The Maritime Mile

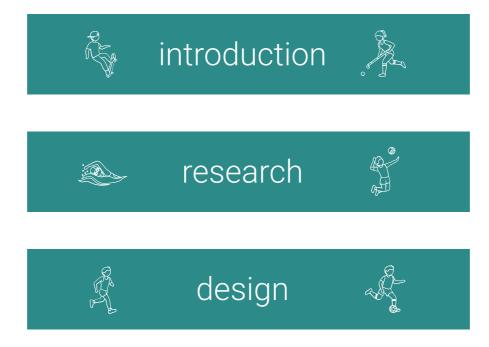


A SUSTAINABLE SPORTSCAPE IN AMSTERDAM



Bonnie Schaafsma P5 | 5th of July 2019 Design tutor | Emiel Lamers Research and BT tutor | Marcel Bilow

contents





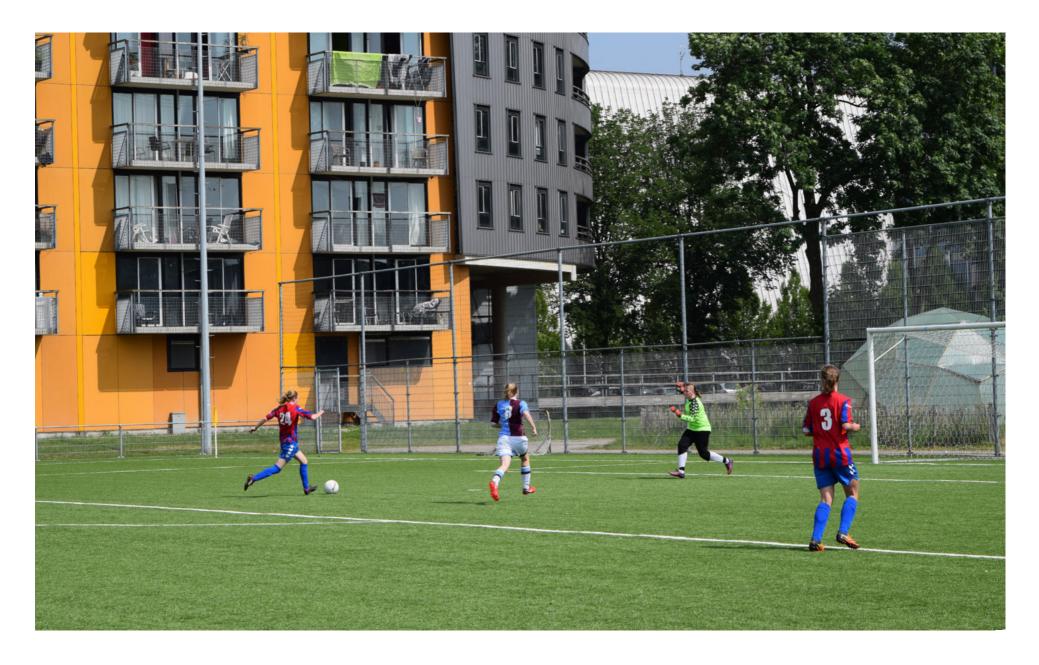








fascination











fascination

Droogterecord 1976 gesneuveld

Het is nu droger dan het in 1976 op 25 juli was. Het neerslagtekort bedroeg toen gemiddeld over het land circa 257 millimeter.

ANP 25 juli 2018, 7:20



BEELD TAMMY VAN NERUM

Uitzonderlijk warm water perfecte habitat voor blauwalg

Diepe wateren in en om Amsterdam (zoals de Sloterplas, Nieuwe Meer, Gaasperplas, Ouderkerkerplas en Noorder IJplas) zijn sinds de eerste metingen in 1982 zelden zo warm geweest. Blauwalgen kunnen zich geen betere habitat wensen.

Josien Wolthuizen en Roelf Jan Duin 26 juli 2018, 12:23



Een deel van de buitenbaden in Amsterdam heeft wegens de hitte de openingstijden aangepast.

Het Parool 24 juli 2018, 12:59



Het Flevoparkbad blijft de komende dagen open tot 19.00 uur. BEELD MARCO KEYZER











problem







problem

Also, the **public space**, specifically parks, is used more and more for daily sports activities.

- Gemeente Amsterdam | Gebiedsplan Centrum Oost 2017 & Trendrapport Stad 2016

The **need** for sports, especially among young people, **is large**.

- Verkenning Marineterrein Amsterdam 2017

"Sport creates a healthy city, **encourages** the **interaction** on the terrain, with its surroundings and the city."

- Bureau Marineterrein













problem

need for intensively used and **multifunctional** accommodations

demand for sport structures integrated into the living and working environment, **in the public space**

- Sportspace

cherish sports in the middle of neighbourhoods. ... they can contribute to the social cohesion

- Urhahn Urban Planning & Strategies

PROPOSAL FOR AN OPEN AIR GALLERY AND SKATE PARK
SHIFT ARCHITECTURE URBANISM
ROTTERDAM





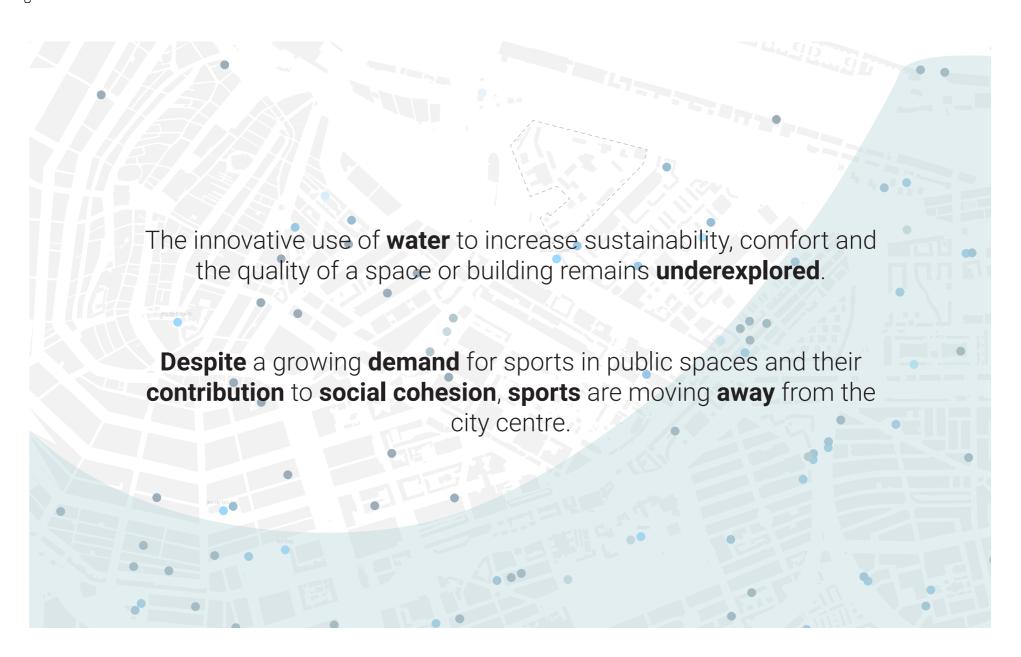








problem statement



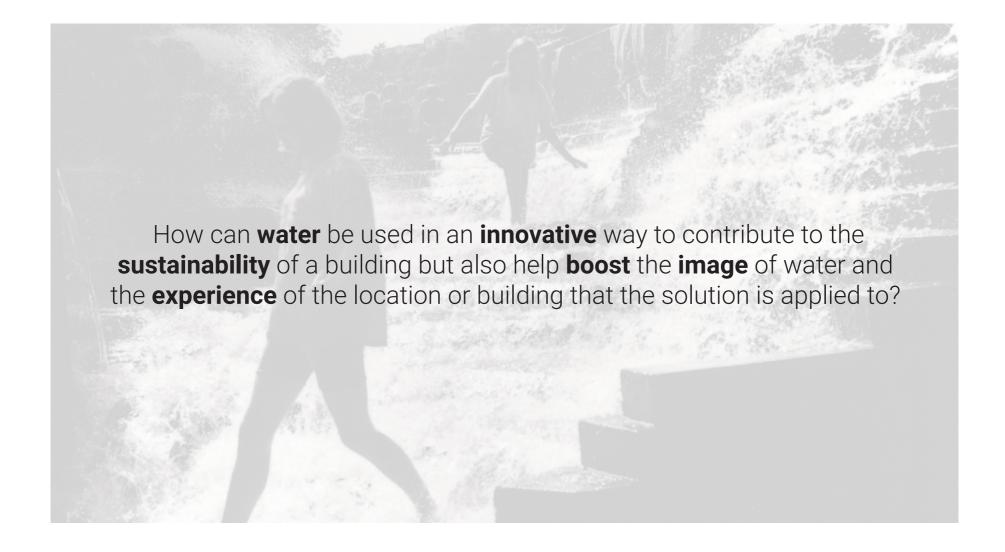
introduction





Research

research question



research

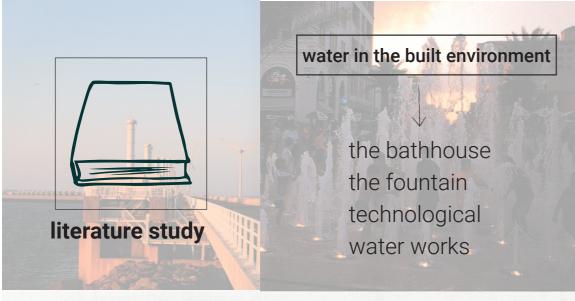








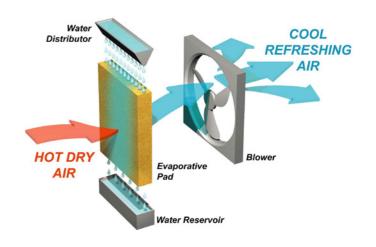
methodology





evaporative cooling

how it works then now













methodology



case studies



Alhambra and Generalife





Lovejoy and Keller Fountain



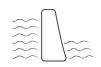


Gradierwerk Bad Salzuflen





The Dutch Delta Works



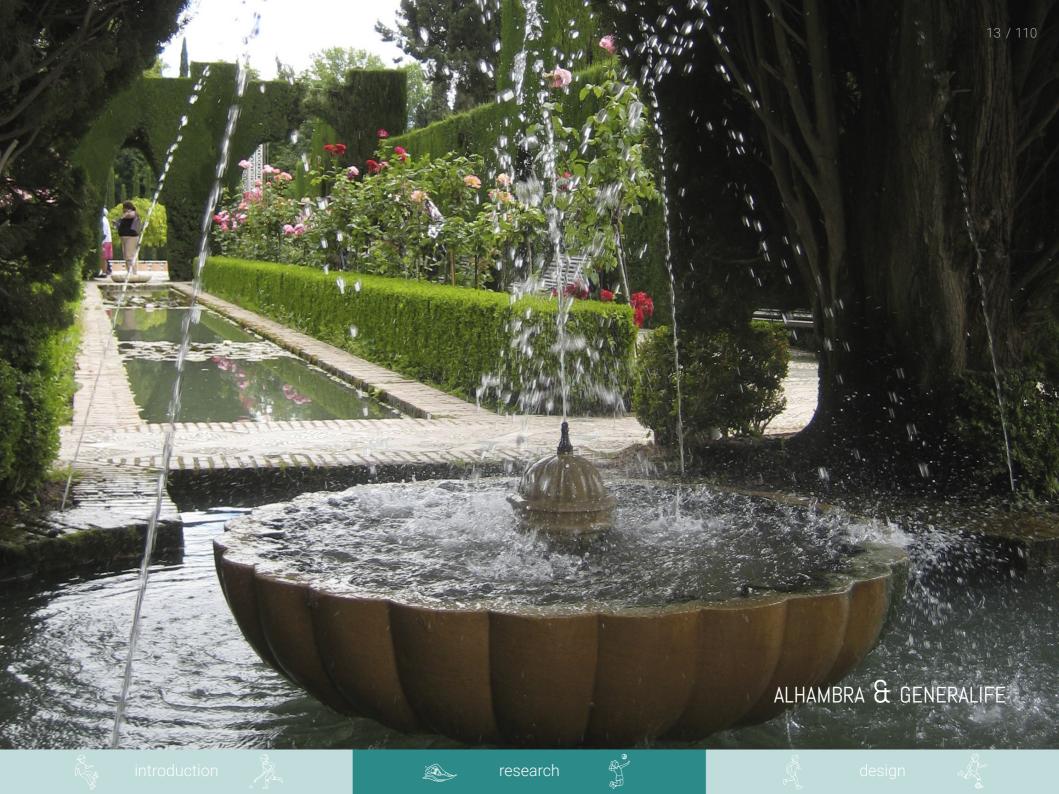


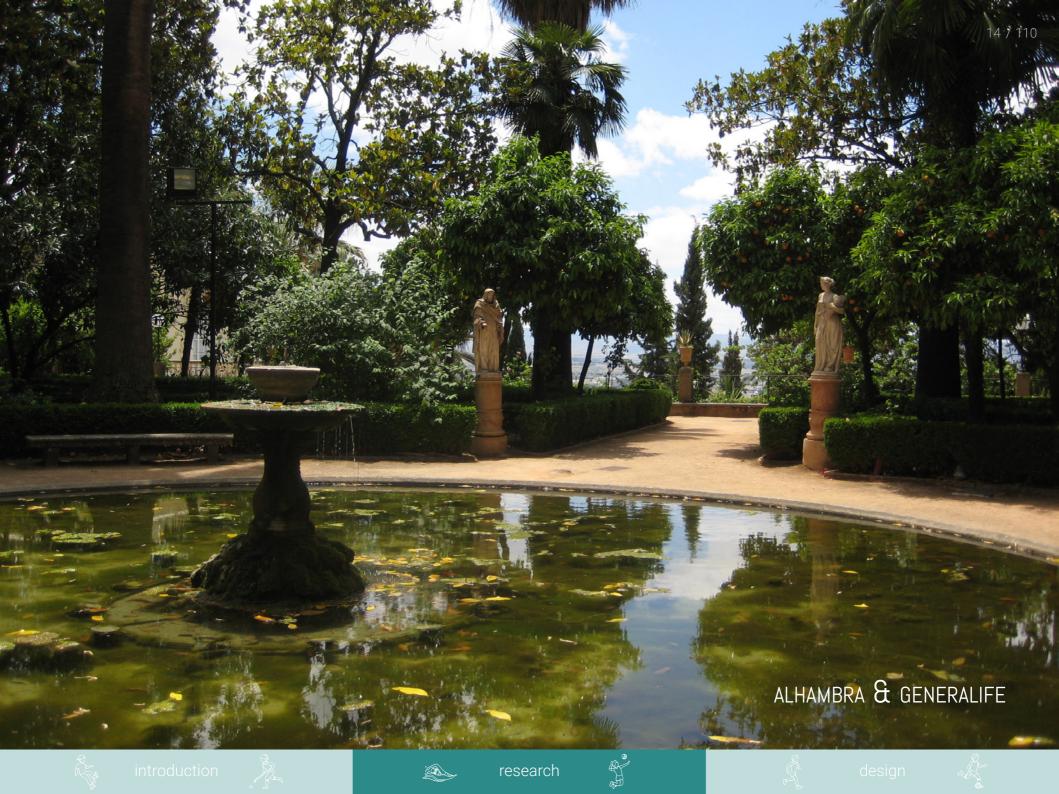








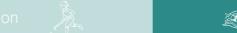








OOSTERSCHELDE STORM SURGE BARRIER







conclusion



URBAN OASIS

- aesthetically pleasing
- comfort
- refreshment
- calming feeling
- opportunities for recreation



Through:

- interaction
- routes
- different depths
 and heights

- sound
- scent
- view











conclusion



INNOVATION

- solving a problem
- innovative technology to deal with water
- (play &) learn



Often combined with:

- large scale
- landscape design
- accessibility

· promotion of

technology











design guidelines I water

functions



(daily) need: adding a facility that fulfills a basic need intensifies the use of the facility



showers: people that are exercising outdoors can be tempted to go inside a building if the building contains accessible showers



drinking water: a drinking fountain can attract people that are is close to

seuses



evaporative cooling: the



refreshment: immersing oneself evaporation of water can provide a directly into water can provide a cold or refreshing feeling



sound: the sound that water makes can be experienced as calming. different 'types' of water make different sounds



varied display of water: different ways of displaying water have a different effect on the experience of

aesthetics



display of water: displaying water in various ways can be fascinating



nature: a(n abstract) representation **size:** a large size can be perceived of nature, such as a waterfall or slope can be experienced as pleasant by users





innovation: the fact that something unknown can be attractive to people

interaction



route: creating a route through or over water can encourage



depth: the depth of the water can shallow pool can encourage playing or dipping ones feet in it



water type: the way water is displayed affects the way people interact with it. jets can be more playful and a pool more calming

research



accessibility: a water structure that is accessible from the inside can fascinate and have a learning aspect









design guidelines I water



evaporative cooling



refreshment



varying displays of water



route through water



in- and outdoor showers



outdoor drinking taps



different water depths



water from inside





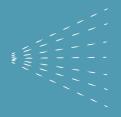




types of water display



flow: water flowing through a containing element



spray: water dispersed as small droplets



droplets: small bits of water, dripping



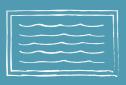
cascade: water falling in steps from a high to a low level



steam: mist that forms from hot water



waterfall: water dropping from a high to a low level



pool: large surface of water



mist: very fine collection of water particles



torrent: a wild stream of water



frothy mass: a foam of white bubblling water



jet: a stream of water forced out under pressure



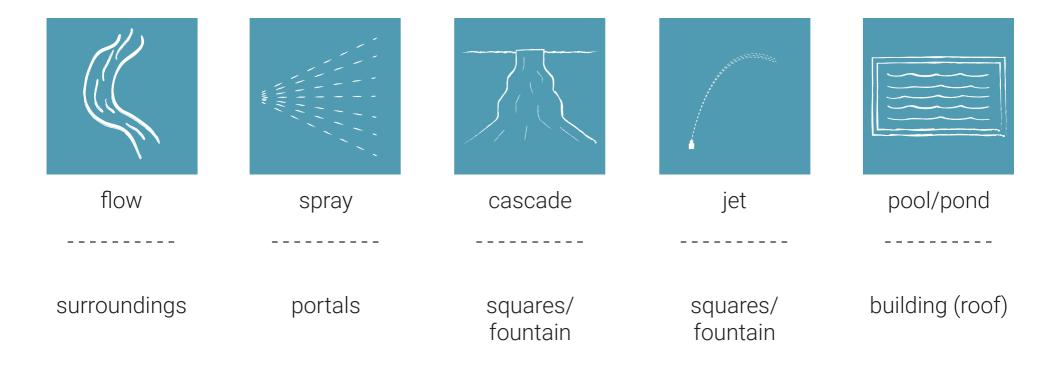








types of water display



research









case studies

























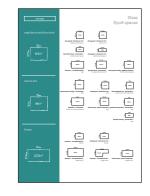
























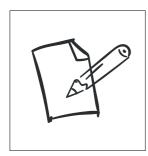
case studies



sustainable solutions



sports solutions

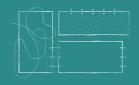


design solutions

Pavello Municipal d'Esports NAM Arquitectura

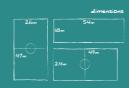
sustainable solutions

- light structure: minimal use of materials and resources
- by making use of the natural daylight, less artificial lighting is needed and energy is saved



sports solutions

polycarbonate filters the natural light,
 bringing visual nuisance for the users
 to a minmum



design solutions

- using the properties of the material: the light fixtures fit perfectly into the grooves of the corrugated sheet metal creating a visual connection between the indoor sports hall and the exterior and the covered sports pitch
- keeping the lower part of the covered pitch open to create a connection with the outside but covering the top part to create the feeling of being inside and provide shelter from the elements



Vila-Seca | sports hall | 2017



Part of the base of the building, made from prefabricated concrete plates, was replaced with glass to make the sports more visible from the outside.

Materials and constructive resources were kept to a minimum, using steel, polycarbonate, glass and wood. The polycarbonate filters the natural light and insulates against solar radiation with air cavities.















design guidelines I sport



restrooms: fulfills a basic need of





drinking water: fulfills a basic need for people (who are exercising)



lighting: users can make (safe) use of the facilities at night too



useful for people who come from further away or from work



showers: often available in changing rooms but can be seperate function - practical for sporters from far away



different heights: create multiple



lowered into the ground: this can keep the overall building height low making the roof easier to access



roof with function: this creates



outdoor indoor hall: a covered pitch protects from the elements but remains accessible to everyone



facade with function: accessible to



anyone at any time, creates an extra function/opportunity for sports





ladder: easy way to get up, but requires a bit more motivation than stairs



climbing grips: these can be a fun way of getting up a wall, but require more skill and time than stairs



stairs: a common, straightforward and generally safe way to get to a different level



steps: steps of different sizes are





slopes: an easy way to get up, the gentler the more accessible, with grass it seems parklike



more intesive use of the facility and attracts more (different) users

colours and materials







route: can connect two places/ buildings, guide the user and thus encourage to use facilities



energy generation: energy generated by the use of the building or facility



stepping stones/playful elements: can encourage (young) users to move and play, prolong their stay



sustainability

solar panels: to harvest electricity



outdoor fitness equipment: accessible any time by anyone allowing sports outdoors



trampoline: a different and fun way









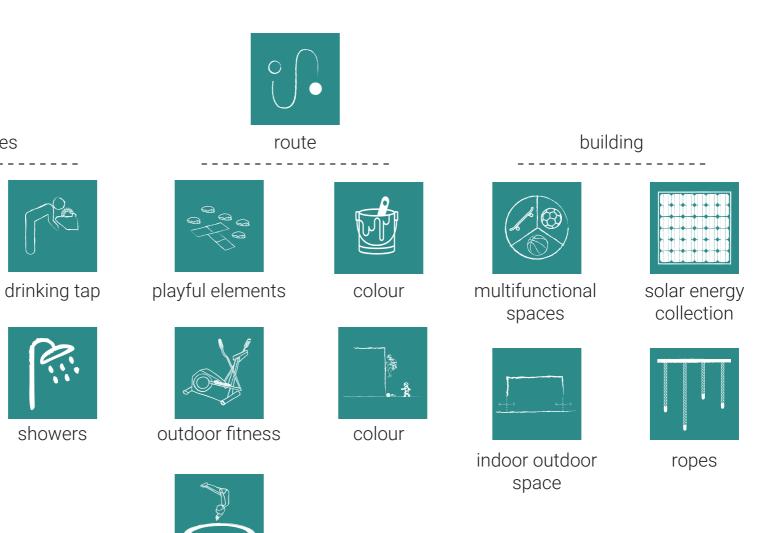








design guidelines I sport





changing rooms

lockers





trampoline





facilities

The Maritime Mile



Marineterrein, Amsterdam













Marineterrein, Amsterdam













Marineterrein, Amsterdam



used as a shipyard | INNOVATION as a constant











Deel Marine Etablissement voor het eerst toegankelijk

De Voorwerf, het historische gedeelte van het Marine Etablissement aan de Kattenburgerstraat dat eeuwenlang was afgesloten, is sinds vanmorgen open voor publiek. De rest van het marineterrein blijft afgesloten.

Rob Rombouts 1 april 2015, 10:24



Het Marineterrein, vlak achter het Scheepvaartmuseum. BEELD MATS VAN SOOLINGEN

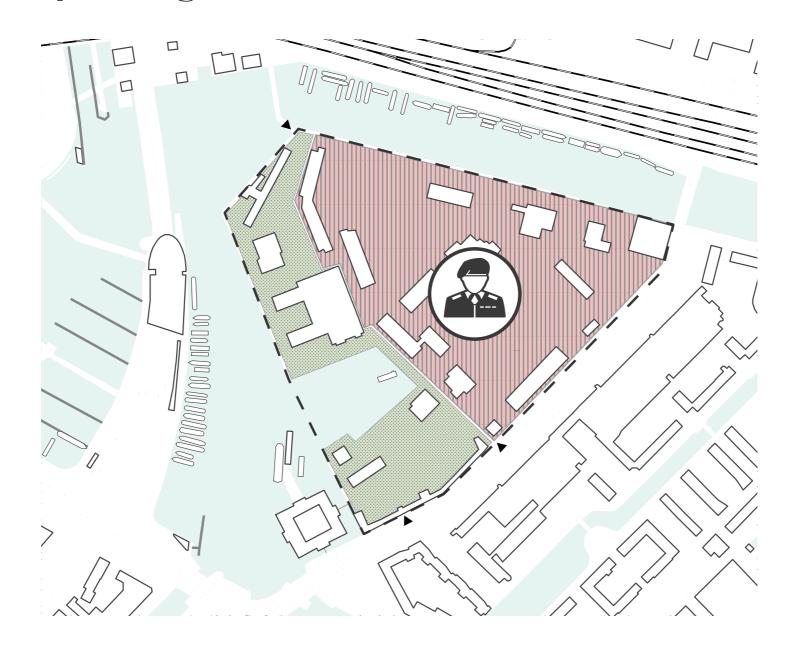






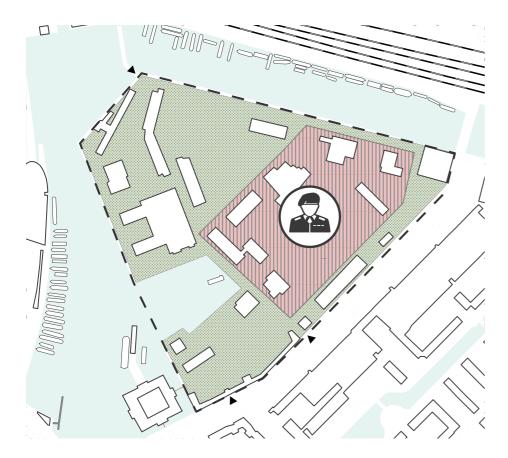


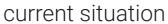
after opening

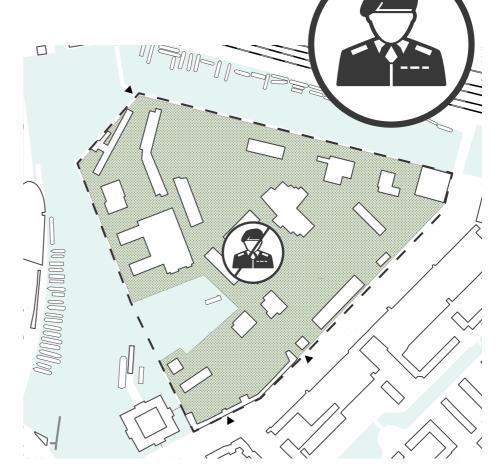




future scenario







2-5 years from now













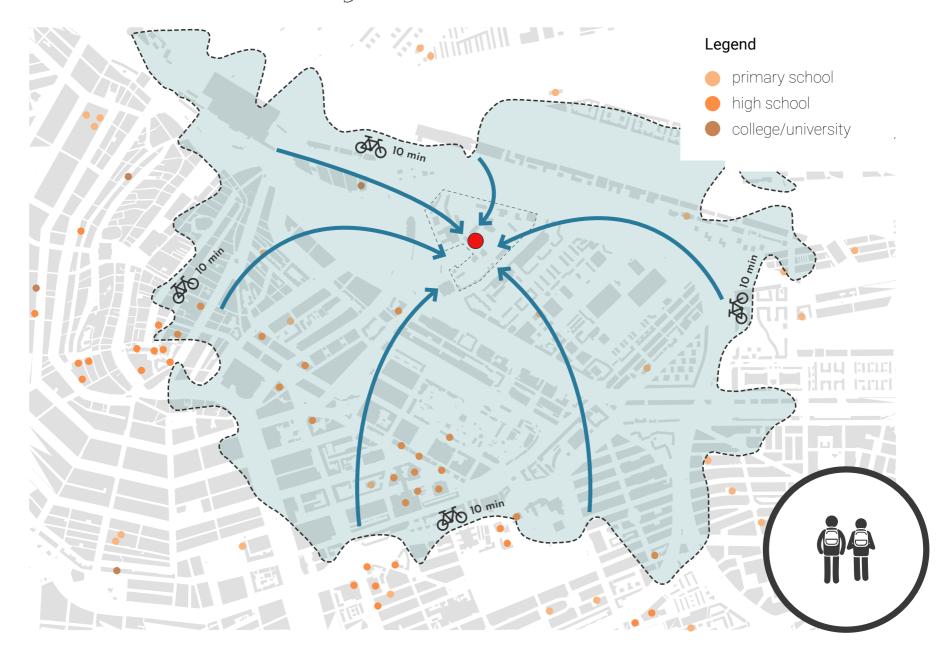
gn 🎺

schools in the city





schools in the city







user

Casper (63)



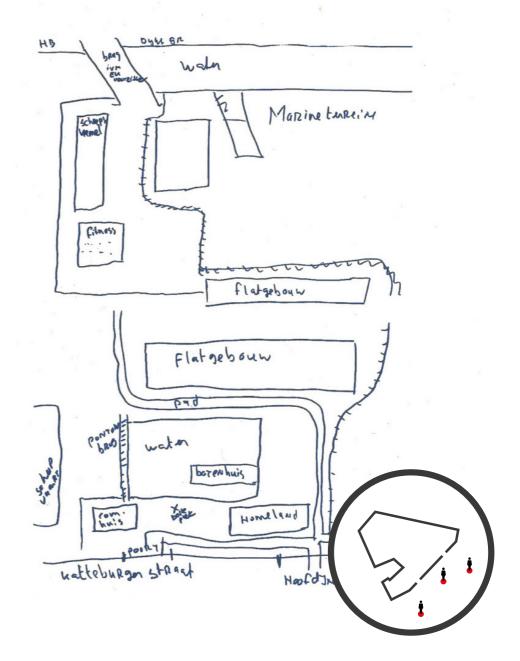
Met de <u>wandelclub</u>, waar ik sinds mijn pensioen lid van ben, <u>lopen we vaak</u> over het terrein. Mijn favoriete plek is de kade naast Homeland, daar geniet ik van het uitzicht.

walking club

often walks around the area

enjoys the view











ysers







'neighbours'



schools



new inhabitants









Marineterrein context

















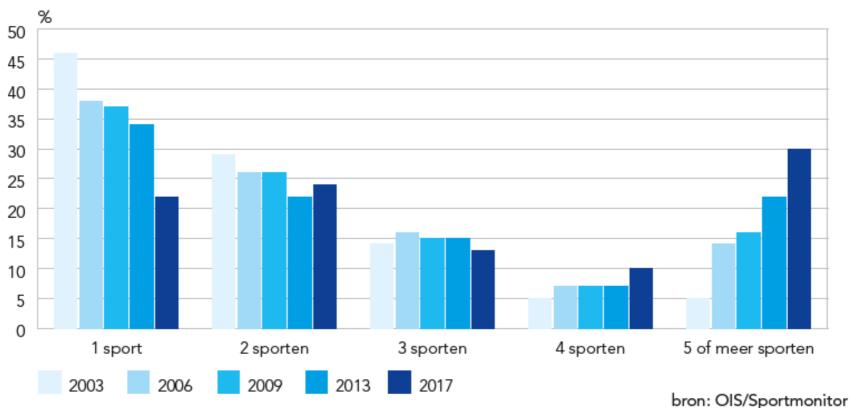






trends in sports

Aantal sporten dat sporters beoefenen, 2003-2017 (procenten)





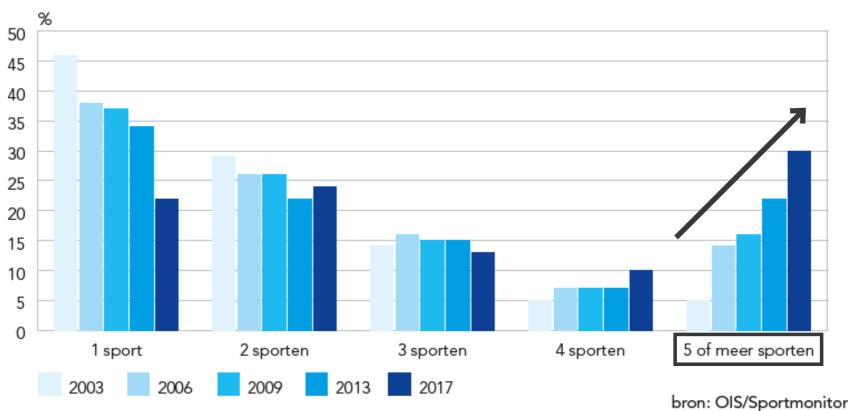






trends in sports

Aantal sporten dat sporters beoefenen, 2003-2017 (procenten)

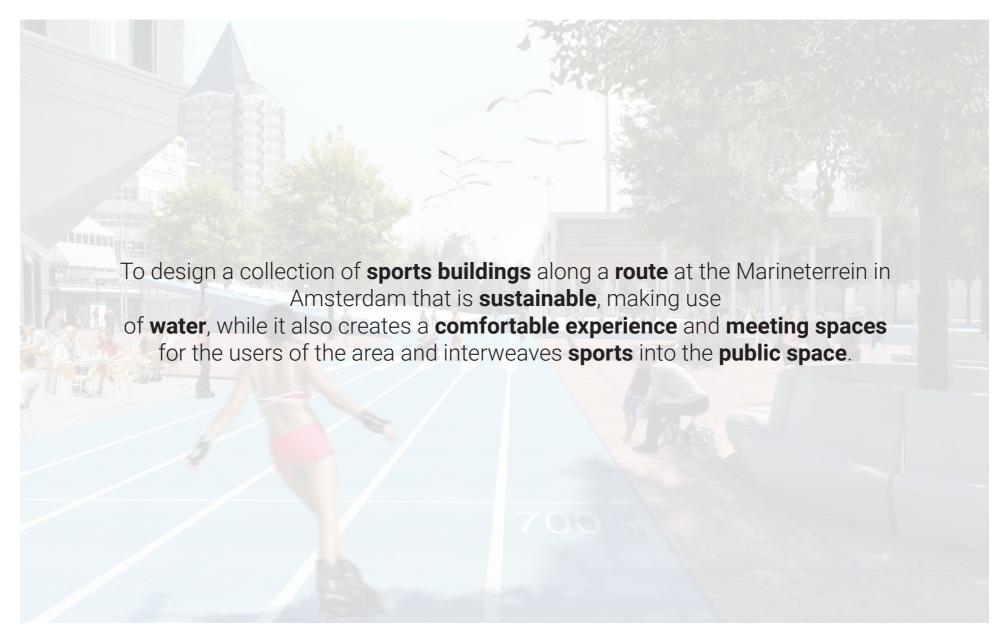




multiple sports



design goal







Water in the Area





























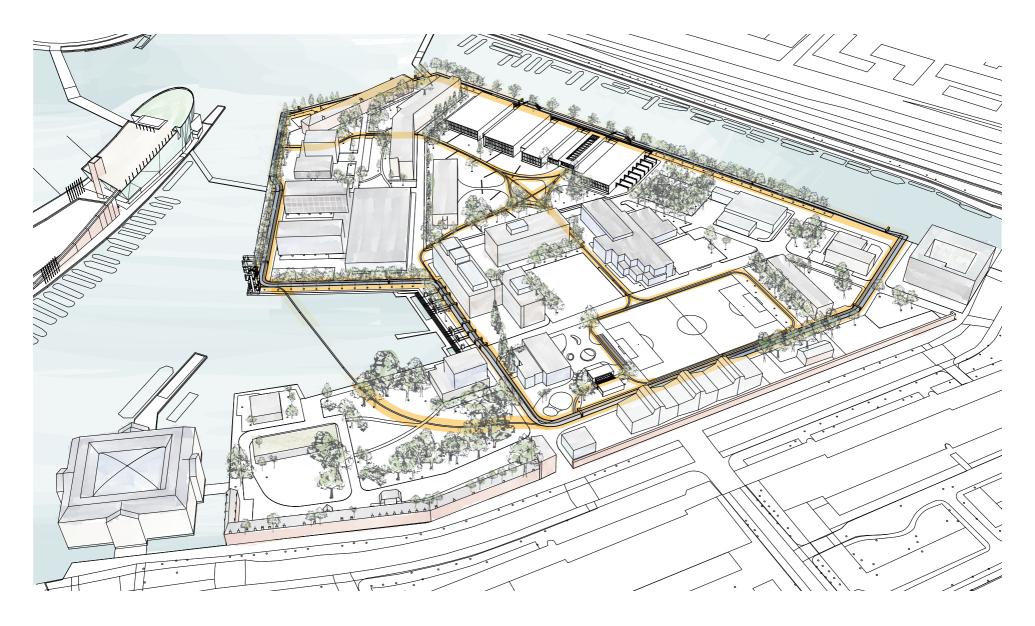






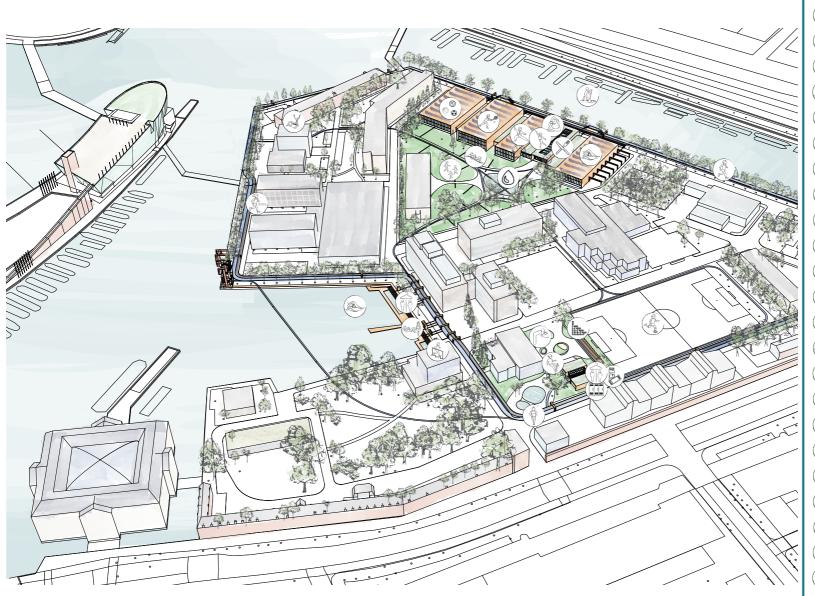


route





program

















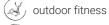




























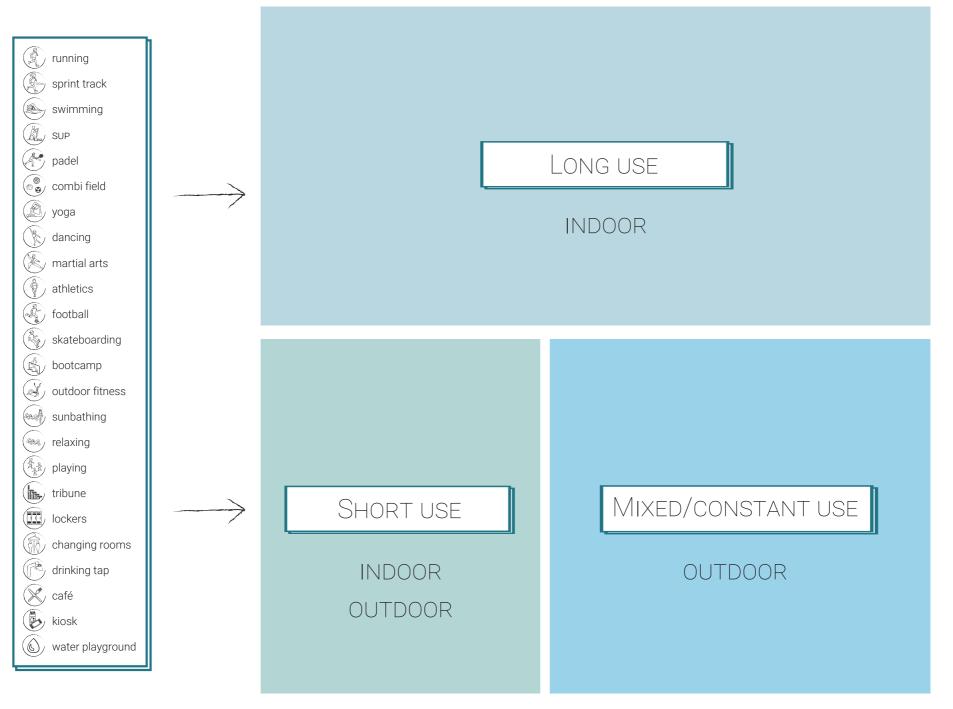


























AUXILIARY kiosk dressing rooms lockers drinking tap tribune







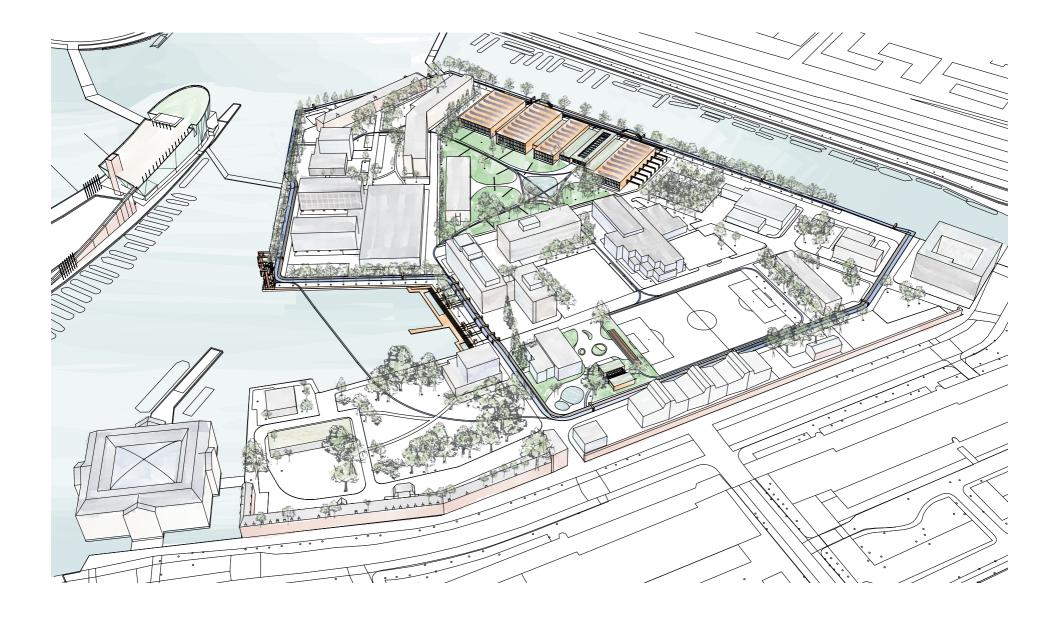








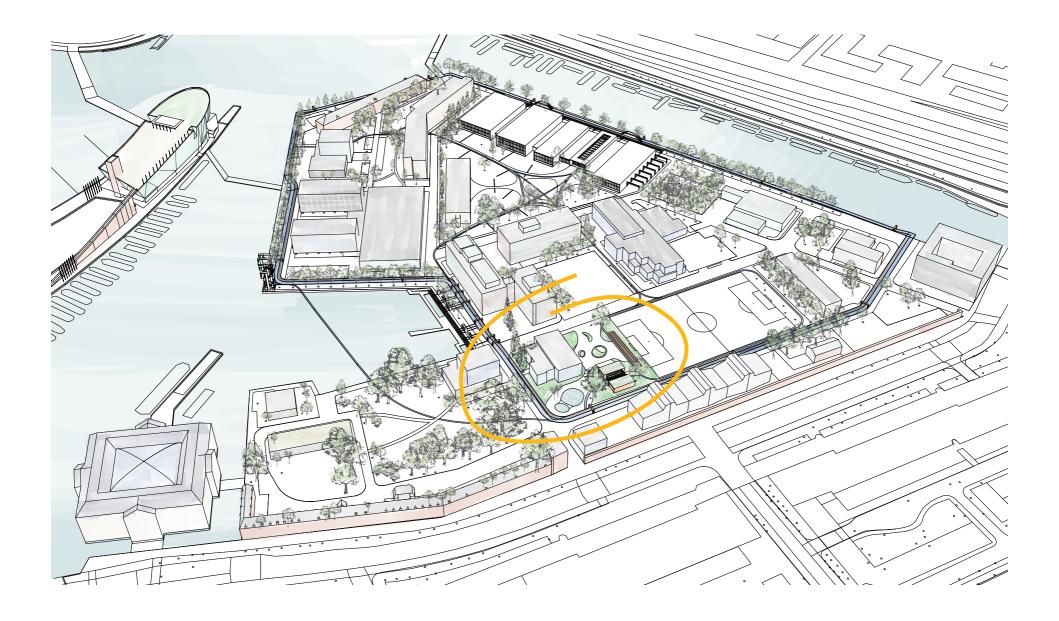
The Maritime Mile



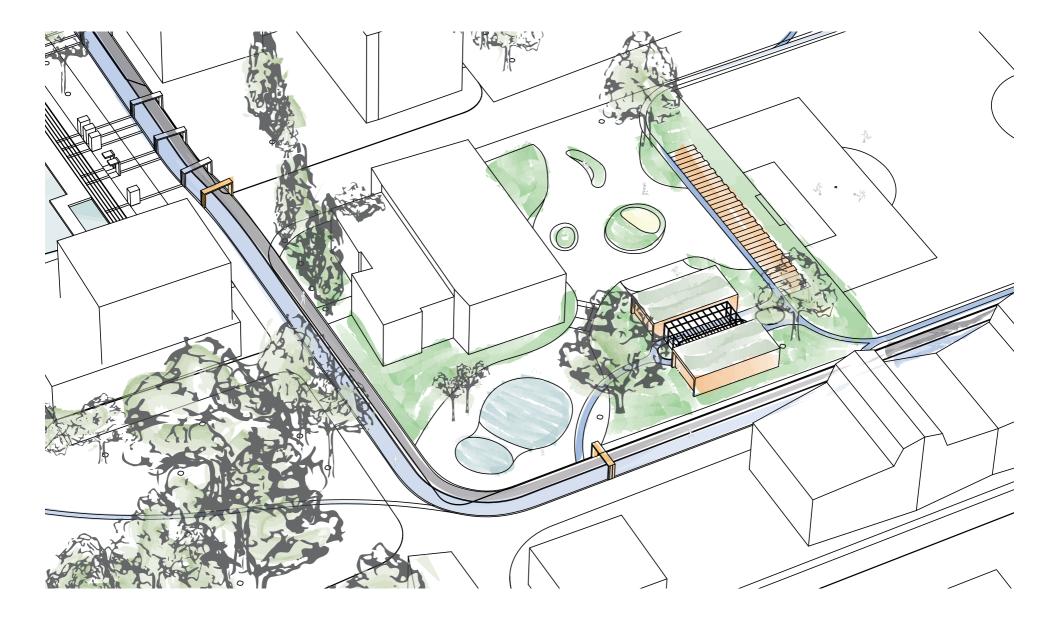




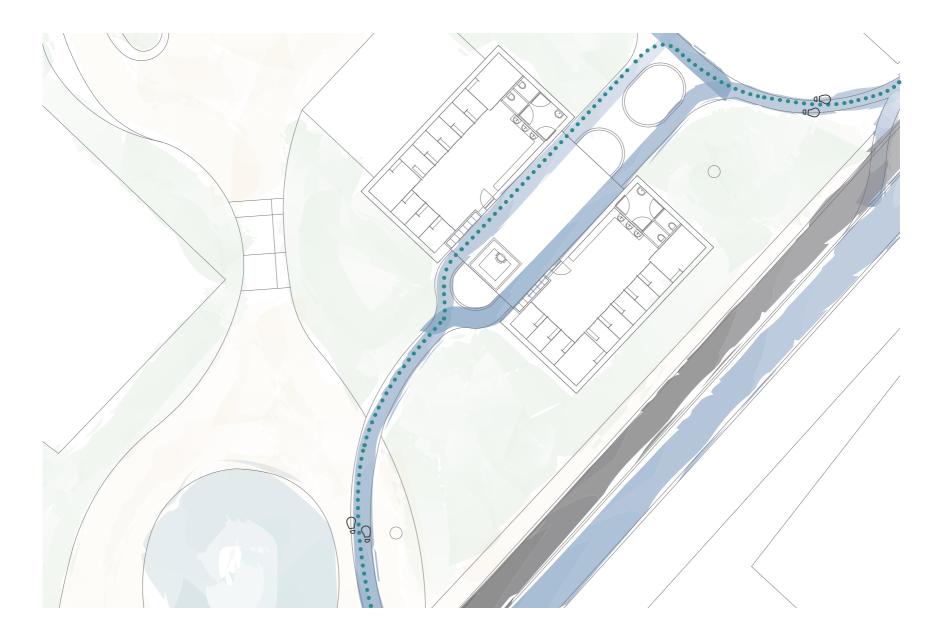




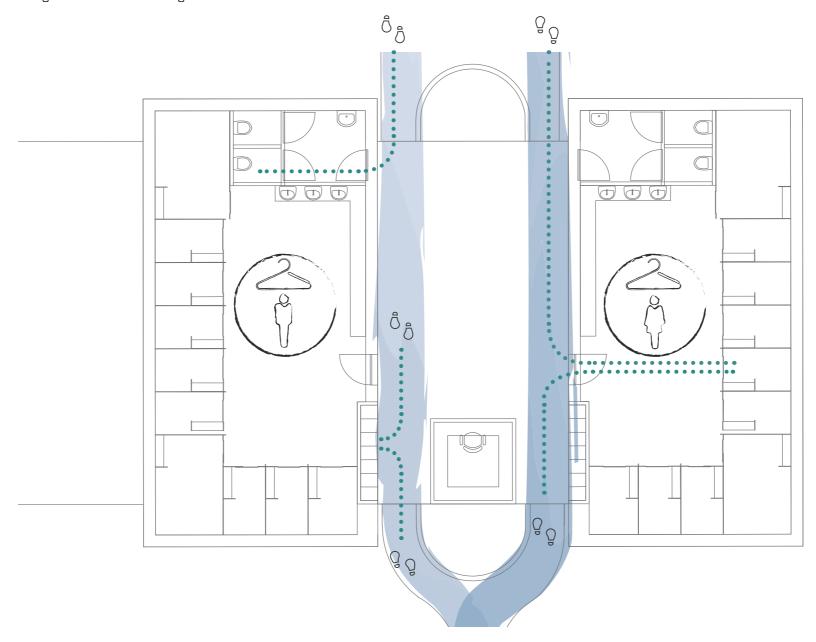


















































along the water











along the water



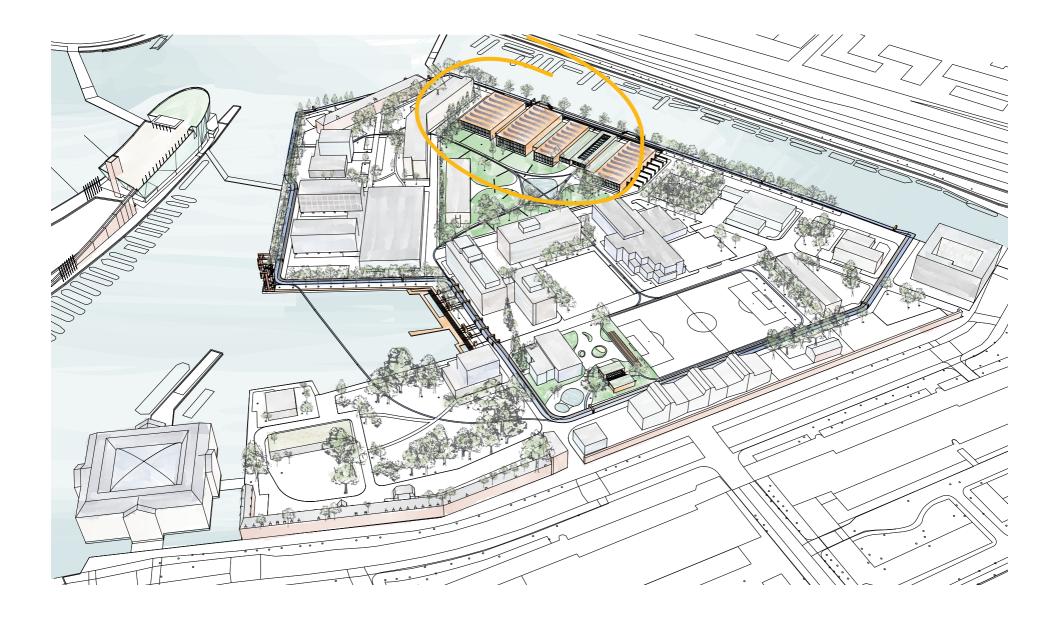


































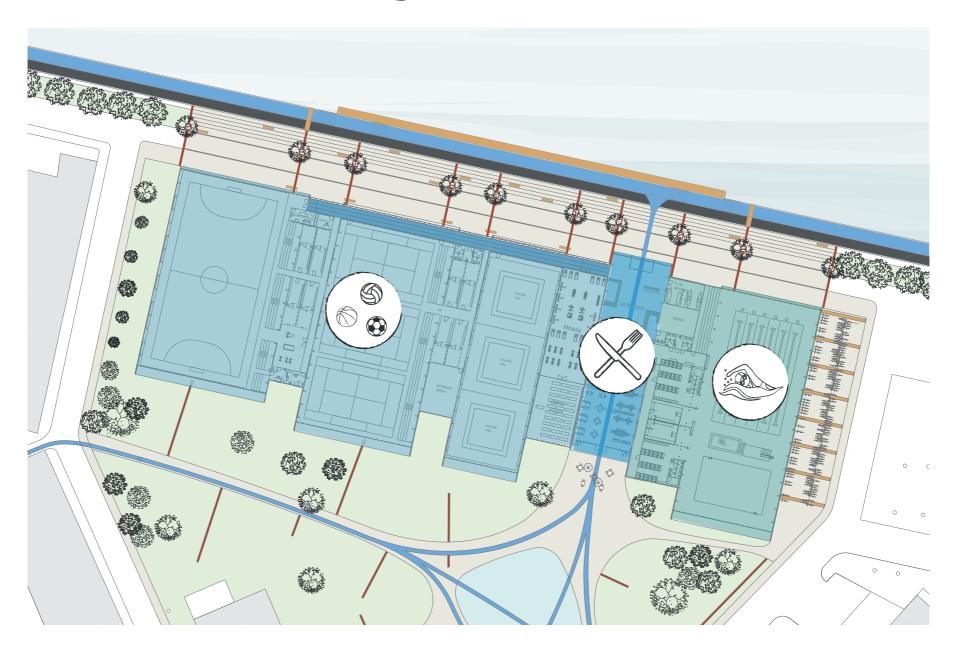






















sports hall



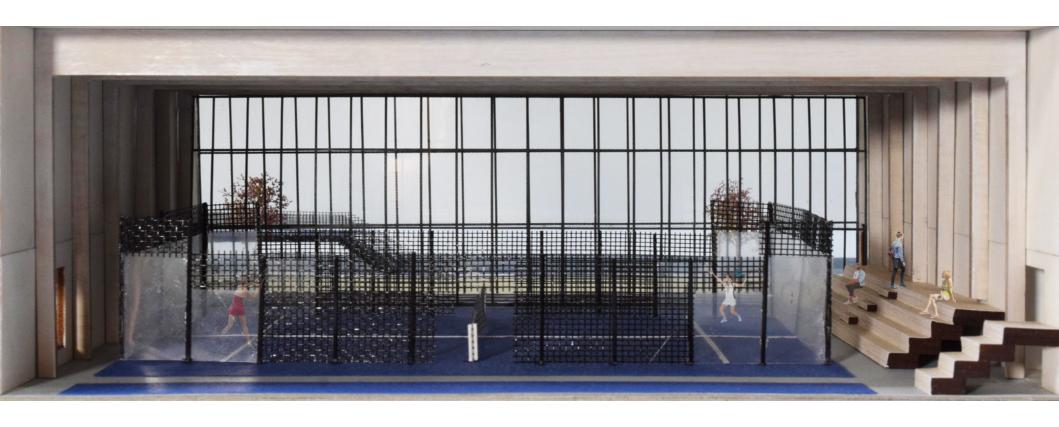








padel courts









swimming pool



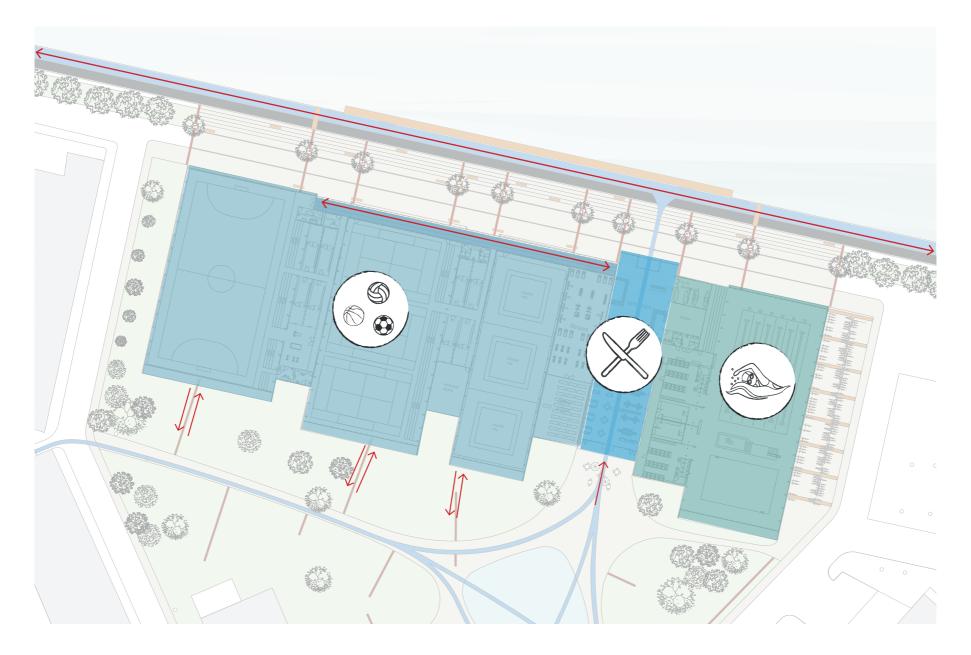








multisports building





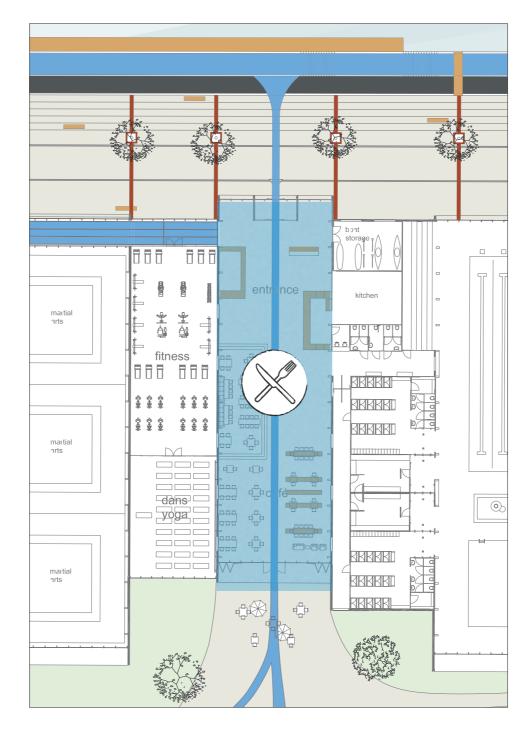








entrance









entrance









entrance











entrance | portals



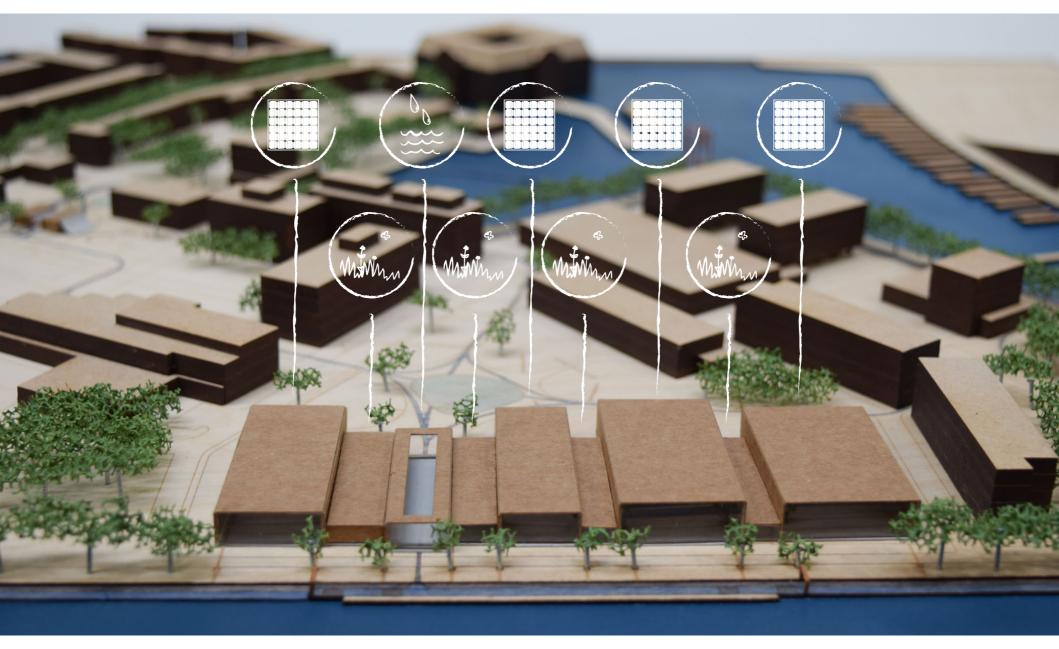








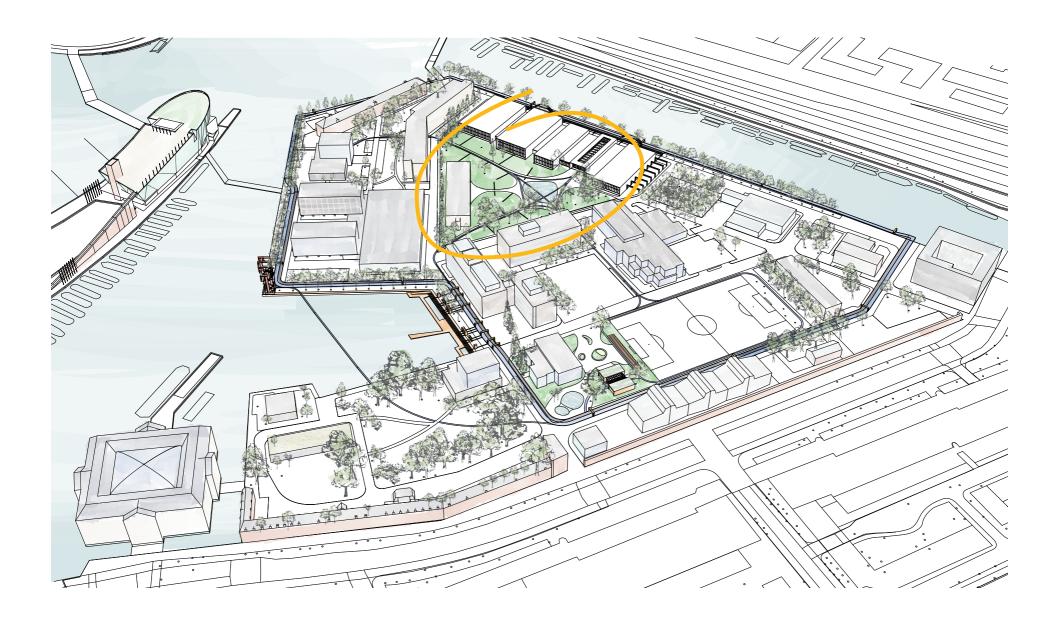
building I roof



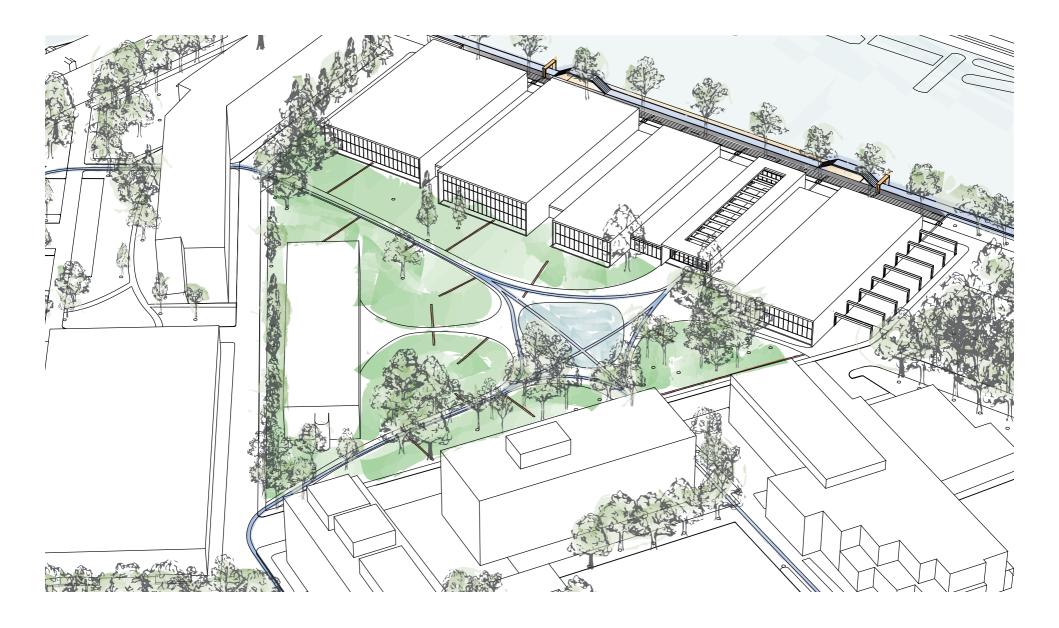








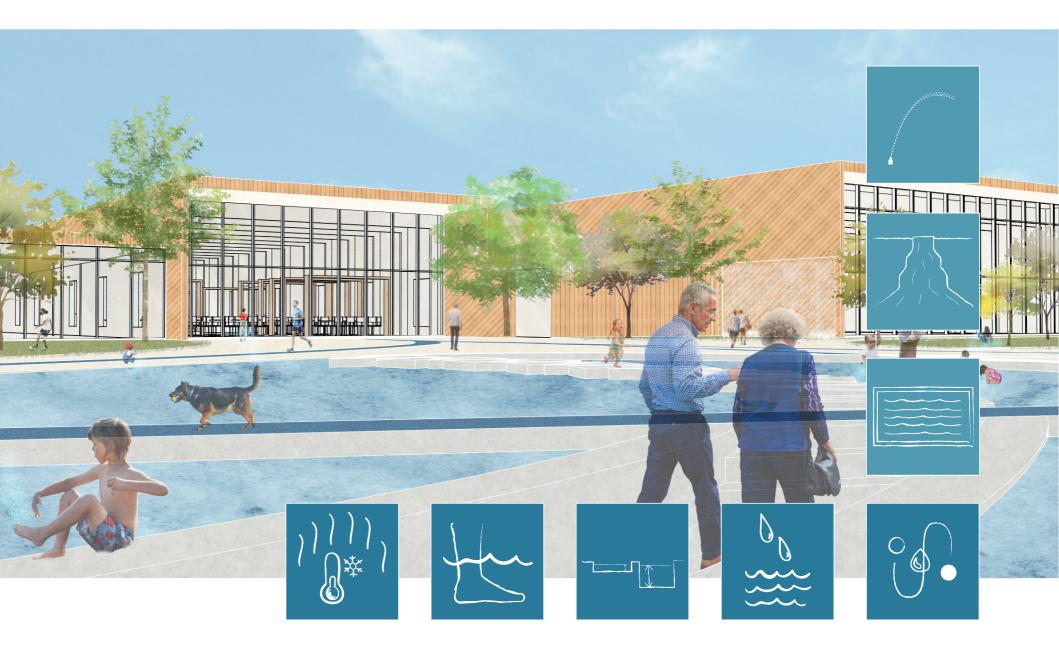






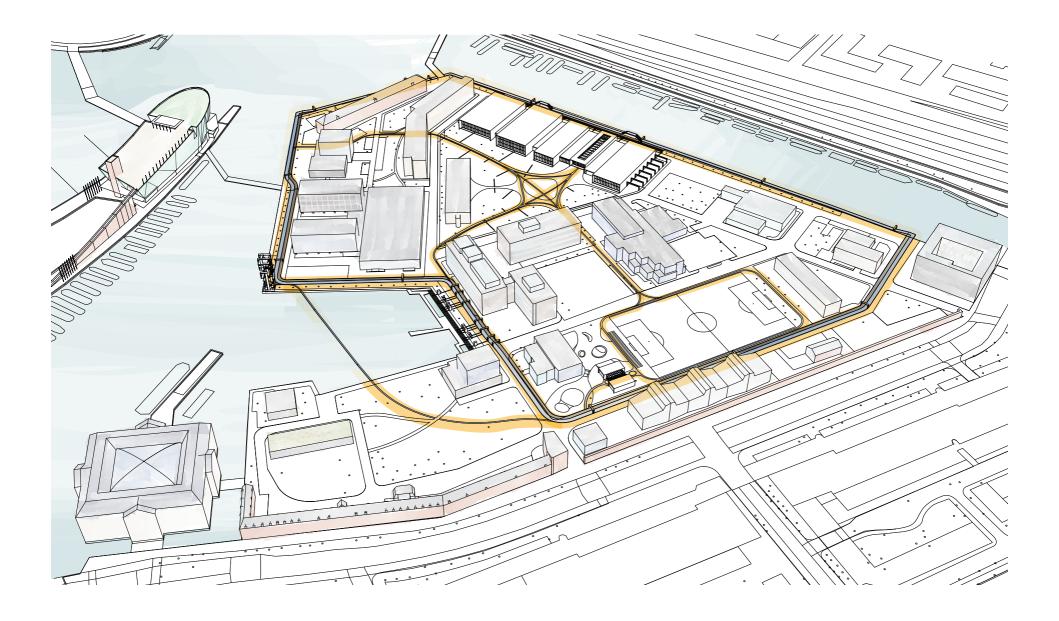








route





route



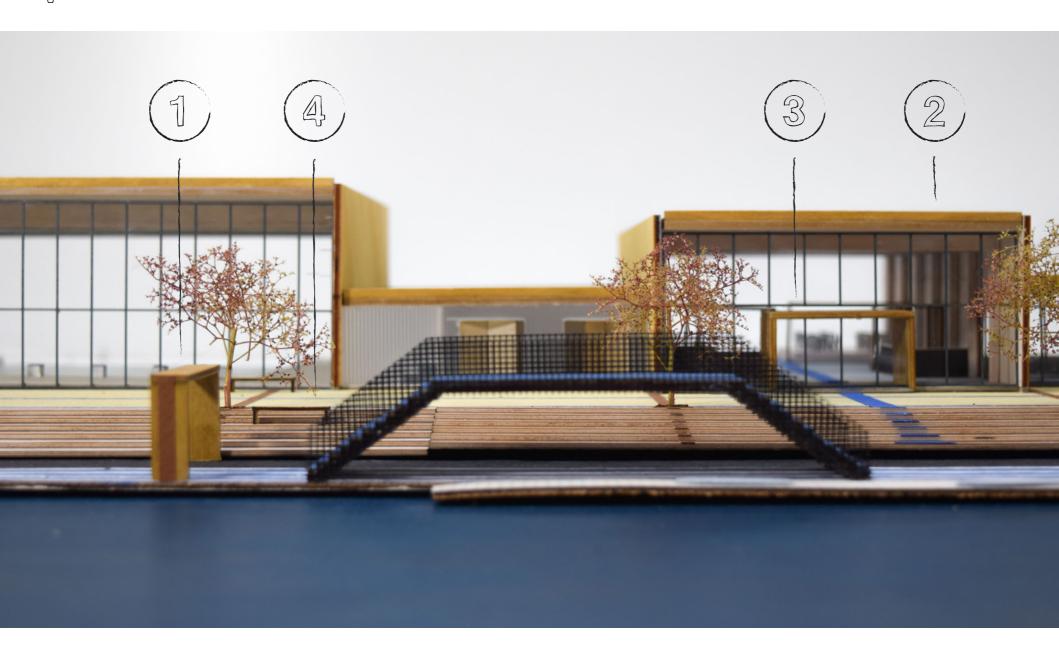








portals









along the water



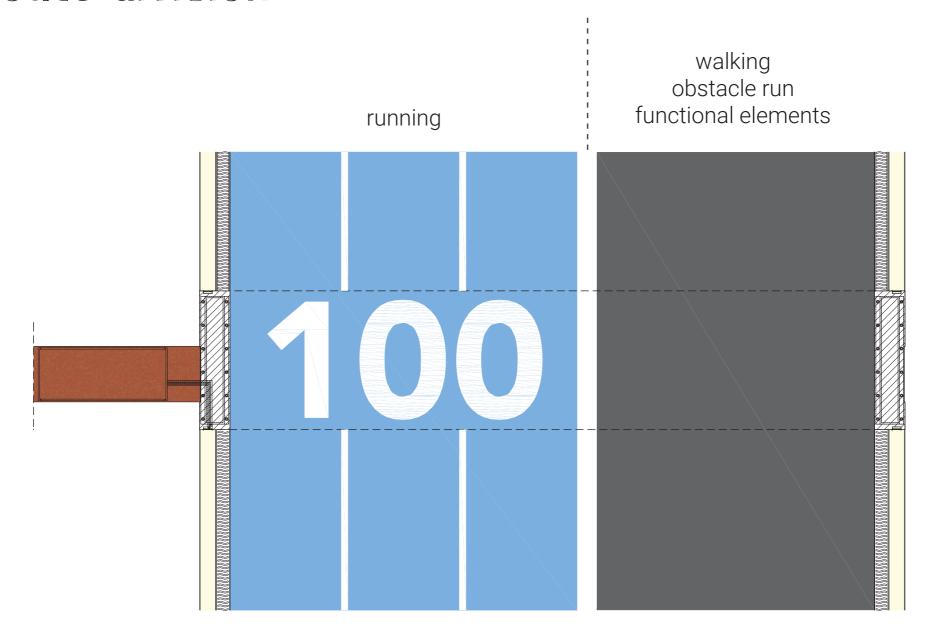








route division



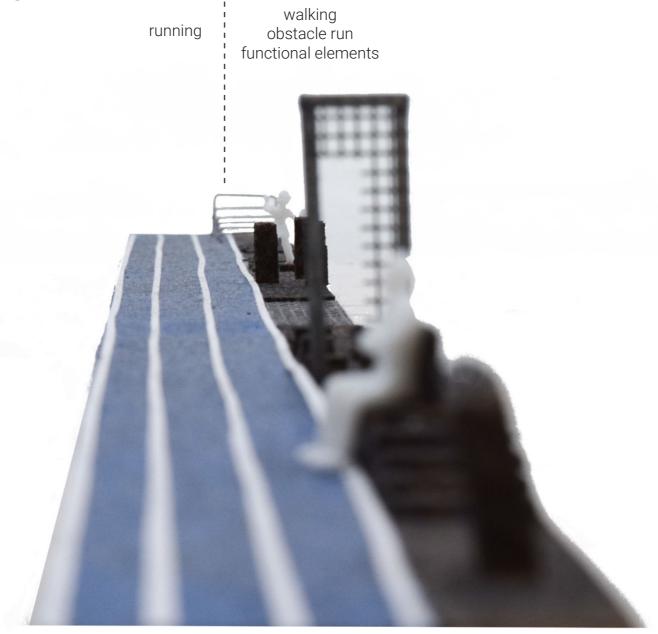








route division



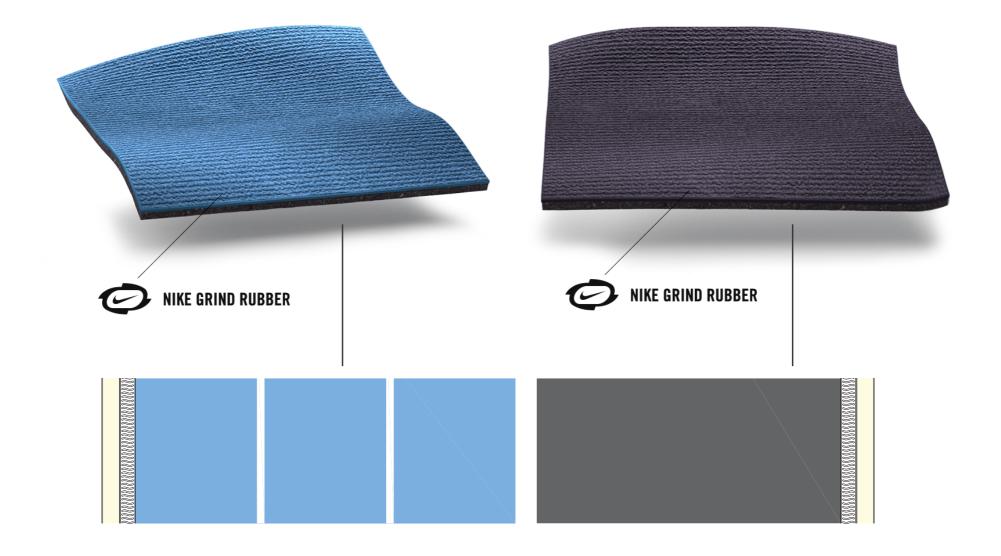








materials



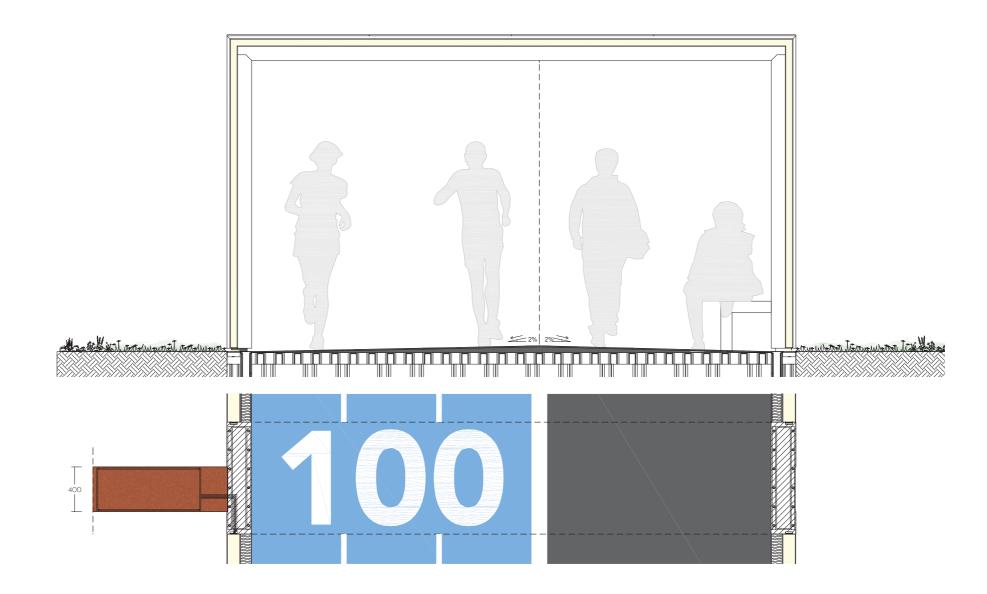








portals I experience





portals I night

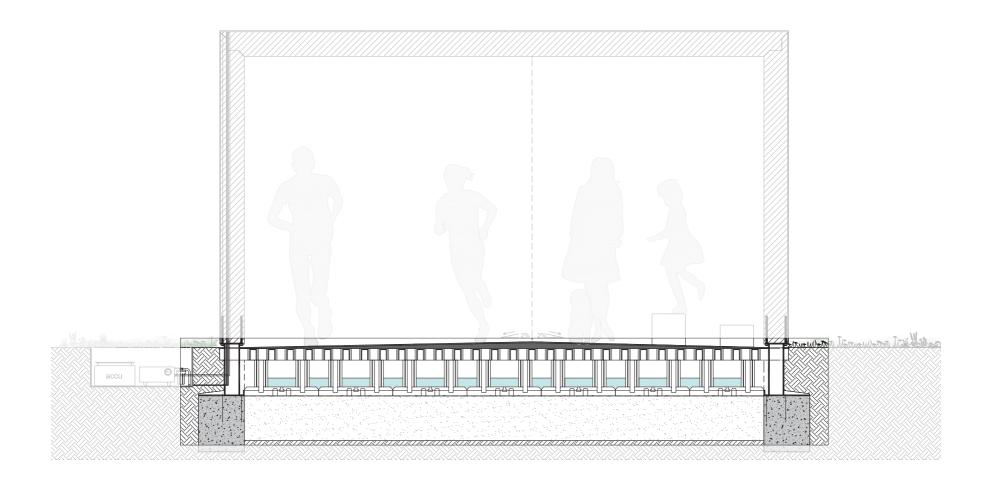








portals









portals I road elements









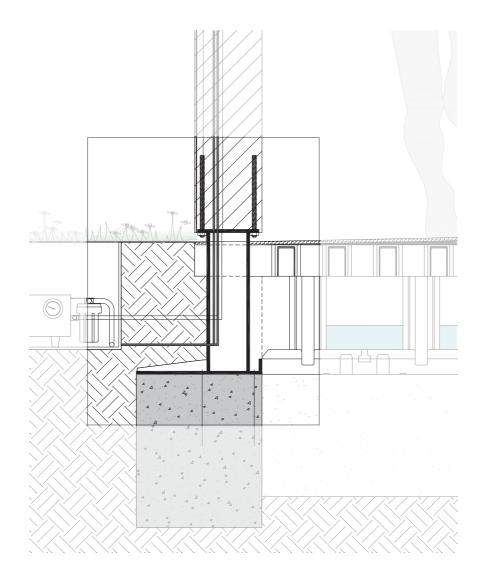








portals I construction

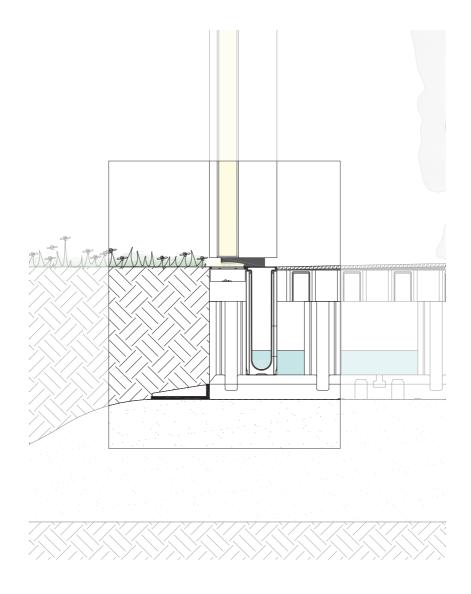






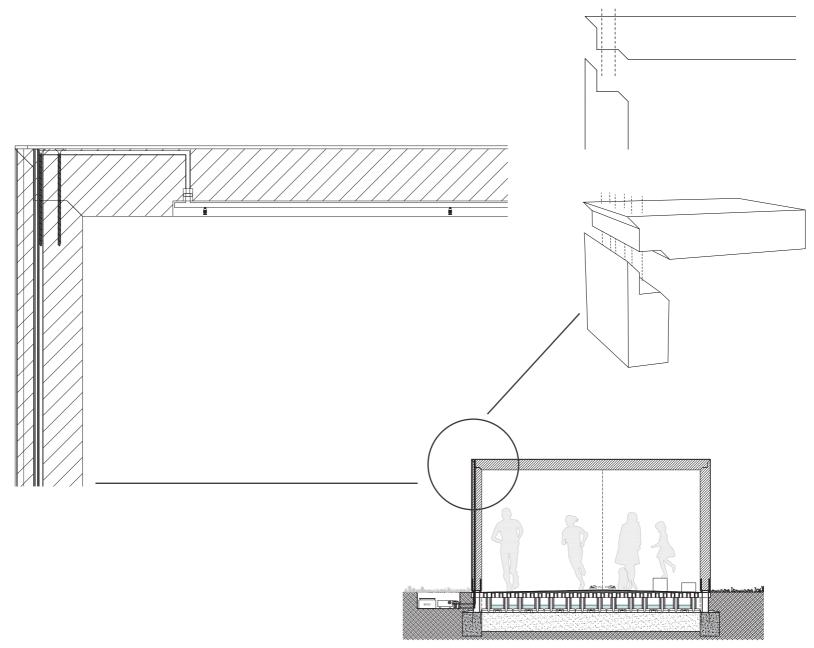


portals I construction





portals | water & sun











portals I guides





route I diving tower



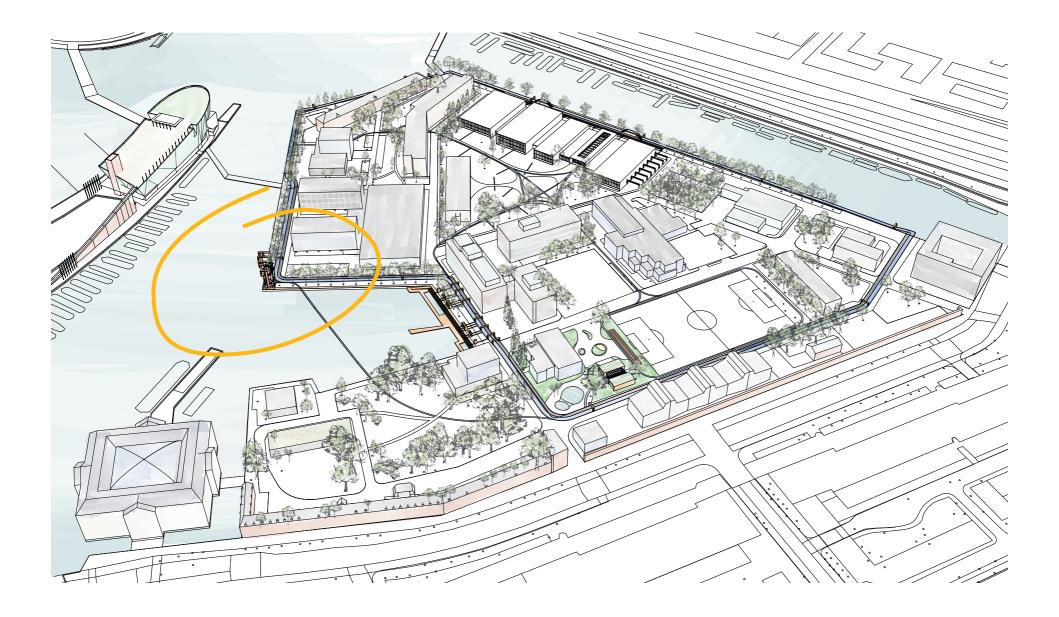






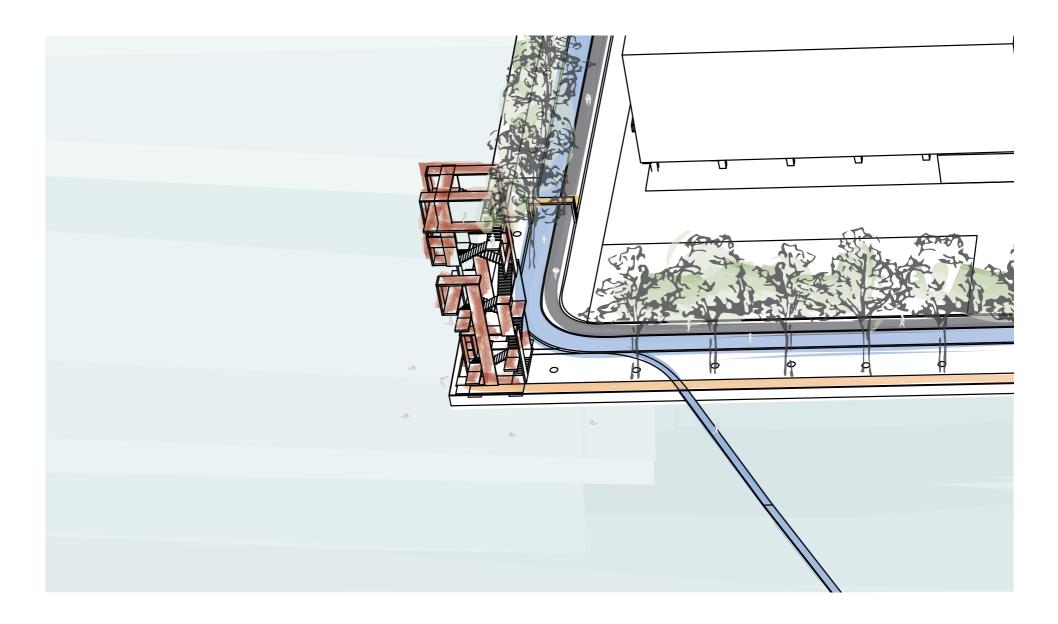


diving tower





diving tower









diving tower

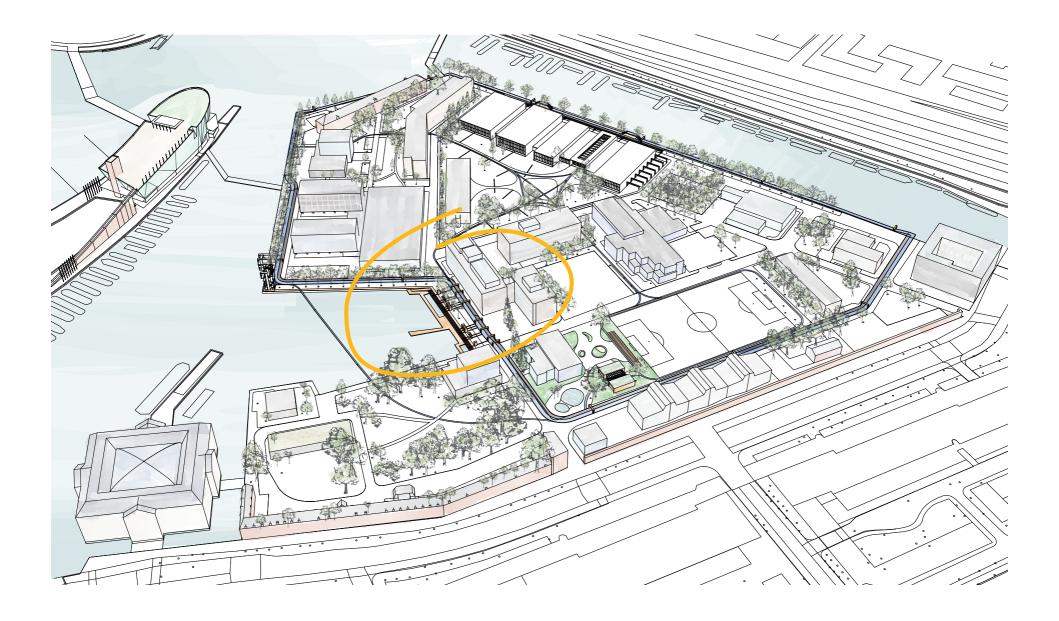




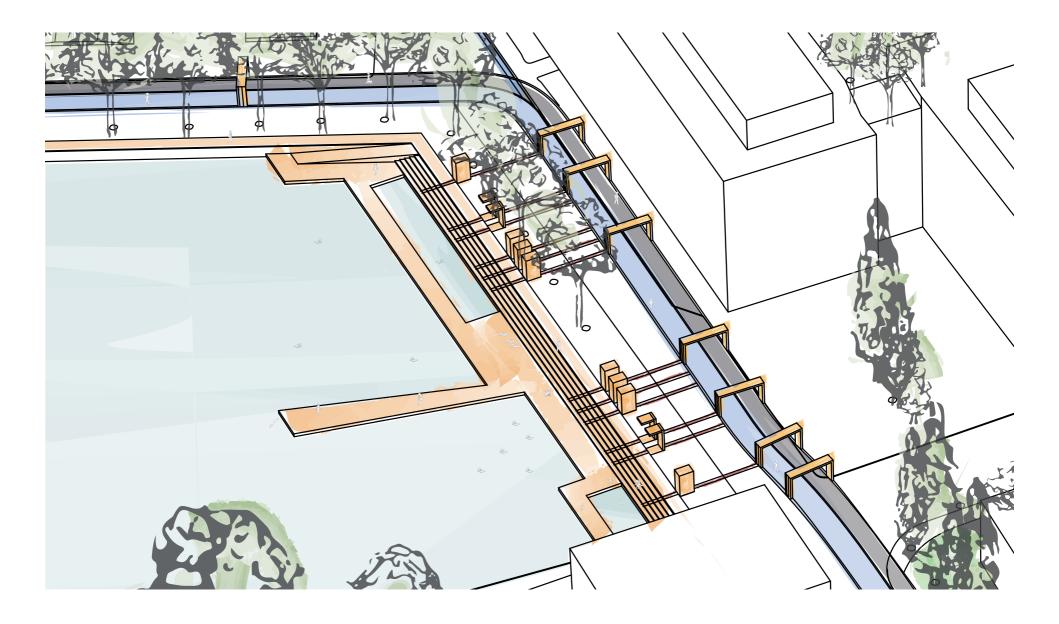












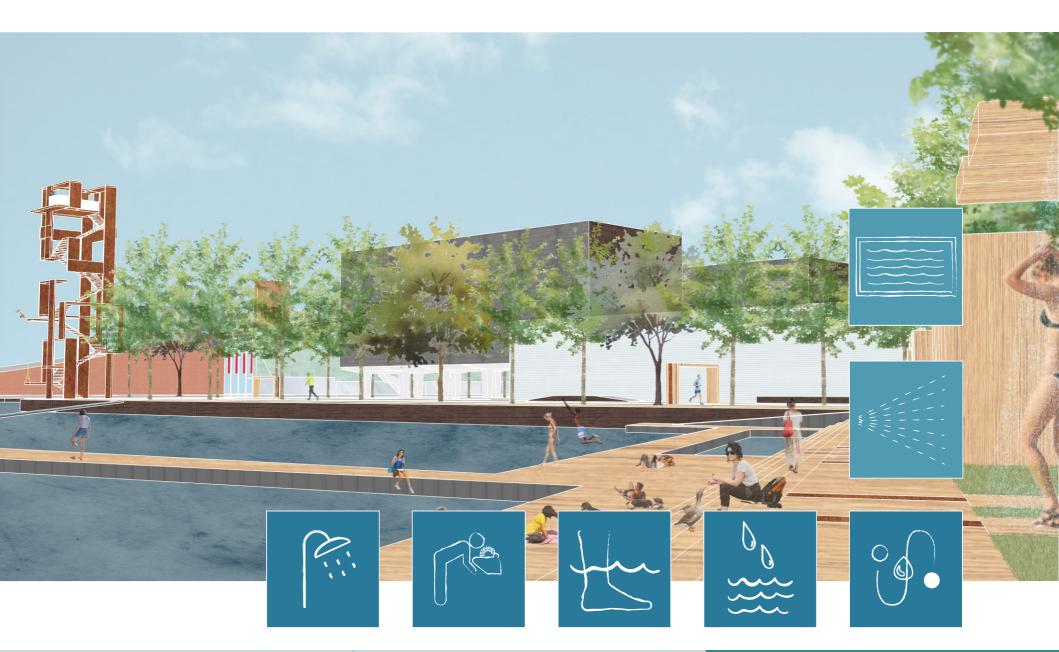












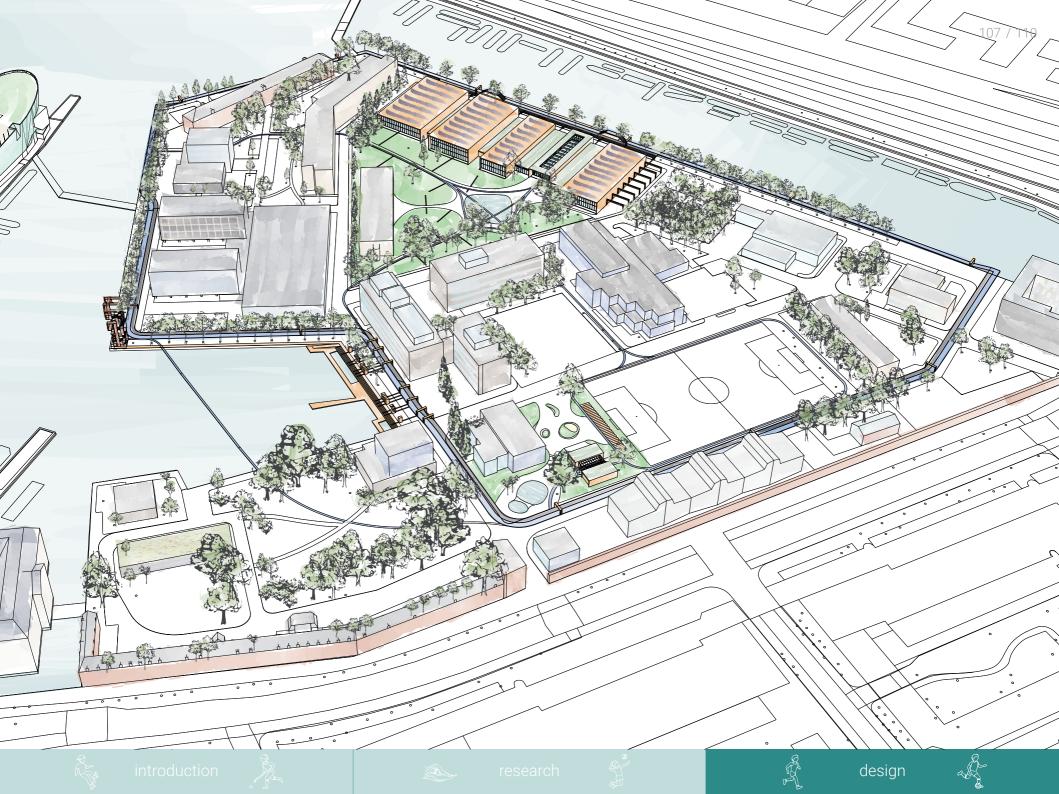












Thank You!

