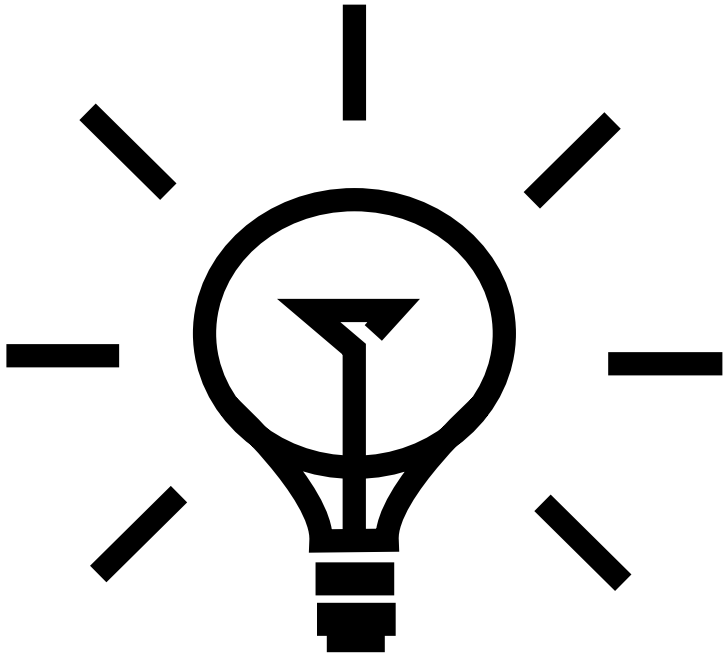
FLOWSCAPES LABORATORY

P4 PIERRE OSKAM
9/12/2015

TU Delft



To the attention of:

Geraedts, Ir. R.P.
Burg, Ir. L.P.J. van den
Loon, Ir. F.D. van

PROBLEM & ANALYSIS

THEORY & METHOD

CONCEPT & DESIGN

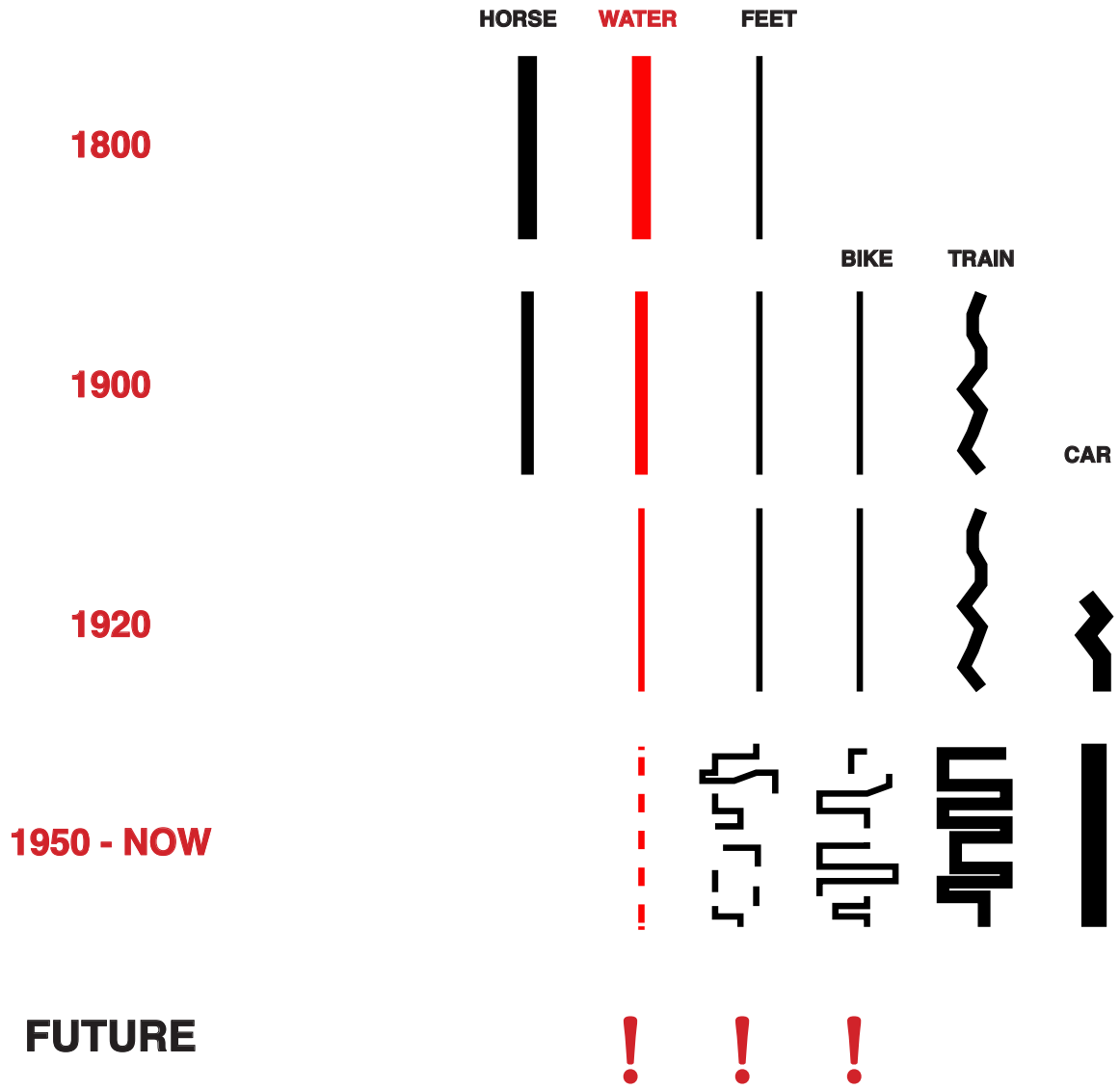
PROBLEM & ANALYSIS

THEORY & METHOD

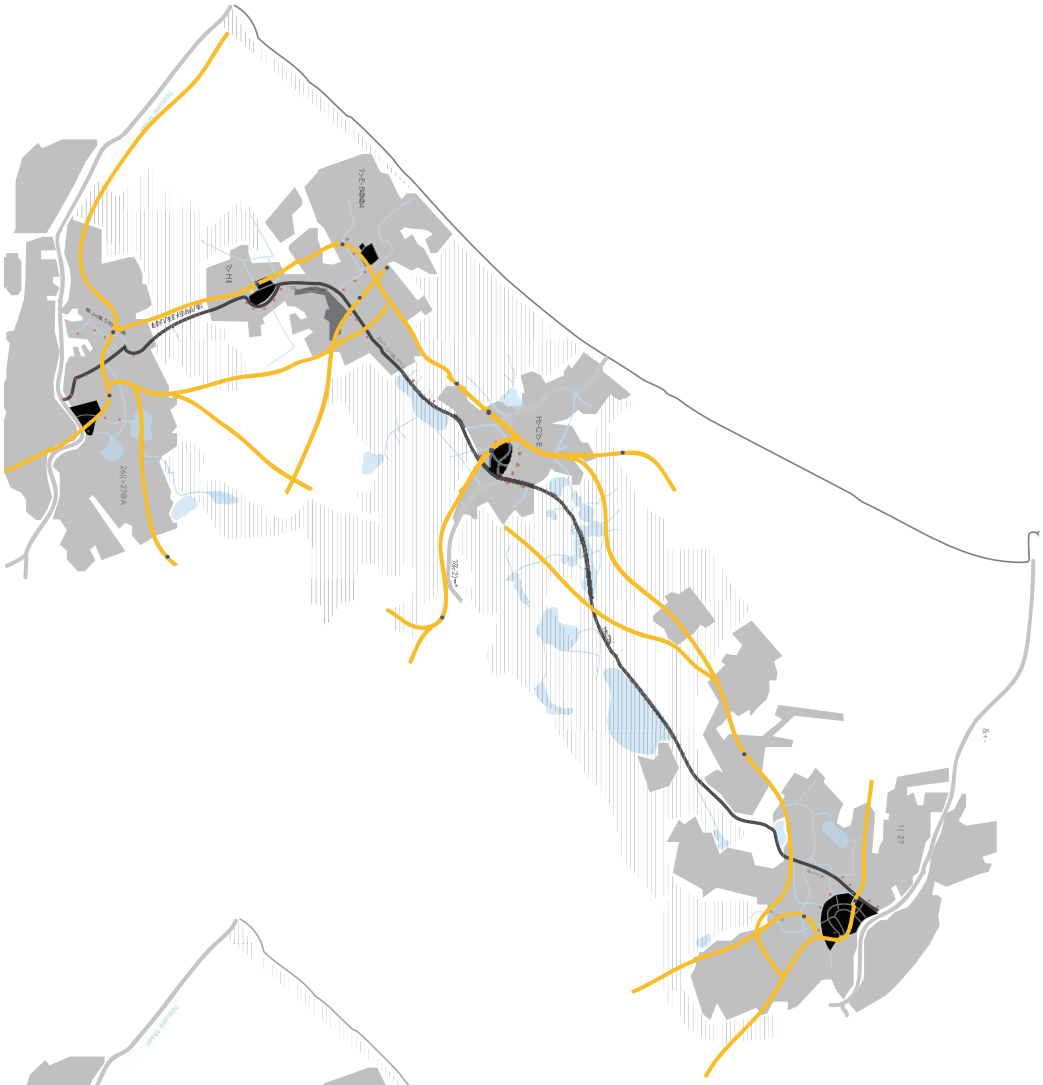
CONCEPT & DESIGN

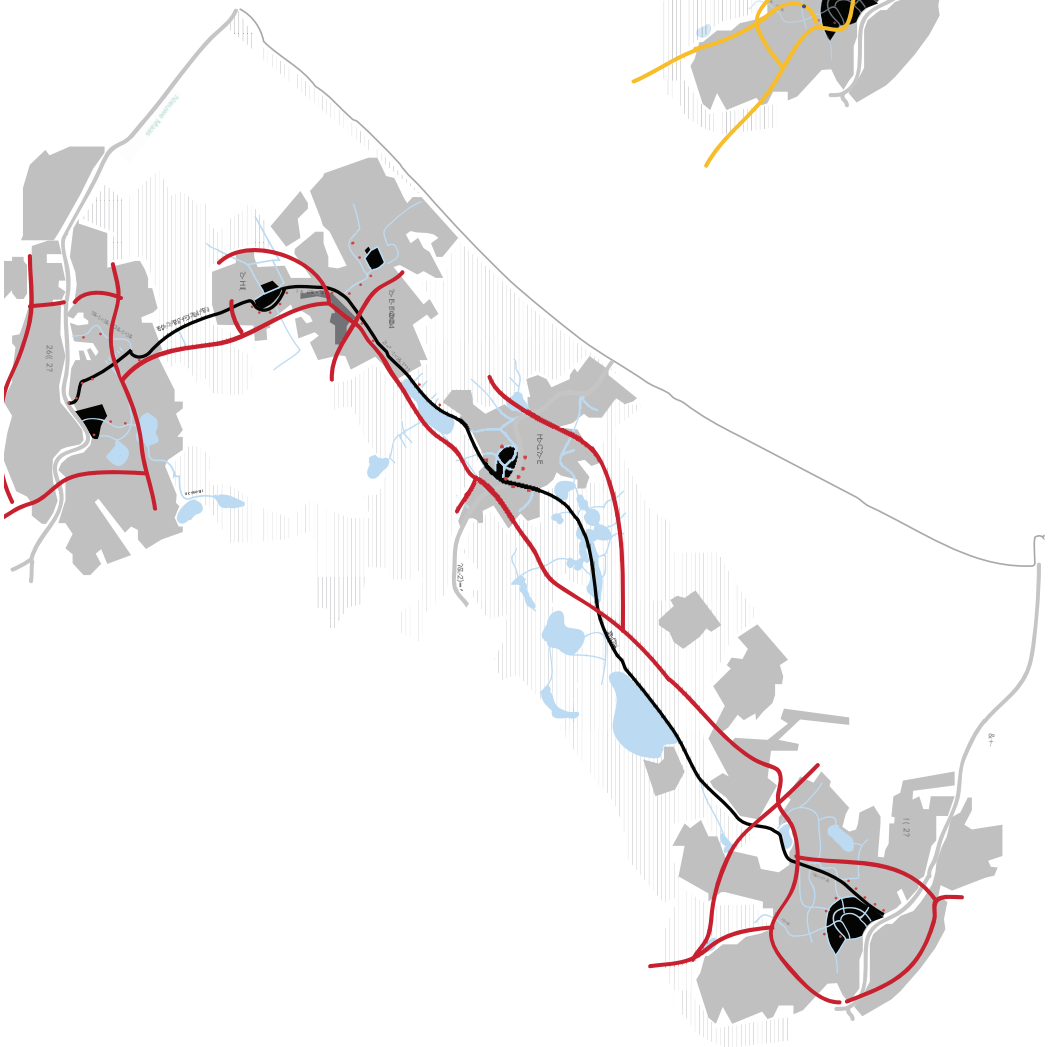
THE POLDER METROPOLE

FUTURE

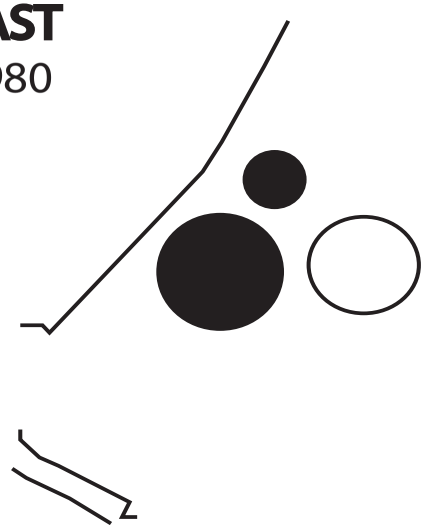

HORSE
WATER
FEET
BIKE
TRAIN
CAR
1800
1900
1920
1950 - NOW
FUTURE
!
!
!

Constant Gabriël (1828-1903), Il vient de loin (hij komt van ver) ca. 1887, olieverf op doek, Kröller-Müller Museum, Otterloo.





PAST
1980



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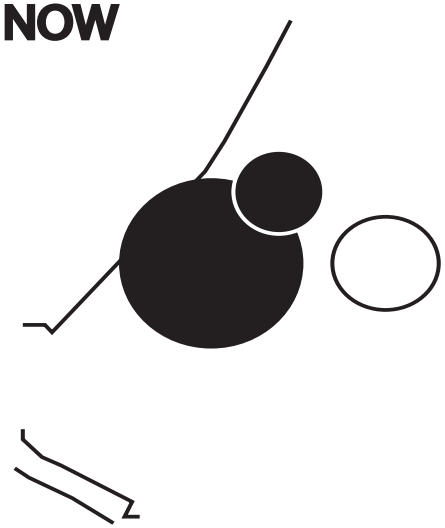
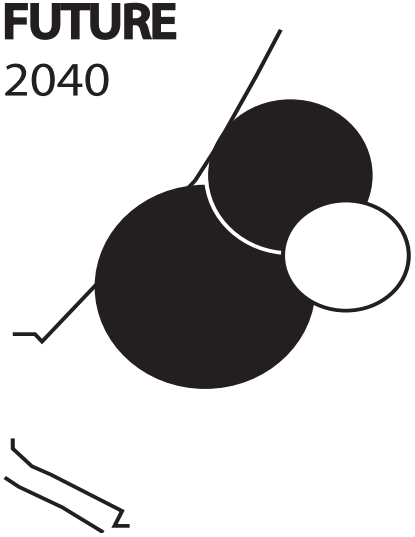
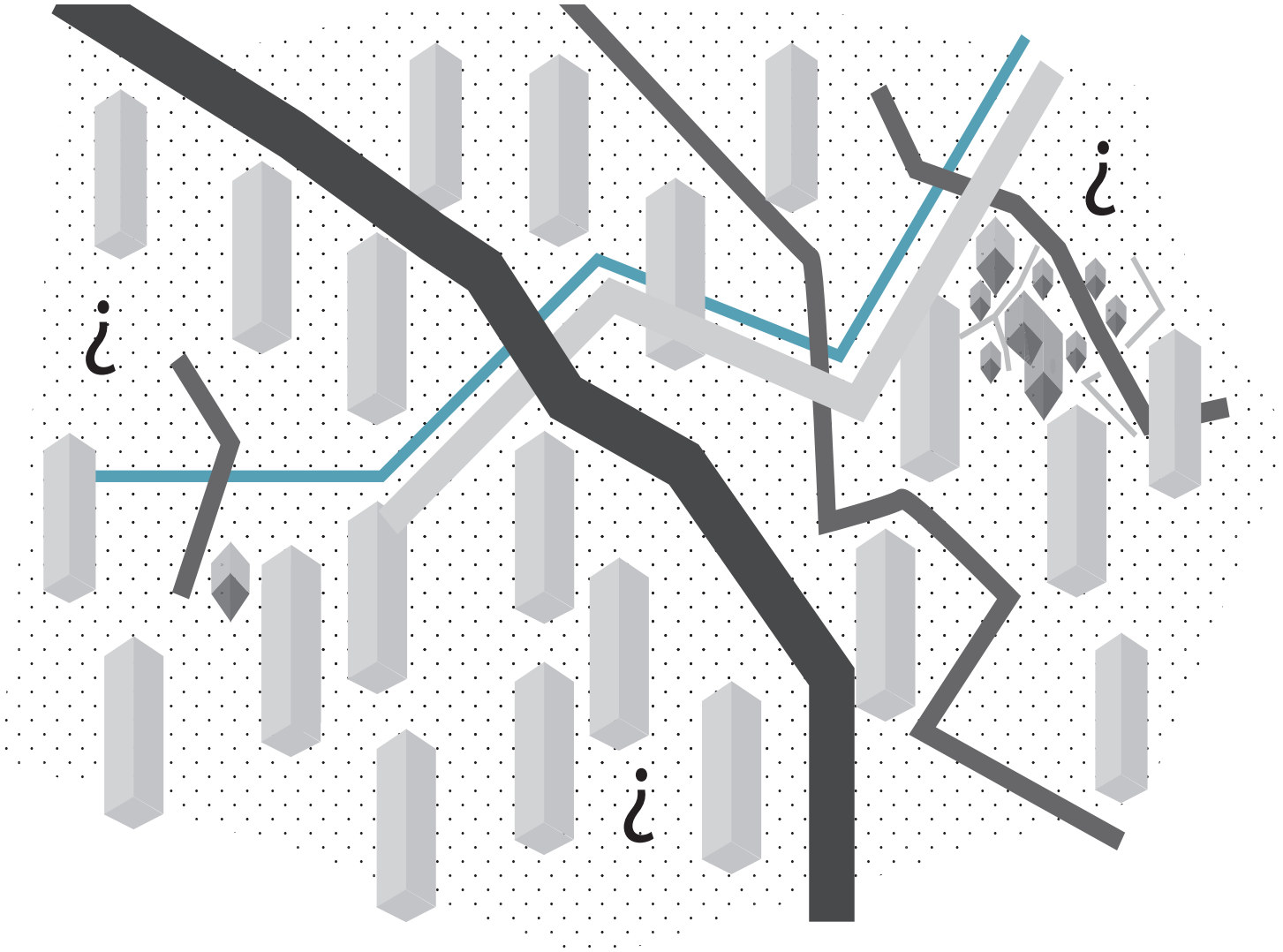
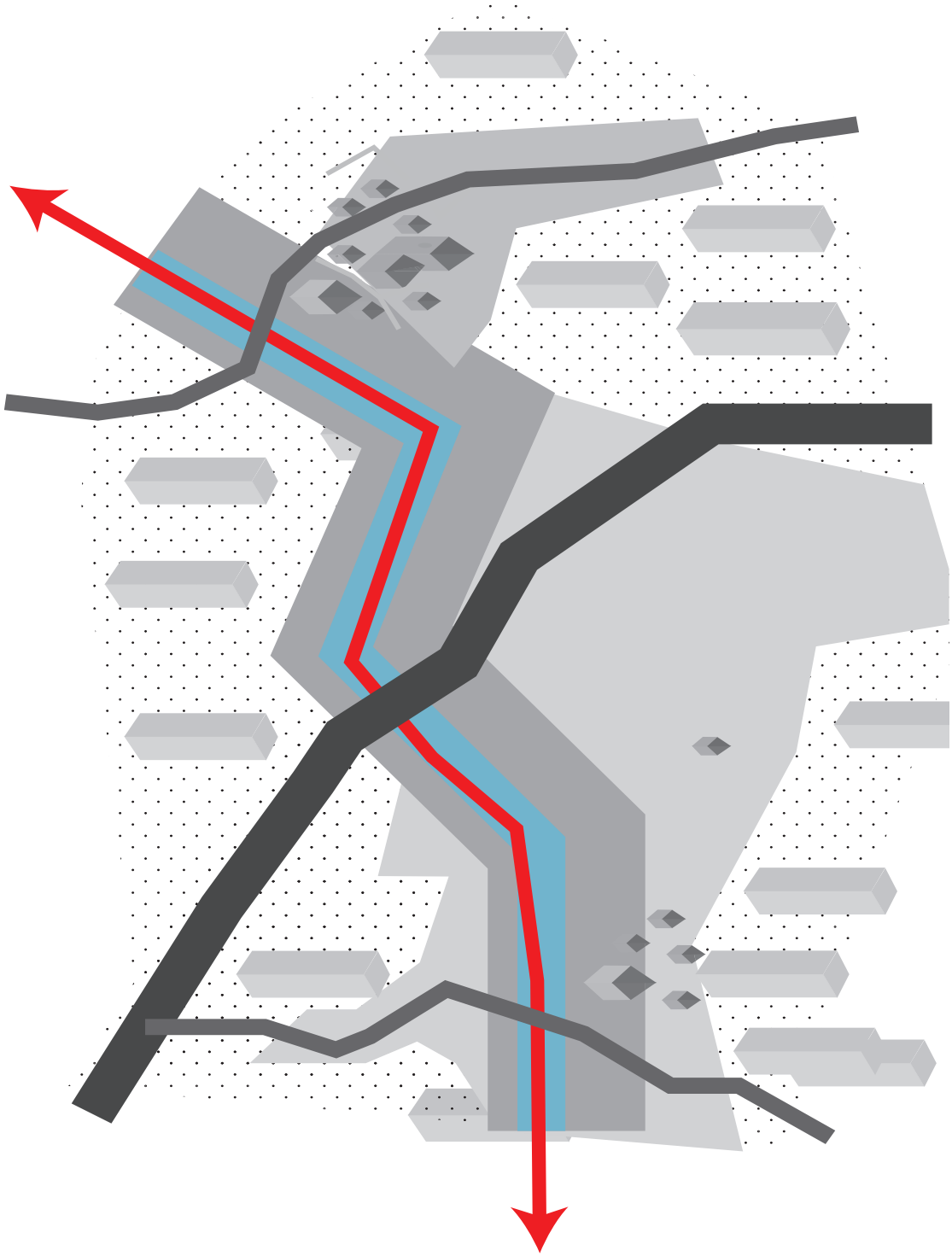


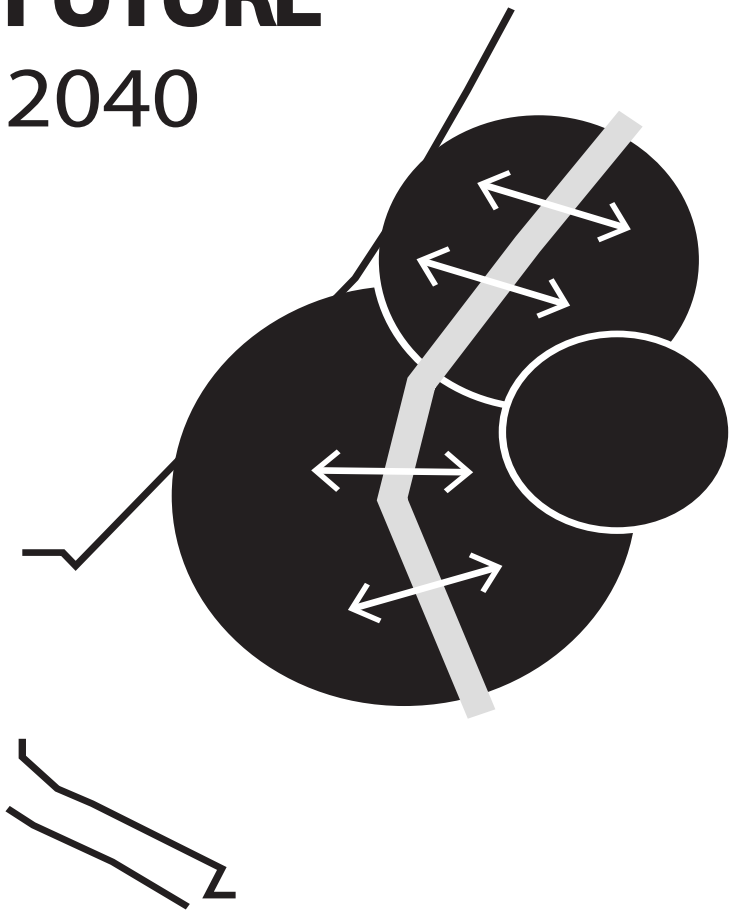
FUTURE
2040



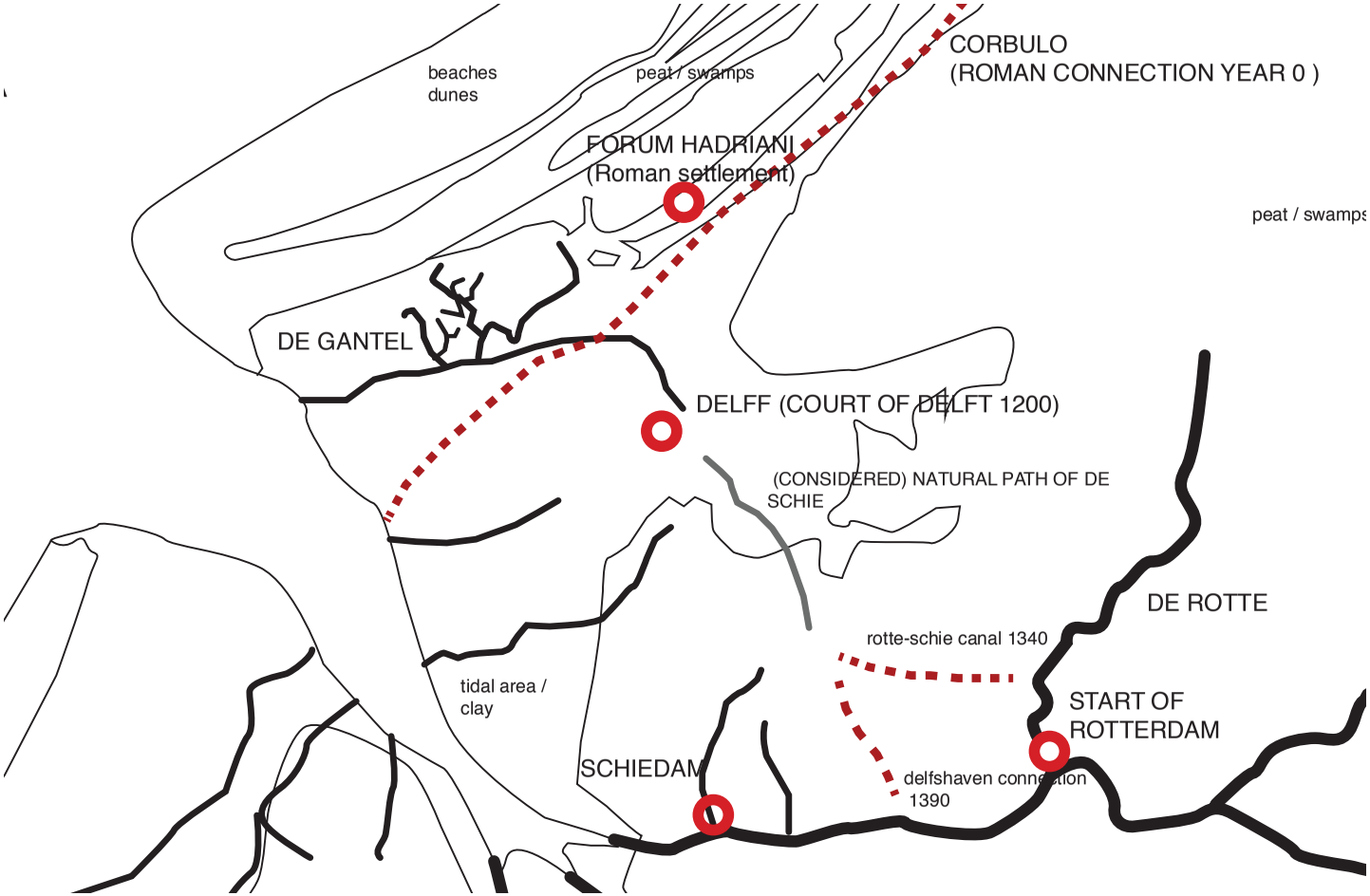




FUTURE
2040



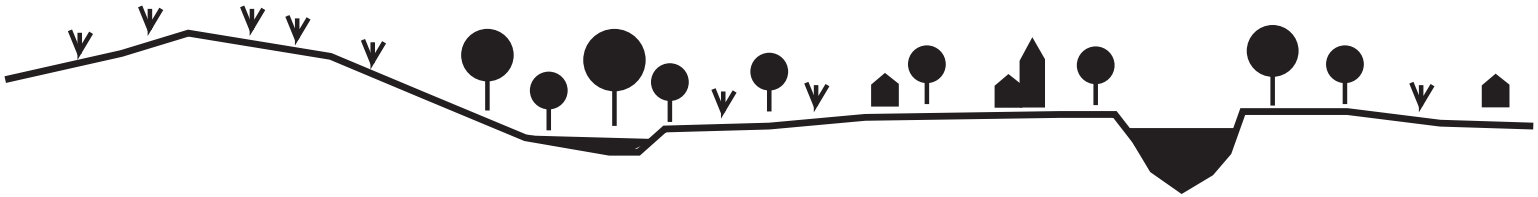
A WATER KINGDOM



1000 YEARS AGO

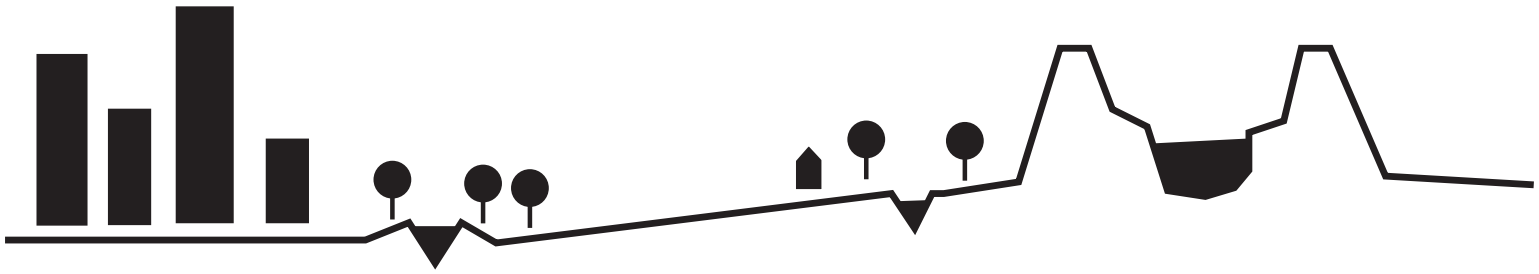
HIGHER GROUNDS

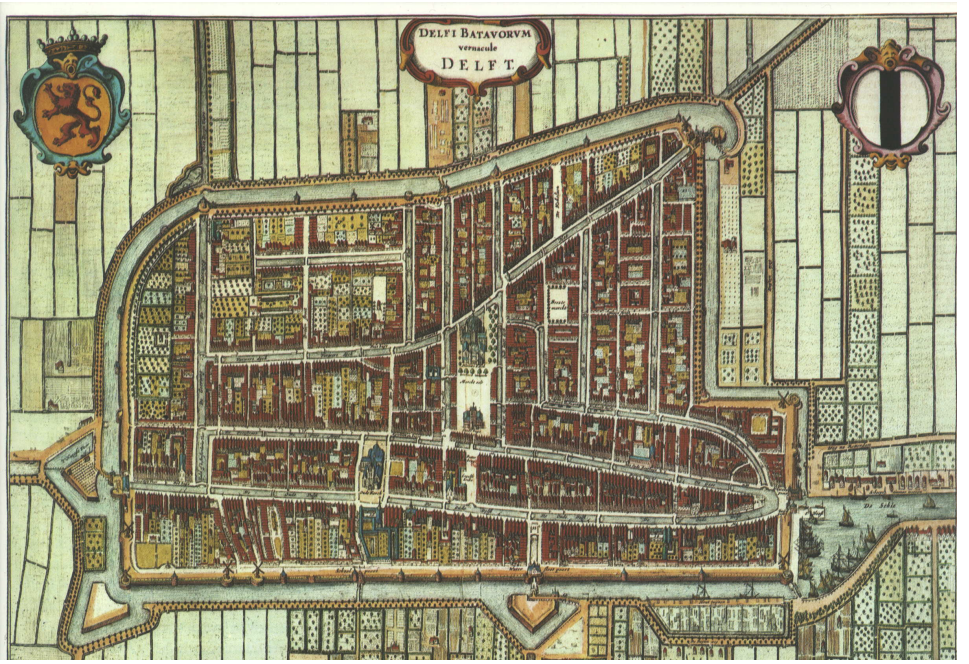
LOW PEAT AREA

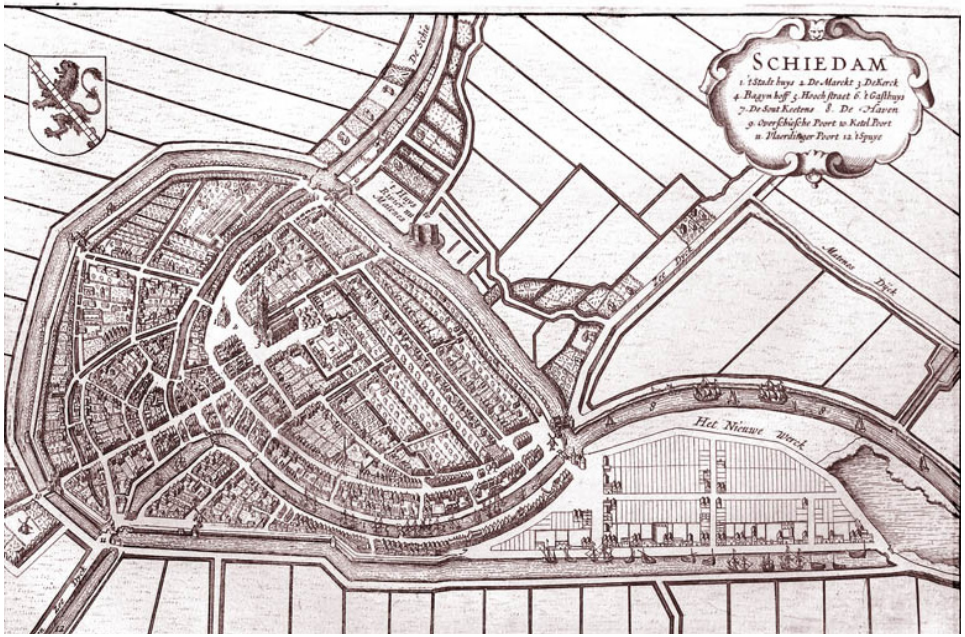


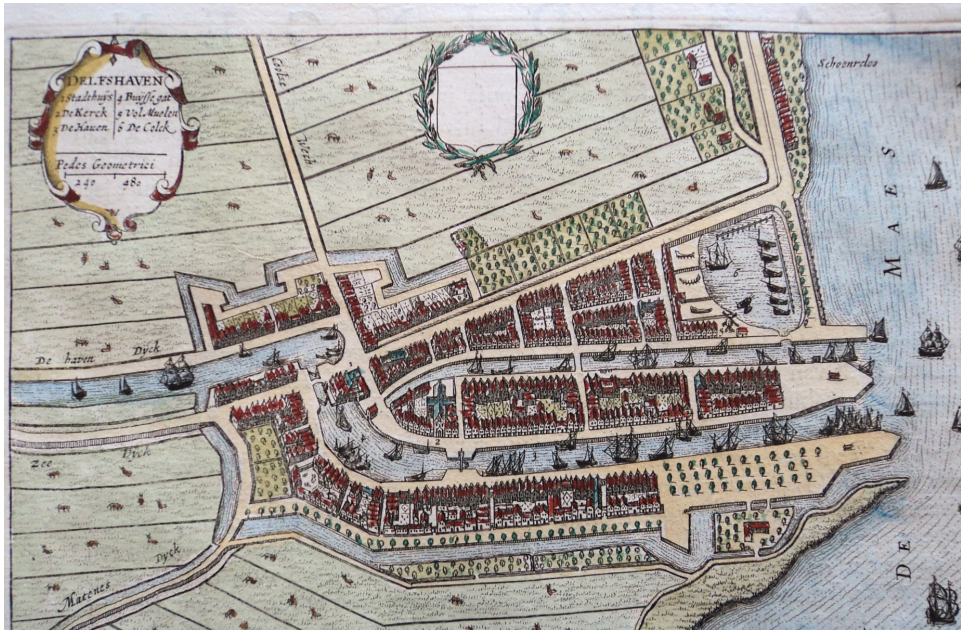
NOW

POLDERS









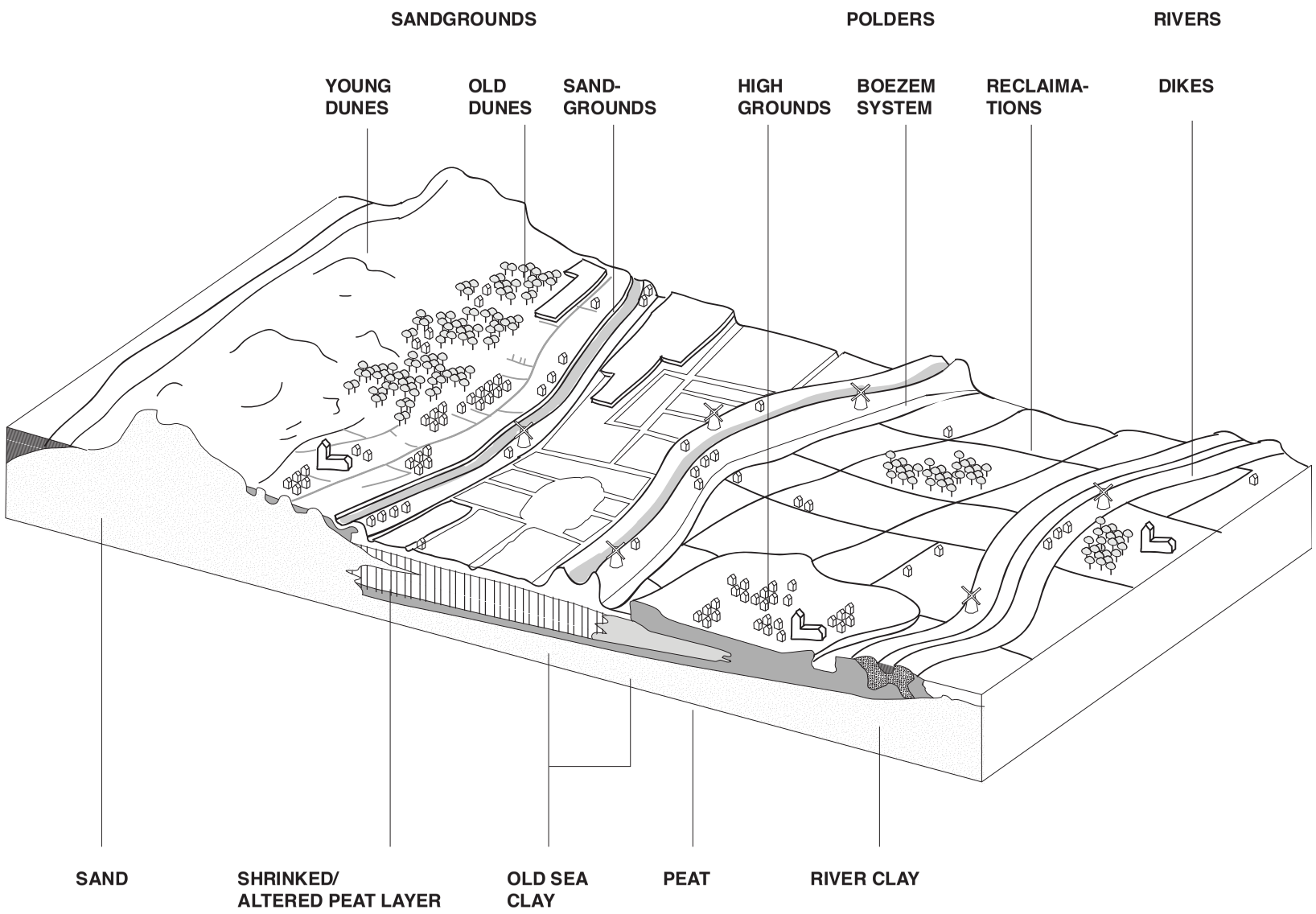
17th Century cities The Hague, Delft, Schiedam and Schipluiden. Source: Gemeentearchief Delft, 2015

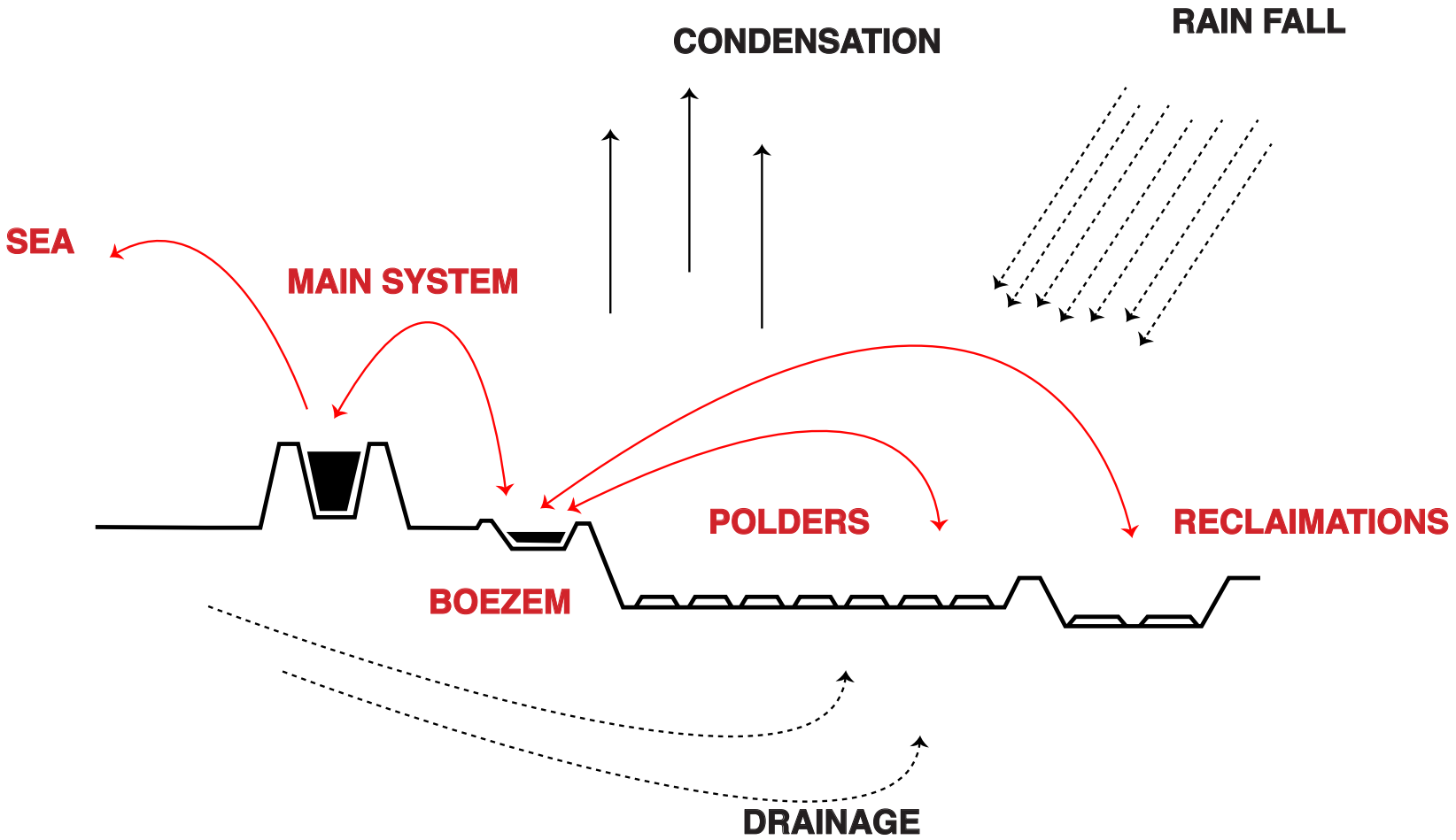
Alblasserdam. Source: Maritiem museum Rotterdam, 2015

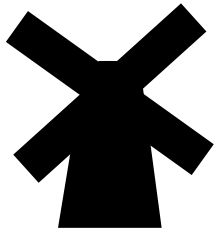
Zicht op Delft, Johannes Vermeer, 1662

Jan Hendrik Weissenbruch (1824-1903), De Trekvliet (1870), olieverf op doek, Gemeentemuseum Den Haag

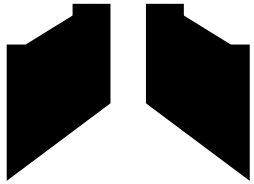
GRAND DESIGN




CONDENSATION
RAIN FALL
SEA
MAIN SYSTEM
POLDERS
RECLAIMATIONS
BOEZEM
DRAINAGE



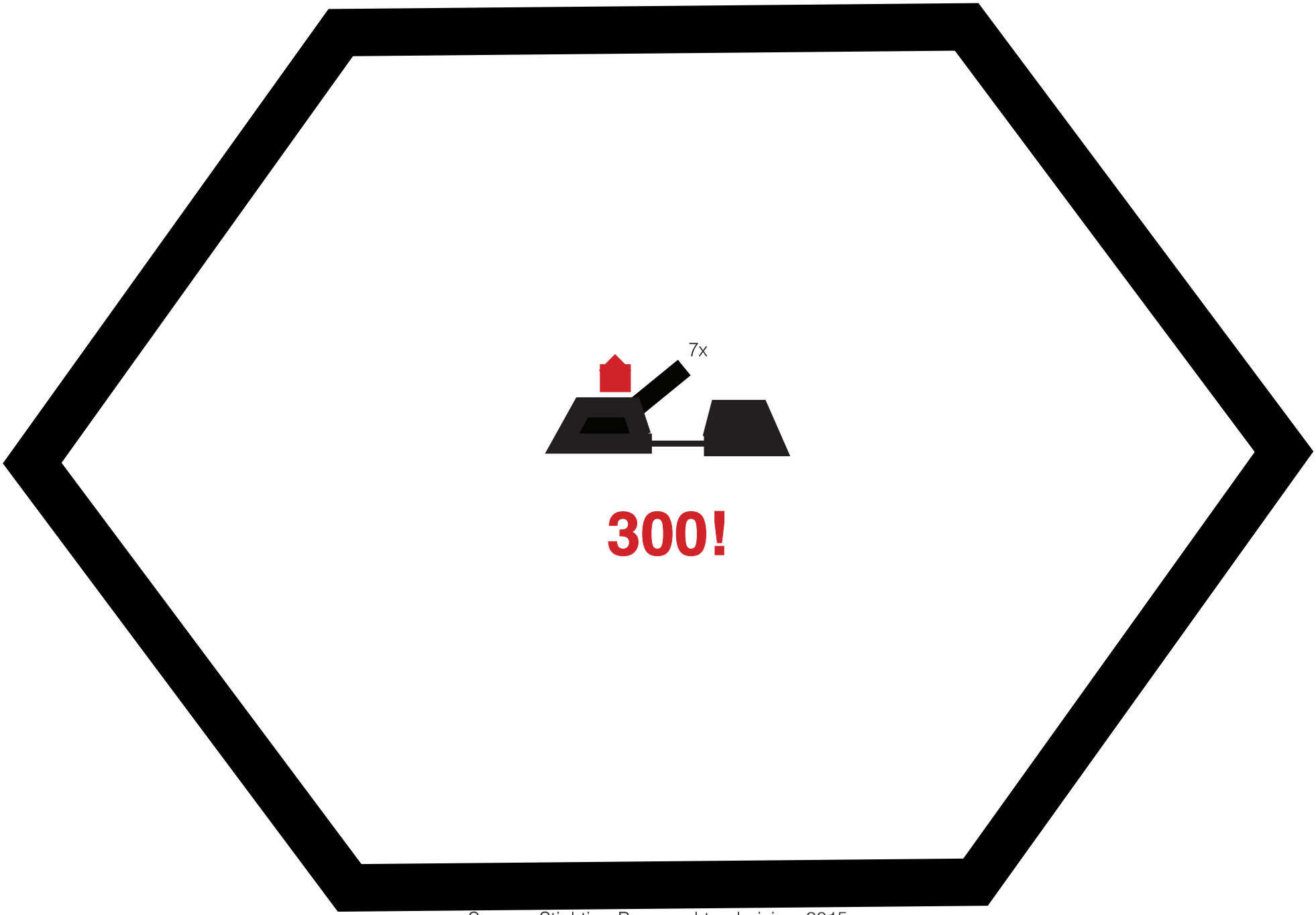
1200



250

950/40000

Source: Rijkswaterstaat, 2015



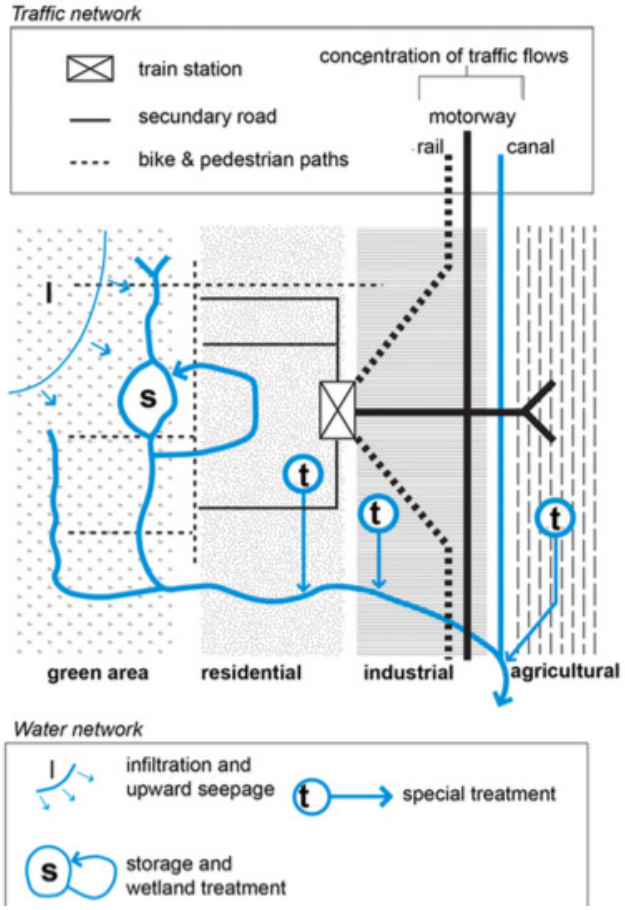
Source: Stichting Brugwachtershuisjes, 2015
Waterschappen Provincie Zuidholland

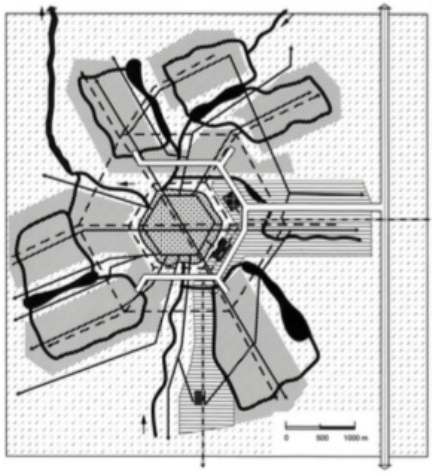
PROBLEM & ANALYSIS

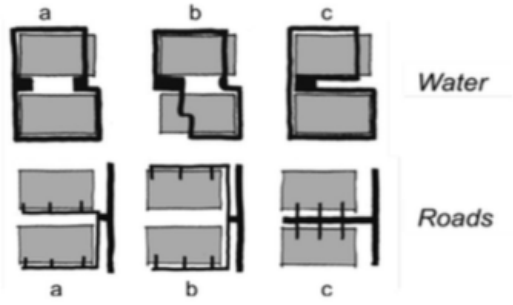
THEORY & METHOD

CONCEPT & DESIGN

THE TWO NETWORK STRATEGY

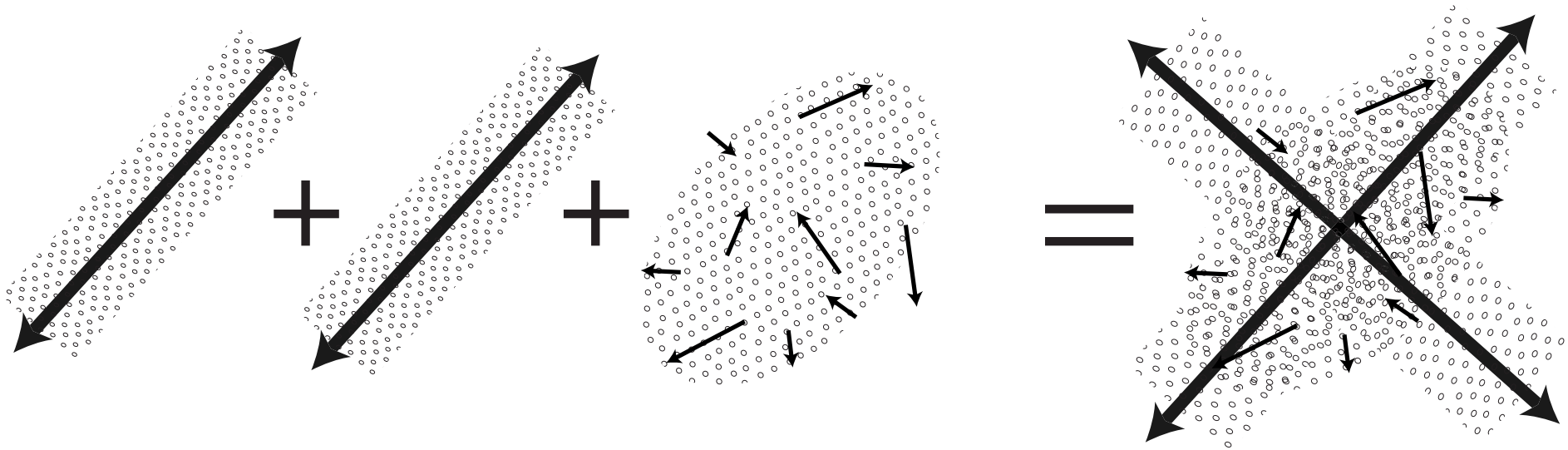




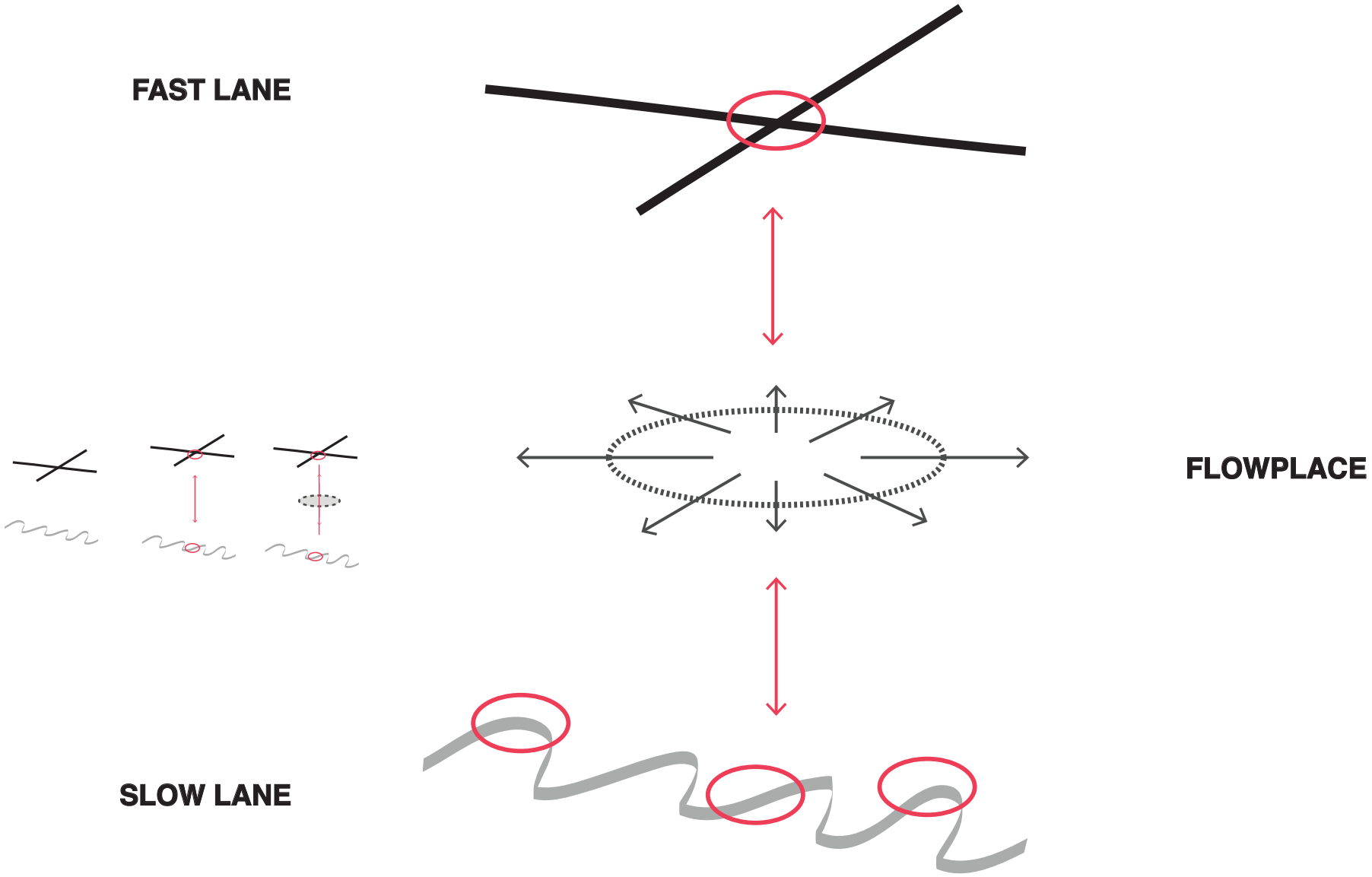


Tjallingii, S.P. (2010) 'Planning with Water, Dilemmas and Strategies', in: L. Fabian & P. Vigano Extreme City, Climate Change and the Transformation of the Water-scape. Venezia, IUAV, pp 109-118
Tjallingii, S.P. (2012) 'Water ows and urban planning', in: E. van Bueren, H. van Bohemen, L. Itard & H. Visscher (eds.) Sustainable Urban Environments – An Eco-systems Approach. Dordrecht/London/NewYork, Springer, pp 91-112

FLOWSCAPES



Nijhuis, S., & Jauslin, D., (2015). Urban landscape infrastructures. Designing operative landscape structures for the built environment. Research In Urbanism Series, 3(1), 13-34. doi:10.7480/rius.3.874

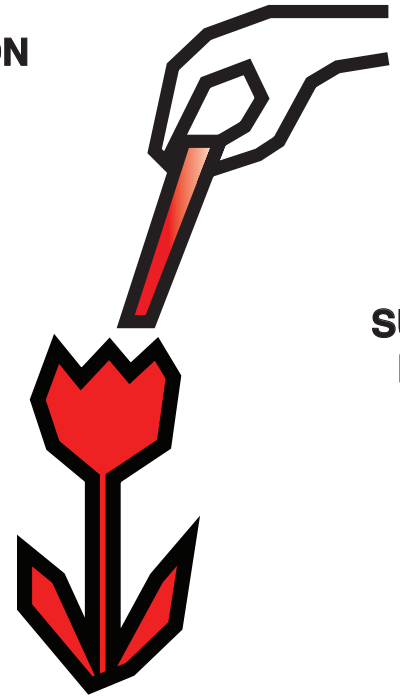


Tjallingii, S., (2015). Planning with water and traffic networks. Carrying structures of the urban landscape. Research In Urbanism Series, 3(1), 57-80. doi:10.7480/rius.3.832

IN AGGREGATE

THE MINIMAL INTERVENTION

INTERVENTION

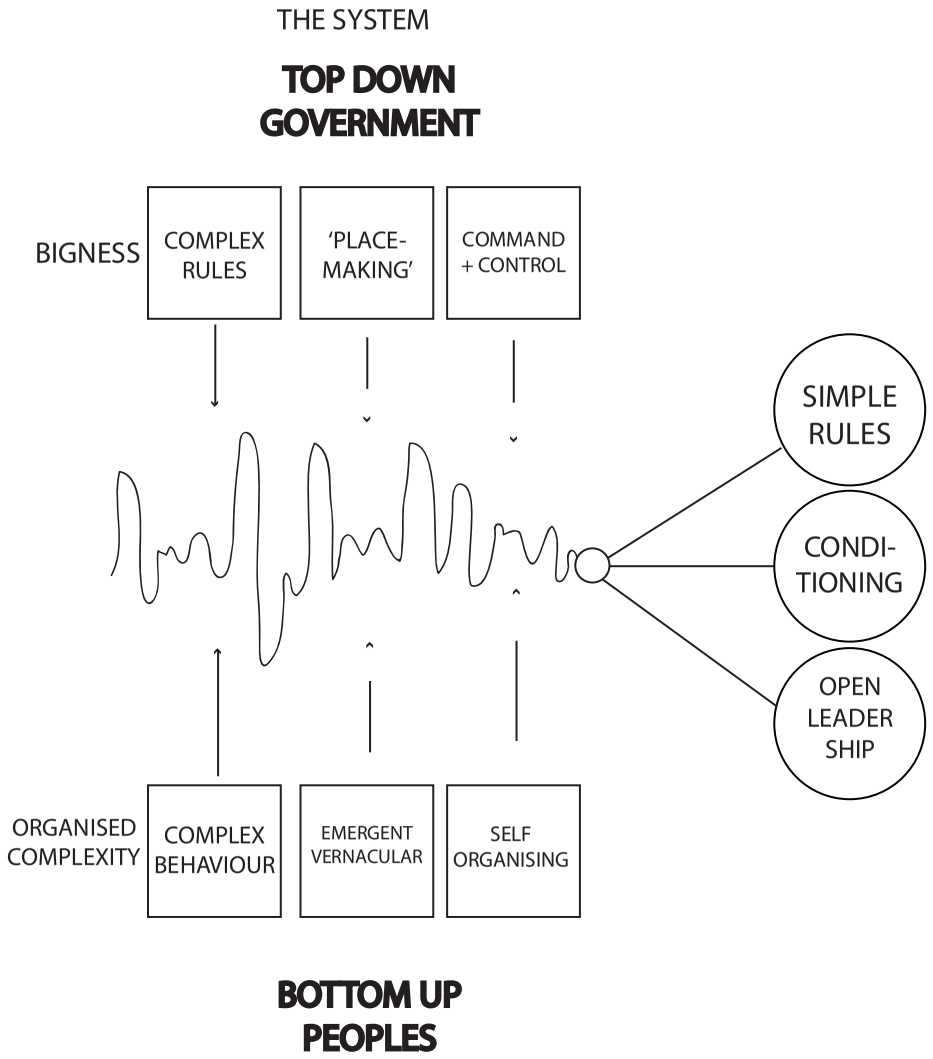


SUBTRACTION OF INFORMATION / EXPERIENCE

EXISTING OBJECT

Lassus, B., (1998). The landscape approach. University of Pennsylvania Press. ISO 690

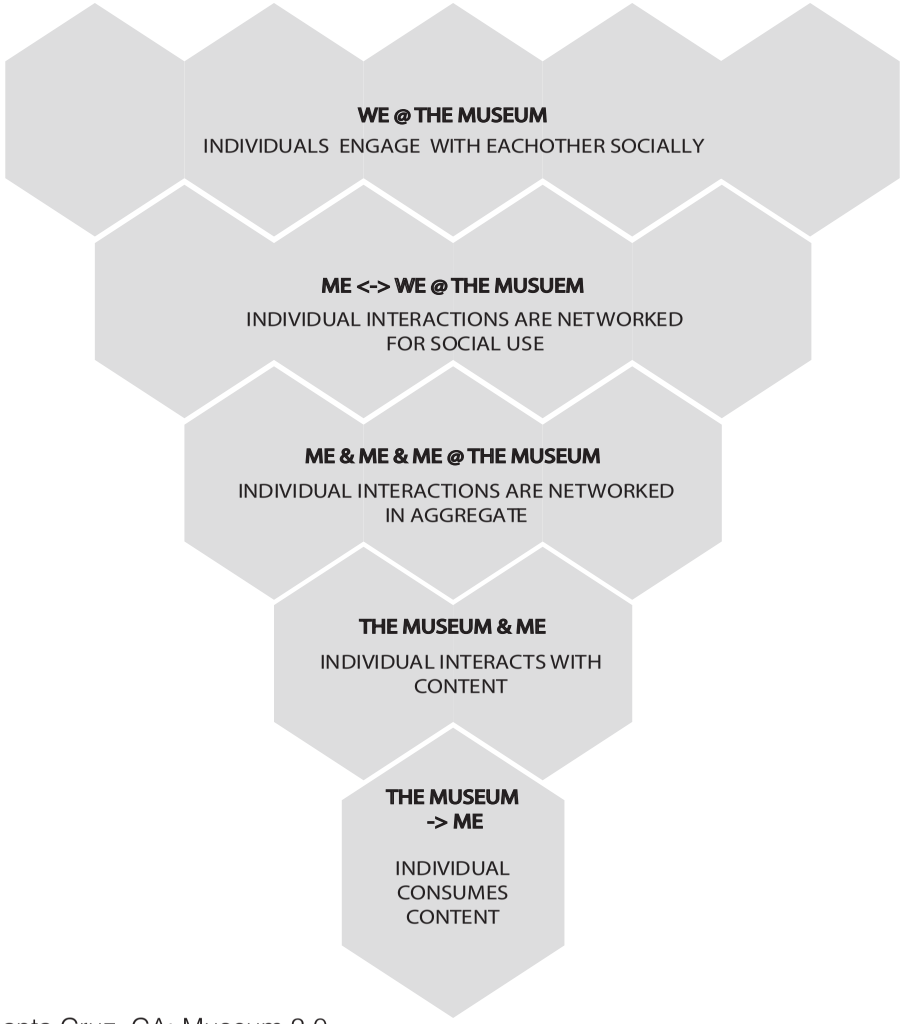
TOP DOWN ≋ BOTTOM UP



Campbell, K. (2011) Massive Small: The Operating Programme For Smart Urbanism.. ISBN: 9780956860002 (0956860001)

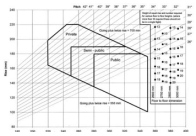
INVITING PARTICIPATION

THE HIERARCHY OF PARTICIPATION



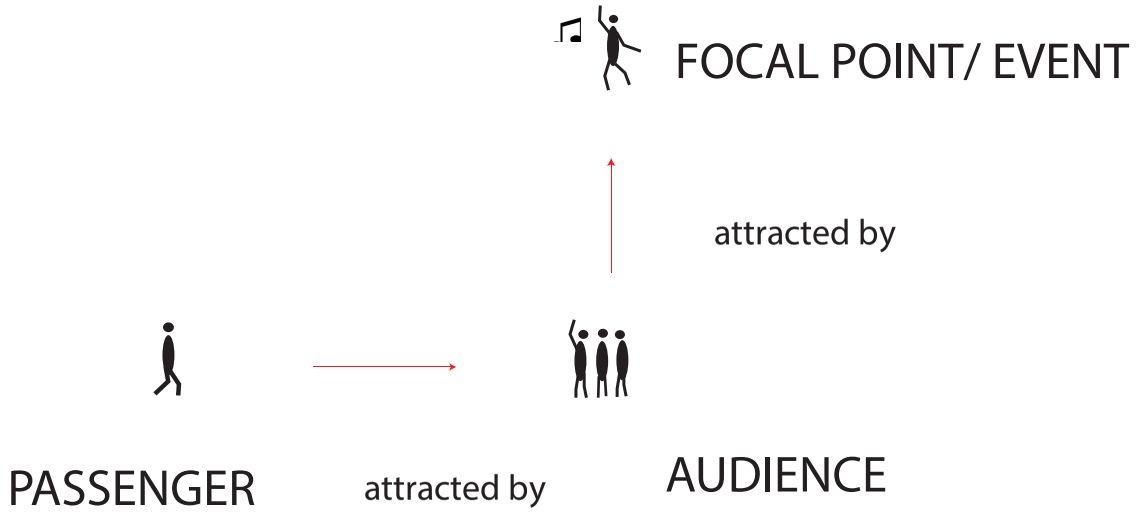
Simon, N (2010) The Participatory Museum. Santa Cruz, CA: Museum 2.0
Kaplan, R. & Kaplan, S. (1987) Humanscape: Environments for People, Edition 86-89
Alexander, C. et al. (1977), A Pattern Language, New York: Oxford University Press.

INVITING SPACES



Gehl, (1987/2011), Life Between Buildings: Using Public Space J Washington - Covelo - London: Island Press, ISBN: 978-1597268271
Whyte, W. (1980), The Social Life of Small Urban Spaces, Washington: The Conservation Foundation.
Lynch, K. (1971), Site Planning, Cambridge, MA: The MIT Press.
Alexander, C. et al. (1977), A Pattern Language, New York: Oxford University Press.

TRIANGULATION

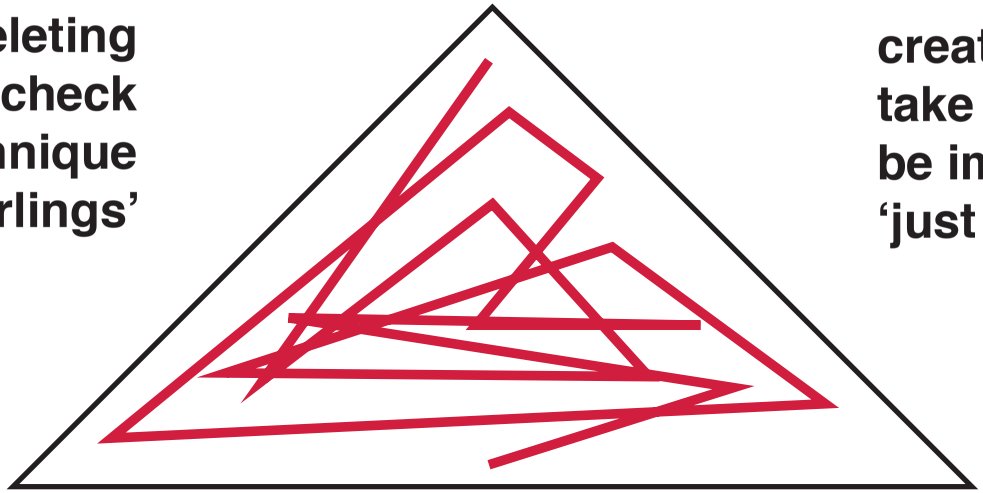


Whyte, W. (1980), The Social Life of Small Urban Spaces, Washington: The Conservation Foundation.

PERSONAL METHOD

DOING

deleting
reality check
technique
‘kill your darlings’



creating
take action
be impulsive
‘just do it’

THINKING

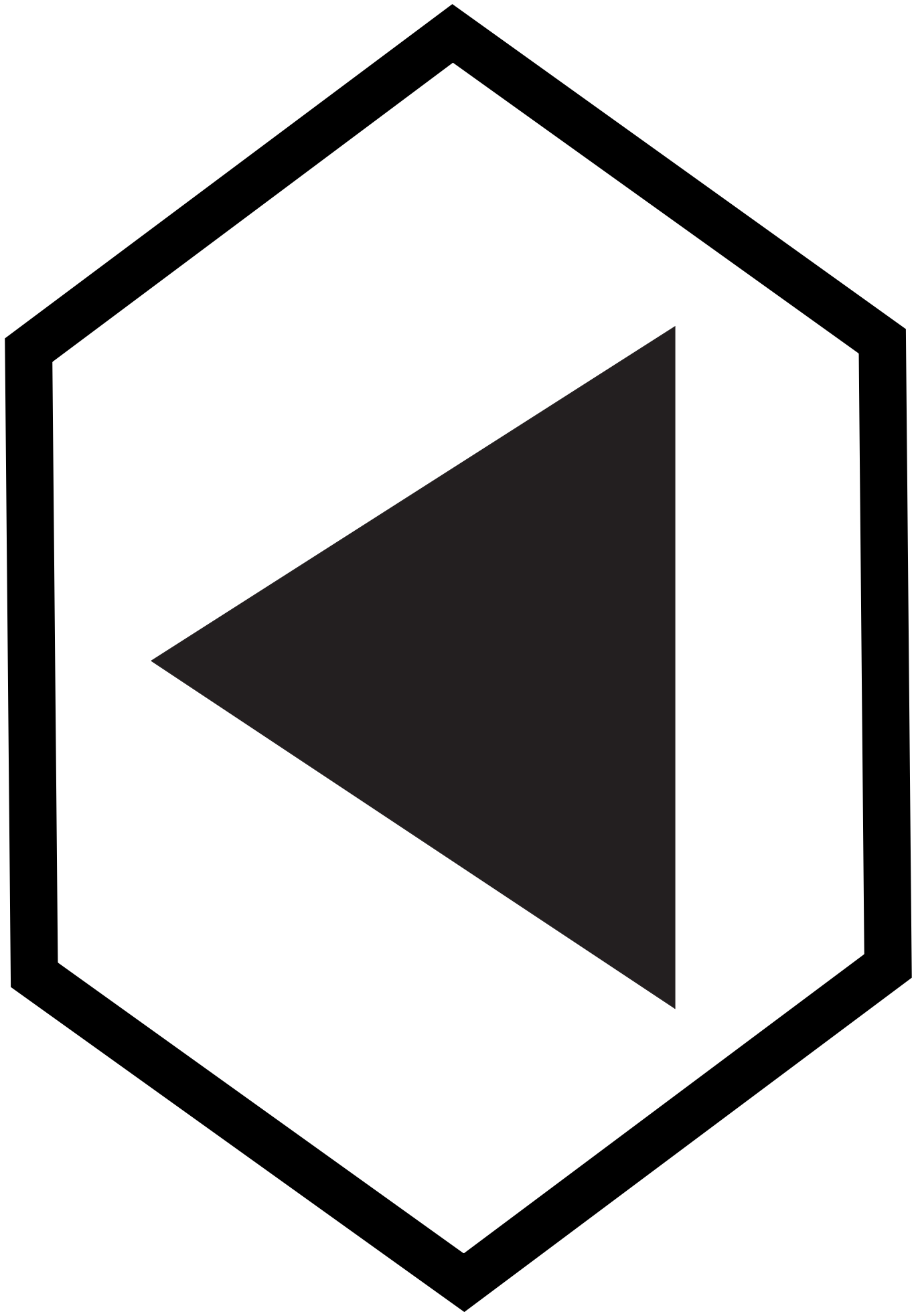
FEELING

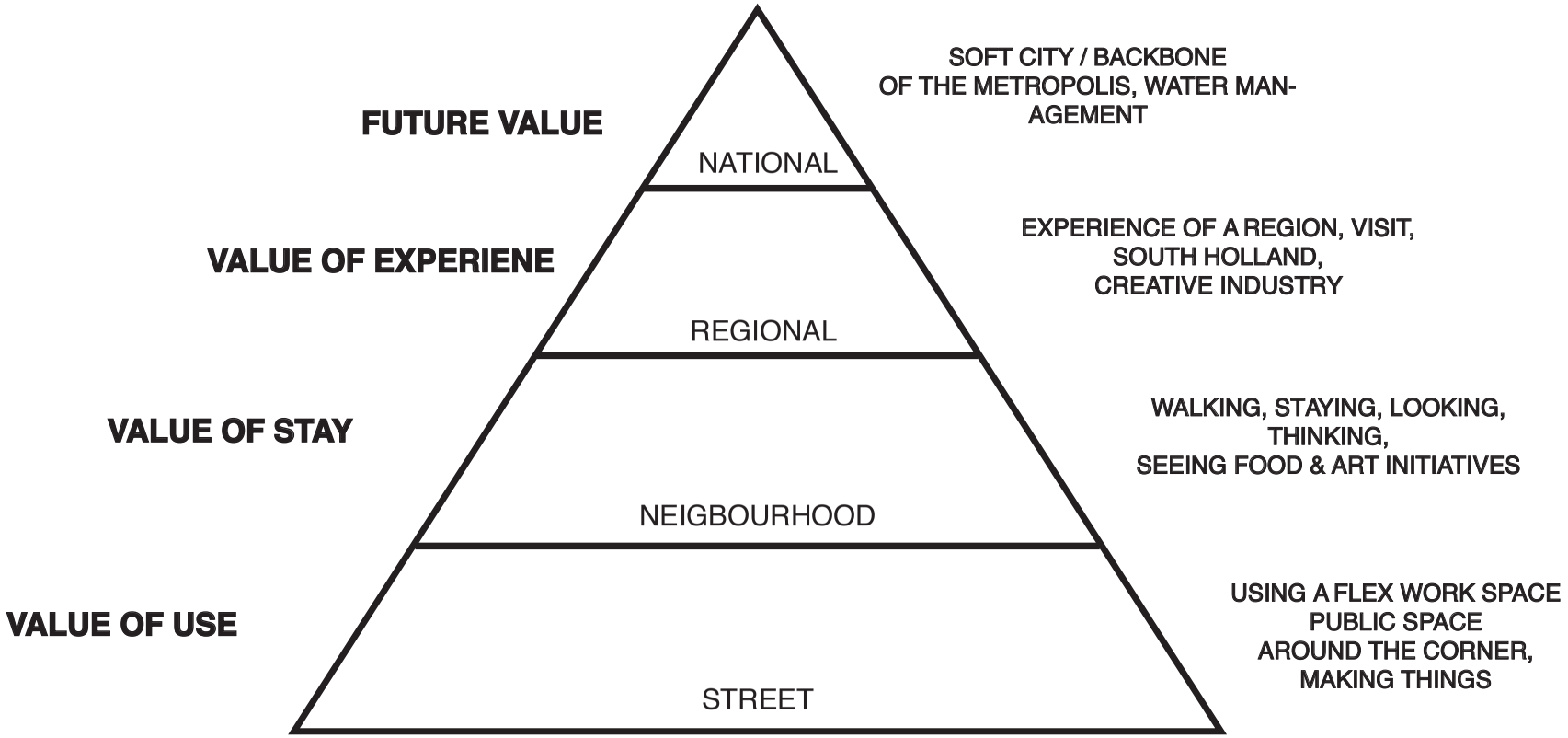
dreaming
gut feeling
wishing
‘what if’

PROBLEM & ANALYSIS

THEORY & METHOD

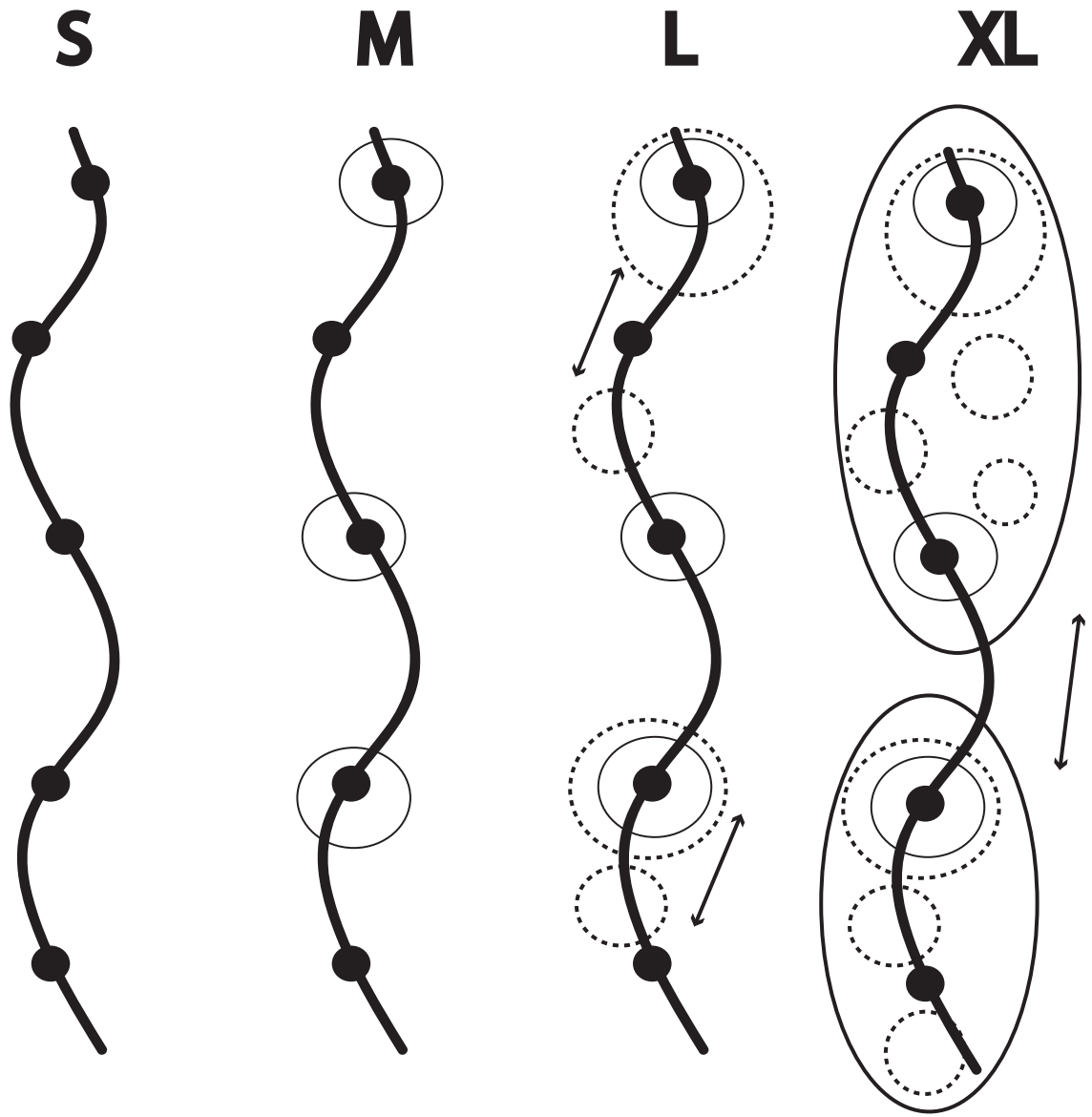
CONCEPT & DESIGN



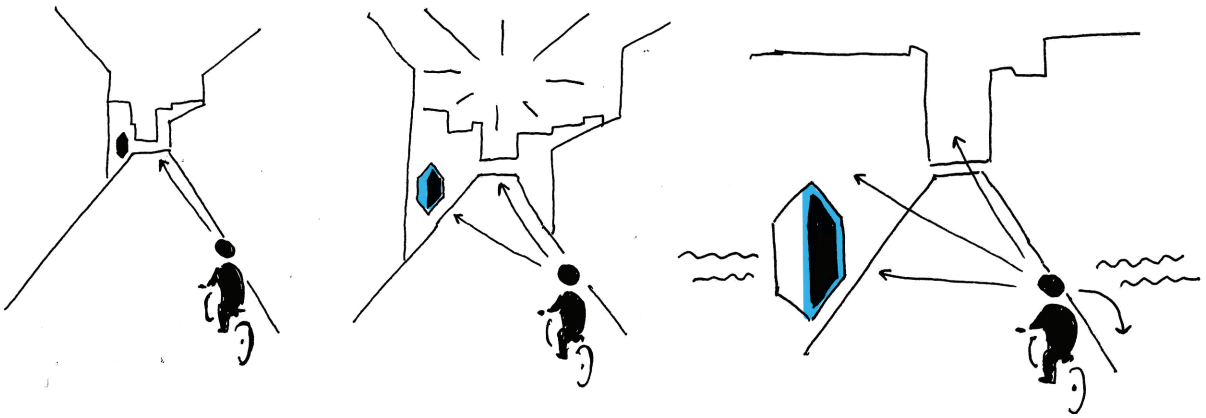

FUTURE VALUE
NATIONAL
SOFT CITY / BACKBONE
OF THE METROPOLIS, WATER MAN-
AGEMENT
VALUE OF EXPERIENE
REGIONAL
EXPERIENCE OF A REGION, VISIT,
SOUTH HOLLAND,
CREATIVE INDUSTRY
VALUE OF STAY
NEIGBOURHOOD
WALKING, STAYING, LOOKING,
THINKING,
SEEING FOOD & ART INITIATIVES
VALUE OF USE
STREET
USING A FLEX WORK SPACE
PUBLIC SPACE
AROUND THE CORNER,
MAKING THINGS

‘SUCCESSION’

WEEDS & GRASSES SHRUBS YOUNG FOREST COMMUNITY MATURE FOREST COMMUNITY

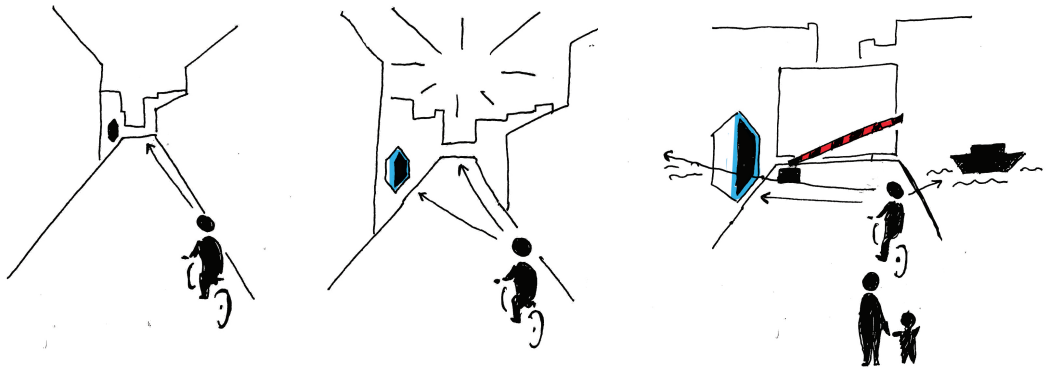

S
M
L
XL

OBJECT ON BRIDGE

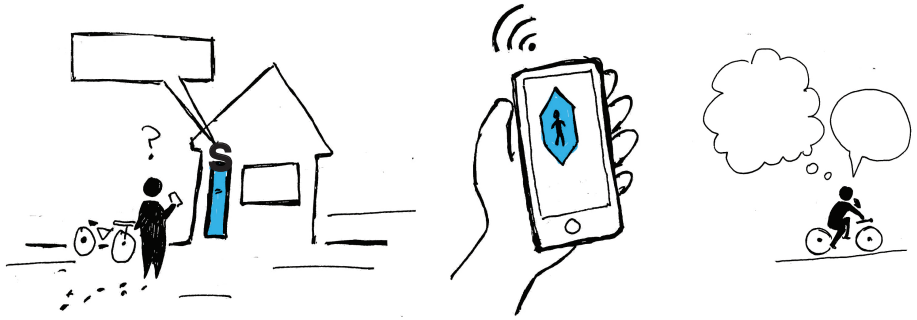


UNCONCIOUS REGISTRATION

INTERACTION



MOBILE APPLICATION



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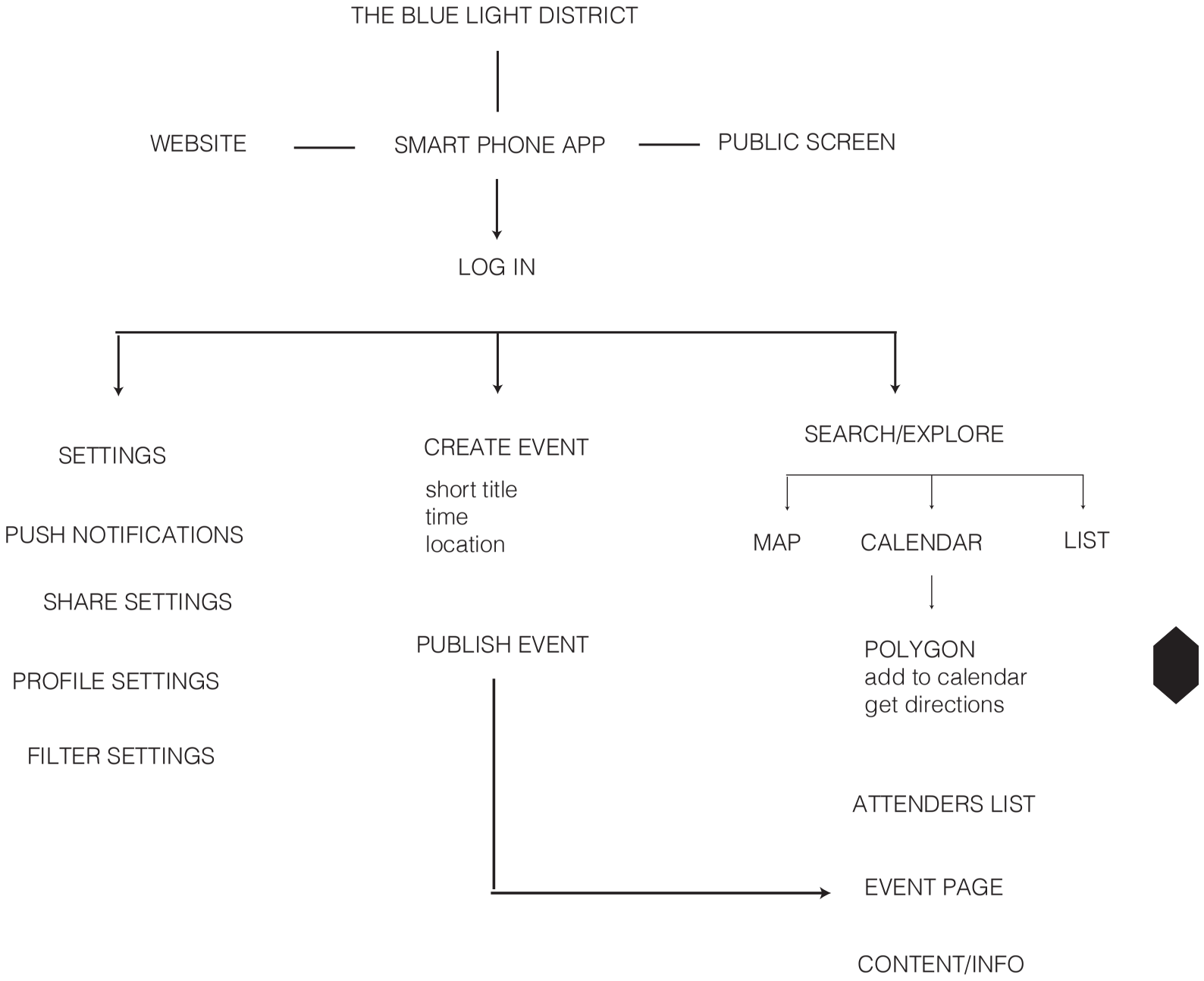
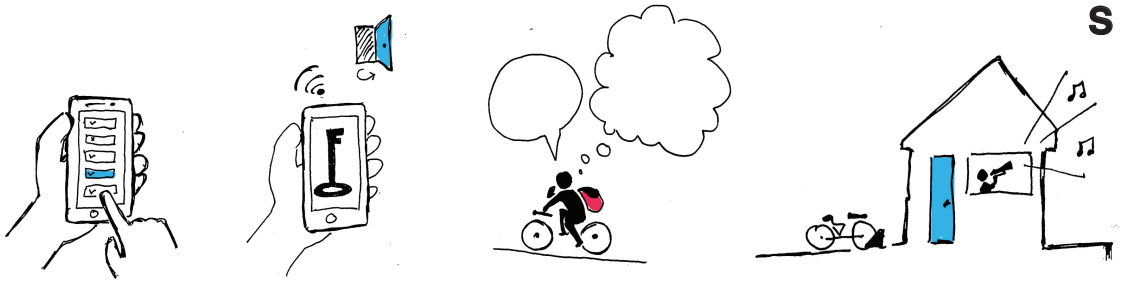

THE BLUE LIGHT DISTRICT
WEBSITE
SMART PHONE APP
PUBLIC SCREEN
LOG IN
SETTINGS
PUSH NOTIFICATIONS
SHARE SETTINGS
PROFILE SETTINGS
FILTER SETTINGS
CREATE EVENT
short title
time
location
PUBLISH EVENT
SEARCH/EXPLORE
MAP
CALENDAR
LIST
POLYGON
add to calendar
get directions
ATTENDERS LIST
EVENT PAGE
CONTENT/INFO

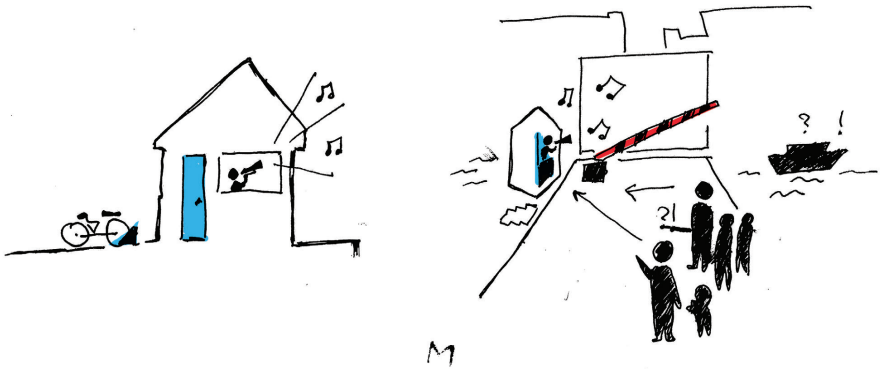
PIONEER INITIATIVE

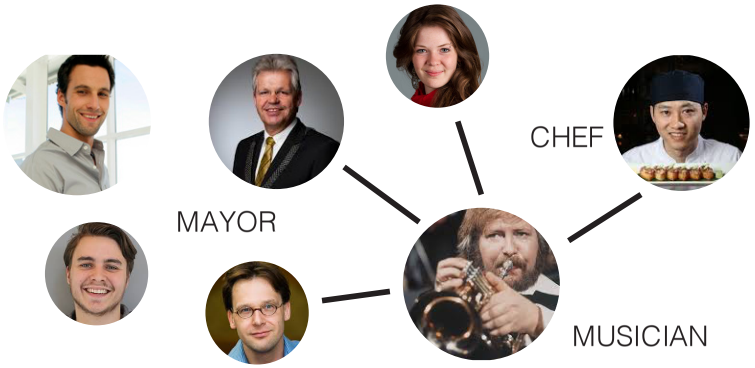


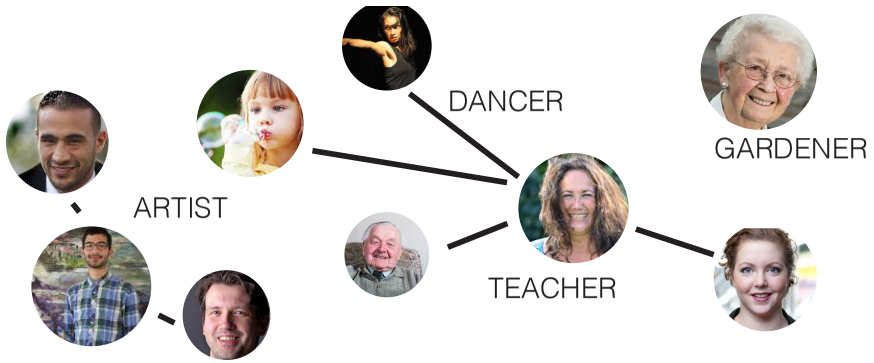
MUSICIAN

TEACHER

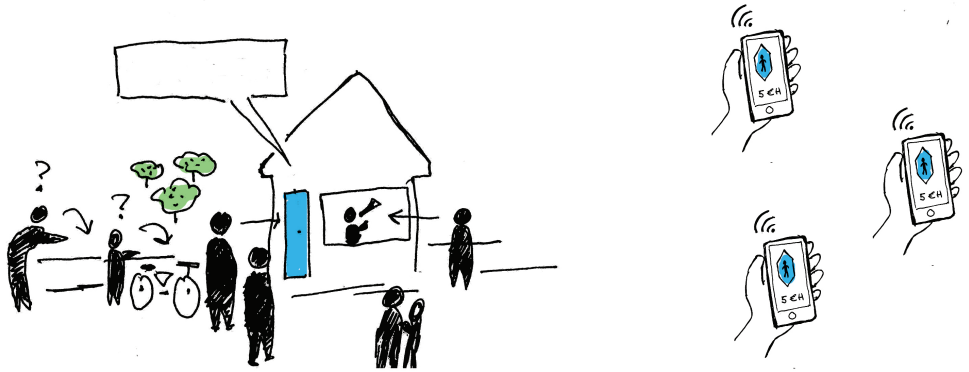
EARLY ADAPTERS

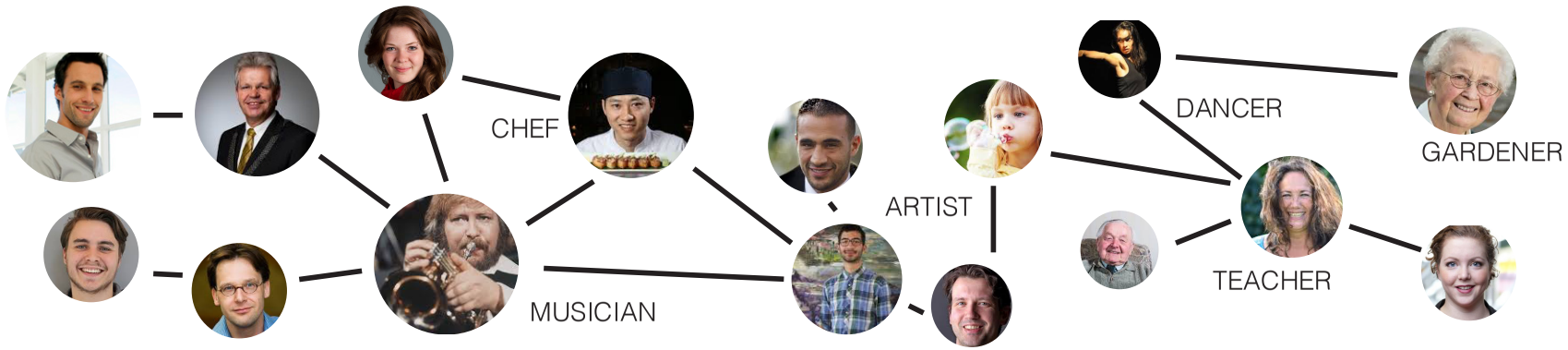




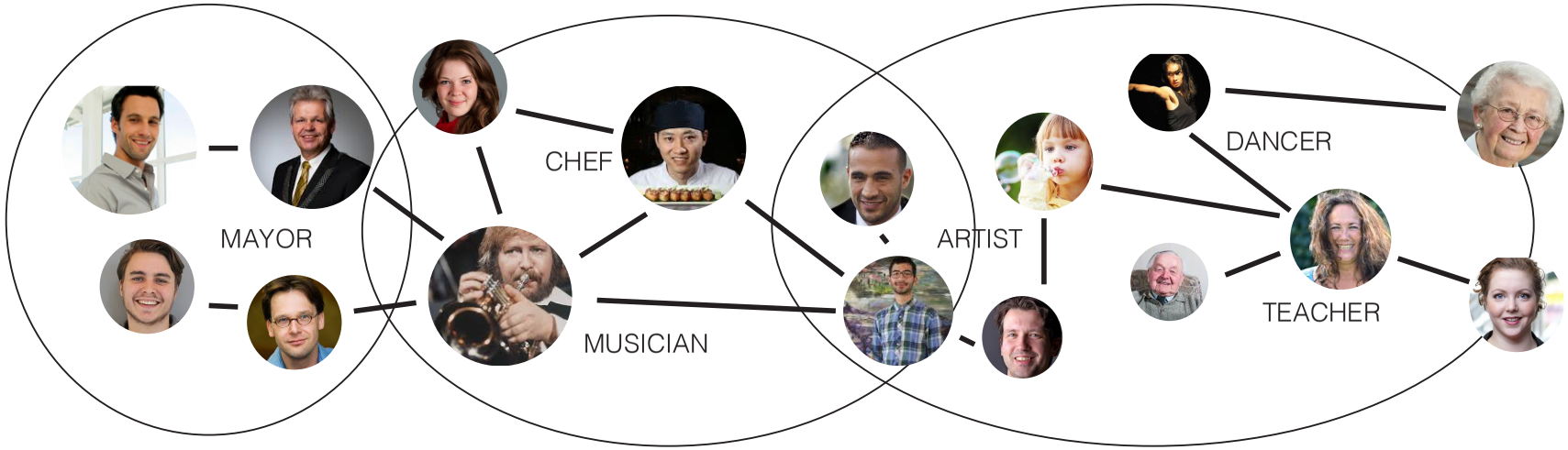


NETWORKING

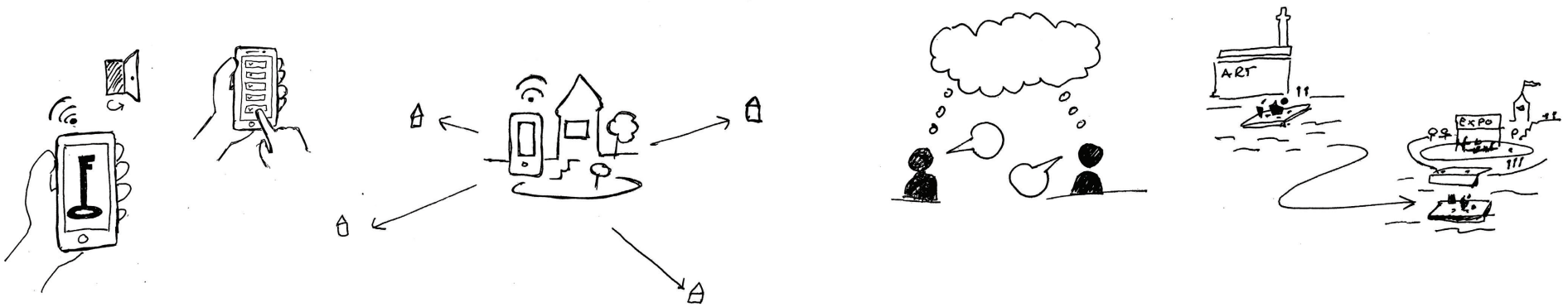


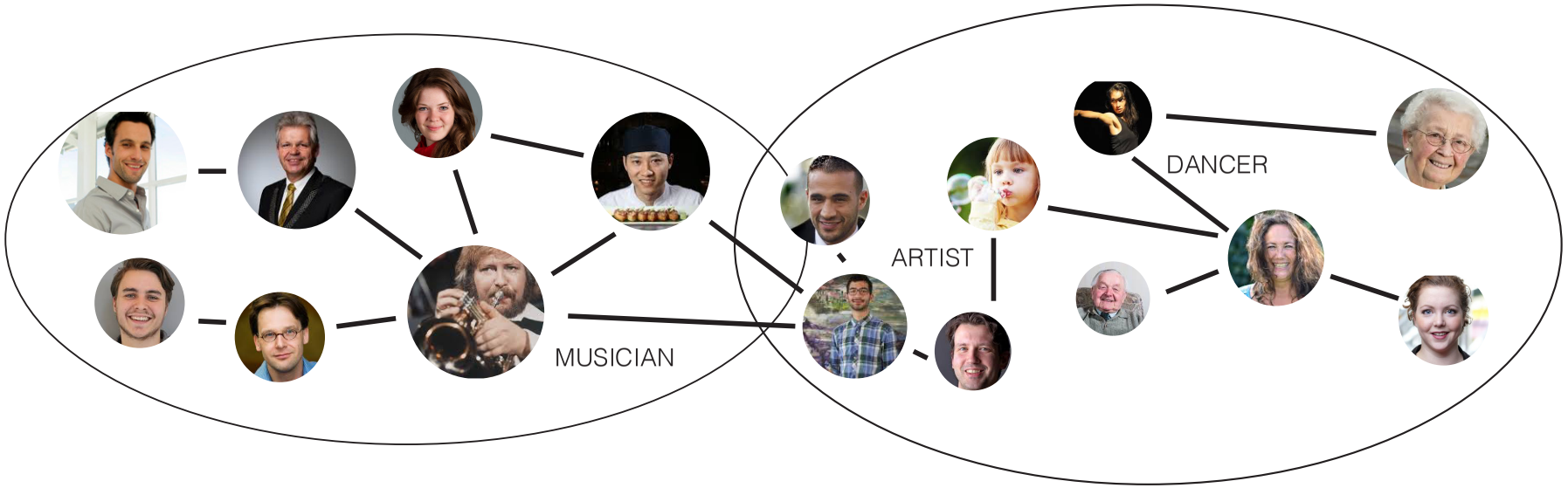


FOLLOWER INITIATIVES

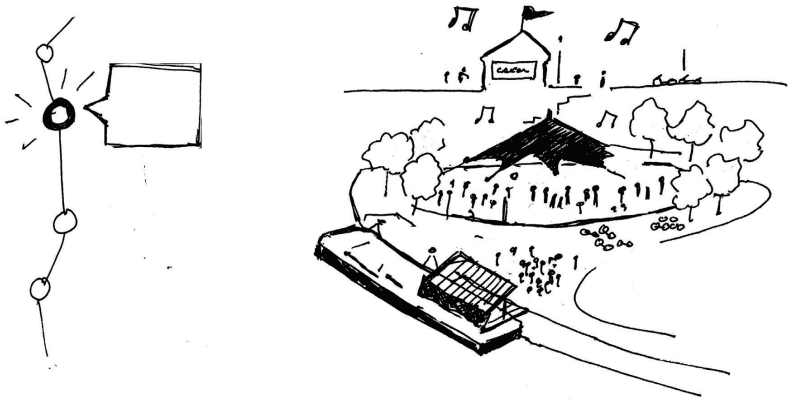


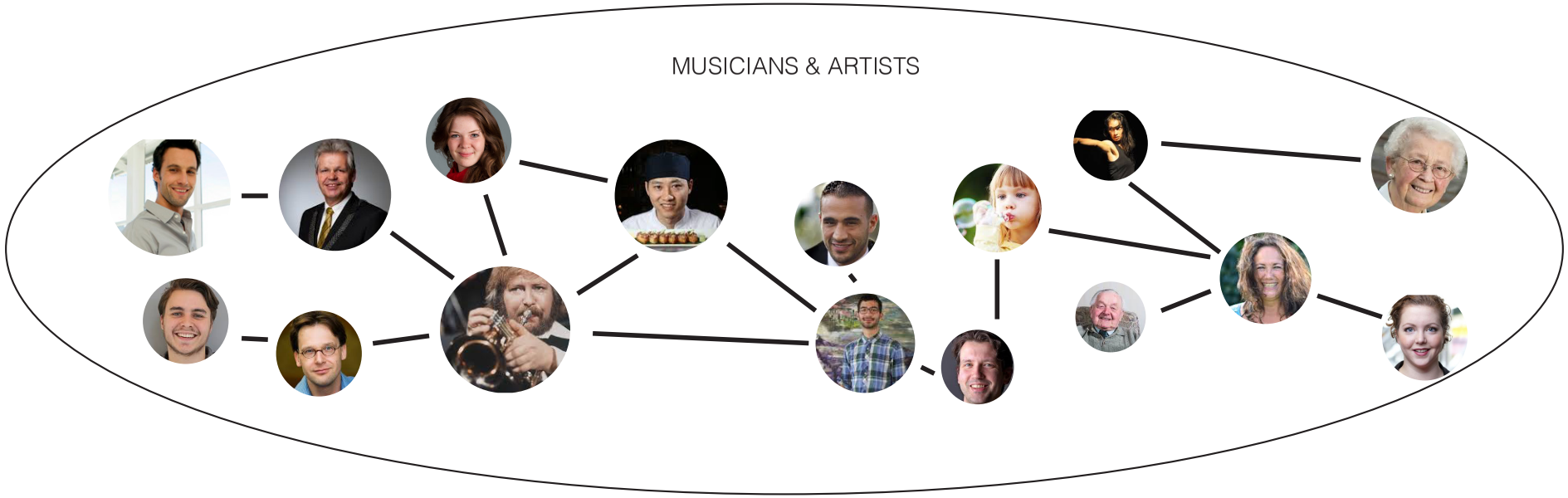
BROAD CASTING



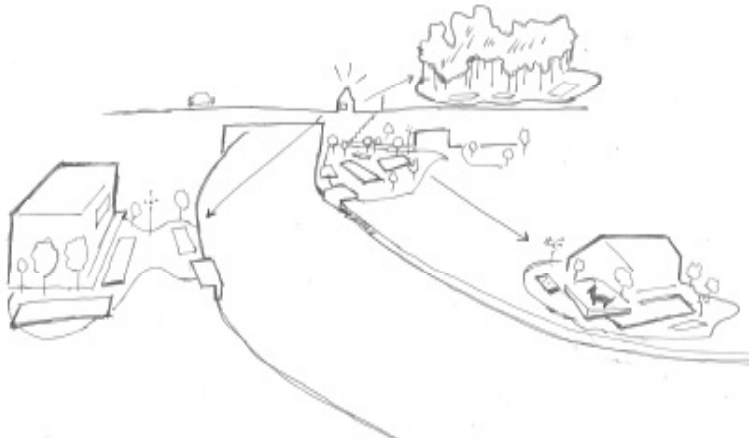


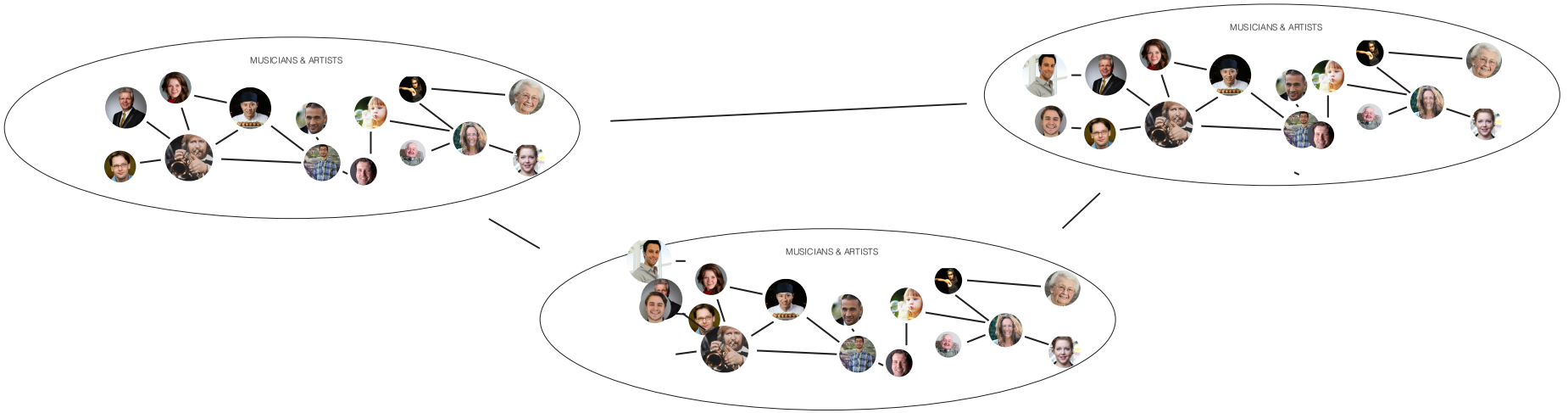
COMMUNITY FORMING





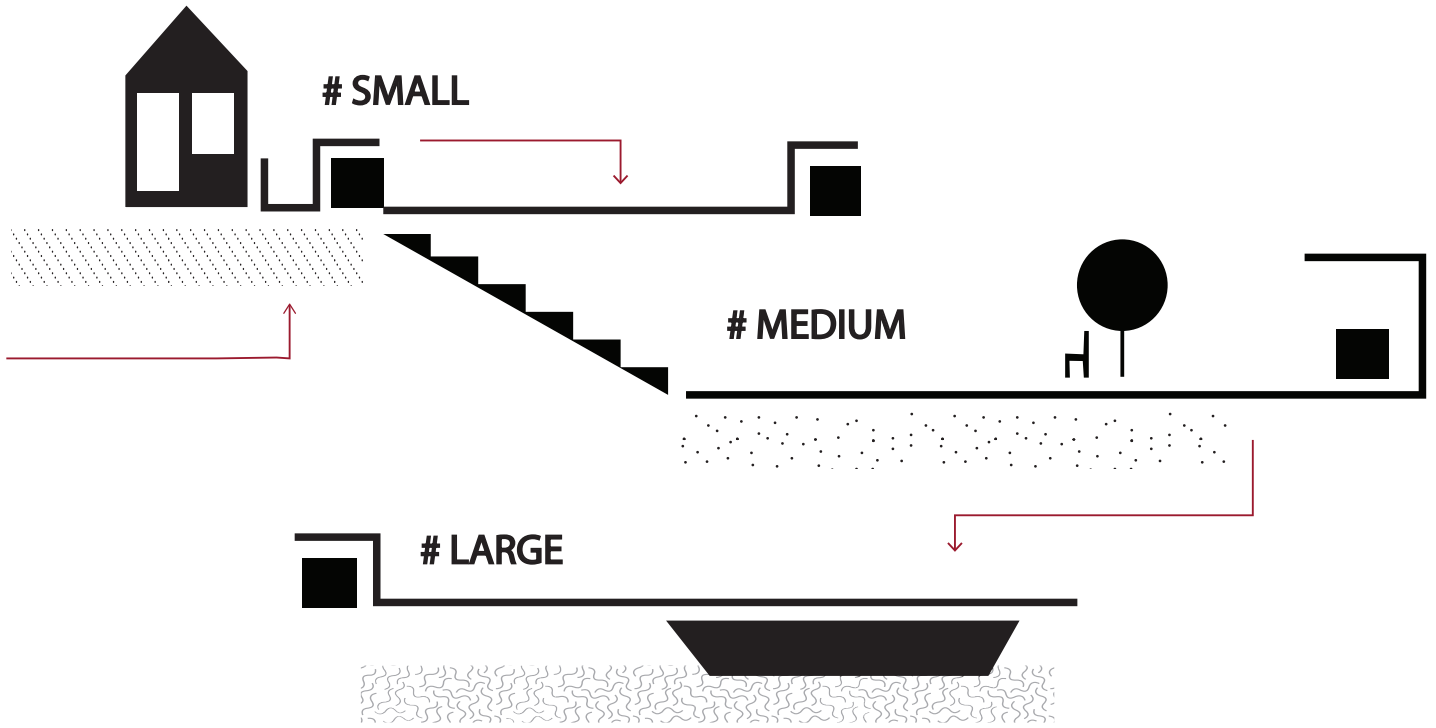
CLUSTERING LOCATIONS



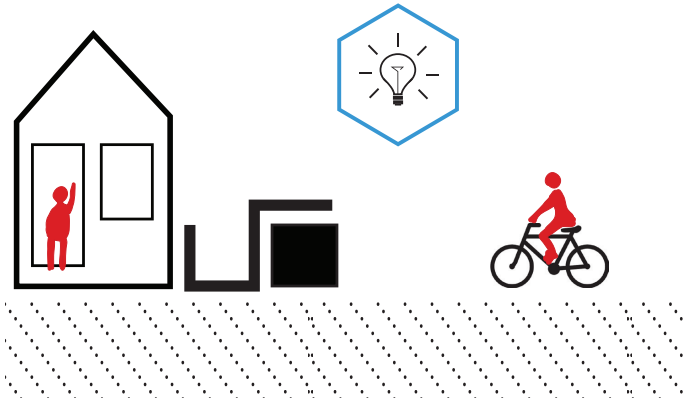


DEN HAAG
DE BINCKHORST
DELFT
SCHIEDAM
MIDDEN-DELFLAND
ROTTERDAM

ELEMENTS * SCALES



SMALL



COME & PLAY

THE APP

REGISTRATION WITH VERIFIED PROFILE LIKE AIR B&B

UNLOCKS THE HOUSE AS A FLEX SPOT FOR 1 DAY

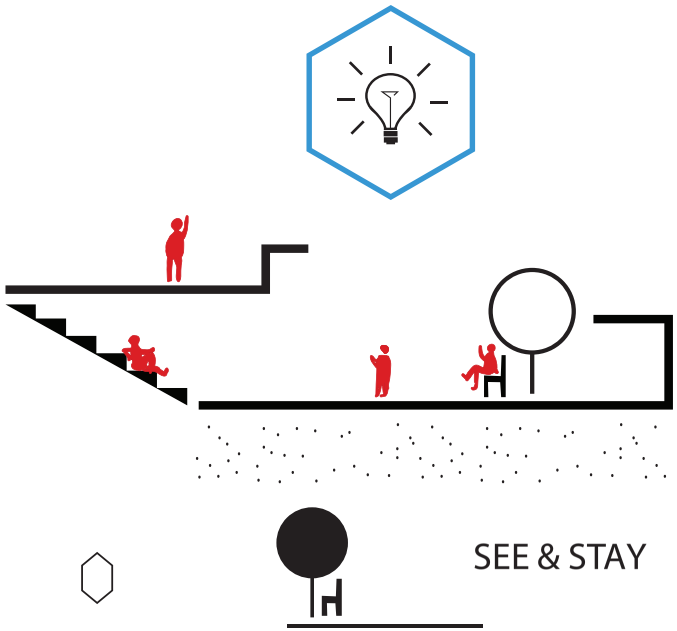
SHOWS RESERVATI ONS + RULES

GIVES AN OVERVIEW

ALLOWS TO FIND & CONNECT TO OTHERS

1 - 4

MEDIUM



THE APP

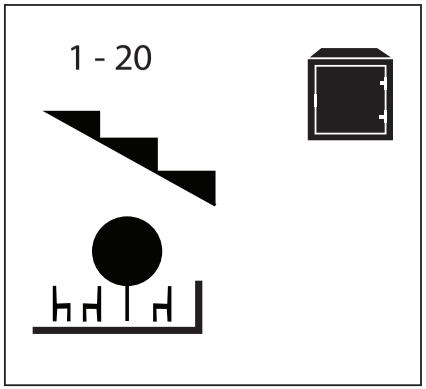
SHOWS EVENTTS

GIVES AN OVERVIEW

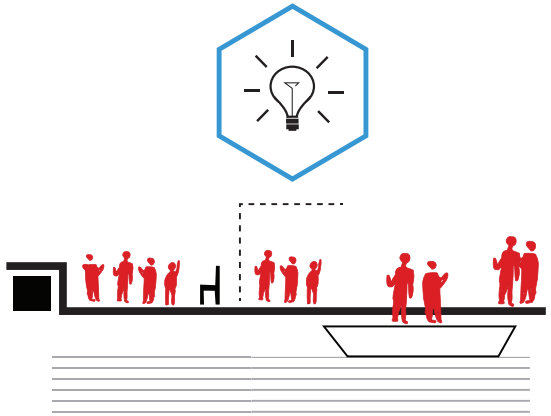
ALLOWS TO FIND OTHERS & GROUP LEADERS

SHOWS VACANT SITE + RULES

BUILDS GROUPS & COMMUNITIES



LARGE



EVENTS @
WATERWAY

THE APP

SHOWS EVENTS

GIVES AN OVERVIEW

ALLOWS TO FIND OTHERS

BUILDS GROUPS & COMMUNITIES

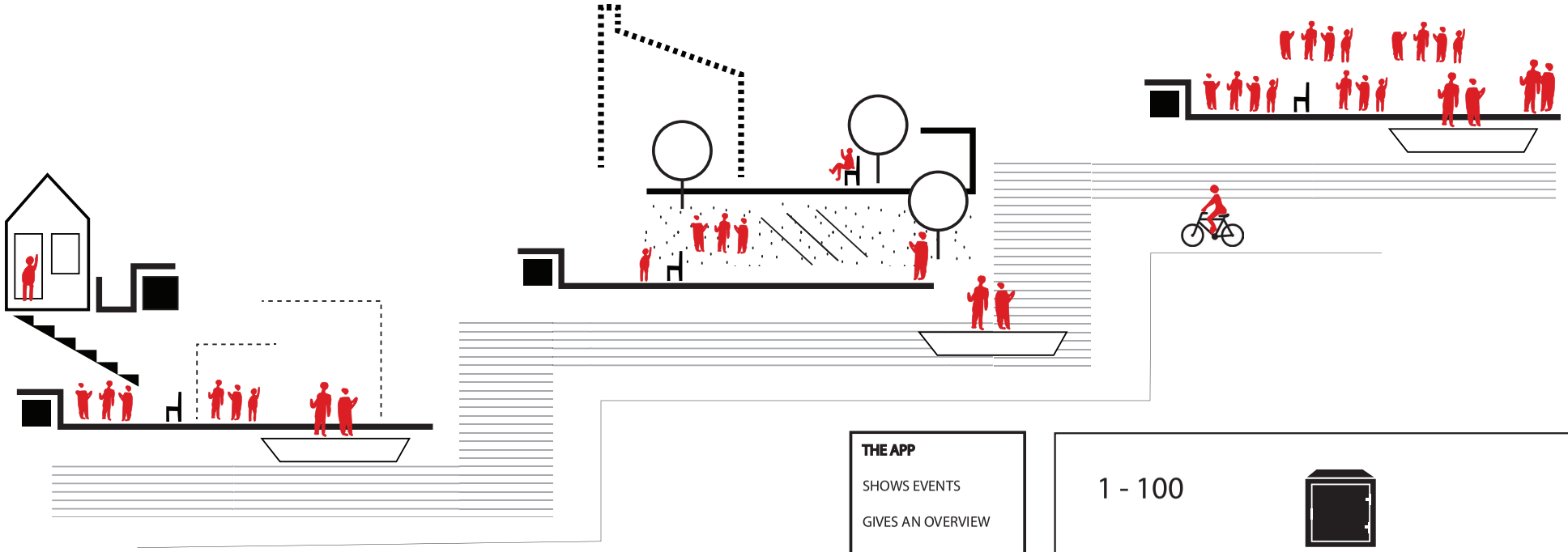
SHOWS ROUTES ALONG WATER

SHOWS VACANT HOUSES

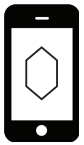
1 - 100

100 m2

EXTRA LARGE



FESTIVALS,
VACANT
BUILDINGS @
WATERWAY



THE APP

SHOWS EVENTS

GIVES AN OVERVIEW

ALLOWS TO FIND OTHERS

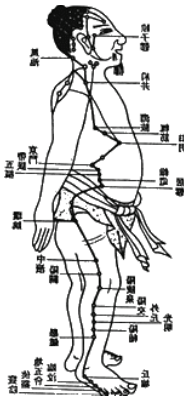
BUILDS GROUPS & COMMUNITIES

SHOWS ROUTES ALONG WATER

SHOWS VACANT HOUSES

1 - 100

100 m2



‘URBAN ACUPUNCTURE’

EFFECTIVE INTENTION
FINDING CRITICAL SPOTS

‘URBAN PROSTHESIS’ { }

A DEVICE THAT BENDS AND
CONNECTS FLOWS

THE DEVICE

MATERIAL

REGIONAL ASPECT

ROBUST

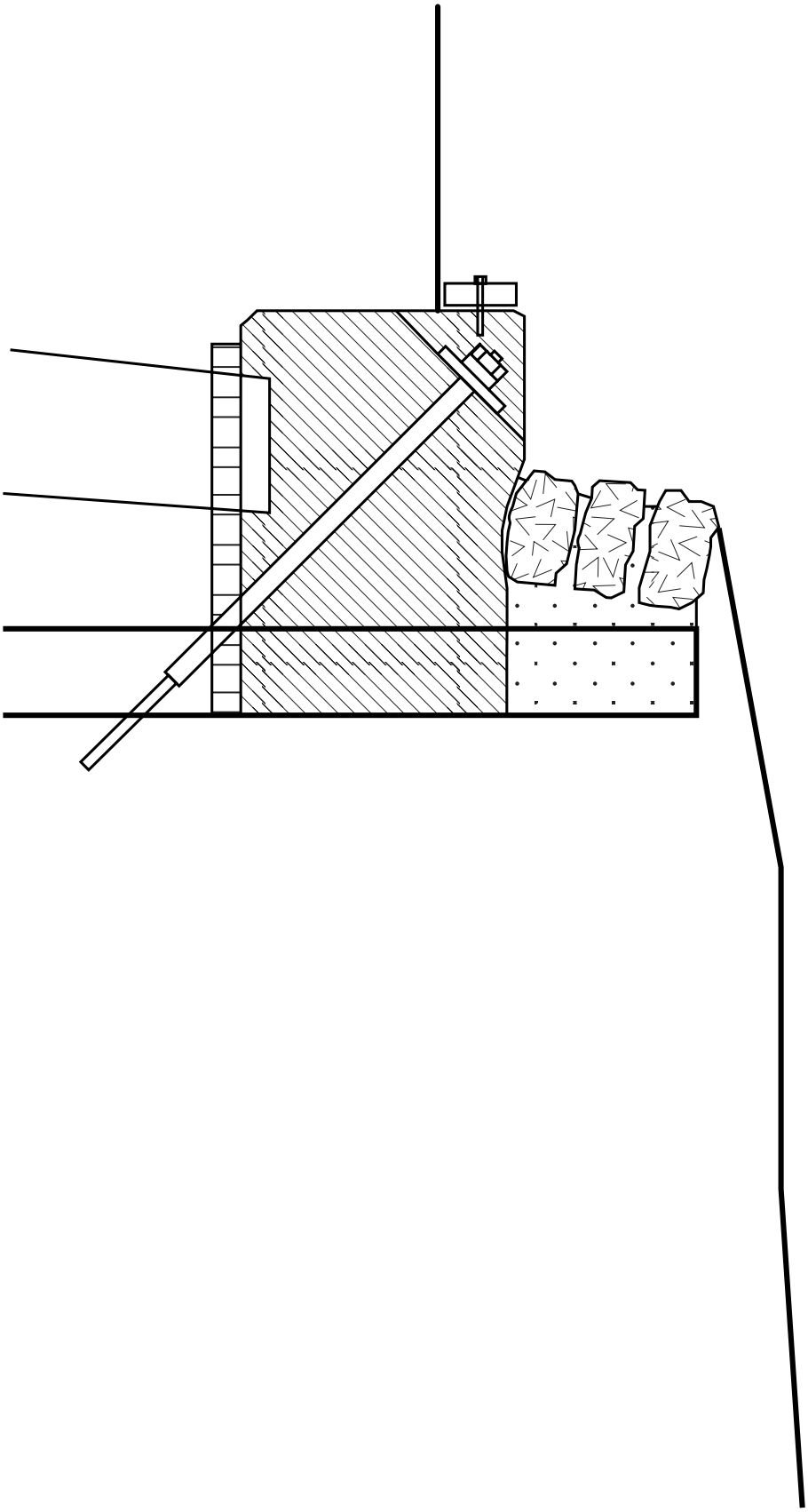
MINIMAL INTERVENTION

ADAPTABLE TO LOCATION

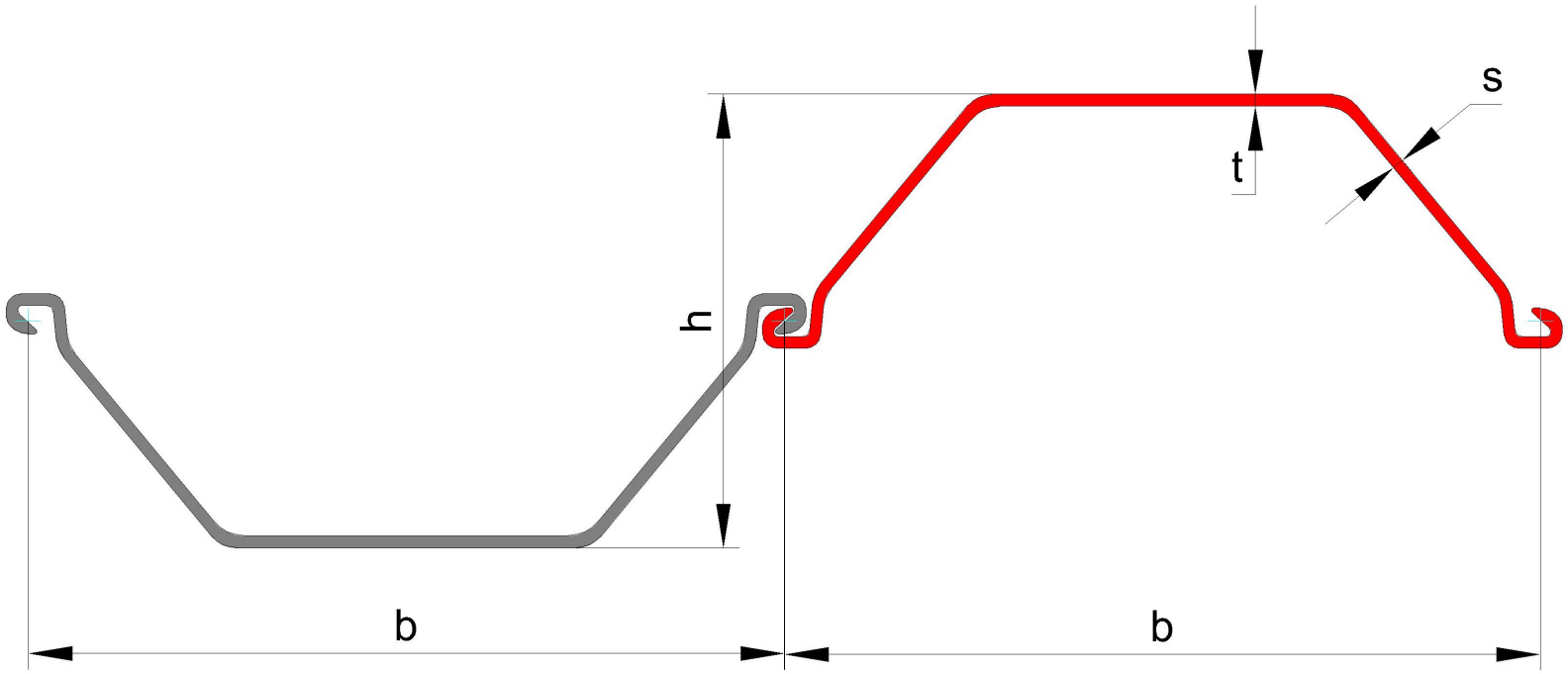
...

STEURGAT

HITACHI



I601 SHEET PILING



In collaboration with
Luuk Smits

THE DEVICE

FORM

INVITING

DIFFERENT

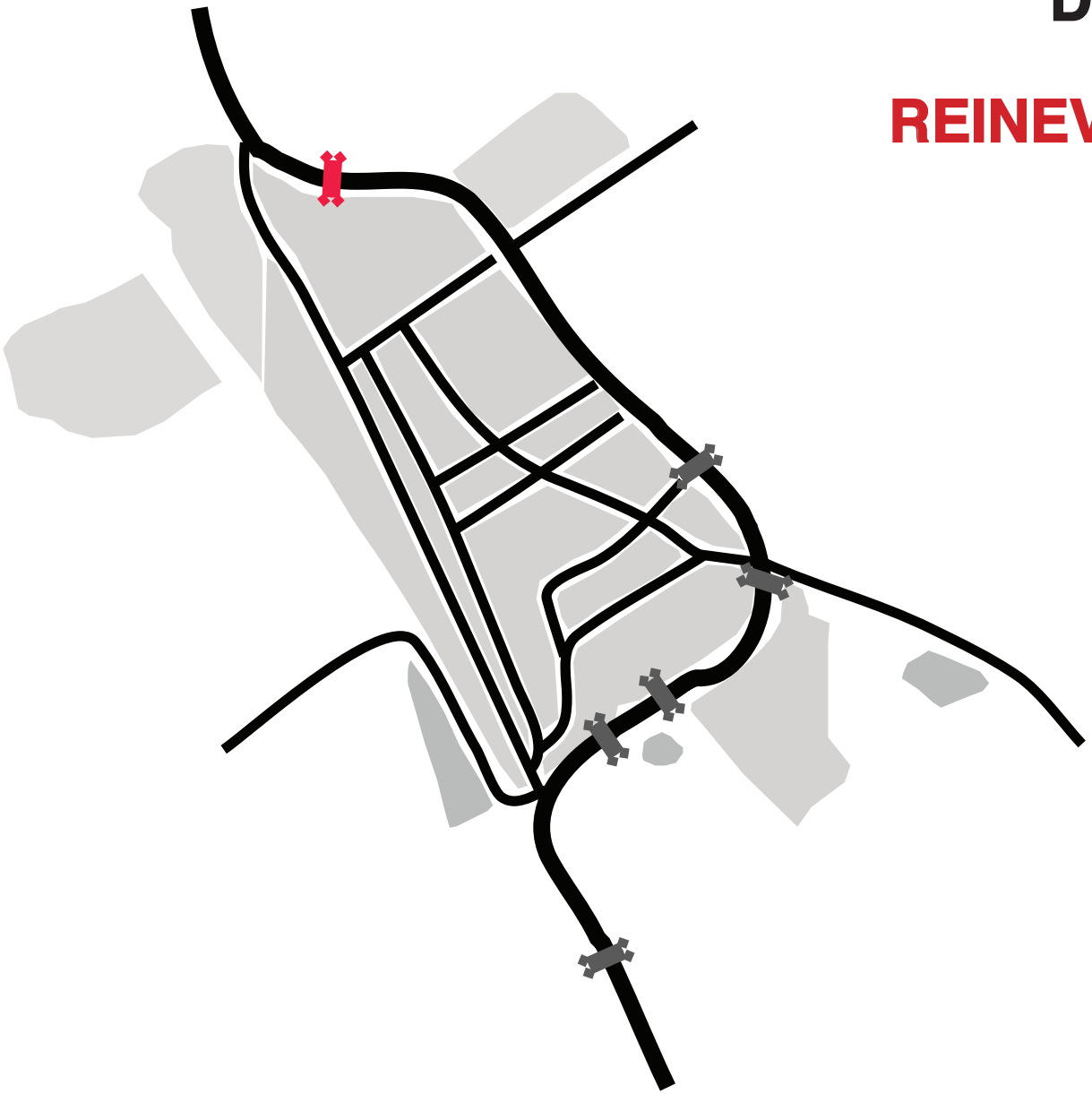
FACILITATING

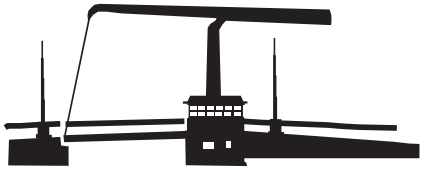
ON LOCATION

...

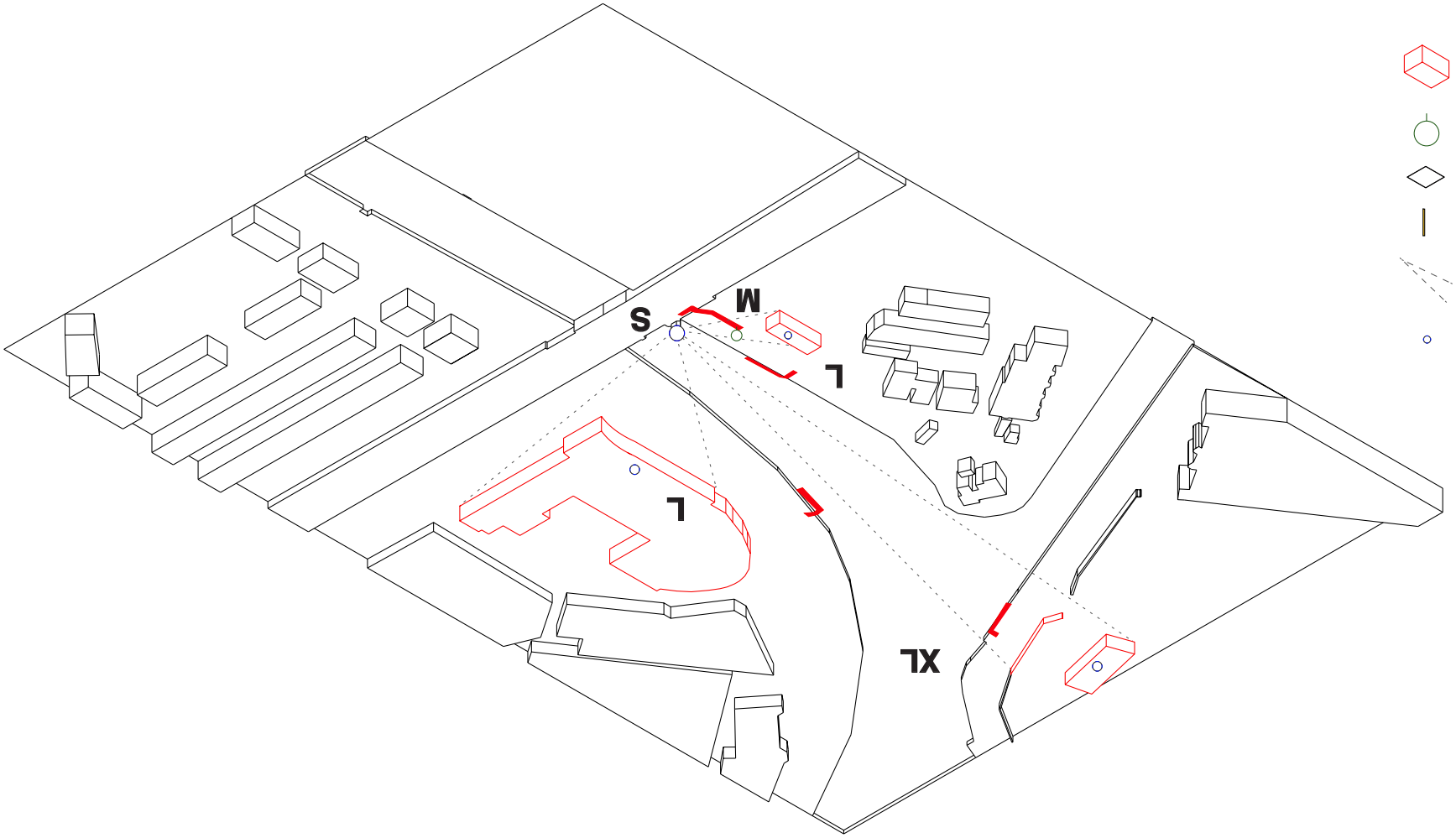
DELFT

REINEVELDBRUG





XL
L
S
M


S
M
L
L
XL

COME & PLAY
SMALL

SUBLTE

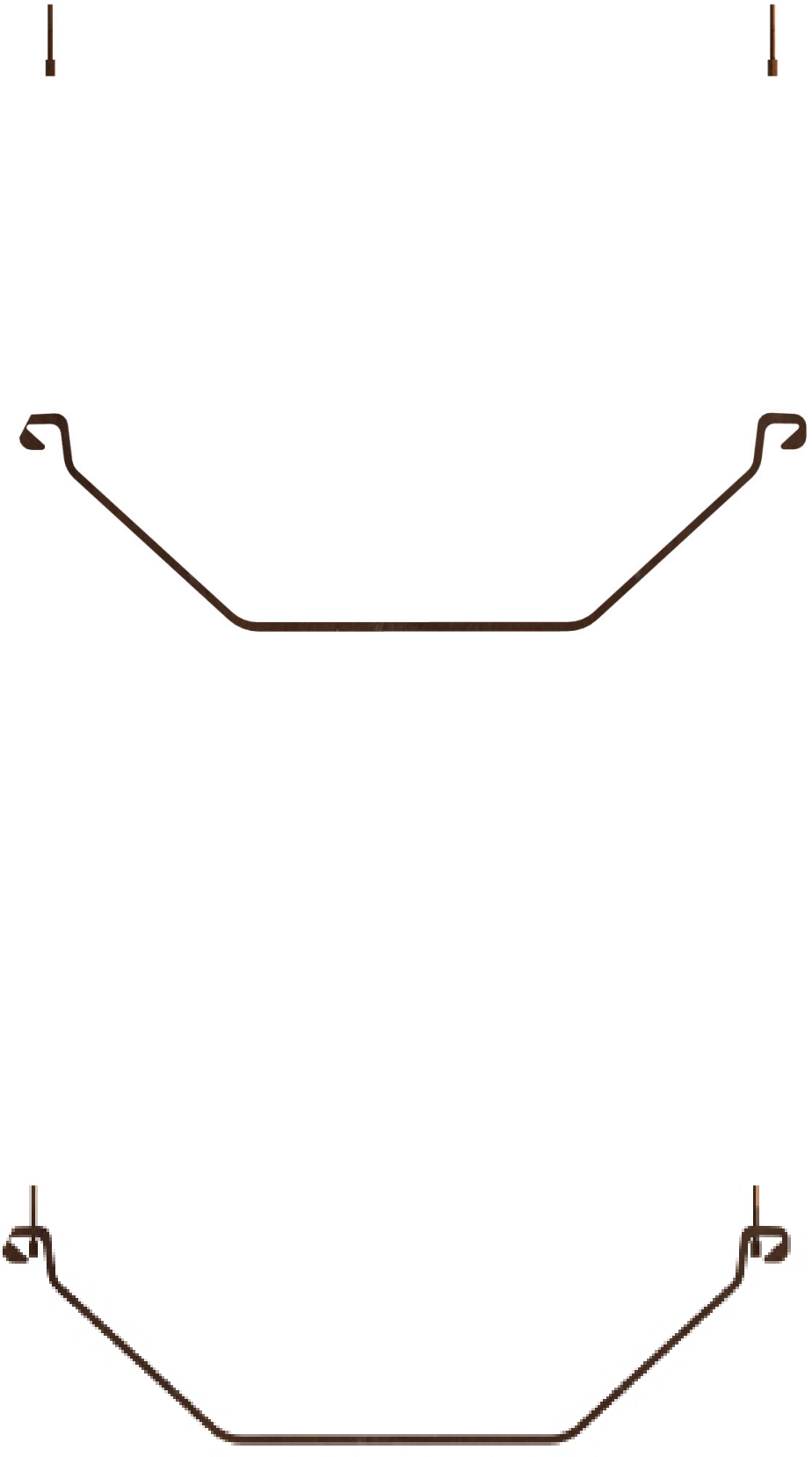
WAITING PLACE

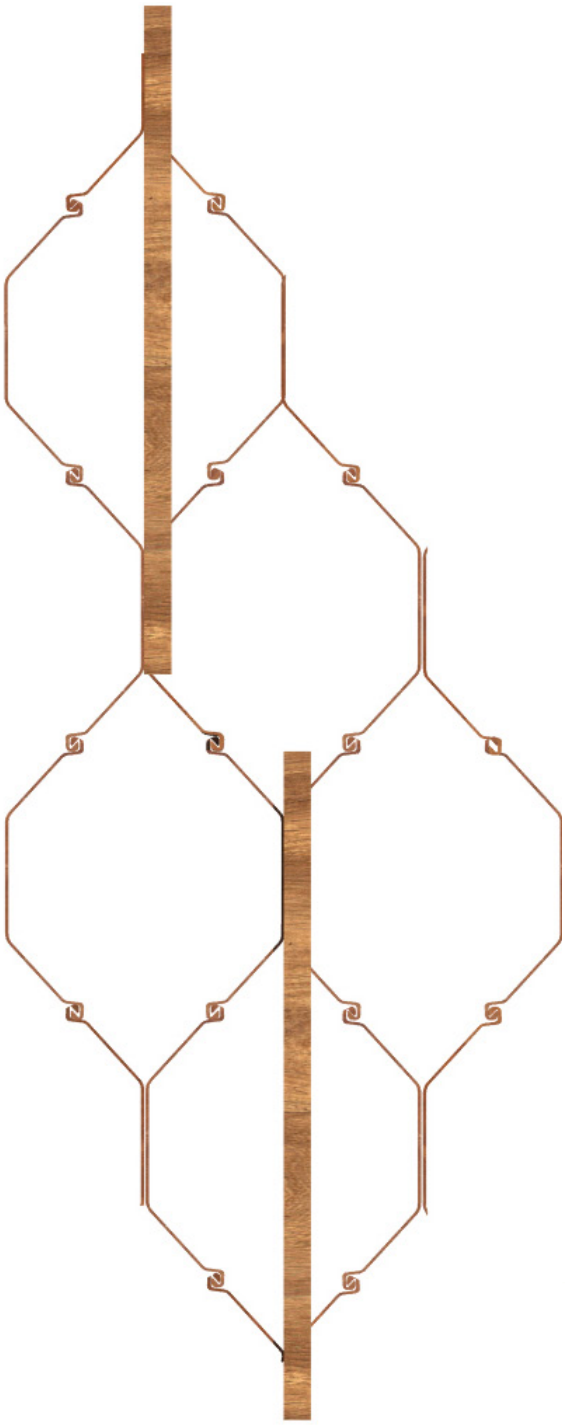
INVITING

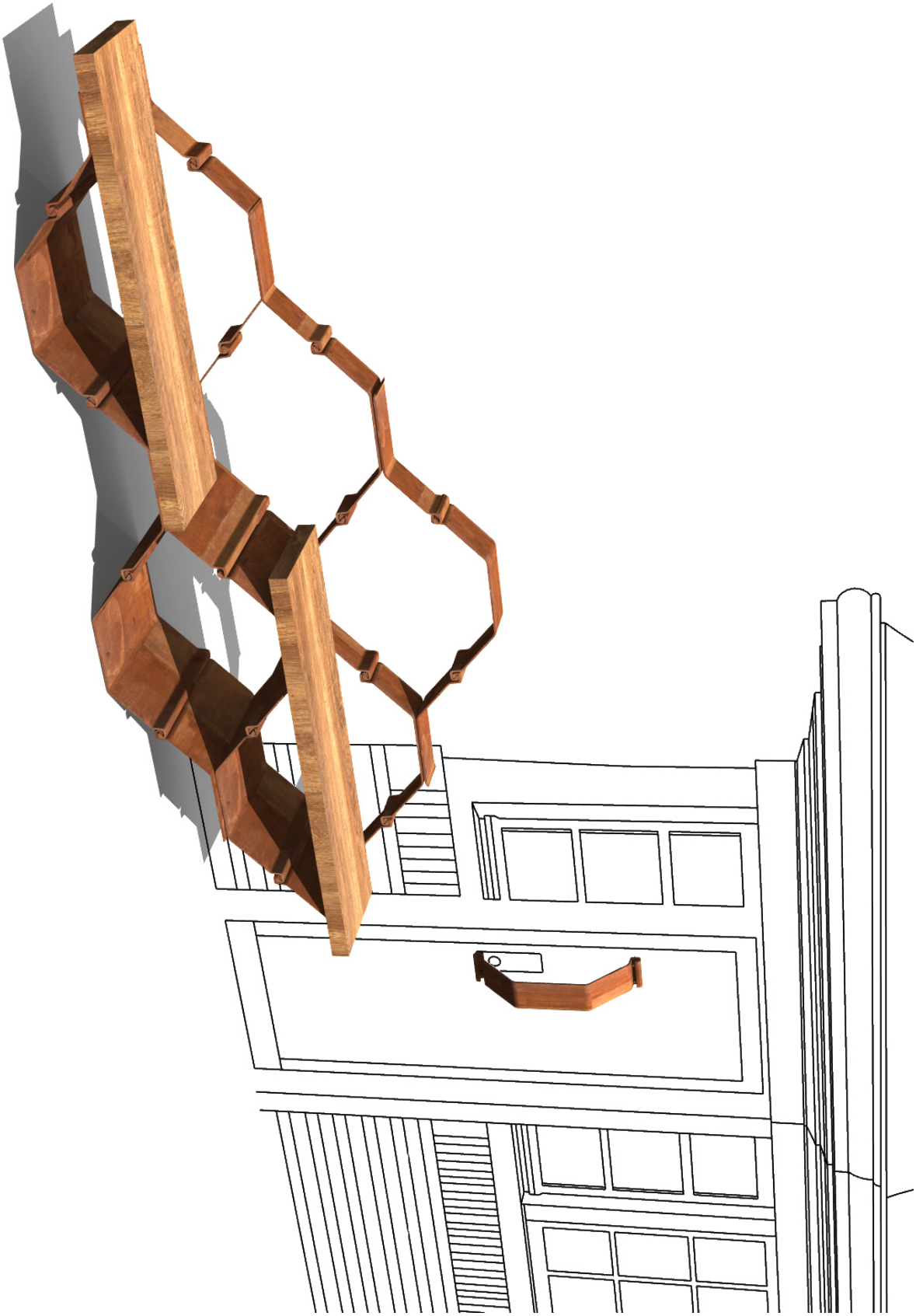
SEAT

CONFORM

MAKING PEOPLE
STOP







SEE & STAY
MEDIUM

TRANSITION

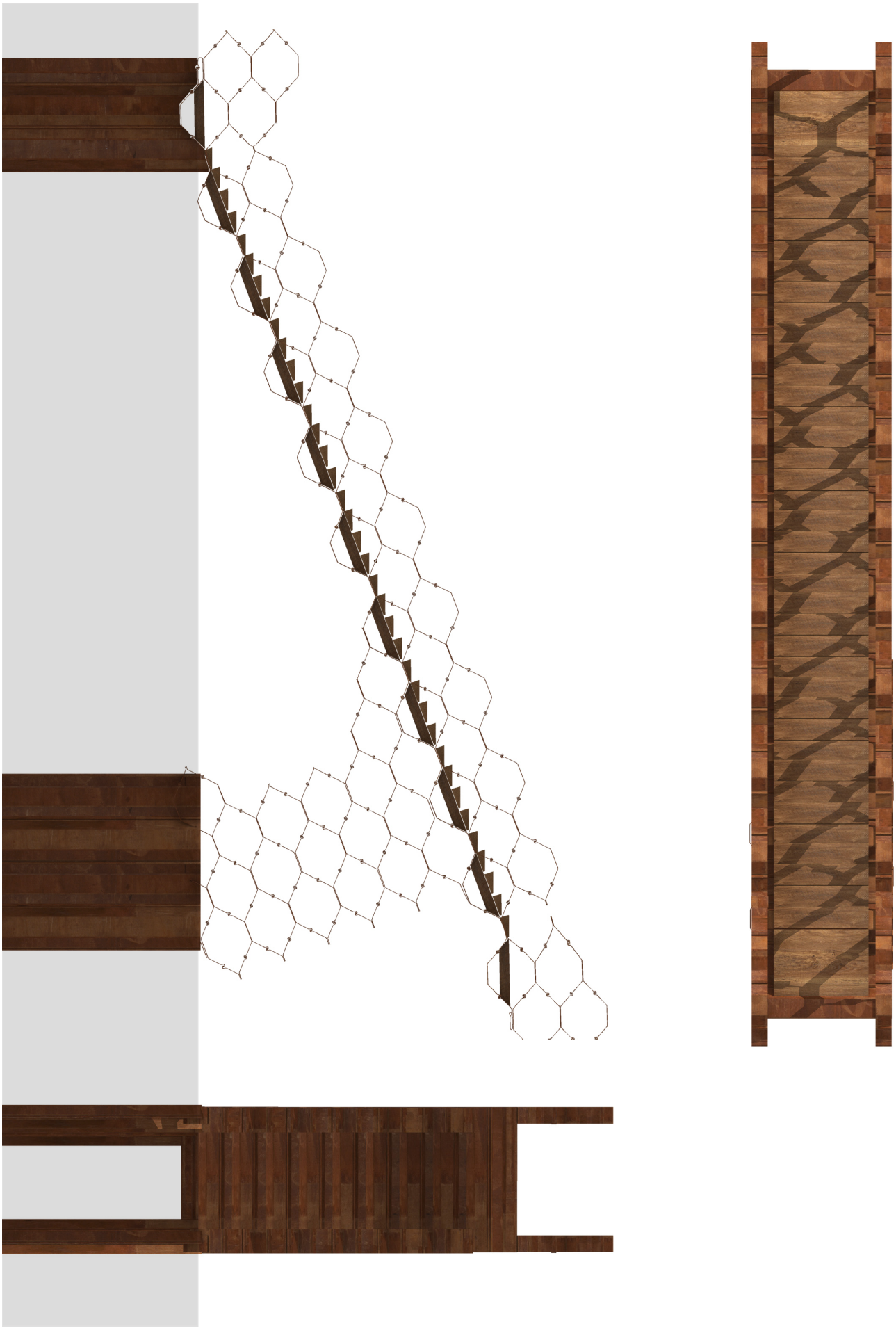
IDENTITY

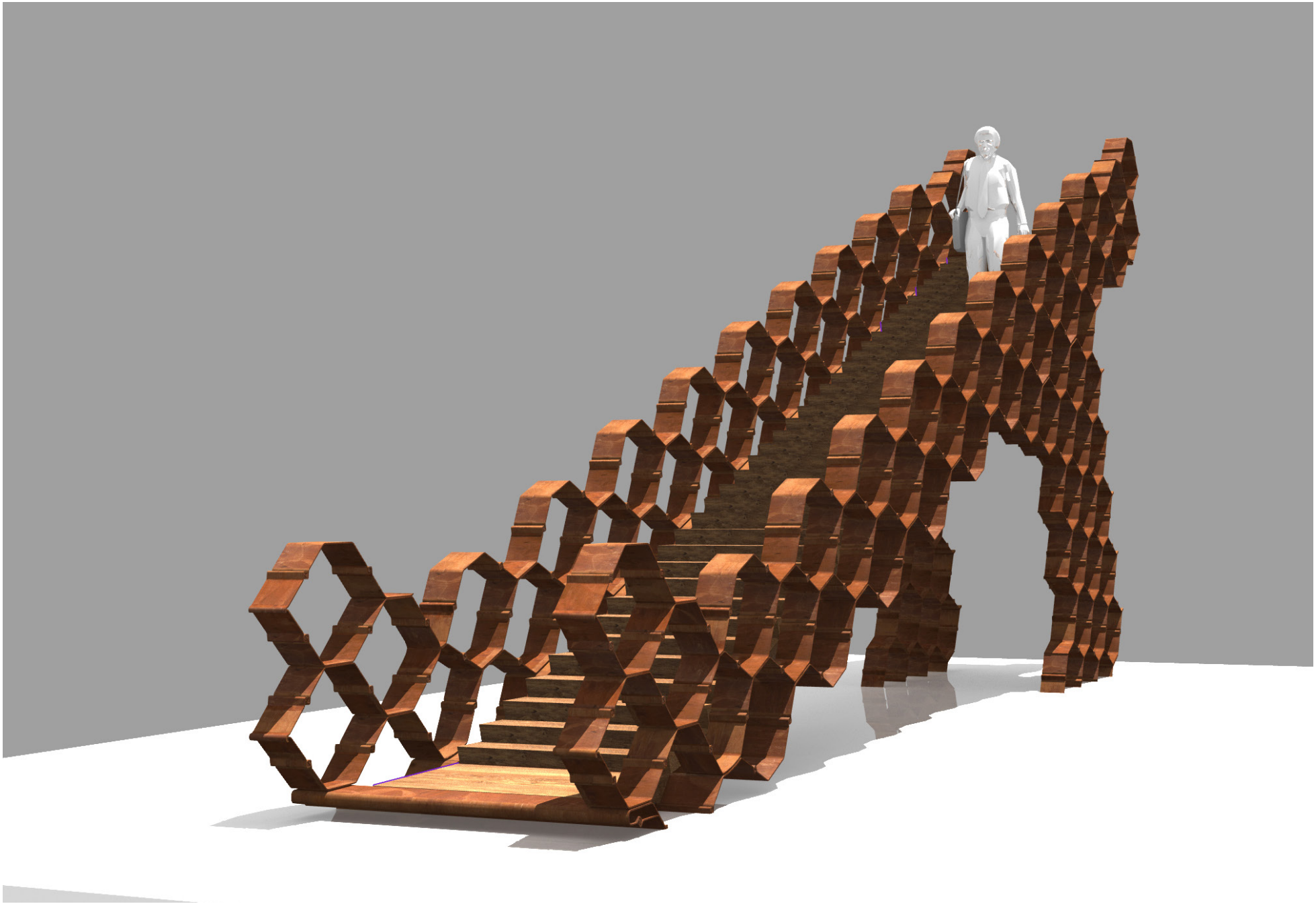
NARRATIVE

HEIGHT DIFFERENCE

STAIRS

MAKING PEOPLE
CHANGE ROUTE





EVENTS @ WATERWAY MEDIUM

COMMUNITY SPACE

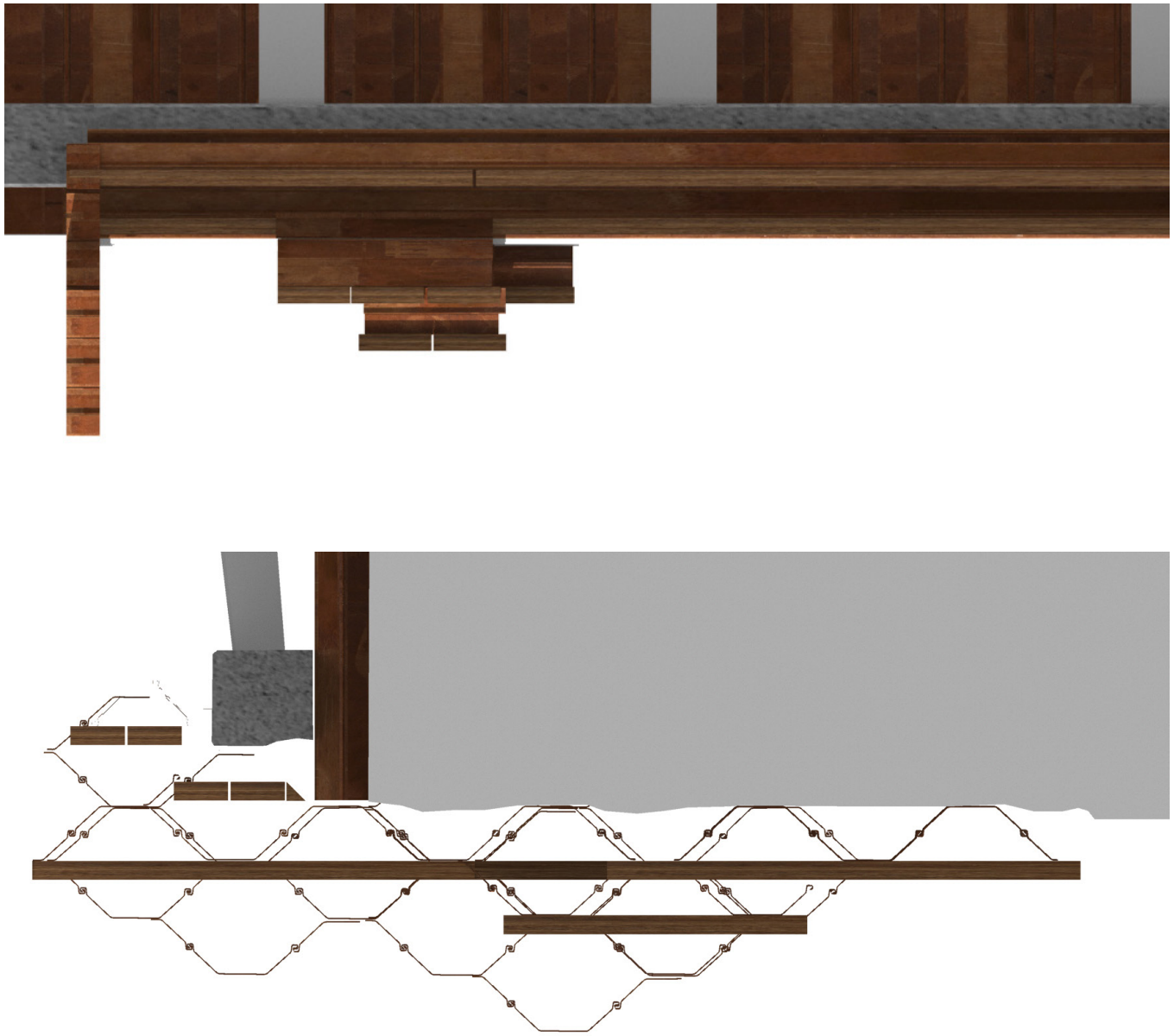
OPEN TO WATER

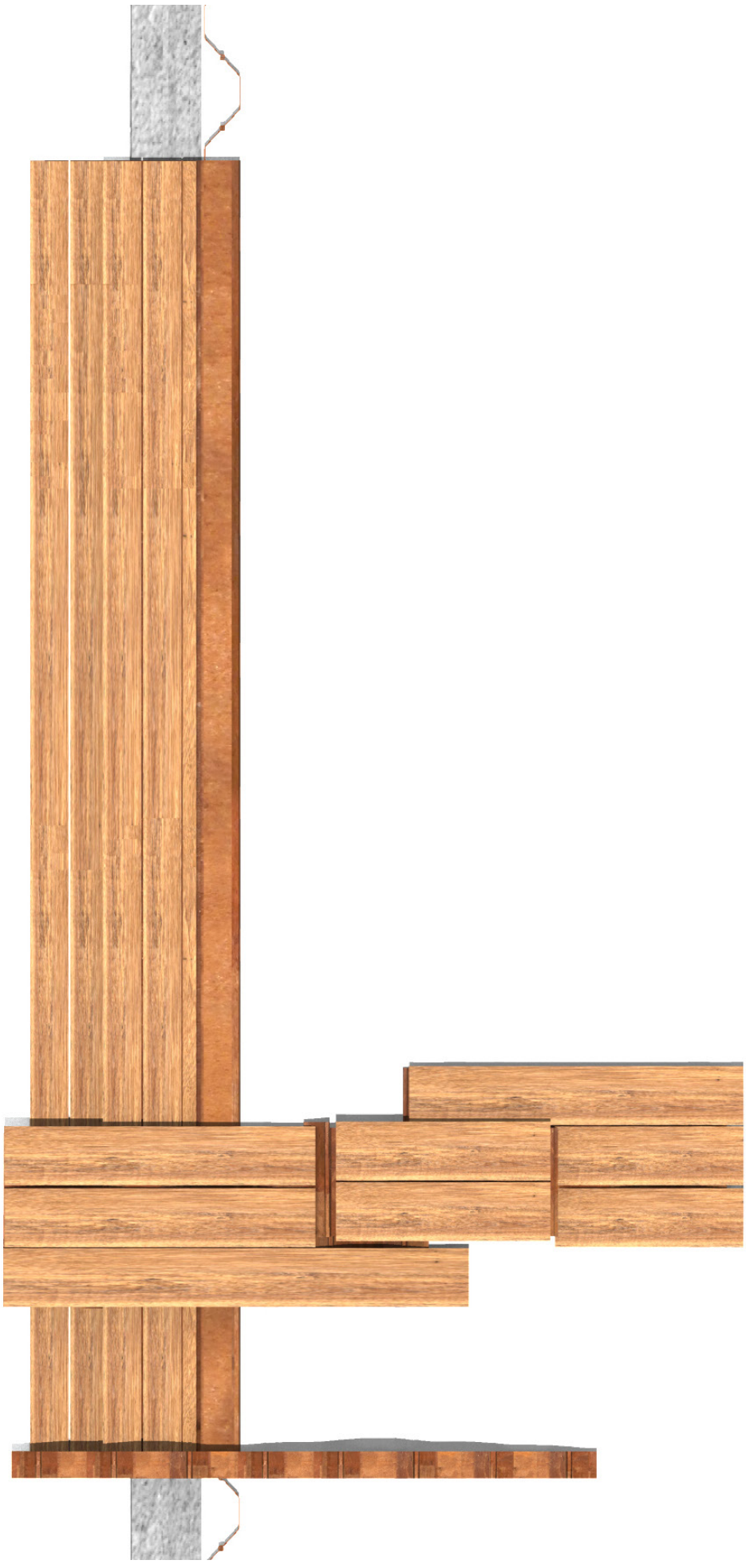
SITTING SPACE

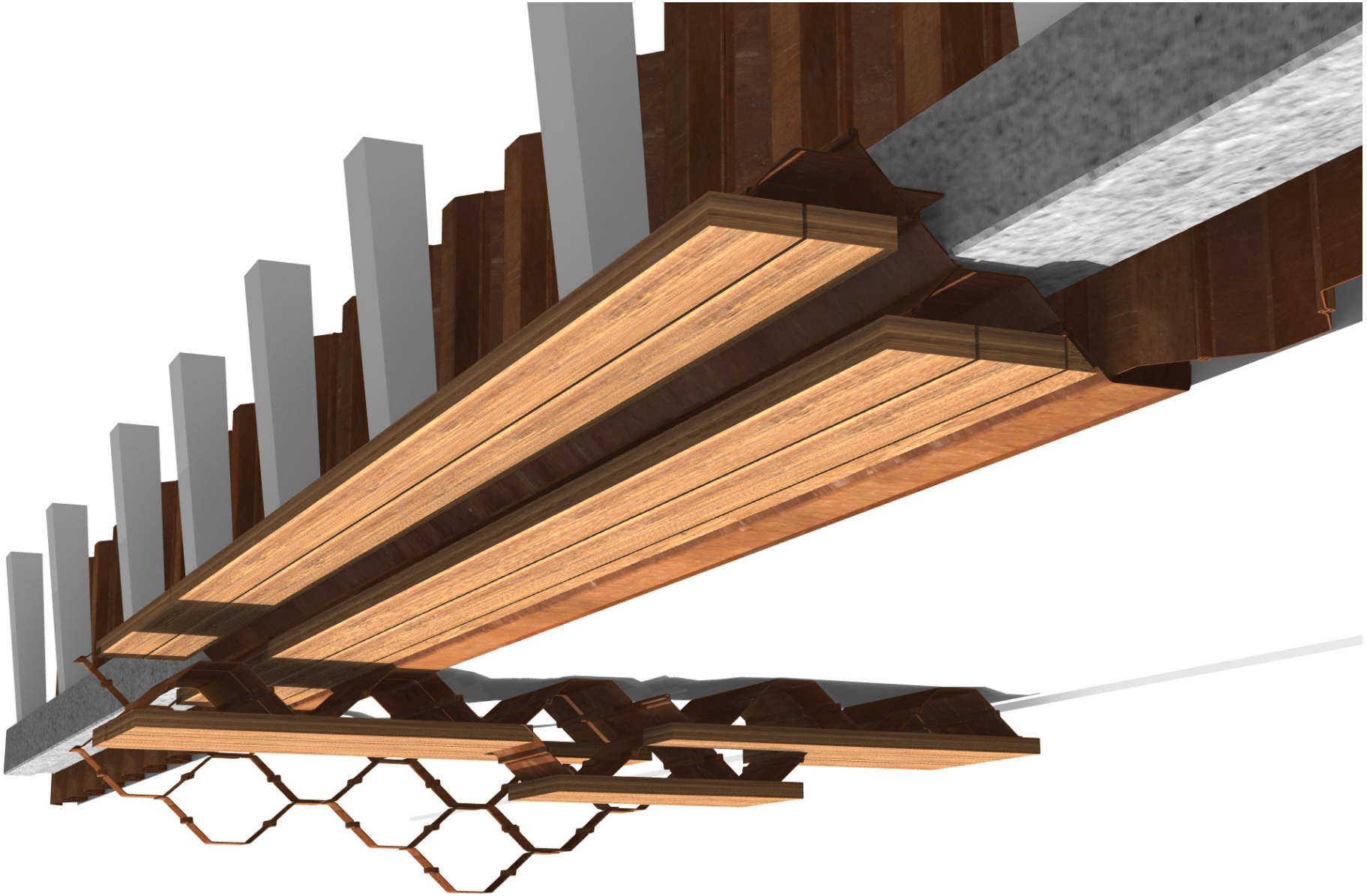
DEFINING BORDERS

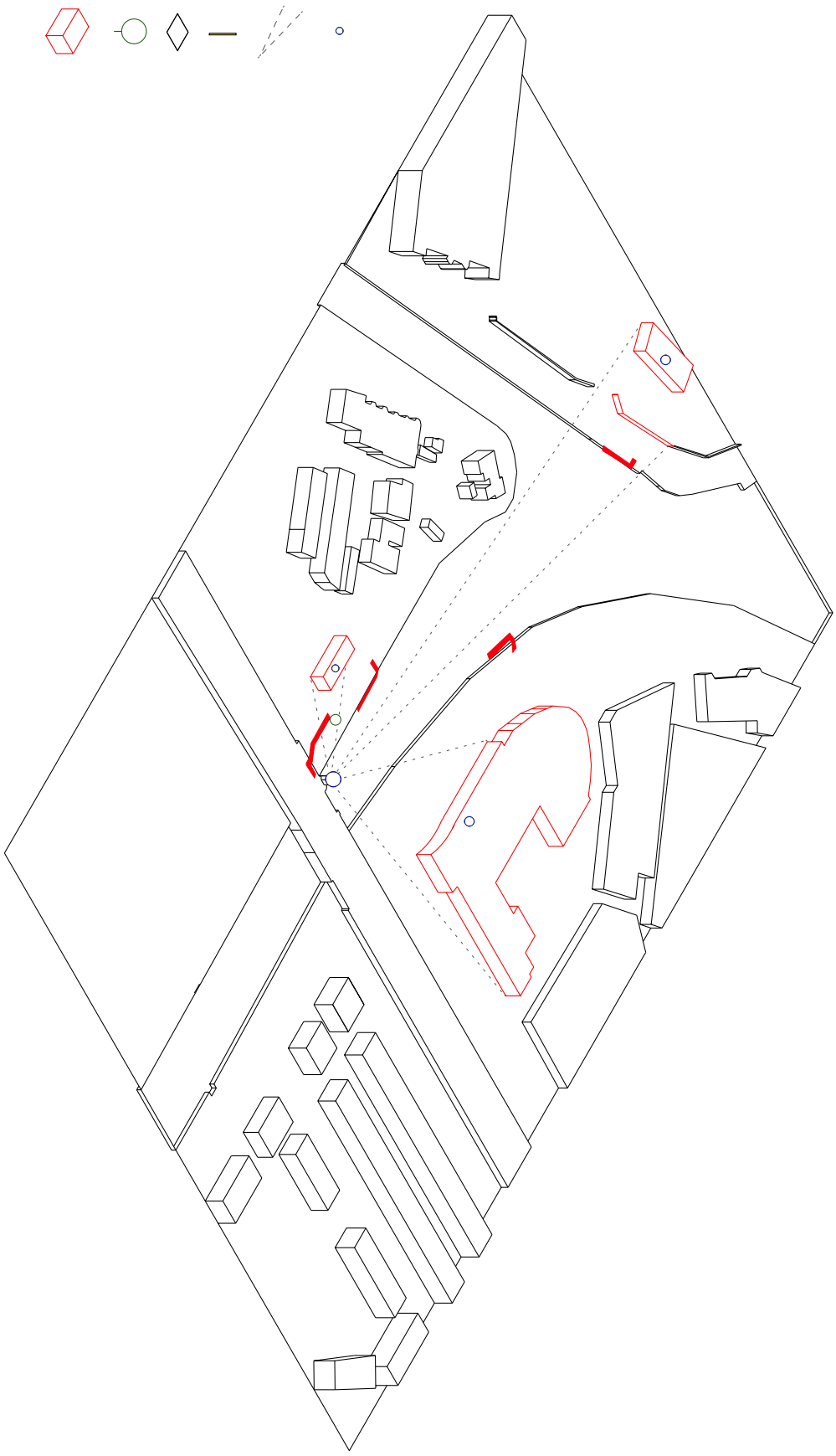
SAFE FEELING

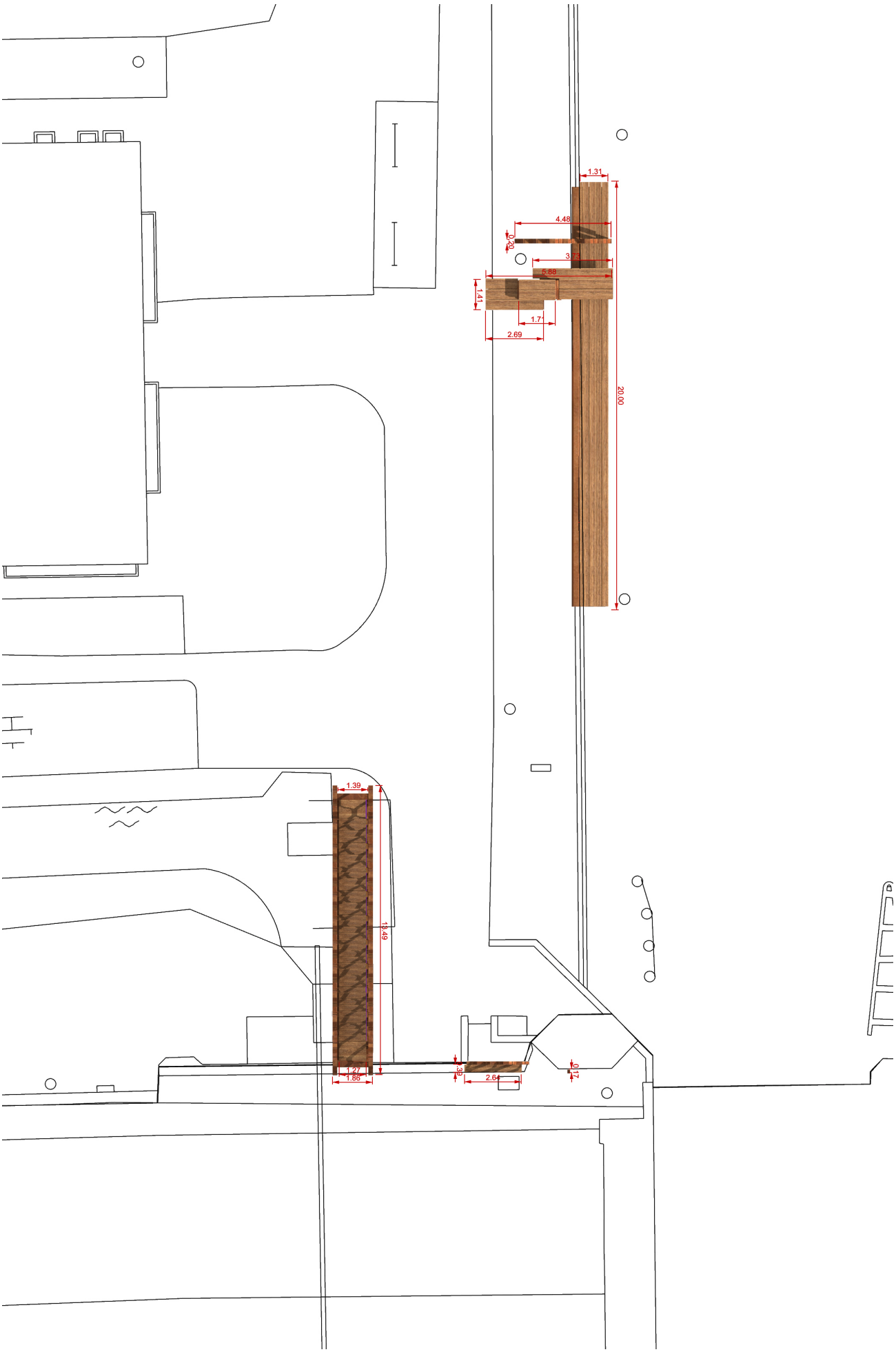
MAKING PEOPLE ACTIVE










1.31
4.48
0.20
3.13
5.88
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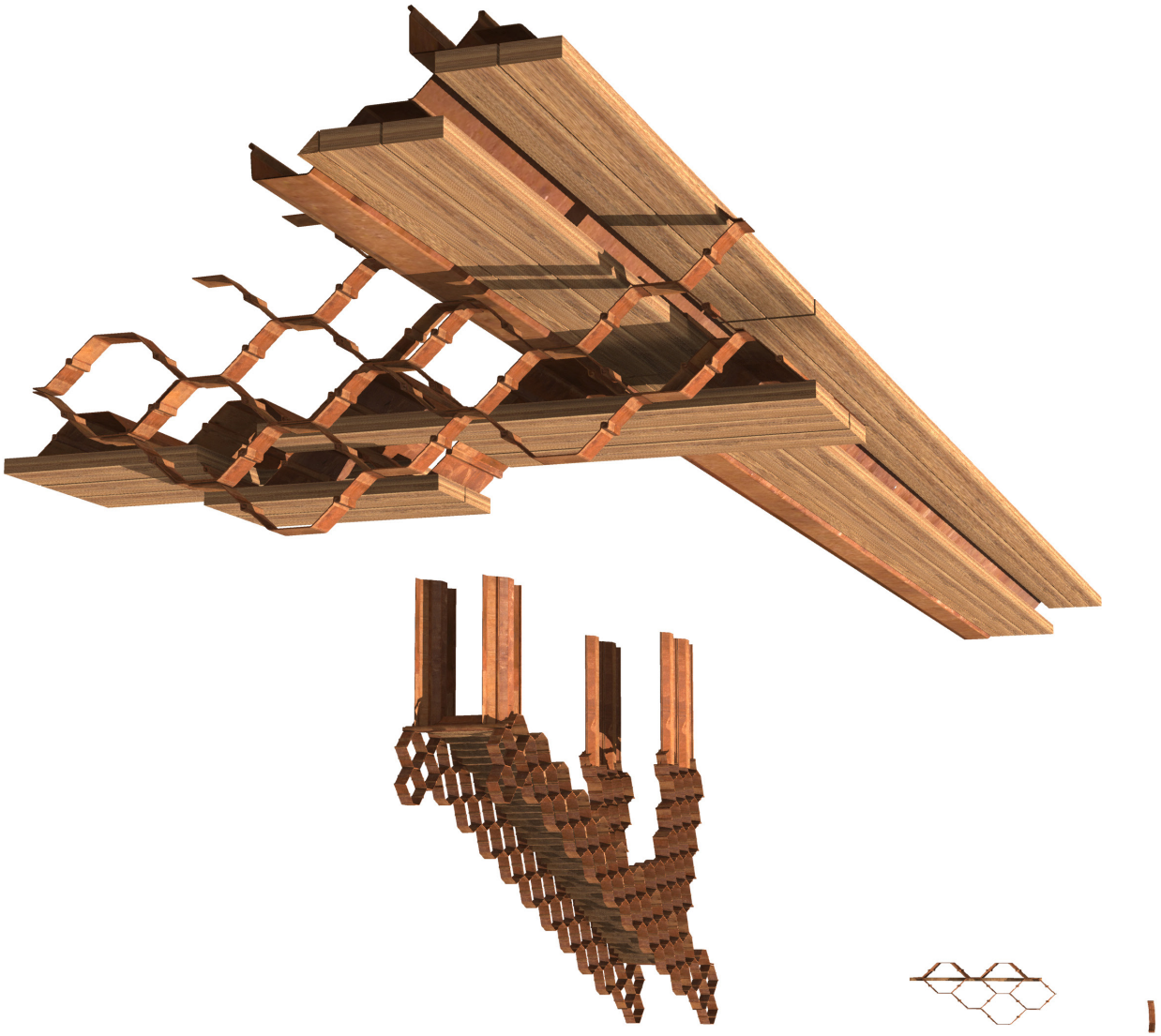
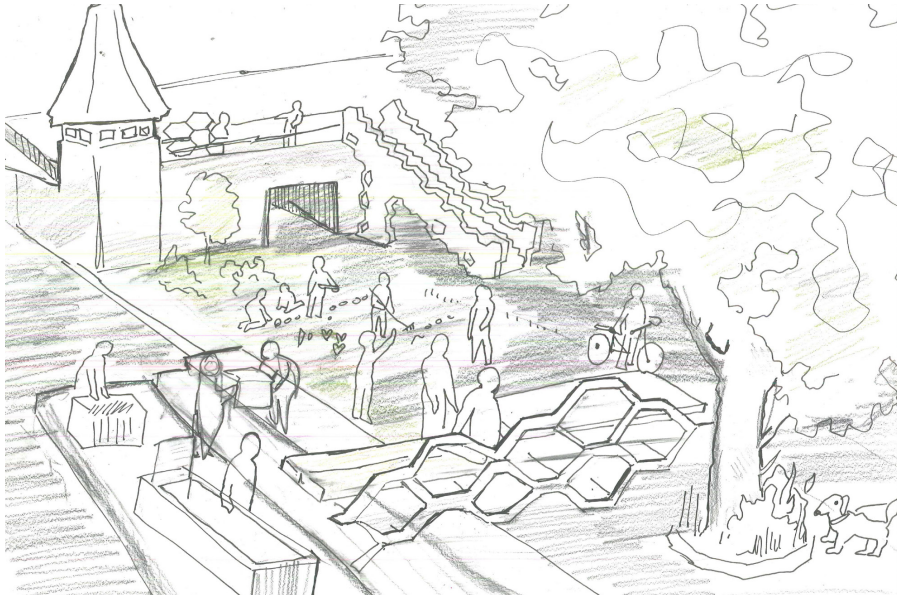
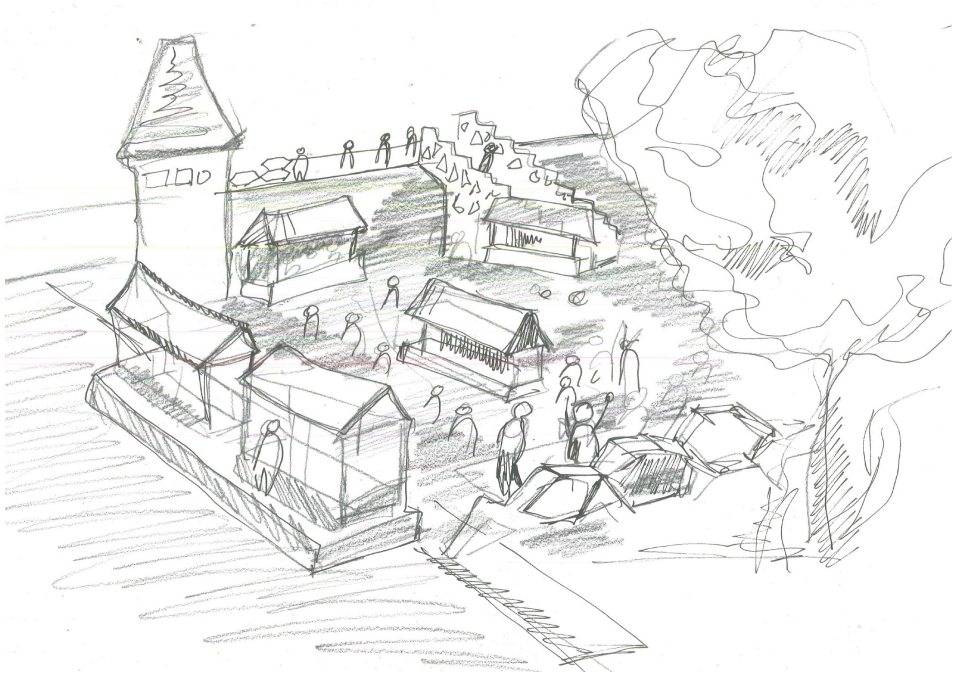
1.7
2.69
20.00
1.39
18.49
1.27
1.86
0.8
2.64
0.17



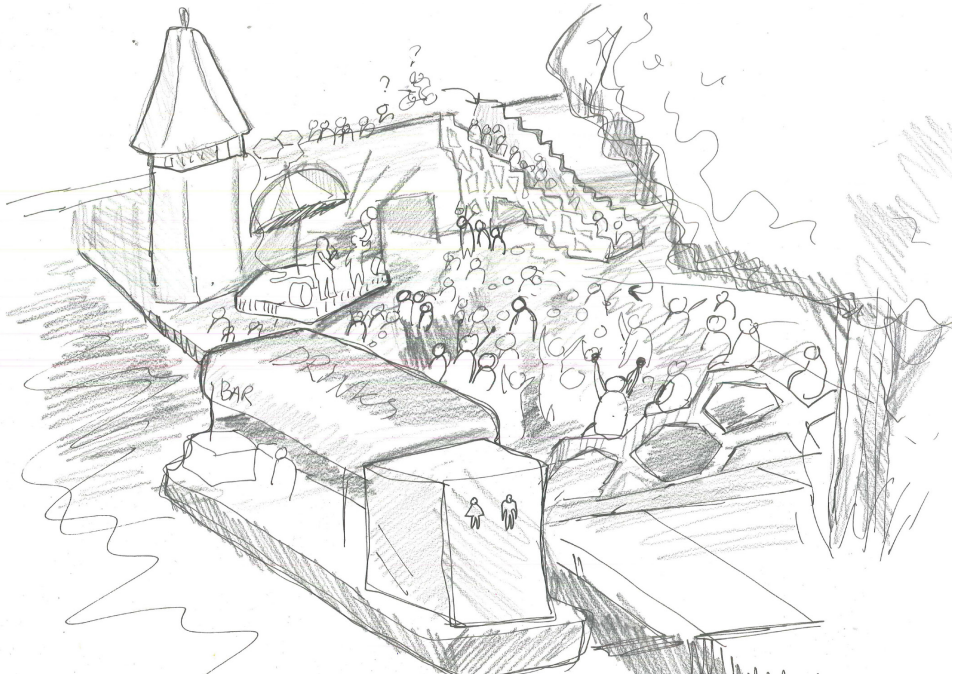
COMMUNAL GARDEN

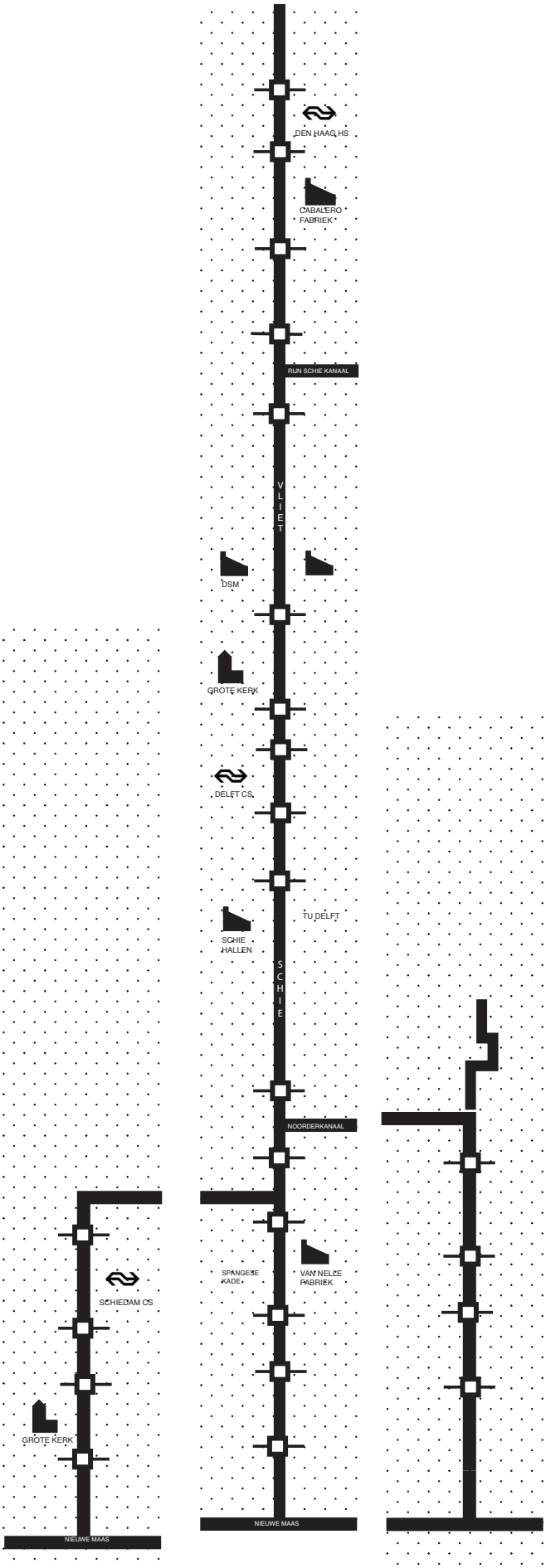


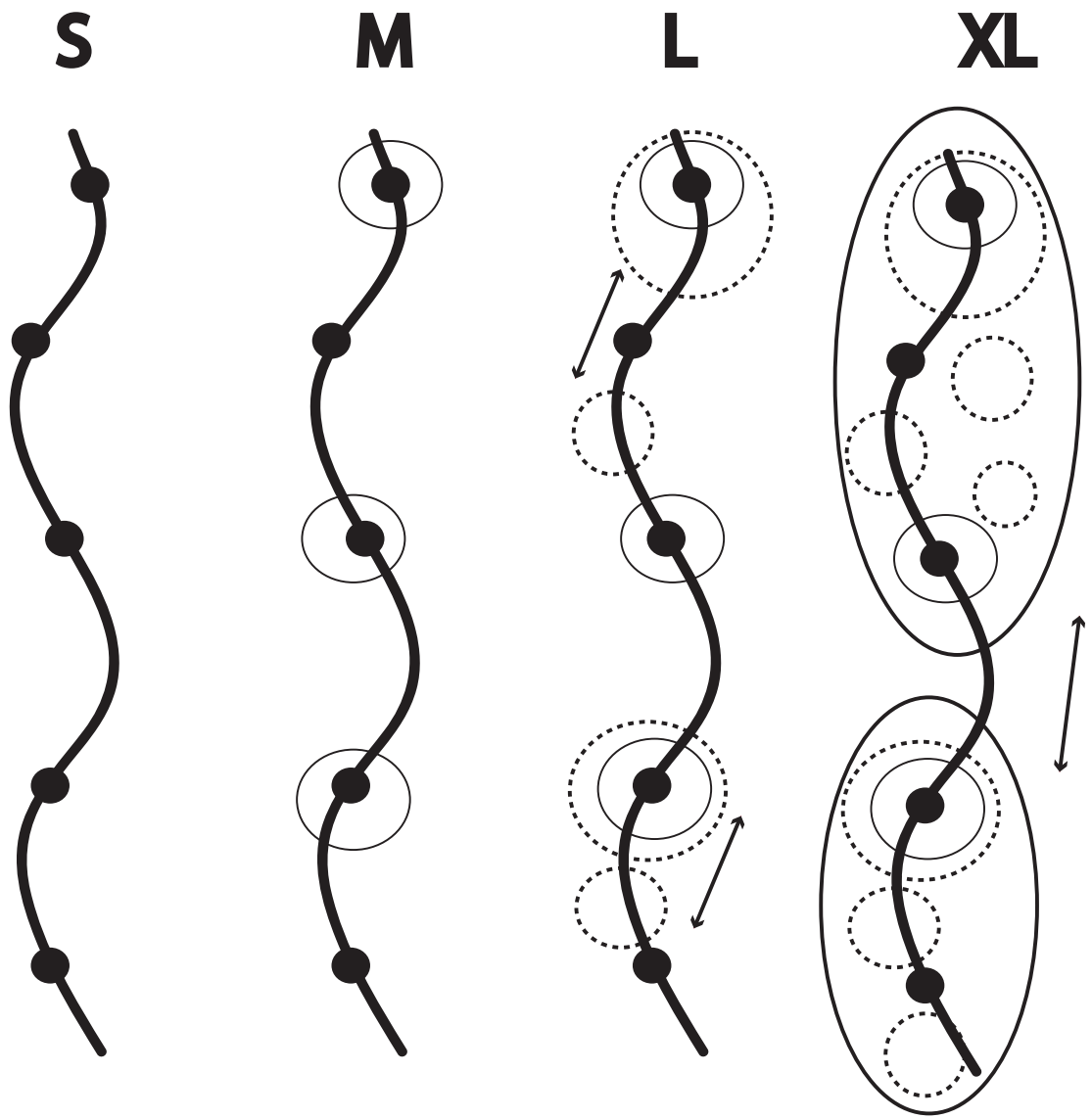
SECOND HAND SHOP MARKET



JAZZ CONCERT




DEN HAAG HS
CABALLERO FABRIEK
RIJN SCHIE KANAAL
VLIET
DSM
GROTE KERK
DELFT CS
TU DELFT
SCHIE HALLEN
SCHIE
NOORDERKANAAL
SPANGENSE KADE
VAN NELLE FABRIEK
NIEUWE MAAS
SCHIEDAM CS
GROTE KERK
NIEUWE MAAS


S
M
L
XL

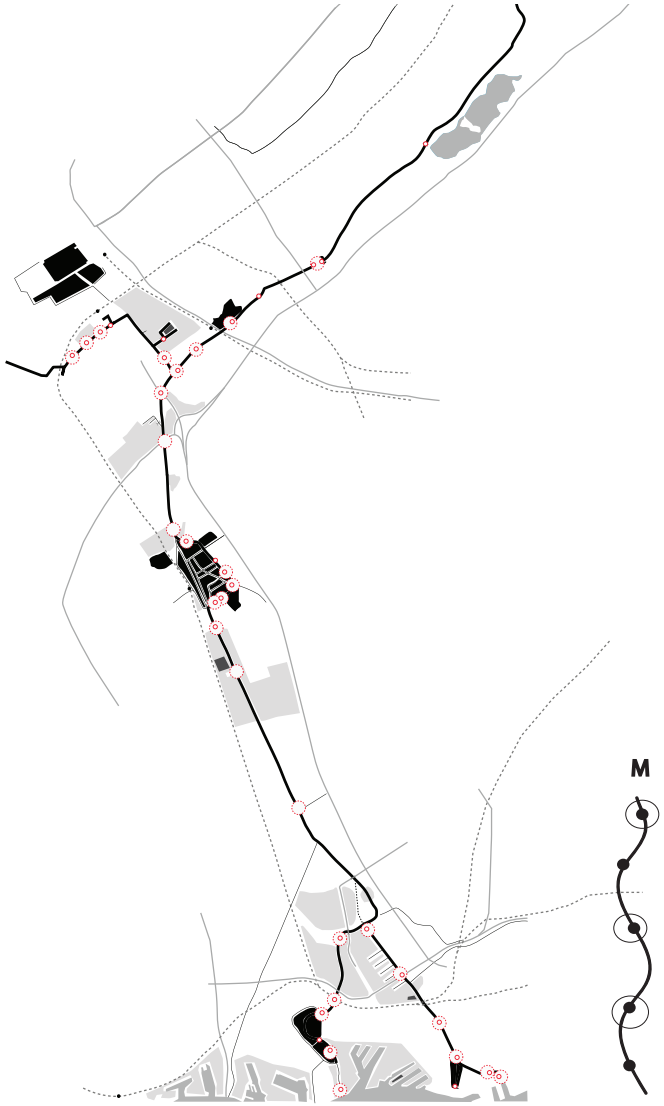
KANAAL
SPOOR
SNELWEG
HISTORISCHE BINNENSTAD
BEDRIJVENTERREIN
CREATIEVE BROEDPLAATS
BRUG
LEEGSTAAND BRUGWACHTERSHUISJE

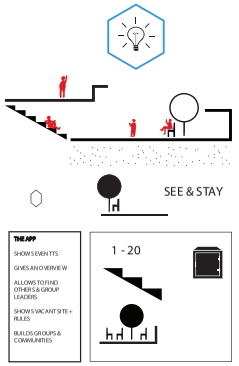
SMALL

In this face, the bridge houses are highlited with the simple use of a blue light and a new entrance. The vacant houses will all be used as flex spaces, for everyone available to use for a day.

The houses are built to have an overview of the environment, and also those who are in the houses will be seen.

Elements
- Lights
- Door knobs
- Framed entrances with COR TEN steel elements
- Smart Phone application
- Wi-fi and water





MEDIUM

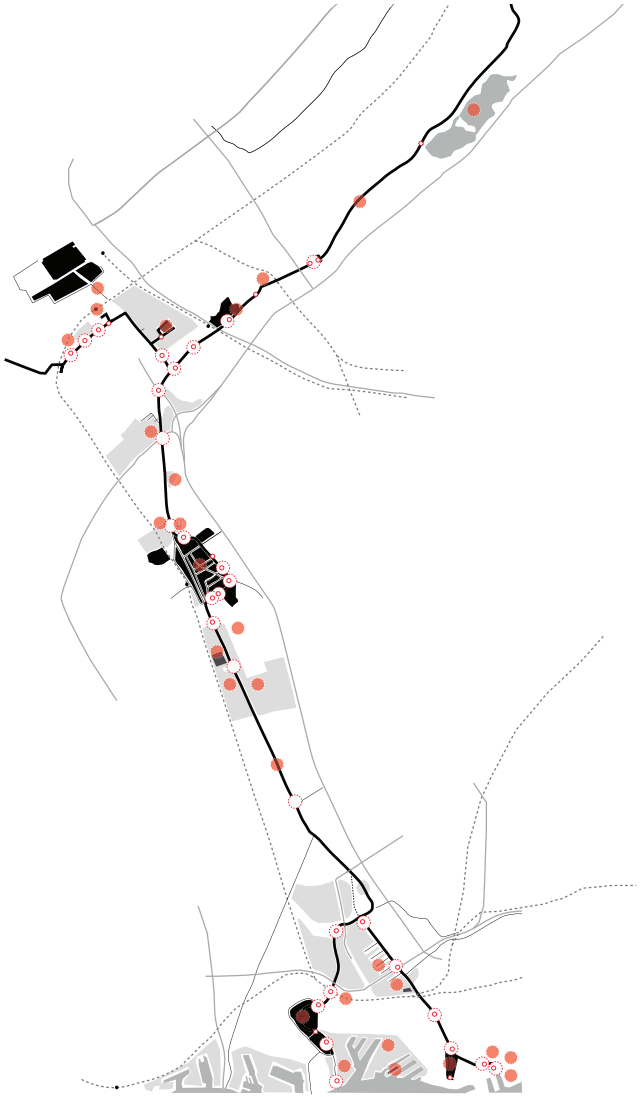
When the donation of the first step is enough, some places around the houses are open to be reclaimed as well. A strong correlation between traffic connections and vacant public space is found. As well as next to the bridges. These places are designed to invite the user to come down the bridge.

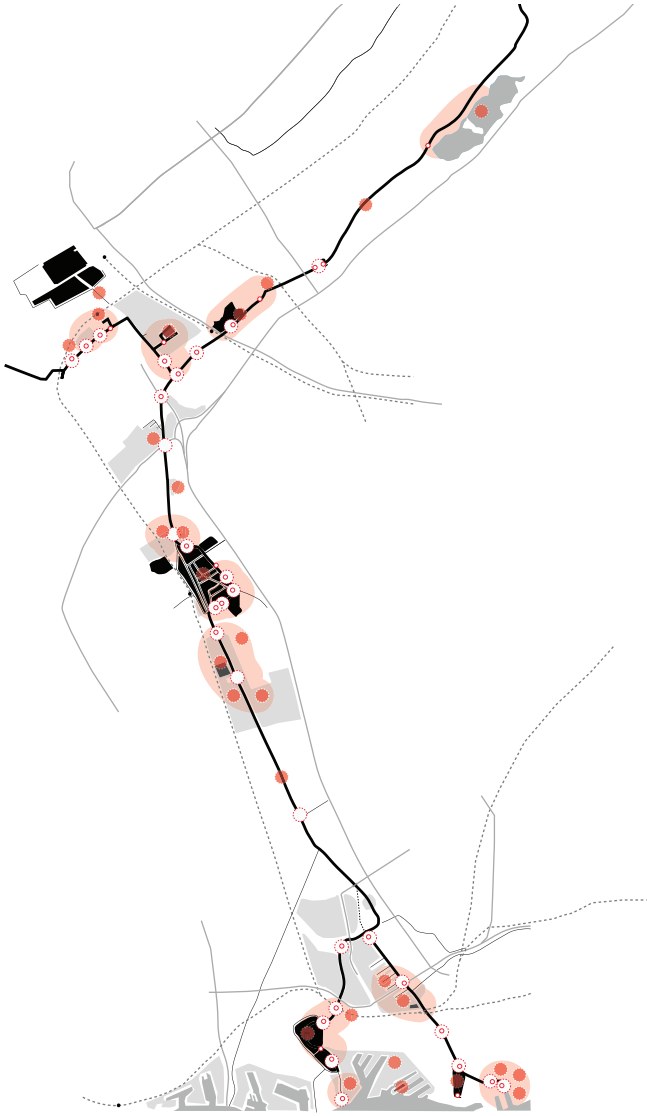
Elements
- Stairs
- Movable chairs
- Single iconic tree
- Water and electricity
- Unused land
- Mobile app (development suggestions)

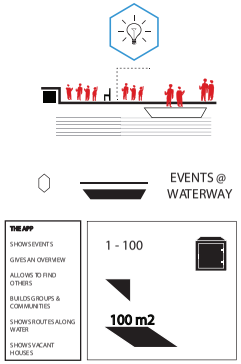
L

LARGE
In this phase, which indicates the first connections with nearby places around the water, the design of a small space next to the water invites the users to be more involved with the watersystem. Some creative areas or vacant industrial areas are directly connected to the water. The placement of small scaffolds make a visual and tranaport connection with these places. The bridge control house is stil the central point.

Elements
- Scaffolds
- Small stairs
- Sitting space



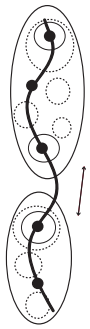




The implemented acupunctural elements and the surrounding valuable places have been created the opportunity to grow as a certain area, wearing a specific identity and thematic, and with this the awareness of the citizens close to the water is created. Also other places that do not contain a S or M, can be made accesible with L.
The communities handle in aggerate.

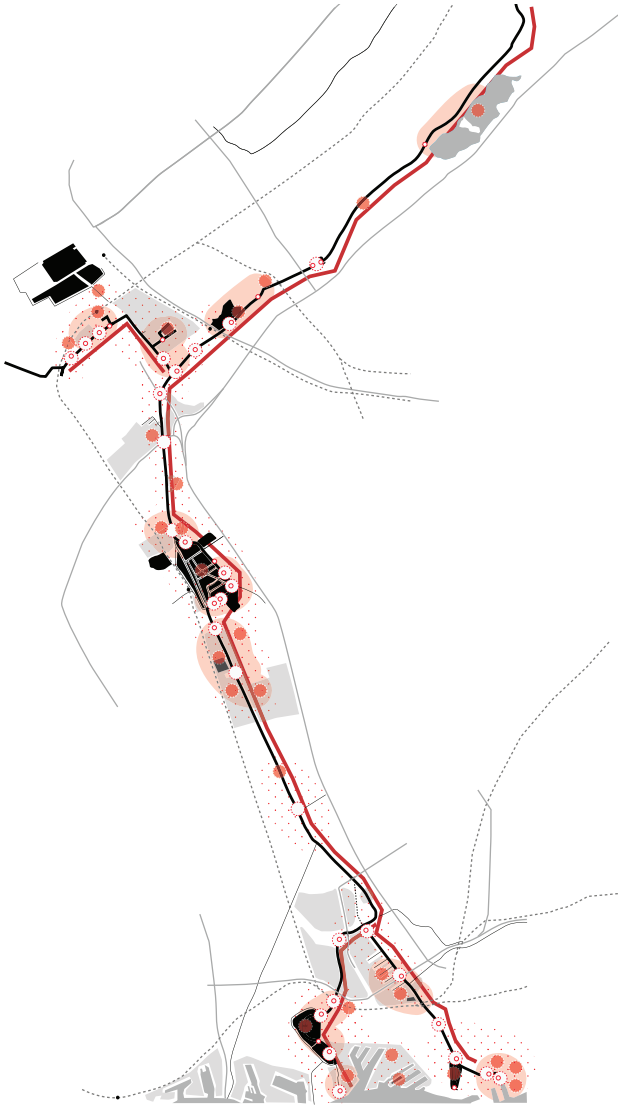
Elements
- Events
- Small ferries going between two destinations

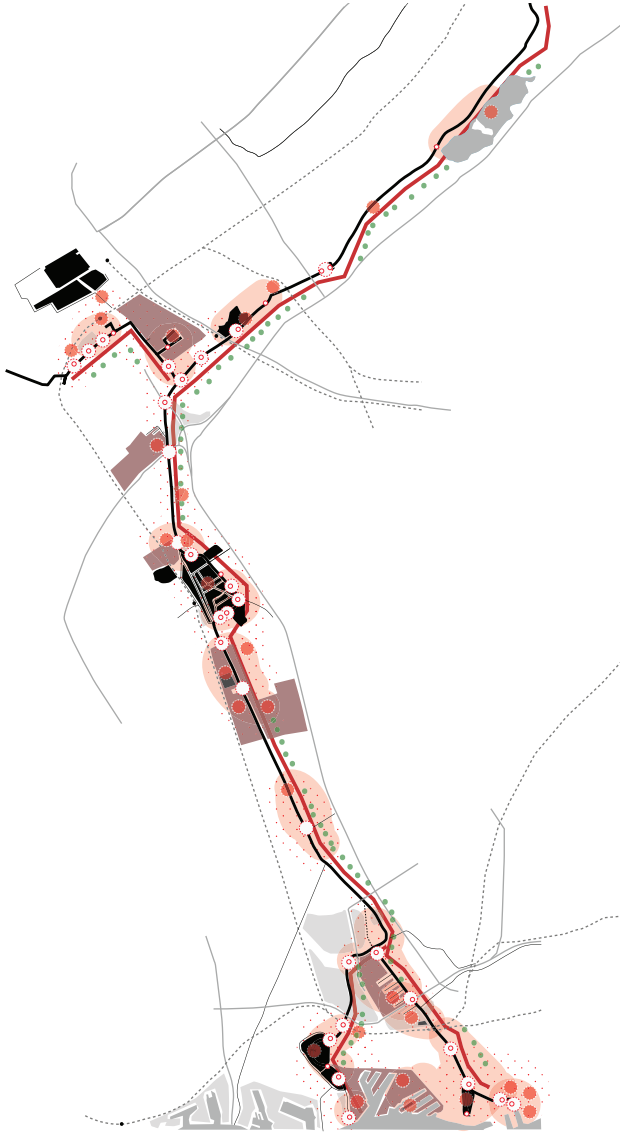
XL



EXTRA LARGE
The next step brings the water system into an higher level. It does emphesize on the fact that the little places have grown their own communities and identities, but with the shared properties as the bridge houses and the water system, these places find a connection to each other. The small networks that grew around these places, connect with eachother now. Its system is empasized. Different stake holders get same interests.

Elements
- Bycicle paths
- Ferries
- Better roads
- Water front renewal
- Publicness of the waterfront
- Intercity relations



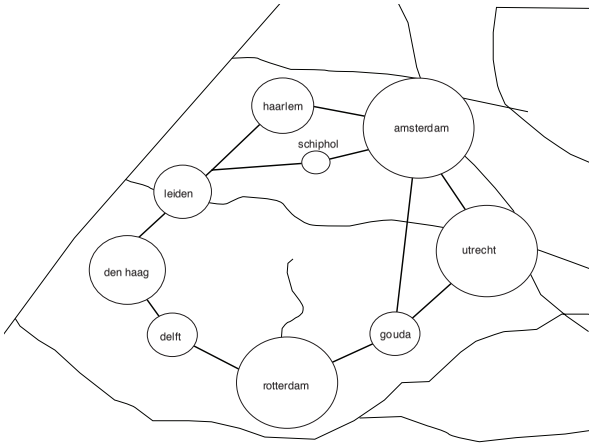


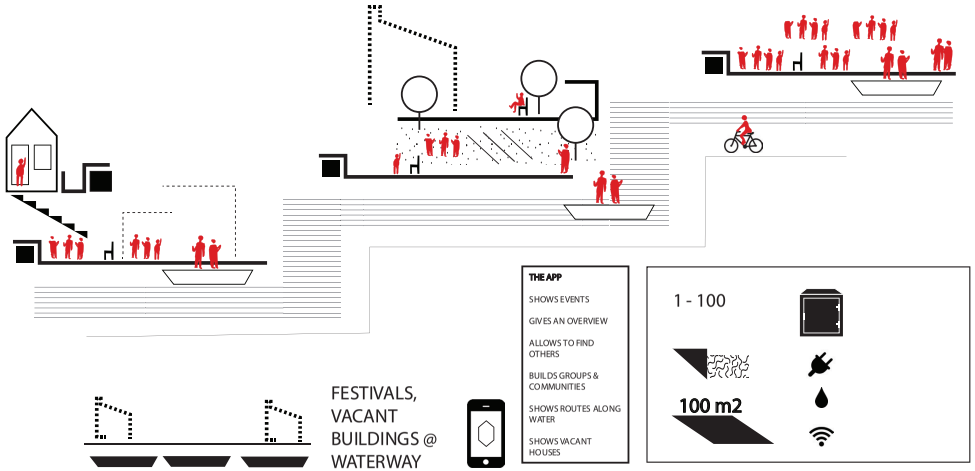
The system is brought back on the map and even works as an social soft network within the metropolitan city. The city found, with the help of its people, it roots back. Though in another form, the awareness for the importance and potential of the water system has brought to light.

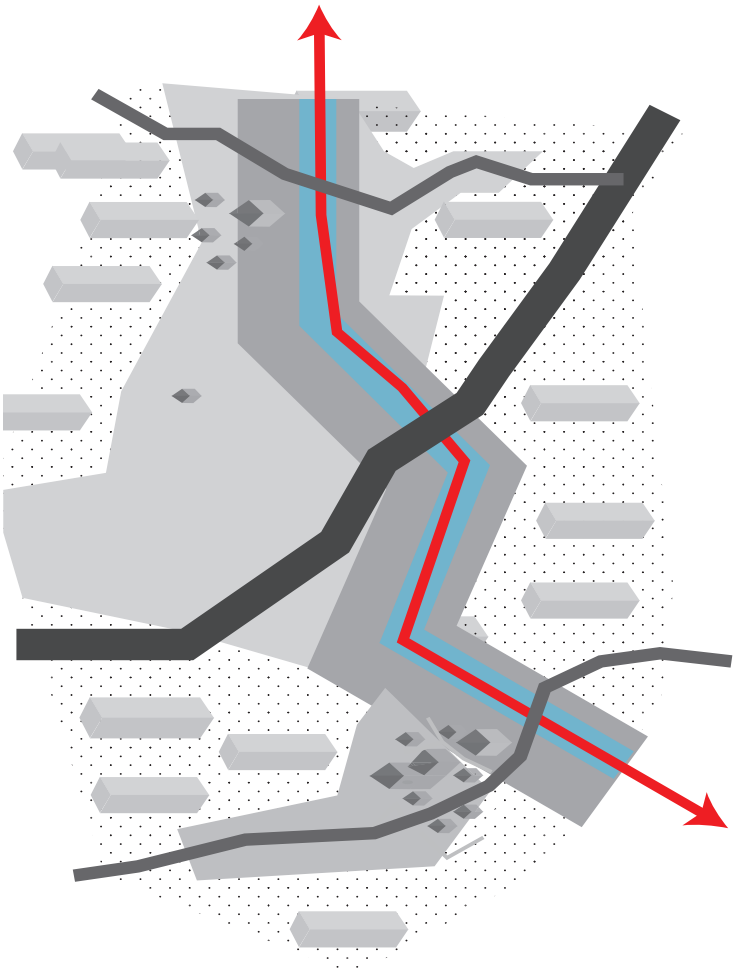
Elements
- Bycicle paths
- Ferries
- Better roads
- Water front renewal
- Publicness of the waterfront
- Intercity relations

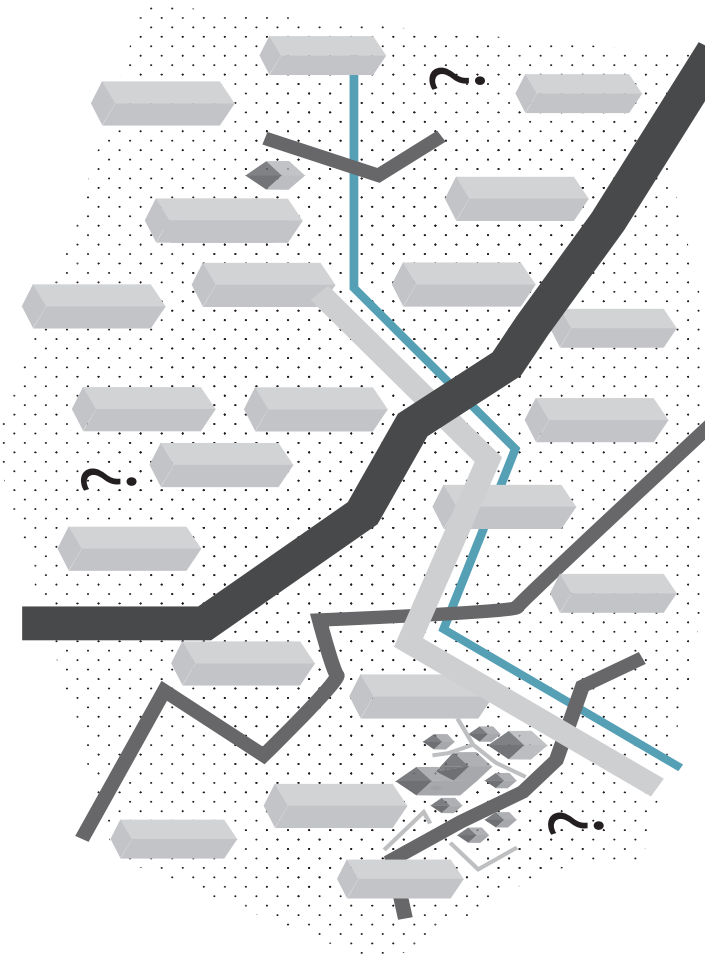
- Agriculture
- Water cleaning
- Water management awareness
- Recreation in the city
- a GRAND DESIGN

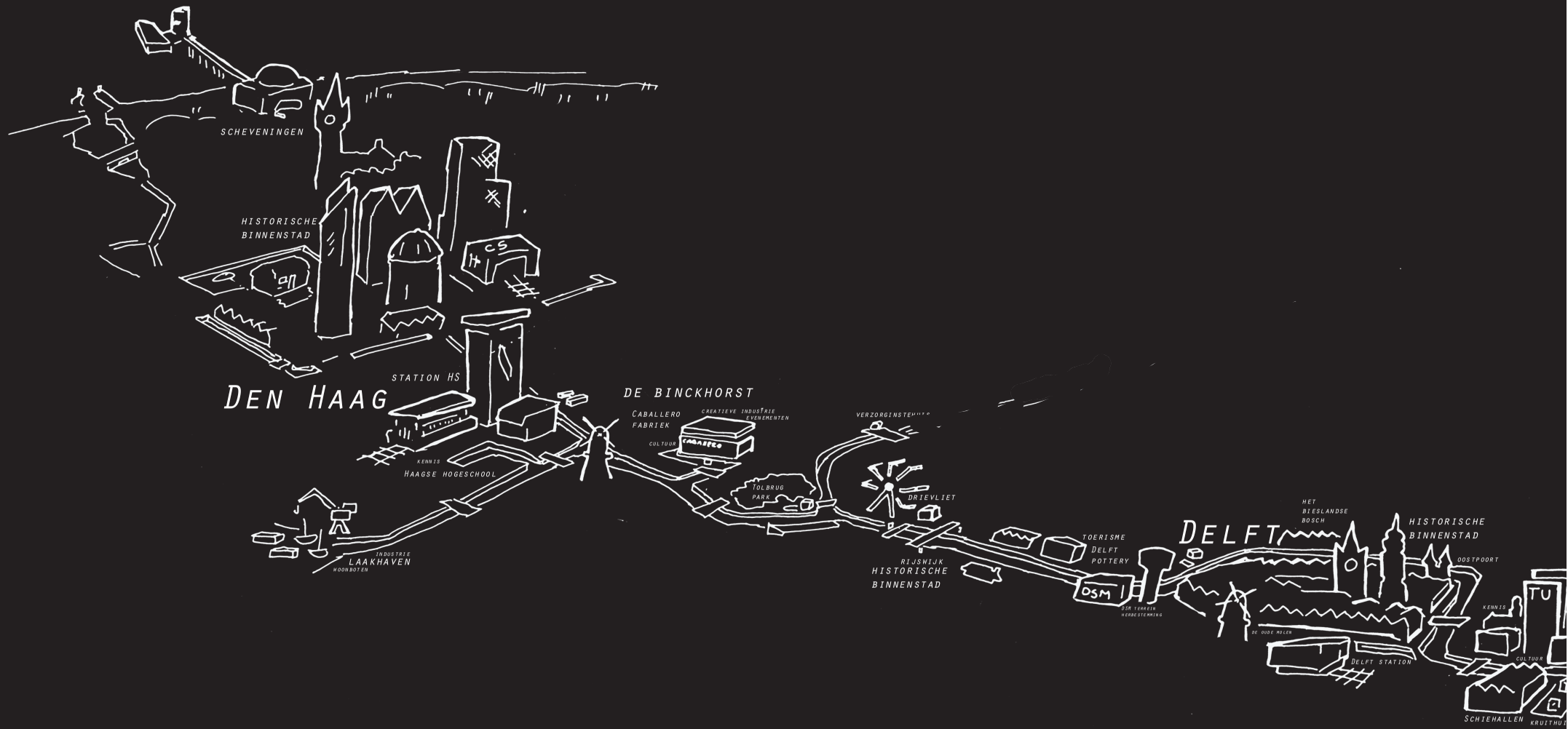
Het U
AMSTERDAM
LEIDEN
De Rijn
DEN HAAG
DELFT
ROTTERDAM


haarlem
amsterdam
schiphol
leiden
utrecht
den haag
delft
gouda
rotterdam


THE APP
SHOWS EVENTS
GIVES AN OVERVIEW
ALLOWS TO FIND OTHERS
BUILDS GROUPS & COMMUNITIES
SHOWS ROUTES ALONG WATER
SHOWS VACANT HOUSES
1 - 100
100 m2
FESTIVALS, VACANT BUILDINGS @ WATERWAY






SCHEVENINGEN
HISTORISCHE BINNENSTAD
STATION HS
DEN HAAG
KENNIS
HAAGSE HOGESCHOOL
INDUSTRIE
LAAKHAVEN
WOONBOTEN
DE BINCKHORST
CABALLERO FABRIEK
CREATIEVE INDUSTRIE
EVENEMENTEN
CULTUUR
TOLBRUG PARK
DRIEVLIET
RIJSWIJK HISTORISCHE BINNENSTAD
TOERISME DELFT POTTERY
DSM
DSM TERREIN HERBESTEMMING
DELFT
HET BIESLANDSE BOSCH
HISTORISCHE BINNENSTAD
OOSTPOORT
KENNIS
TU
CULTUUR
DE OUDE MOLEN
DELFT STATION
SCHIEHALLEN
KRUITHUI