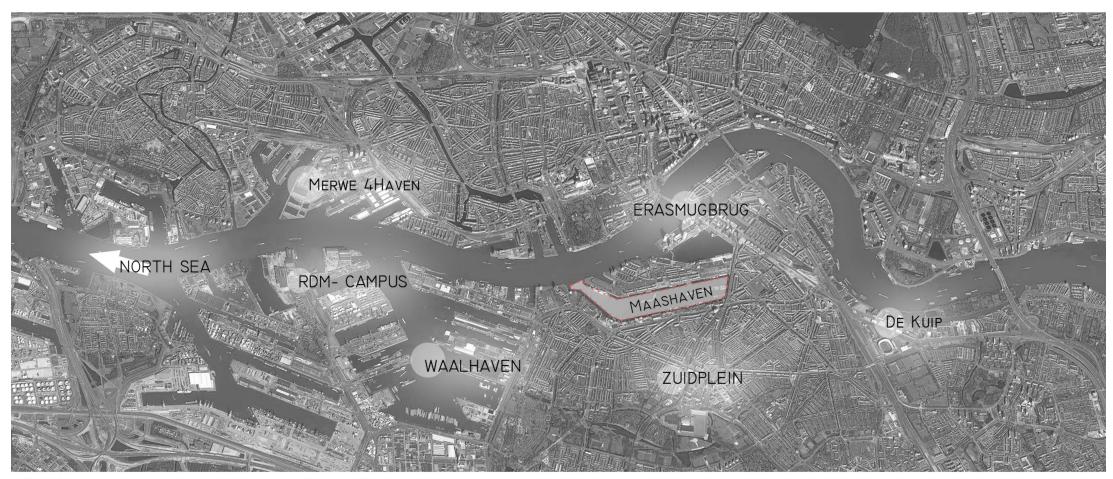


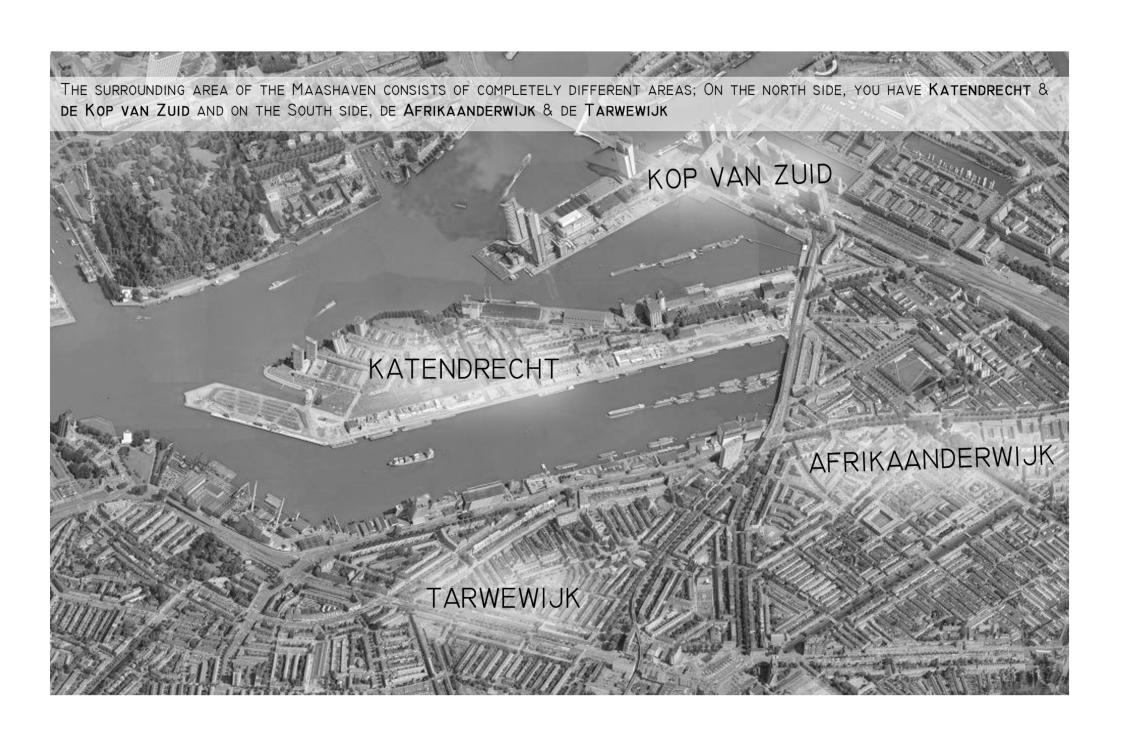
THOMAS MOEKEN | 4002709 | 28-01-2016

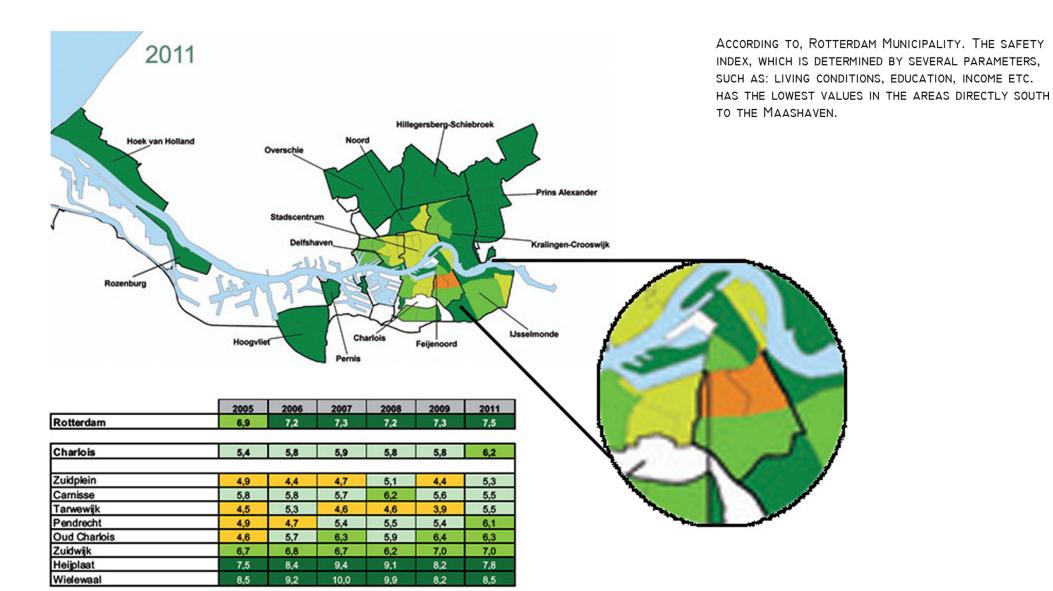
HENRIETTE BIER | NIMISH BILORIA | KAREL VOLLERS | SIEN VAN DAM





THE MAASHAVEN IS SITUATED IN THE ORIGINAL PORT OF ROTTERDAM, ONE OF THE BIGGEST HARBOURS OF THE WORLD. IT IS RELATIVELY CLOSE TO THE CITY CENTER, CONNECTED BY THE ERASMUSBRIDGE, AND ZUIDPLEIN SHOPPING MALL.





THE DIFFERENCES BETWEEN, DE TARWEWIJK & DE AFRIKAANDERWIJK, COMPARED TO THE WILHELMINAKADE & KATENDRECHT. ARE VISIBLE NOT ONLY IN FACTS AND NUMBERS.

BUT ALSO IN THE ARCHITECTURE AND THE OPEN SPACE. WHILE KATENDRECHT HAS BEEN DEVELOPED RECENTLY AND STILL IS BEING DEVELOPED. ALMOST NOTHING HAPPENS
IN THE SOUTHERN DISTRICTS.

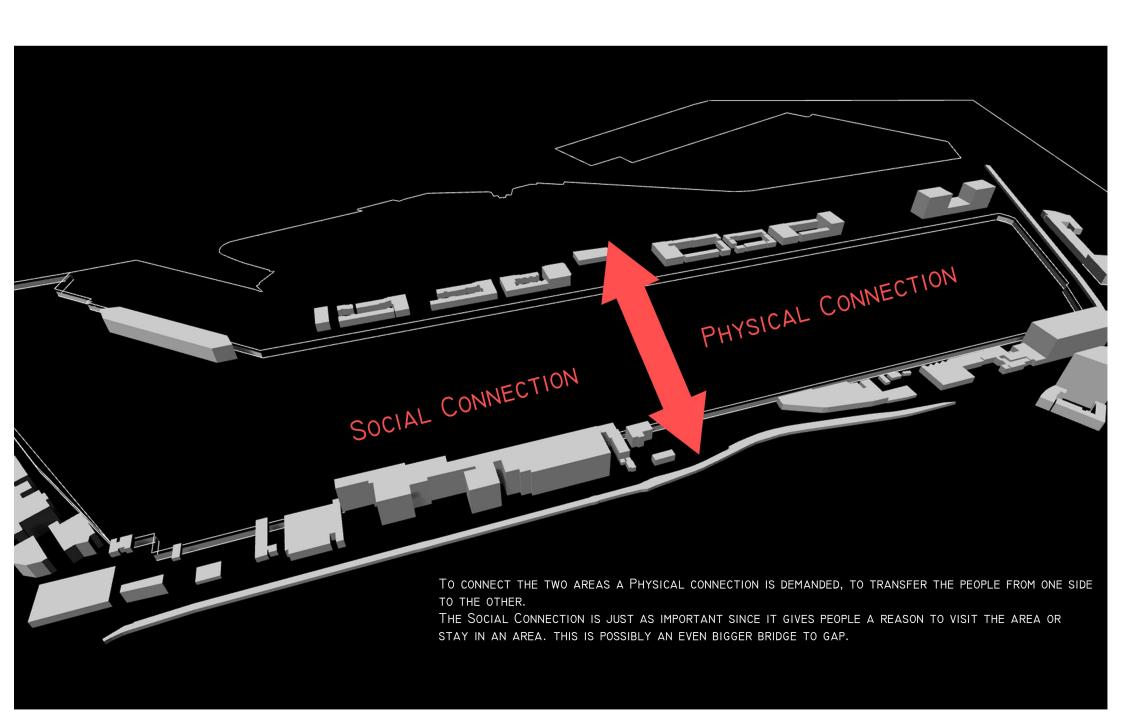
KATENDRECHT

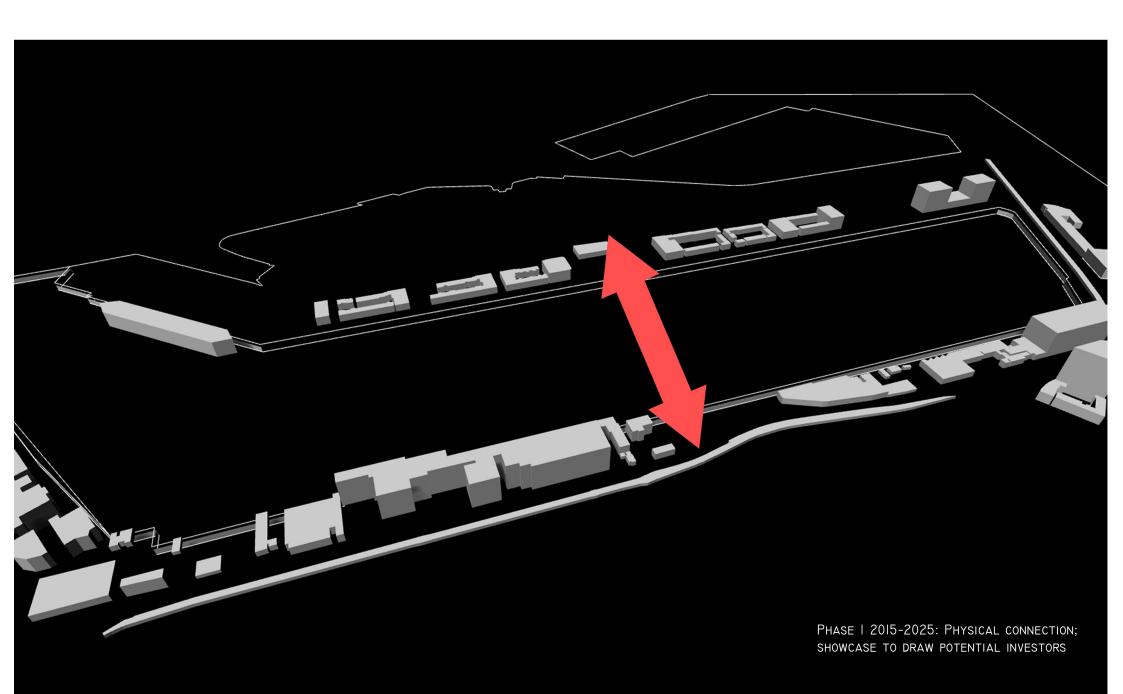


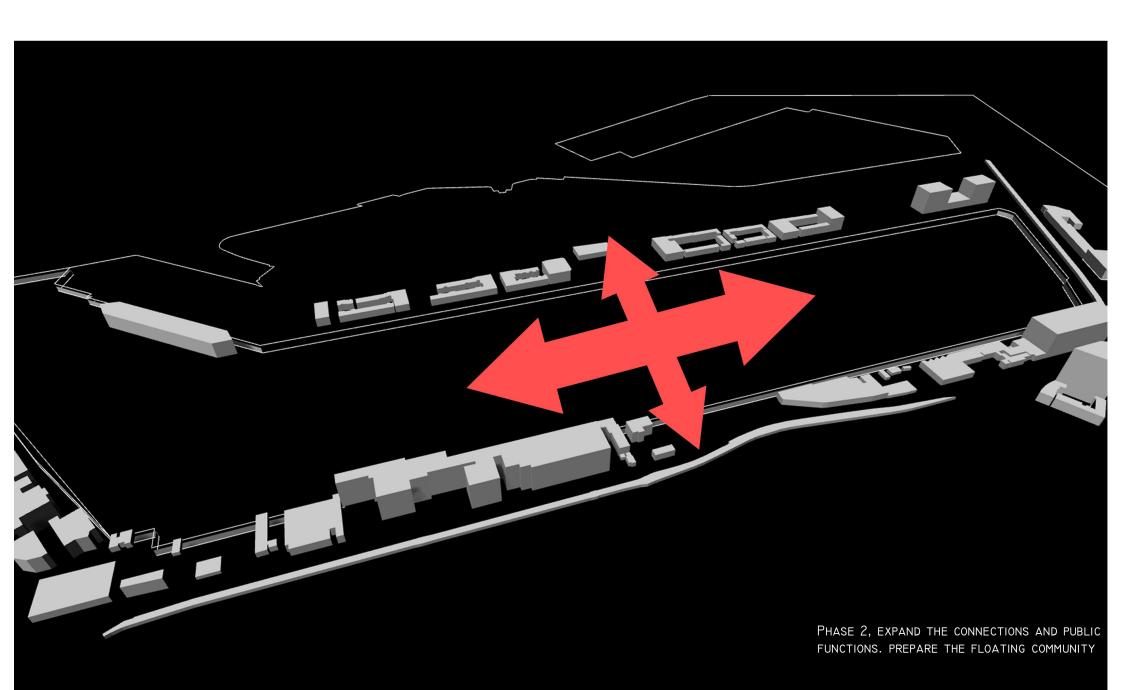
TARWEWIJK

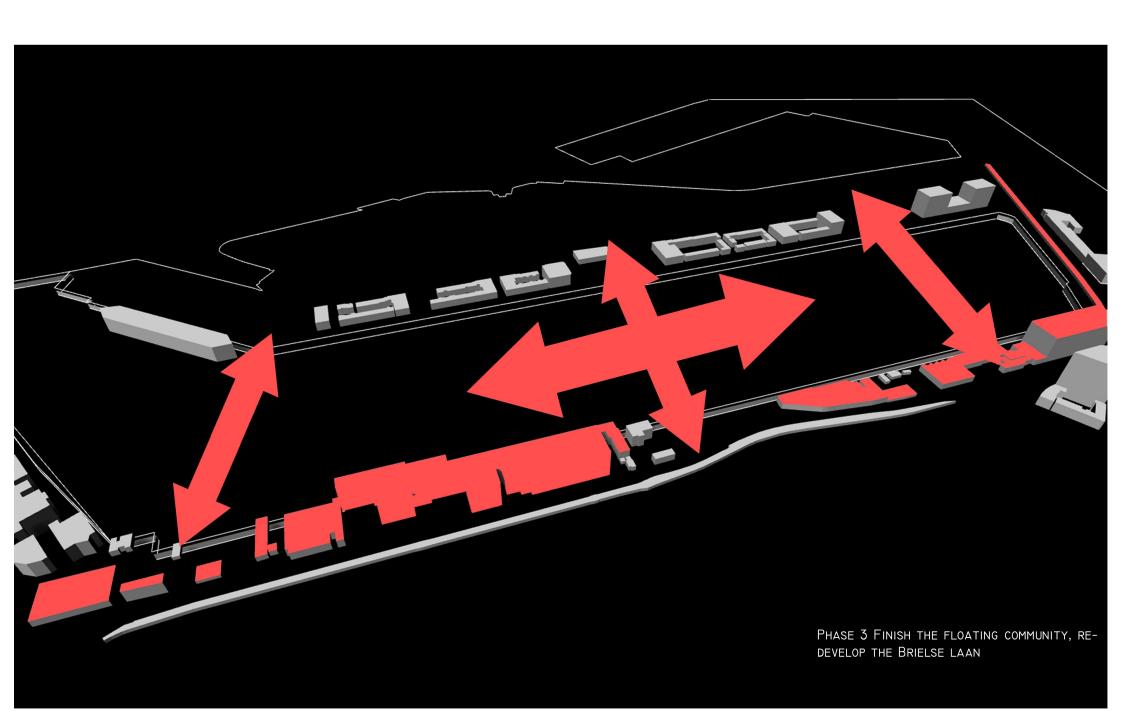


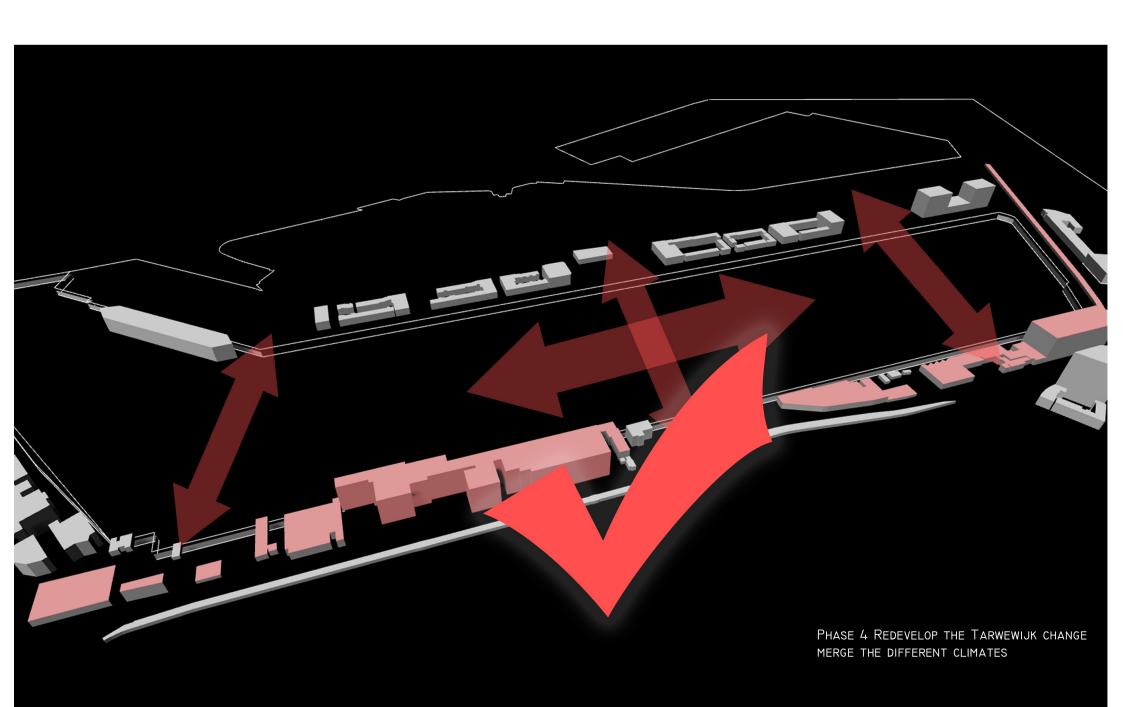














TO MAKE A BRIDGE CONNECTION IS ONE THING. BUT TO BUILD AN ENTIRE FLOATING COMMUNITY ON THE WATER SEEMS QUITE EXTREME.

HOWEVER, STADSHAVENS ROTTERDAM HAS ALREADY ASSIGNED THE MAASHAVEN TO BE ON OF THE FIRST FLOATING COMMUNITIES IN THE WORLD. TOGETHER WITH THE RDM-CAMPUS THEY ARE ALREADY DEVELOPING AND ALMOST WORLD LEADING IN THERMS OF FLOATING STRUCTURES.

DELTASYNC HAS MADE THE NEWS COUPLE OF TIMES ALREADY WITH THEIR DESIGNS, BUT ALSO THE FLOATING DOME IN THE RIJNHAVEN.

WITH THE CLIMATE CHANGES AHEAD OF US A RISING SEA LEVEL WILL BE DIRECT CONSEQUENCE. WHILE IN THE NETHERLANDS WE LIVE UNDER SEA LEVEL ALREADY THIS DEMANDS INOVATIVE SOLUTIONS

ROTTERDAM.CLIMATE.INITIATIVE











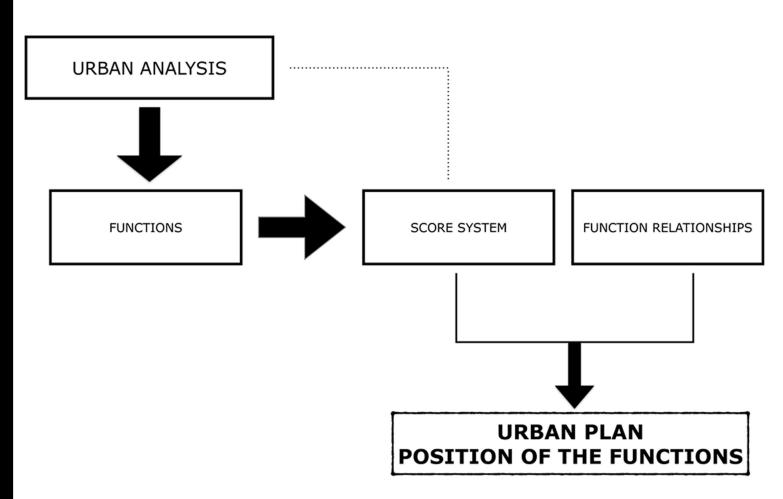
CROSSING BORDERS





THE DESIGN STRATEGY FOR THE URBAN PLAN STARTS WITH AN URBAN ANALYSIS. THIS WILL DETERMINE THE DESIRED FUNCTIONS WHICH WILL BE TESTED AGAINST A SO CALLED SCORE SYSTEM. THIS SCORE SYSTEM HAS PARAMETERS INPUT BY THE URBAN ANALYSIS. AND TOGETHER WITH THE SET FUNCTION RELATIONSHIPS THE POSITION OF THE FUNCTIONS FOR AN URBAN PLAN WILL BE DETERMINED.

URBAN STRATEGY



THE URBAN ANALYSIS HAS TO DEFINE THE MISSING FUNCTIONS FOR THIS AREA TO DEVELOP. IT IS AN HARBOUR AREA WHICH IS STILL BEING USED BY LITTLE PARTS OF INDUSTRY AND AS A DOCKING STATION FOR SHIPS.

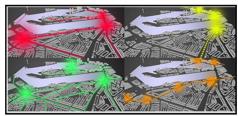
THEREFORE THE FIRST IMAGE SHOWS THE RESTRICTIONS BASED ON SHIP ACTIVITY

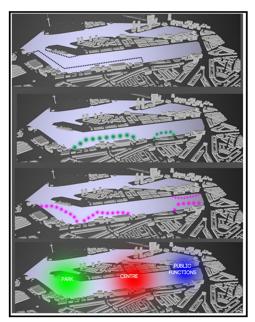
THE SECON IMAGE SHOWS PUBLIC TRANSPORT

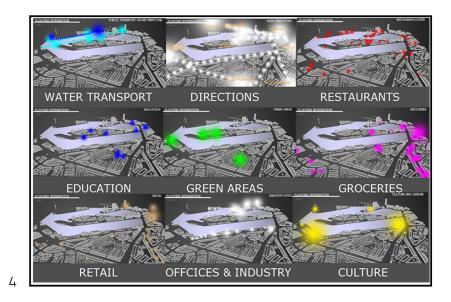
THE TIRD GIVES US RESTRICTIONS BASED ON THE SURROUNDING, THINK ABOUT POLLUTION AND CONNECTING LIVING AREAS

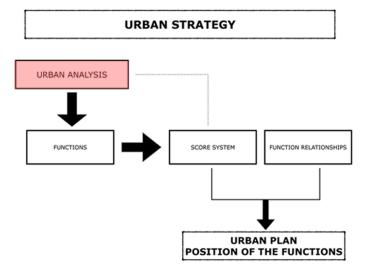
THE FOURTH IMAGE SHOWS THE AVAILABLE FUNCTIONS IN THE SURROUNDING AND GIVE US AN INDICATION WHAT KIND OF FUNCTIONS WILL BE USEFULL IN OUR PLAN TO DEVELOP THE MAASHAVEN.



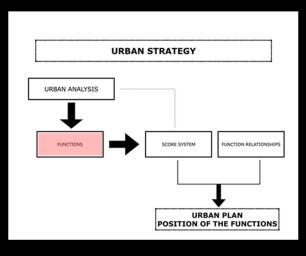


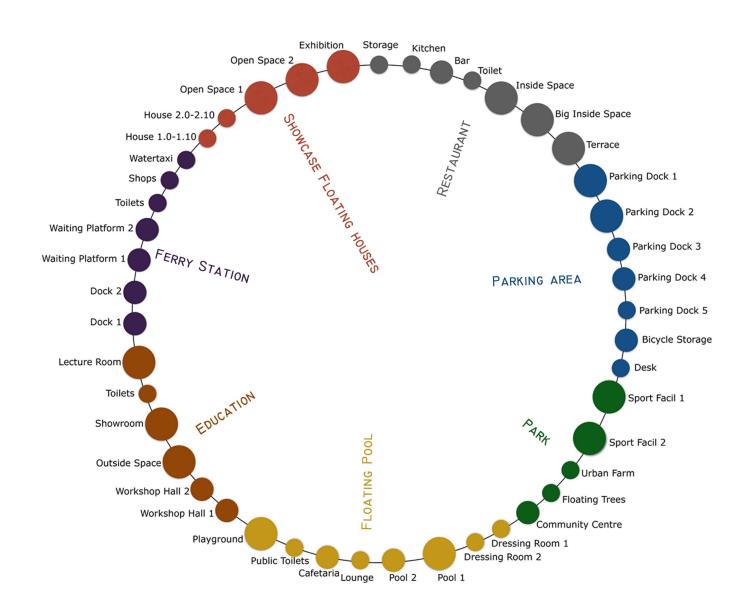






BASED ON THE URBAN ANALYSIS 7 MAIN FUNCTIONS HAVE BEEN CHOSEN TO DEVELOP THE FIRST PHASE, AND HELP, NEXT TO PHYSICALY ALSO MAKE A SOCIAL CONNECTION BETWEEN CULTURAL DIFFERENCES





NEXT STEP ON THE LIST TO GET TO THE POSITION OF THE FUNCTIONS IS THE "SCORE SYSTEM"

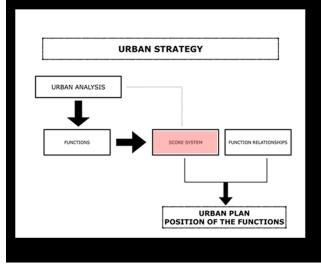
THIS SYSTEM WILL HELP TO DETERMINE THE BEST LOCATIONS FOR SPECIFIC FUNCTIONS.

THE MAASHAVEN WAS DIVIDED INTO A GRID OF 5x5 METER. EVERY GRID GOT IT'S OWN COORDINATE.

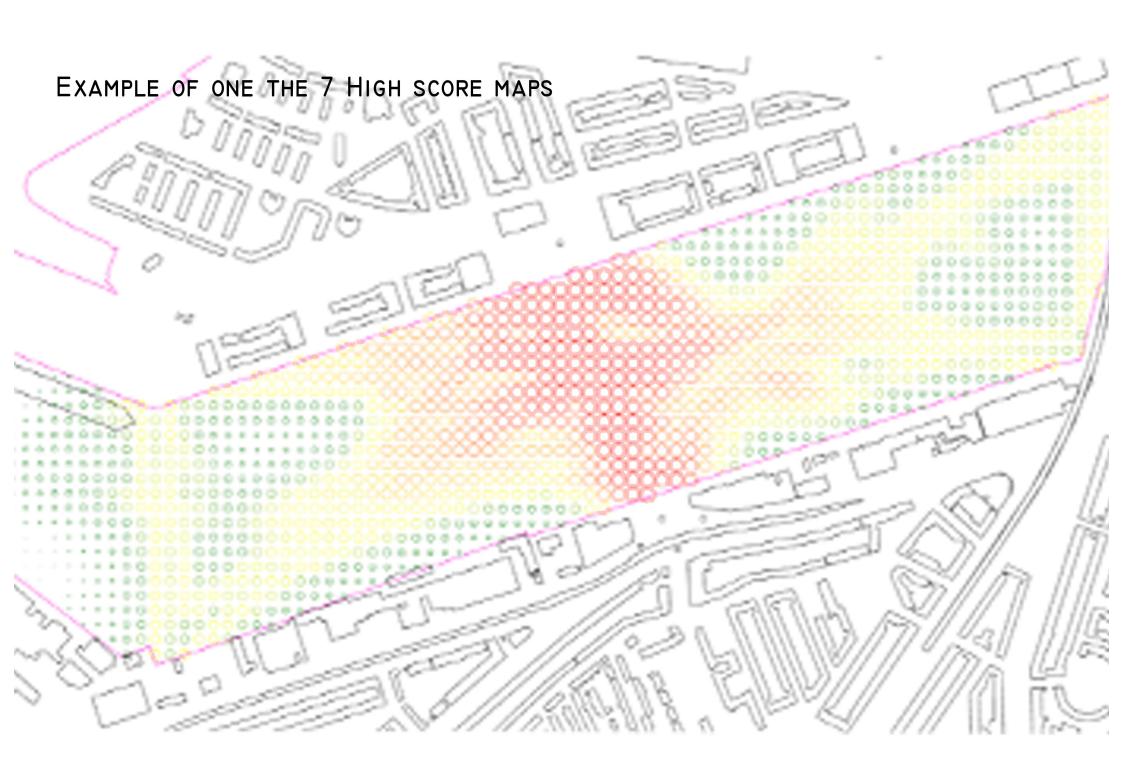
EACH COORDINATE COULD SCORE POINTS BASED ON THE SET PARAMETERS. WHICH WOULD RESULT IN A HIGH SCORE FOR CERTAIN POINTS.

DIFFERENT FUNCTIONS ASK FOR DIFFERENT DEMANDS AND THEREFORE EACH PARAMETER IS WORTH A DIFFERENT KIND OF POINTS BASED ON THE VALUE SET FOR THIS PARAMETER.

LEADING TO A HIGH SCORE FOR EVERY SINGLE FUNCTION

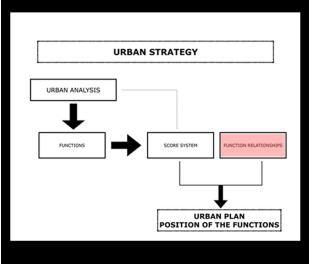


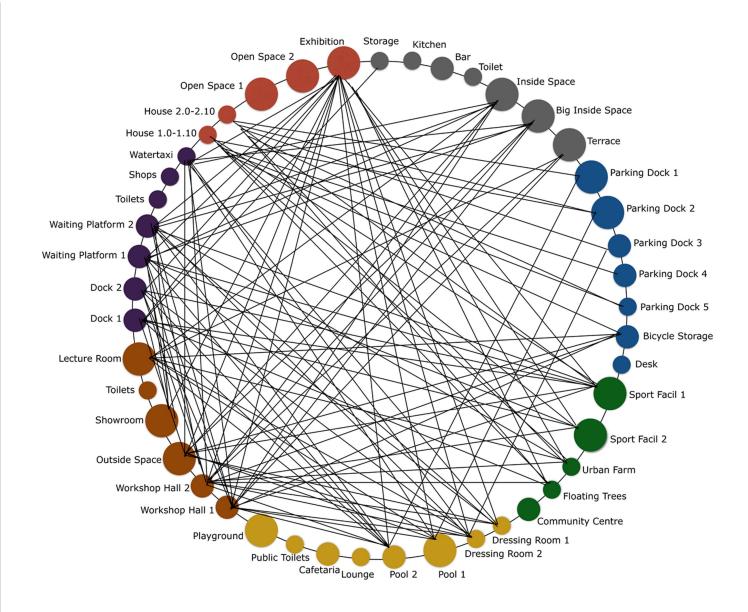
COORDINATE SCORE - SYSTEM (determined by function) Parameters Function Proximity Ship Restrictions People Flow URBAN ANALYSIS COORDINATE SCORE - SYSTEM Pollution & Noise Infrastructure

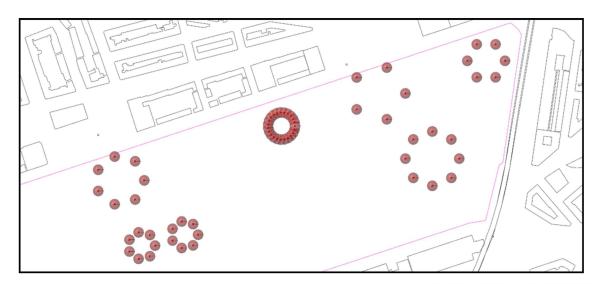


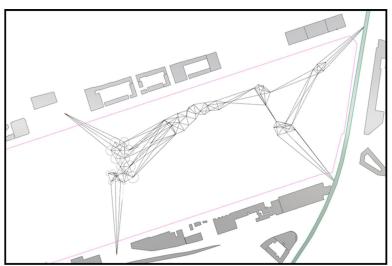
THE SCORE SYSTEM GAVE AWAY THE BEST POSSIBLE POSITIONS FOR THE FUNCTIONS. HOWEVER THESE DIFFERENT FUNCTIONS ARE RELATED TO EACHOTHER IN SOME WAYS. SO TO KEEP THEM FROM BEING SCATTERED ALL OVER THE PLACE RELATIONS HAVE BEEN SET INBETWEEN THE DIFFERENT FUNCTIONS.

THESE RELATIONS WILL WORK AS ATTRACTORS TO DEFINE THE FINAL POSITION OF THE FUNCTIONS.

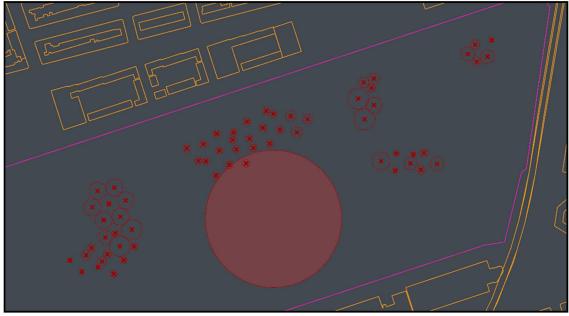


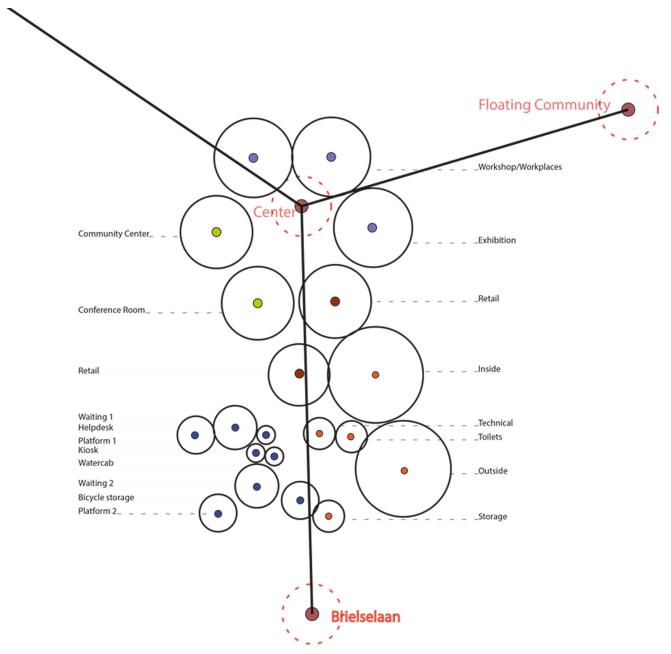






IN THE FIRST IMAGE YOU CAN SEE THE FUNCTIONS BEING SCATTERED ON THEIR HIGH SCORE POSITIONS. HOWEVER, THE SECOND IMAGE SHOWS THE CONNECTIONS WHICH HAVE DETERMINED THE FINAL (TIRD IMAGE) POSITION OF THE FUNCTIONS



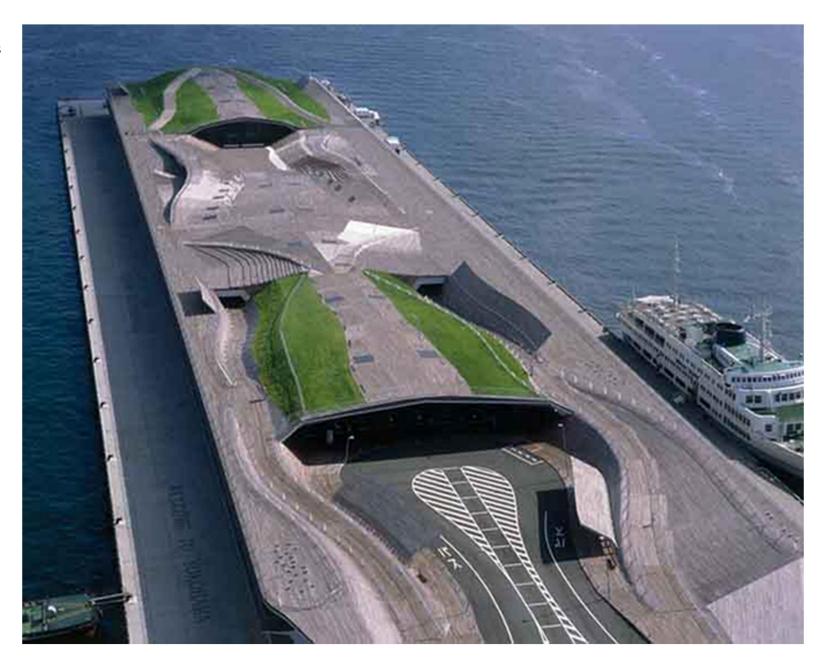


A SMALL SEGMENT WILL BE WORKED OUT INTO DETAILZOOMING IN ON THE MAIN CONNECTION.

DIMITRI STEFANESCO, THIS BRIDGE USES THE DIFFERENT LANDINGS AND AS A RESULT OF RESTSPACE FUNCTIONS GAIN PLACE



THE BY FOA DESIGNED YOKOHAMA TERMINAL IS MEANT AS A LANDSCAPE. SHAPED BY A CONTINOUES SURFACE, WHICH OPENS AND FOLDS AROUND FUNCTIONS.

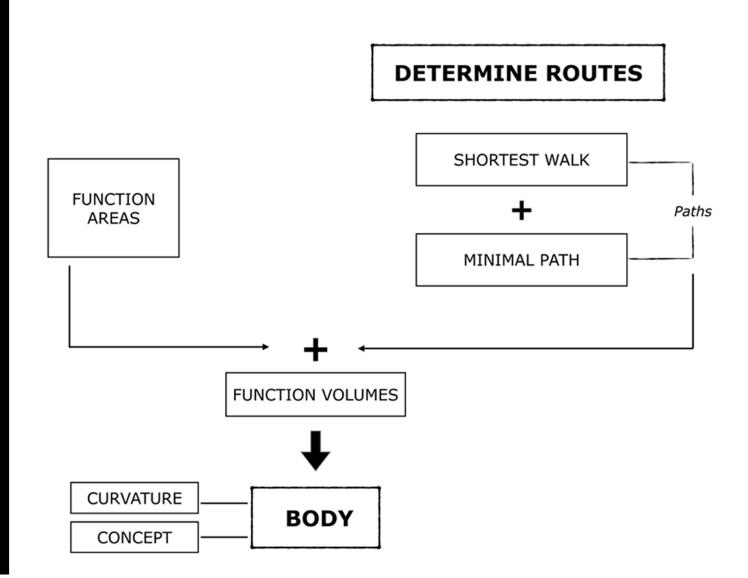


EVENTUALLY THE CHOSEN SEGMENT HAS TO BE DEVELOPED INTO AN ARCHITECTURAL BUILDING FOLLOWING THE GOALS AND AMBITIONS SET IN THE PROCESS.

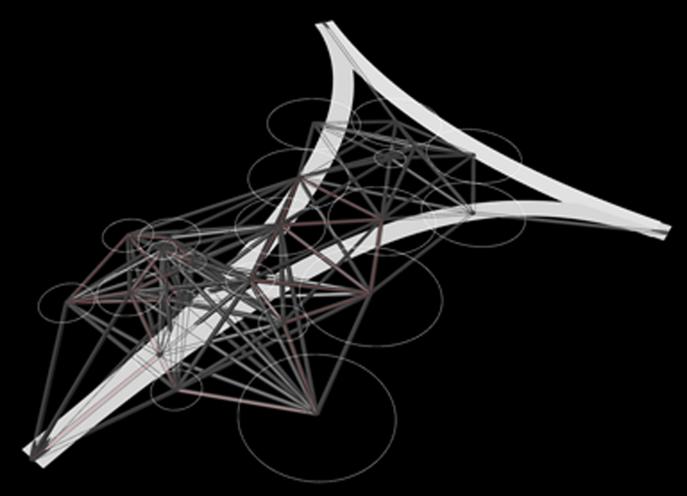
THIS DIAGRAM HELPS TO UNDERSTAND THIS PART OF THE DESIGN PROCESS.

THE FUNCTIONS ALREADY HAVE DETERMINED SIZES AND THEREFORE OCCUPY CERTAIN AREAS.

TO CONNECT THE FUNCTIONS AND TO CREATE A BUILDING, HOUSING THESE FUNCTIONS ROUTES HAVE BEEN DETERMINED BASED ON DIFFERENT DESTINATIONS AND DIFFERENT BEHAVIOR.

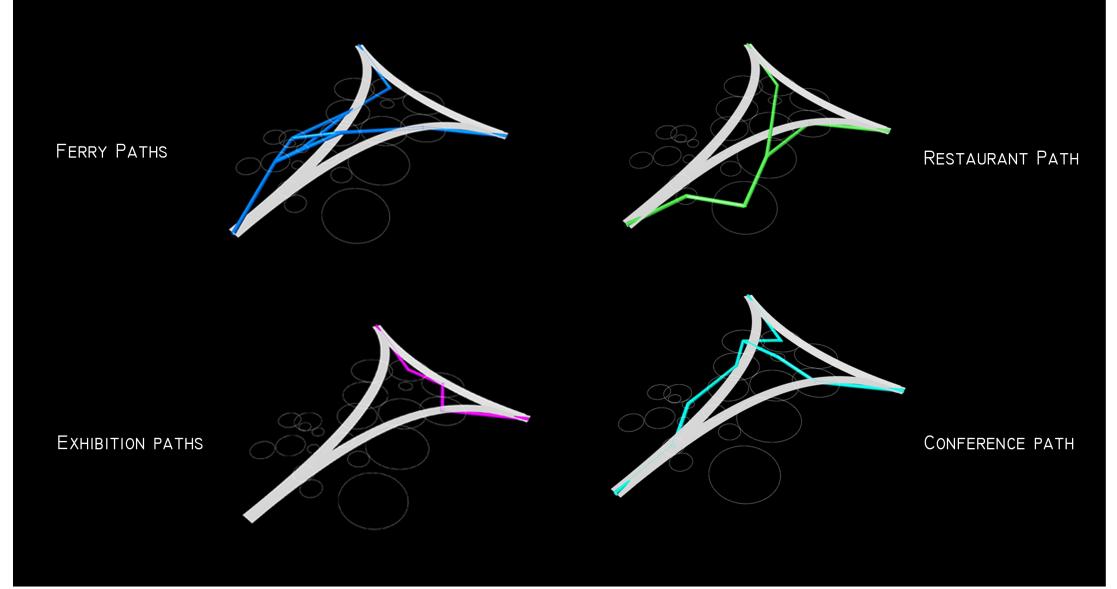


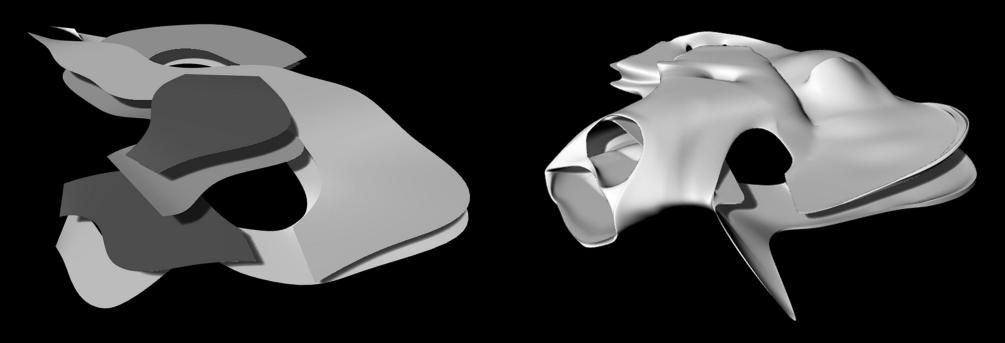
THE 3 DIRECTIONS: KATENDRECHT, BRIELSELAAN & THE FUTURE FLOATING COMMUNITY WILL BE CONNECTED BY A FAST LANE FOR CYCLISTS. THIS WILL ALSO BE AVAILABLE FOR PEDESTRIANS WHO WANT TO JUST CROSS



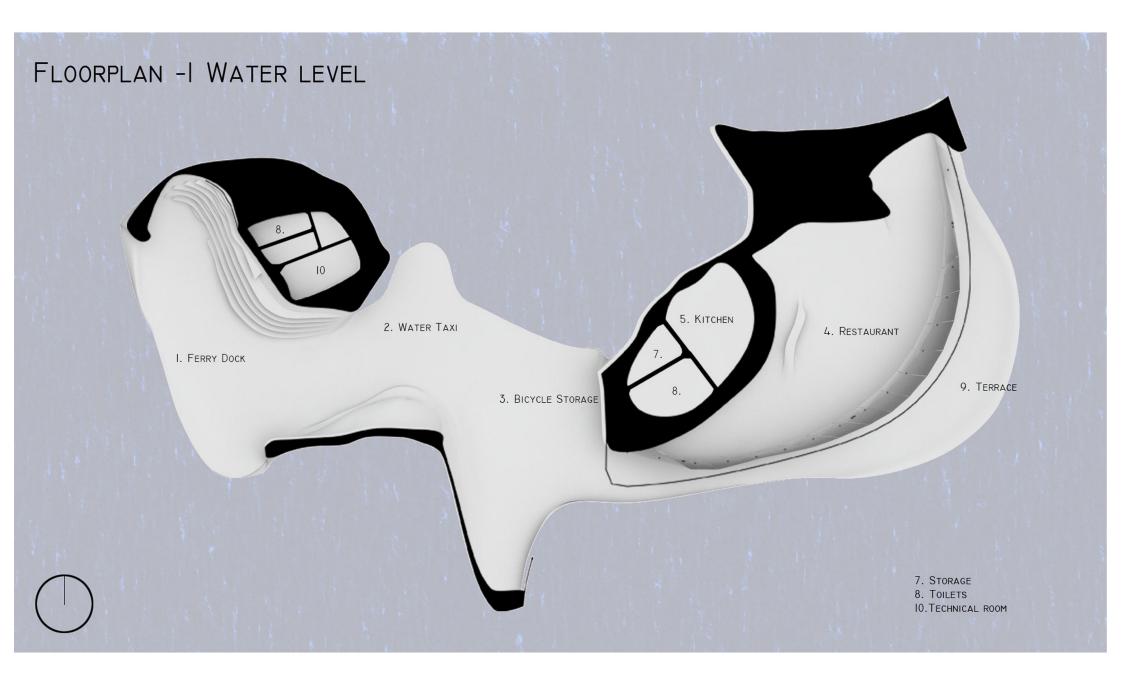
THE GRAY CONNECTIONS ARE ALL POSSIBLE

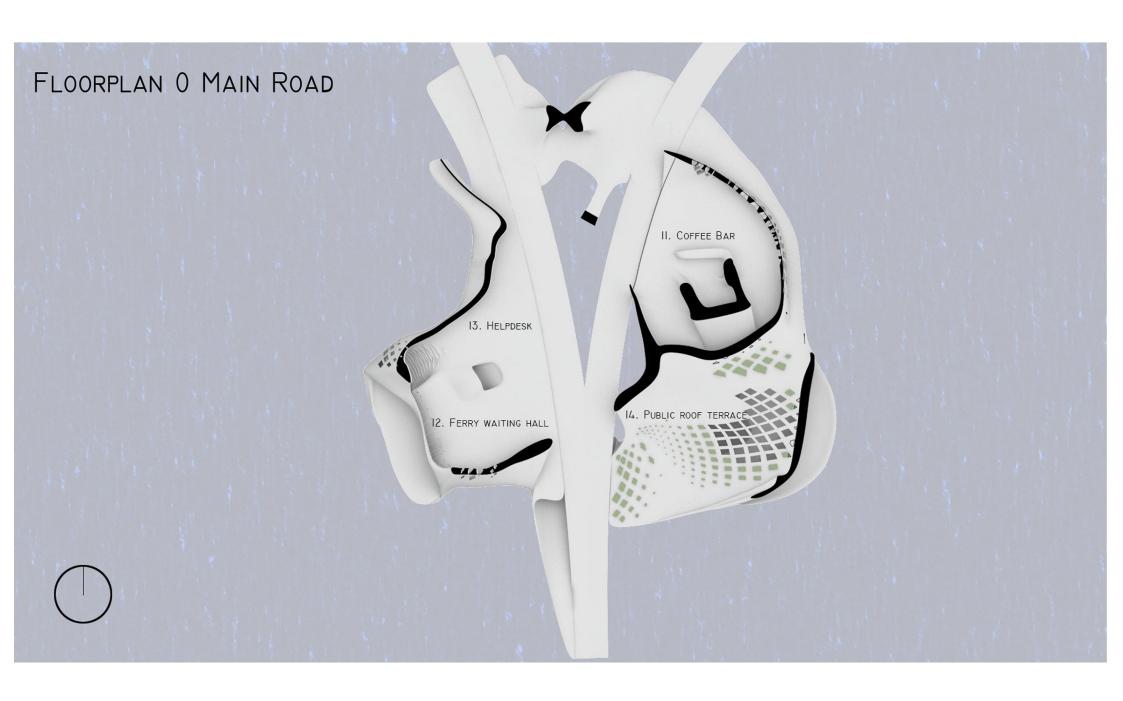
4 DIFFERENT TYPE OF PATHS HAVE BEEN CHOSEN FOR DIFFERENT TYPE OF USERS.



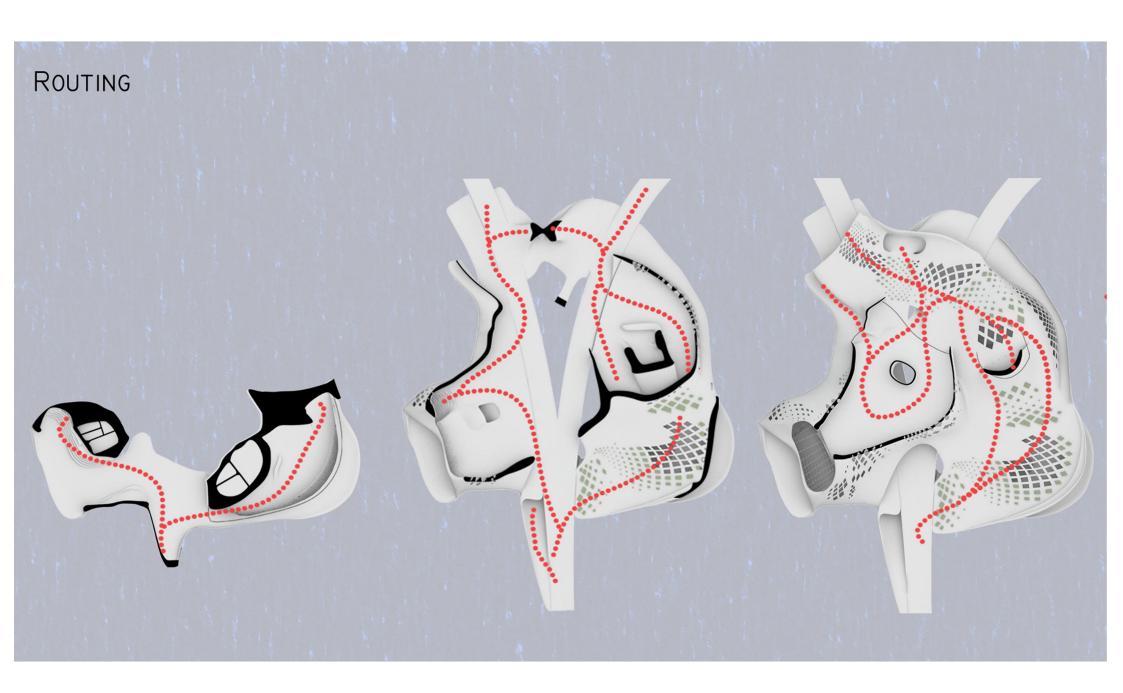


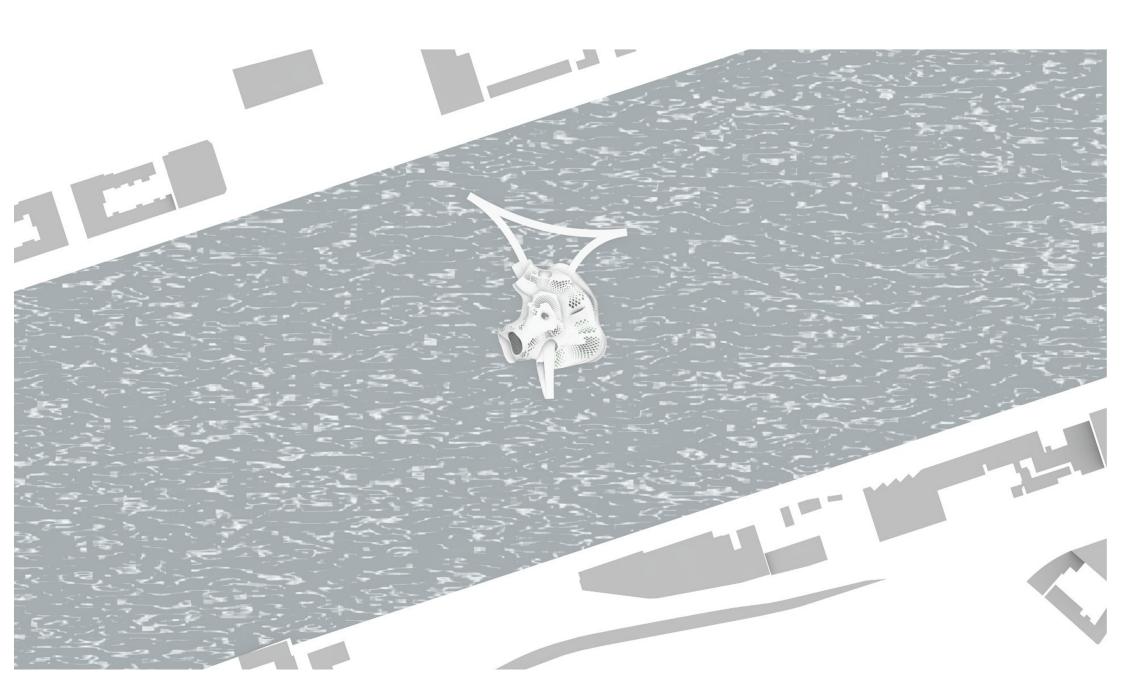
THE PATHS TOGETHER WITH THE FUNCTION SIZES RESULT IN SURFACES WICH MORPH AROUND THE FAST LANE

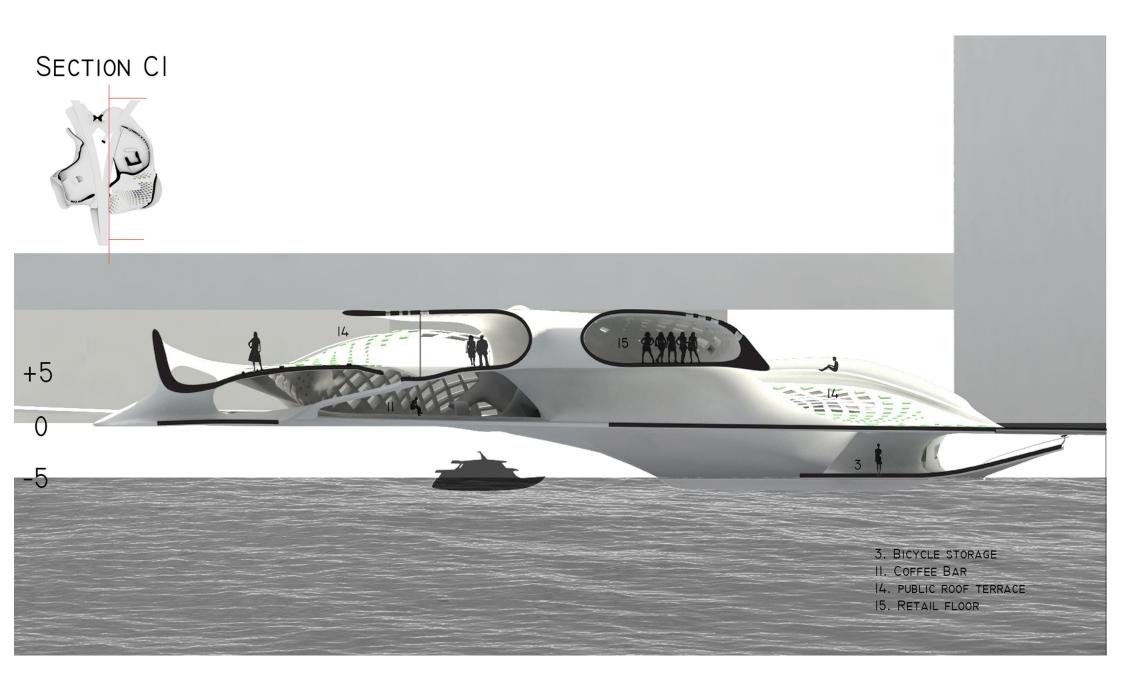


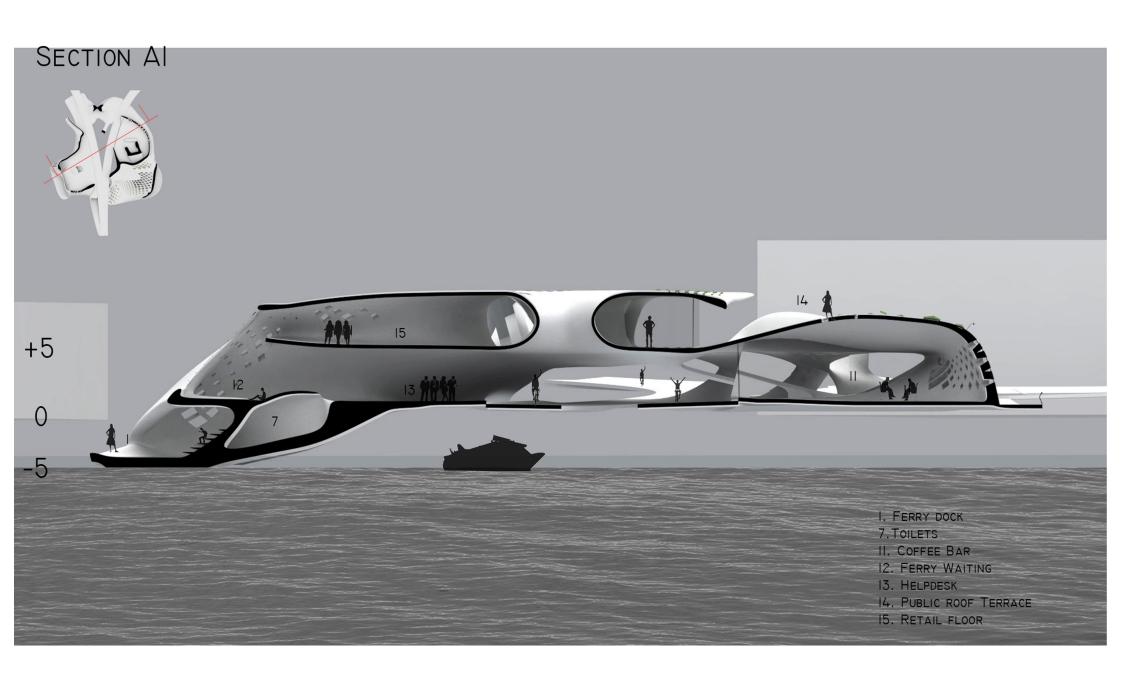


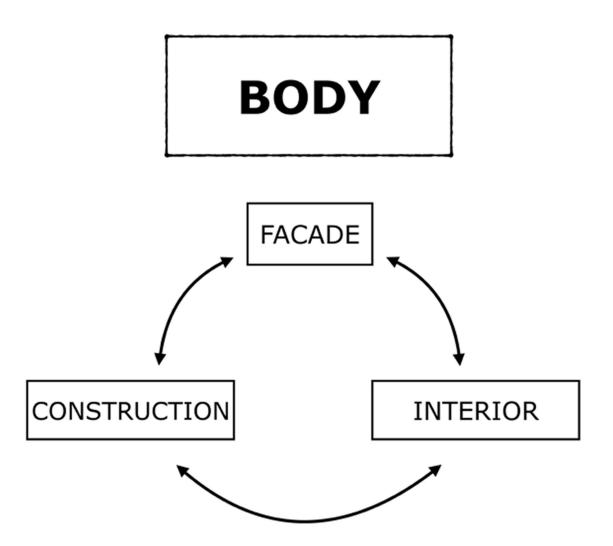




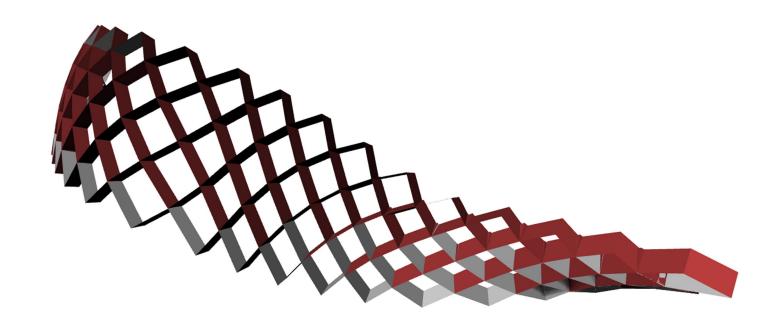




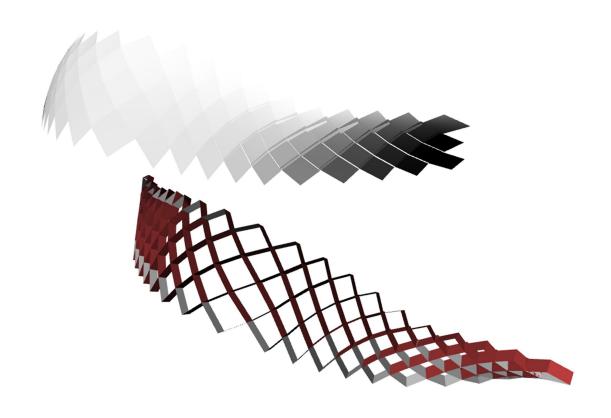




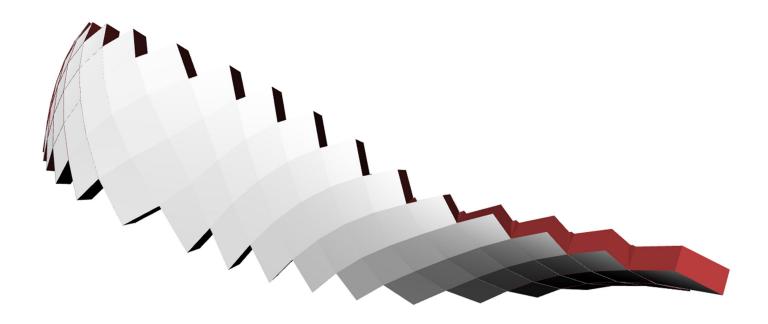
THE BODY WILL EVENTUALY BE DESIGNED IN A SYSTEM WHICH WORKS TOGETHER WITH ALL ASPECTS



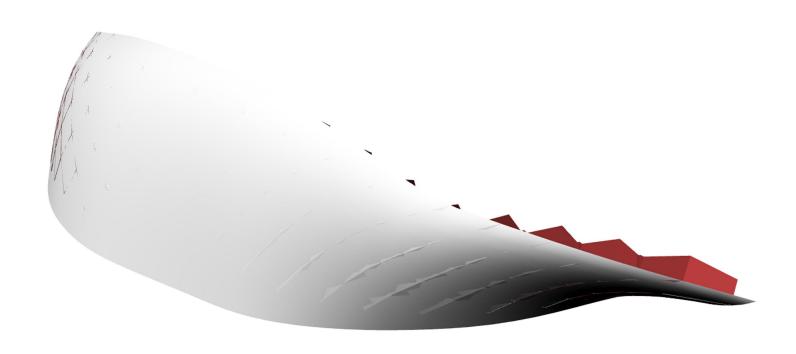
METAL CONSTRUCTION SYSTEM



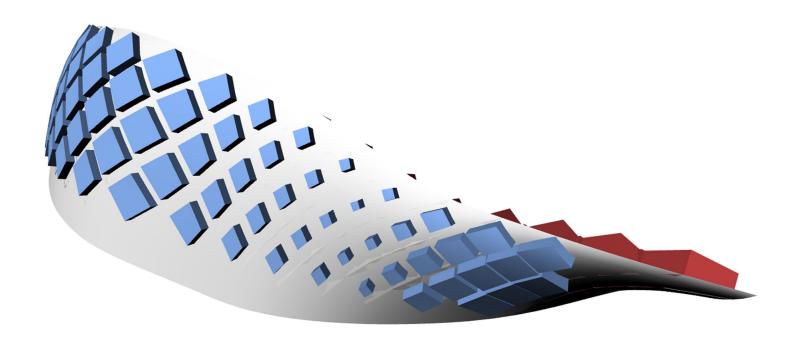
ADDING PREFAB PANELS



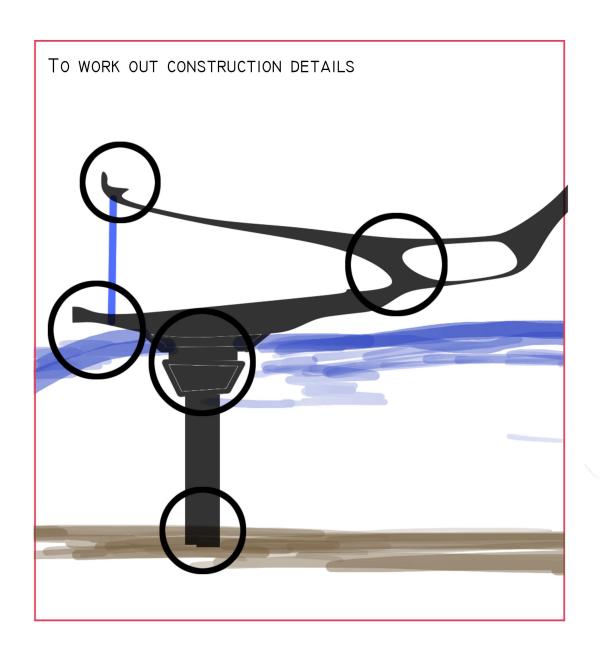
ADDING PREFAB PANELS



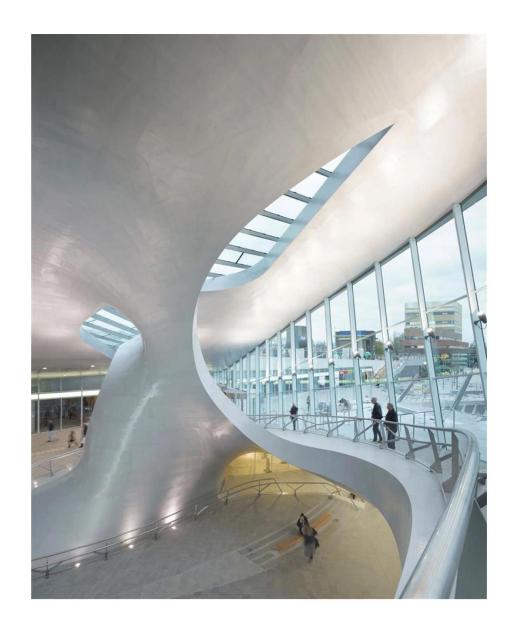
ADDING PLASTER / INSULATION LAYER

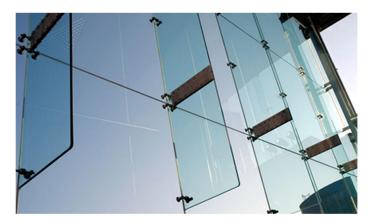


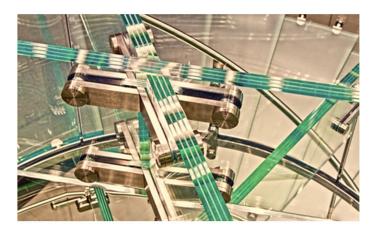
IF THERE ARE OPENINGS, THEY ARE BASED ON THE MAIN GRID

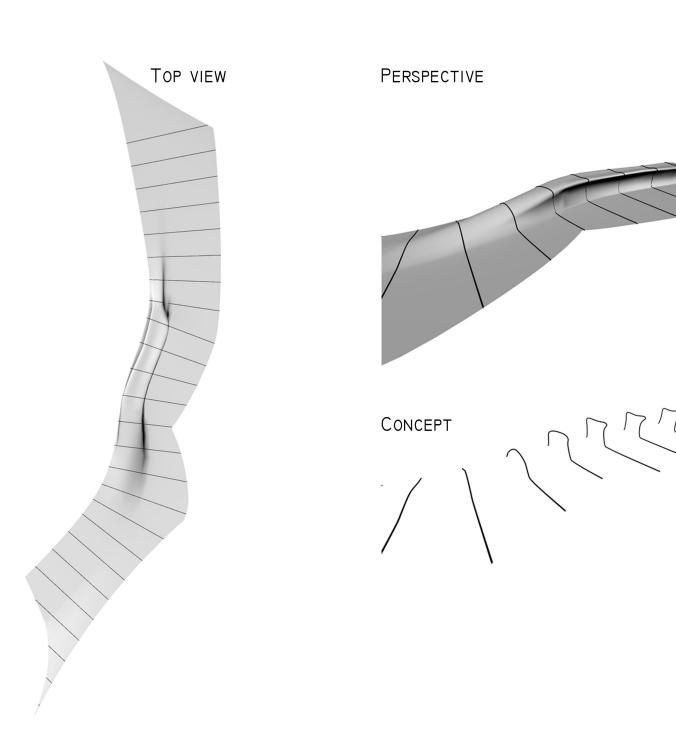










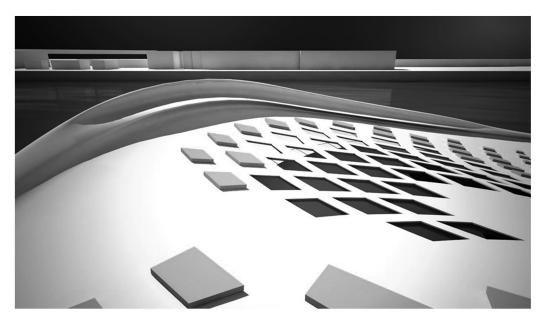


RAILING MORPHS INTO BENCH

RESULT

CONCEPT

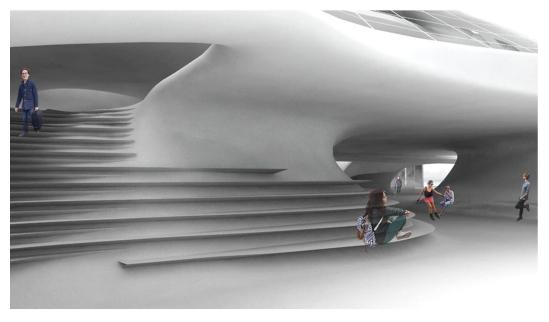
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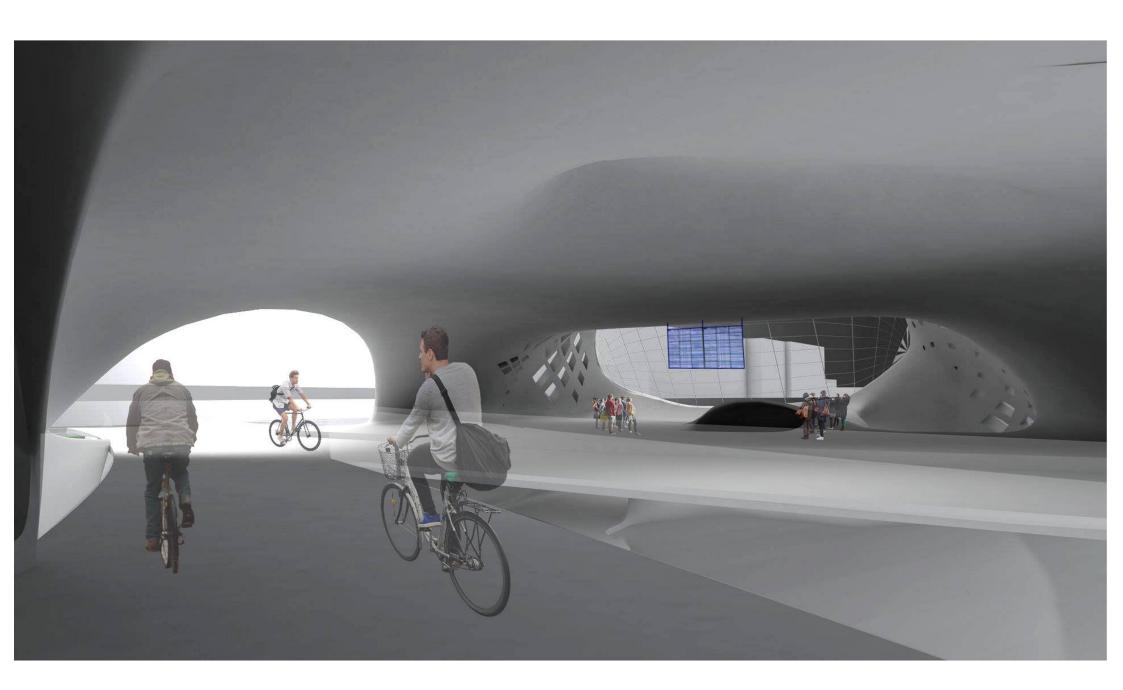


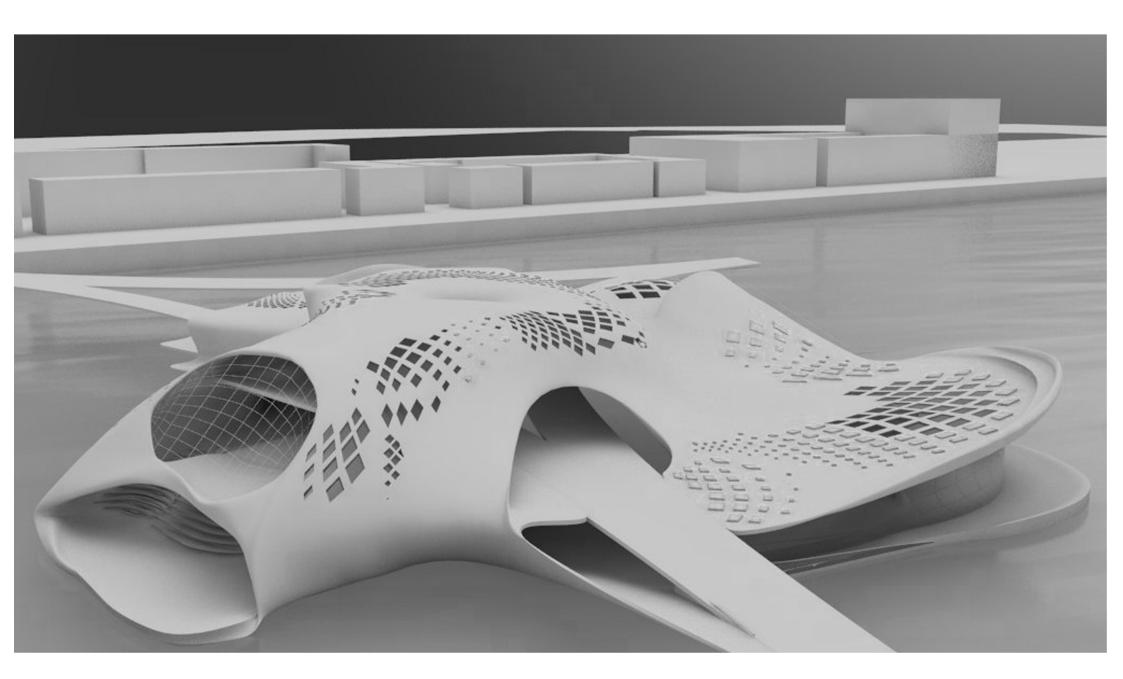
BENCH DISSOLVES INTO RAILING

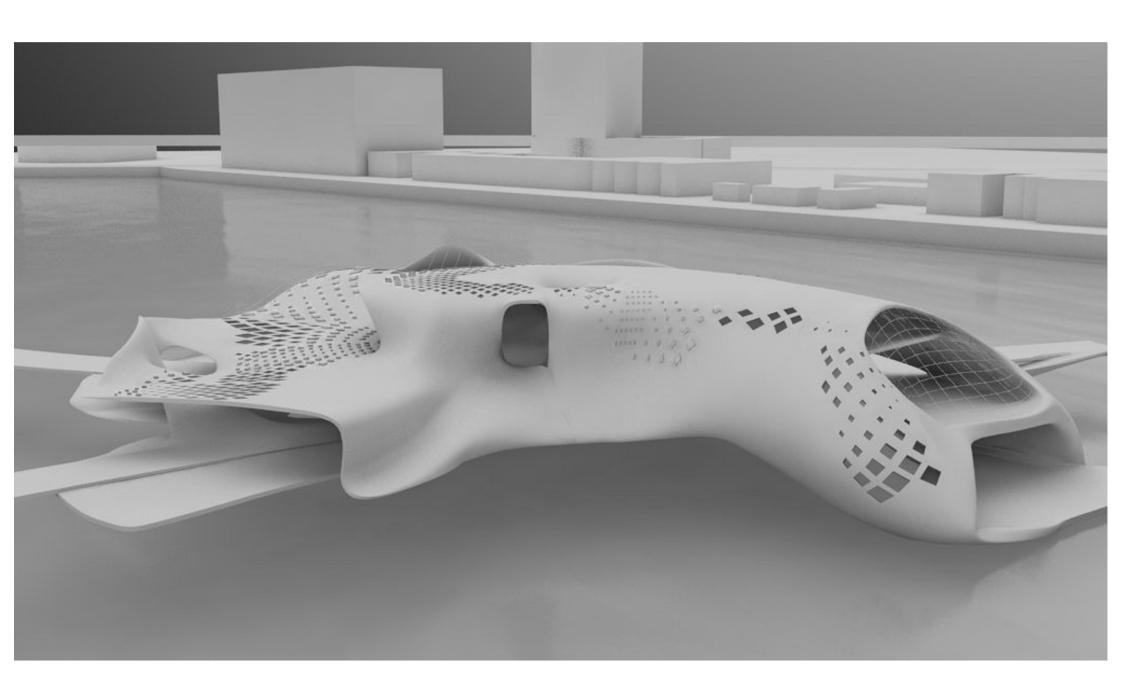
WATER TAXI LEANING INTO SEATING WALL













THOMAS MOEKEN | 4002709 | 11-12-2015

HENRIETTE BIER | NIMISH BILORIA | KAREL VOLLERS | SIEN VAN DAM