exercise possibilities offered for young people.
- 3. Young people should have the option to retreat from the public space for social distance, a place out of sight to gain experiences in their own social structure.
- 4. The design should offer them a place to stay at the edges of public spaces.

- Children
- Youth
- Adults
- Elderly



Adults

- 1. The public space should offer comfortable opportunities for staying.
- 2. Seating possibilities should be offered at edges of public spaces such as along facades.
- 3. Physical activities to do with their children and accessibility to them while playing should be provided for them.

- Children
- Youth
- Adults
- Elderly



Elderly

- 1. Possibilities for physical activities should be provided for them.
- 2. There should be relaxation options in the public space.
- 3. The design of facilities for elderly should enable social interaction.
- 4. The design should take the reduced mobility of elderly into account to prevent them from withdrawing from the public space.

Spatial analysis

- Walkability
- Places for staying
- Edges
- Variety of land use



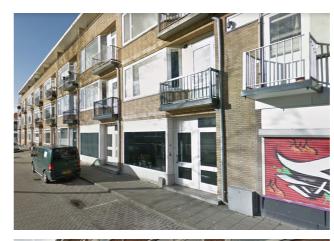
Walkability

- **À**
- Narrow sidewalks
- Unsafe crossings
- No 5 km/h street design

















Places for staying



- Few choices in sitting
- Lack of seating in transition zones
- Need for better microclimate







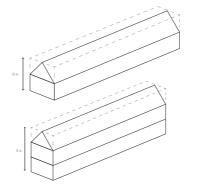


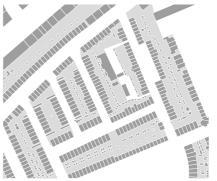


Edges 🥏



- No private garden
- More welcoming public space
- Better connection inside outside
- Lack of seating at entrances
- Lack of soft borders

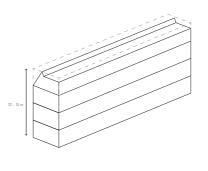








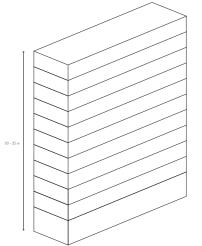


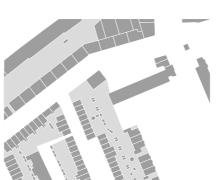


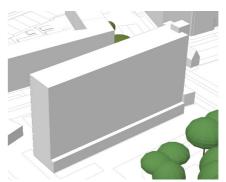










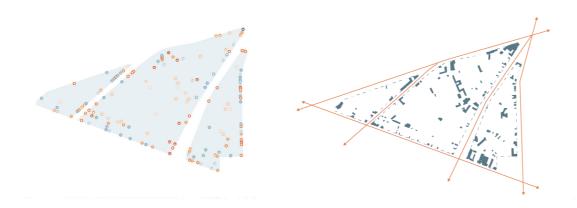




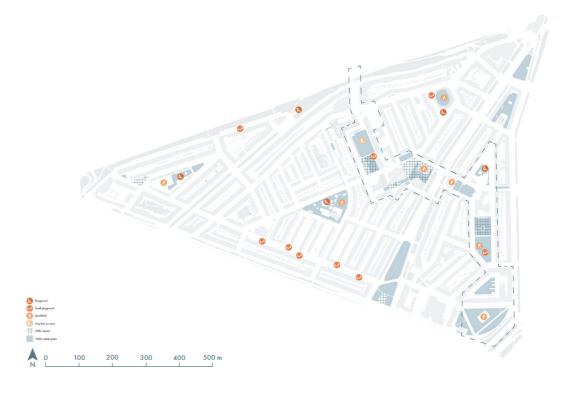
Variety of land use



• Facilities at borders







Fieldwork

- Survey
- (Street) interviews







Results fieldwork

General



- Cars drive agressively and fast
- Playgrounds not accessible during whole day



- Most beautiful space is destined for dogs
- Lack of benches



• Lack of social control



 Lack of sport facilities, parks and shared gardens

Age specific

Problems



- Hard materialization floor playground
- No space for girls to play
- Missing playing equipment
- Public spaces are too dirty
- Nuisance from adults hanging around
- Playgrounds not accessible due to traffic



• Hard materialization floor sports field



- No activity for adults
- Public space not usable during other seasons
- Public spaces are too dirty
- No usable green



Wishes

- Hedge or fence for safety
- Space for sport
- Space for playing
- Place for creative expression
- Inspirational space
- Choices for multiple activities
- Activity with parent
- Space to meet other youth
- Space for outdoor eating
- Shared (allotment) garden

• No mark

• No market in neighbourhood

- Space for meeting others
- Green space
- Accessible public space



- Flexibility
- Shared space
- Maintenance



Flexibility

- 1. There should be enough room for own interpretation of the public space.
- The public space should be adaptable to different uses and activities during the day, week and year.

- Flexibility
- Shared space
- Maintenance



Shared space

- 1. There should be an activity in the public space that appeals to different social groups at the same time.
- 2. Current circumstances regarding space appropriation and exclusion should be taken into account.
- 3. Sufficient alternative outdoor spaces should be available for all social groups to prevent them from being excluded from the public spaces at all.

- Flexibility
- Shared space
- Maintenance

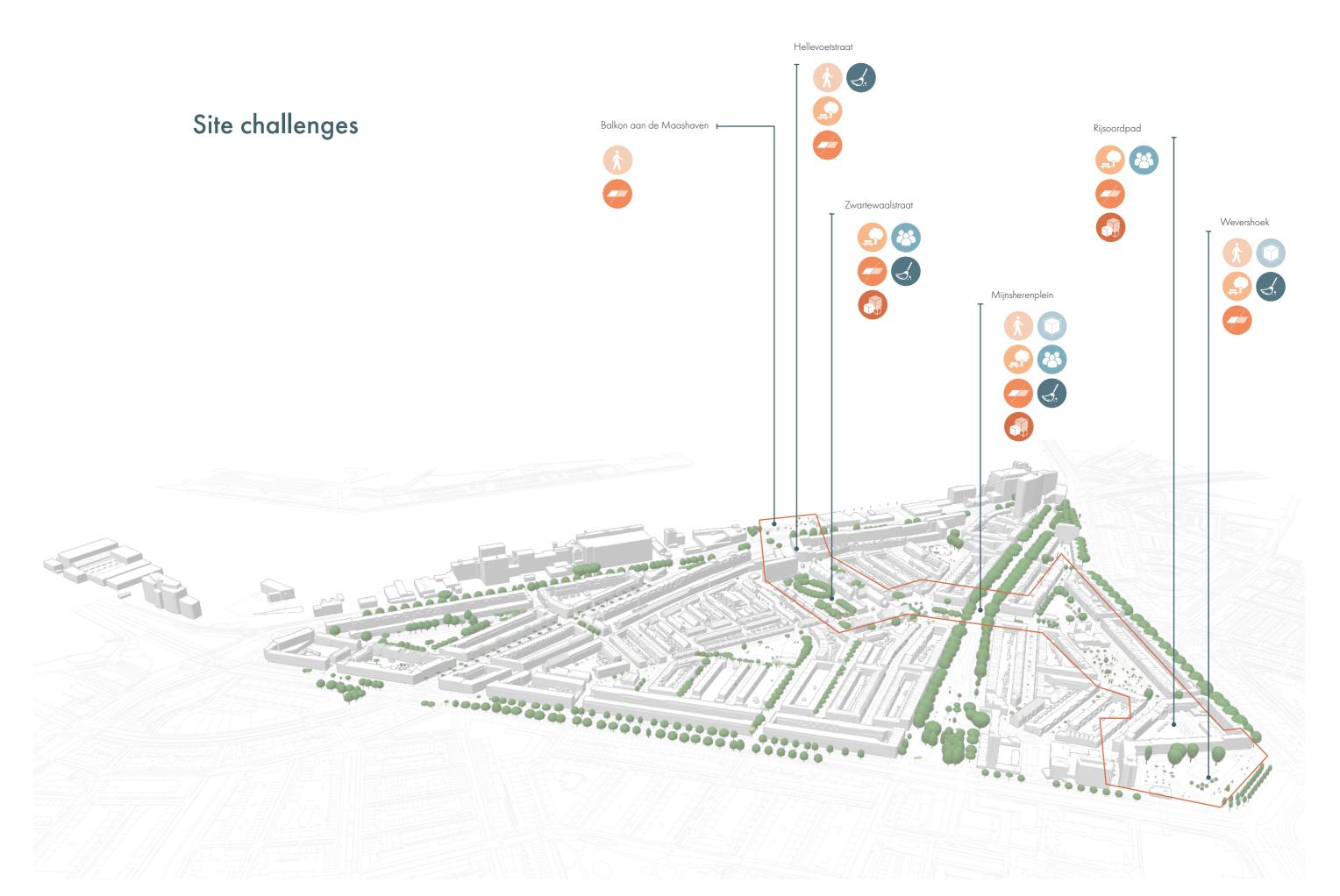


Maintenance

- 1. There should be valuable public space offered for the already existing organizations.
- 2. The design of the public space should enhance the sense of community, connectedness and ownership among inhabitants.
- 3. The design of the public space should be robust and sustainable.

Design



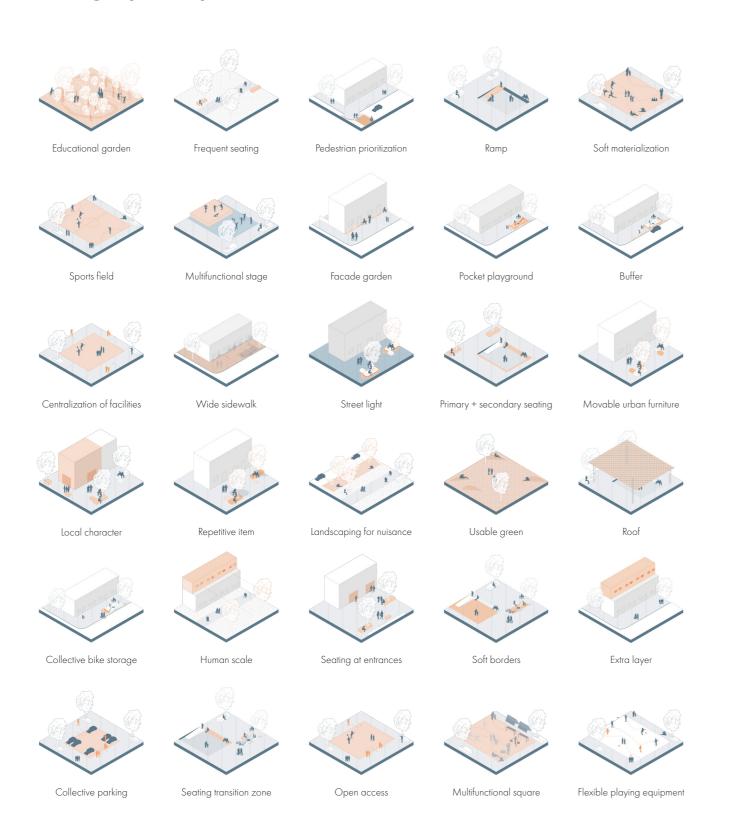


Vision Campus Tarwewijk

- Green ribbon
- Connecting people and place



Design principles



General

- Walkability
- Places for staying
- Edges
- Variety of land use
- Flexibility
- Shared space
- Maintenance

Age specific



Children



Youth



Adults



Elderly

Combination of design principles

Wide sidewalk Buffer Pocket playground Collective bicycle storage Facade garden



40 | 53







A pocket playground including a buffer and sufficient amount of green will provide environmental comfort for people to stay longer in this public space. Moreover, this playground can via triagulation result in interaction between inhabitants.



Seating at the entrances can for example result in elderly combining the activity of grocery shopping with meeting others turning grocery shopping into an exciting trip rather than just a necessary activity.



A ramp is provided to achieve Balkon aan de Maashaven for people who experience difficulties with walking.





Design interventions location 2











An educative garden will provide a shared (allotment) garden for the residents and an inspirational place for the children from the school (located next to it). The dog free run area placed next to it will make the space even more interesting and joyful for people to stay in.



Primary seating such as benches and movable urban furniture will provide people a place to sit between different types of public spaces and entrances to watch and interect with their environment. This will also provide a space for parents to stay when picking up their children from school.



Small walls will serve as secondary seating to provide options for sitting.





The space in general will be interesting to walk through (when going to the supermarket for example) and will entice people to stay and hang around.





Space appropriation in front of the apartment building will be made possible by lowering the hedge and provide options for sitting.



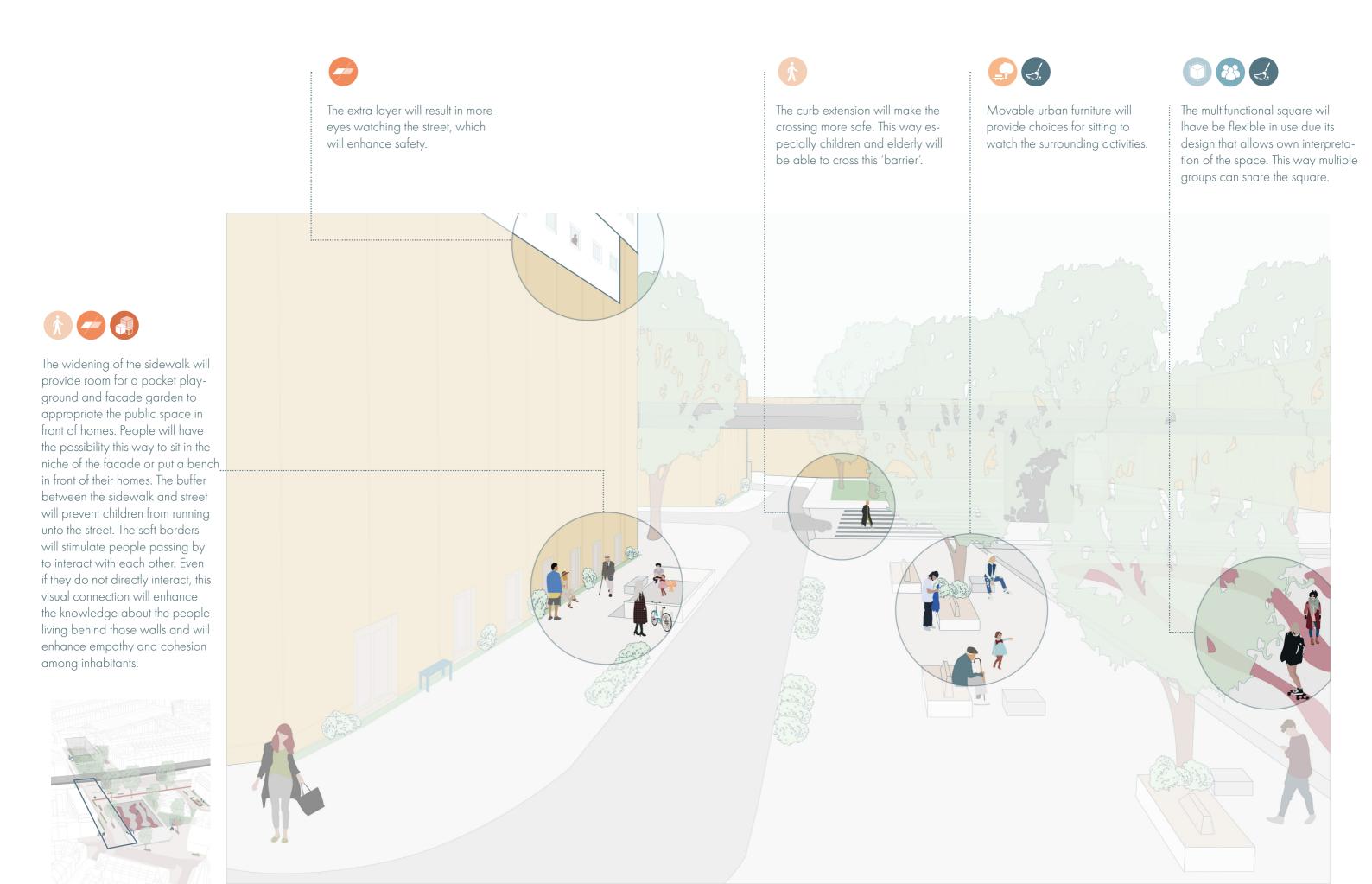
People will be enticed to sit in their front gardens due to the activity that will be going on by these design interventions.

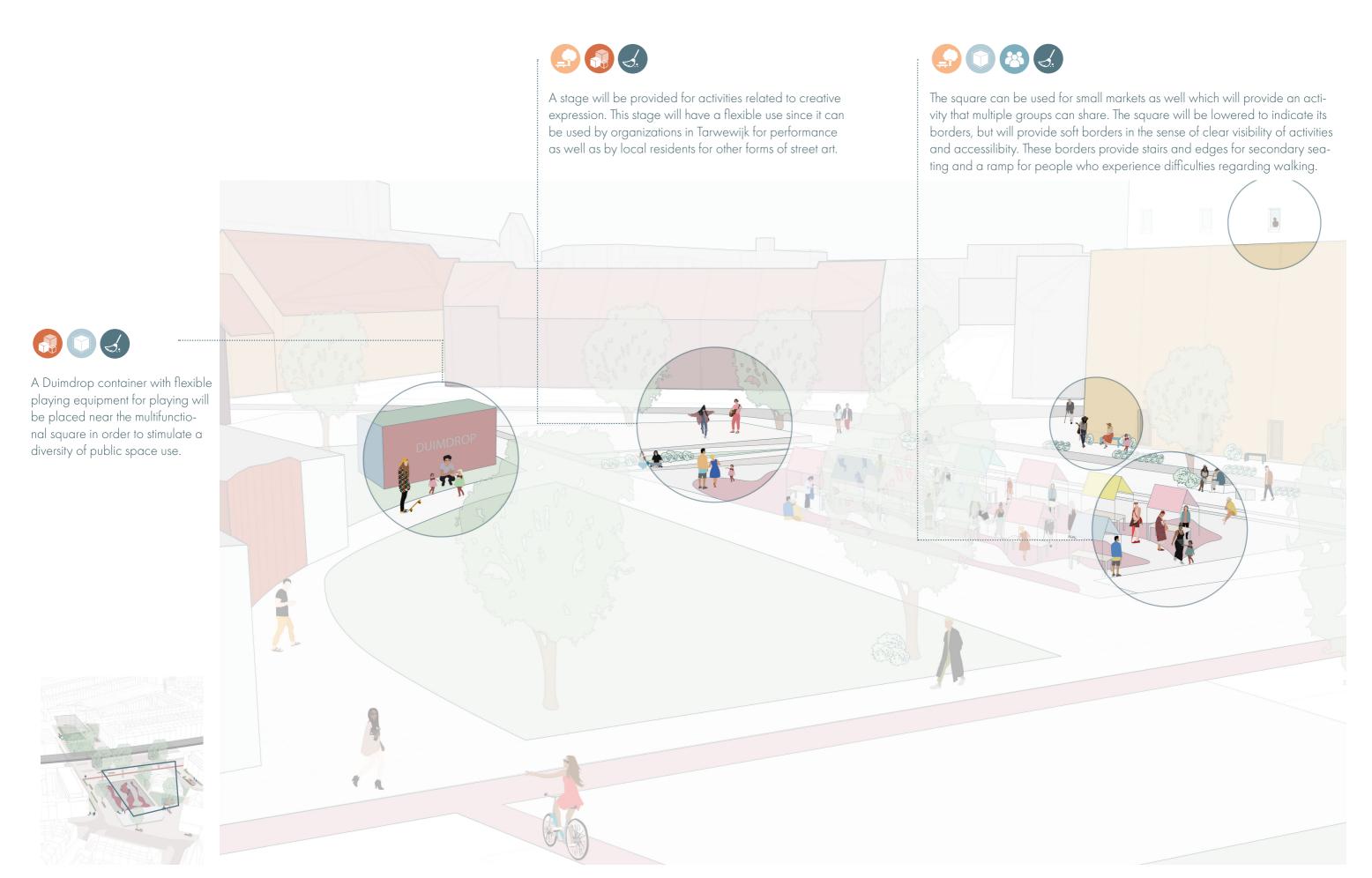




Design interventions location 3













Research question

How can public space design enhance inclusivity in a hyper-diverse and socio-spatial segregated neighbourhood of Tarwewijk?

- Encounter between people
- Harmonization rooms with soft borders
- Recognition of needs

