

# 





Life Magazine, 1955, celebrating Throwaway Living



Seahorse latching on plastic cotton swab, 2017, Justin Hofman.

### Plasic Consumption

Just over a century ago the first plastics made from fossil fuels

became available. They came into widespread use after World War II and are found today in everything from buildings to cars to food wrappers. Their useful lifetime varies. Once disposed of, they break down into smaller fragments that linger for centuries.

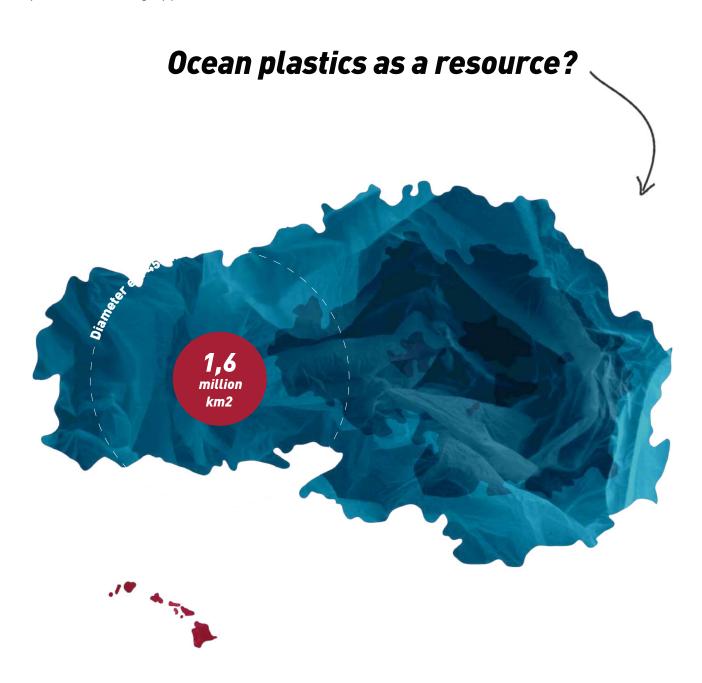


### Plasic soup

There are five large rotating sea currents in the world, these are called 'gyres'. These giant rotating currents accumulate plastic waste by the rotational force that slowly 'sucks' the plastic waste to it's center core. The assumption that these accumulated

cores are giant floating islands of plastic are very false. Although not as visible as one may assume, the problem is not less dramatic, in-fact in many aspects it makes the problem harder to identify and even more difficult to solve. Part of this issue is that plastic does not dissolve, but slowly disintegrates due to sunlight, oxygen and the movement of the oceans. In this process, large plastic elements that we can identified slowly break down into smaller pieces and continue to break down to the point that we cannot see it with our own eyes, these units are called microplastics. The process of fragmentation doesn't impact the amount of plastic in the ocean but it changes the composition of the plastics.

The process of continuing fragmentation causes major environmental problems; they are impossible to remove and are infiltrating systems and living organisms more and more. For stake of this research i will focus on the fragments that can be collected, and search for possible building applications.

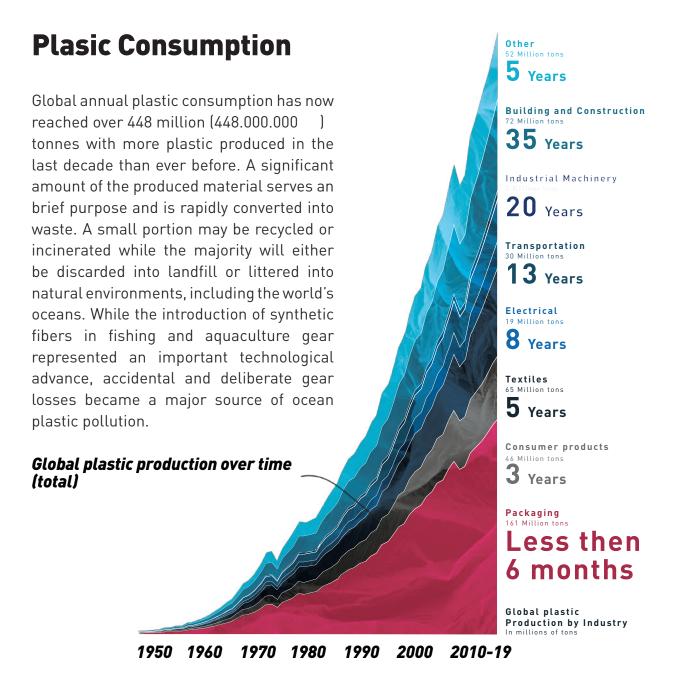




### **Throwaway plastics**

Plastic is a reflection of the throwaway/ disposable society that took wind after the second world war. More and more traditional products are being replaced with plastics. Products made from polyethylene plastics are often stronger and lighter than products of glass of ceramics, with a modern design and funky colors, these new products made their way into every day households.

Our society surrounds itself with plastic products, never before in history have so many products been affordable for such a low cost. Plastic is has made mass production possible on a new scale. Due to the low cost of plastic products people can afford to have it easily break of only be used once.



# Global annual plastic consumption has now reached over 448 million tonnes with more plastic produced in the last decade than ever before.

The largest market for plastic today is for packaging materials. This category also accounts for nearly half of the plastic waste generated globally.

The useful lifespan for many of these products can be measured in minutes,

whiles other applications can be much more sustainable. Especially in building and construction plastics have a vastly longer lifespan - up to 35 years.

### **Throwaway plastics**

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# Wonder-material for mass consumption

Never before in history where so many products for dale for so little money. The majority of these products are from plastics. Consumers are flooded with products that they don't meed and whose lifetime is very short. Plastic is the wonder-material for the mass consumption.

The United Nations has calculated that between 22 and 43 precent of plastics used worldwide end up on landfills, which is a reasonably big waste of natural resources.

### Disposable dominance

since the eighties, the world production of plastic has increased by factor five to six. The fact that plastic often have a short lifespan plays a big factor in the increase of plastic production. This is especially applies to packegingmaterial and consumerproducts. These plastic packaging accounts for roughly 40 procent of the worlds production of plastics. Everyting that is produced from plastic becomes waste at a certain point. Plastic products that last a long time are a exception. The avrage lifecycle of cheap plastic products is short. many of these products are even designed to have a short lifecycle, encouraging a more rapid consumption of cimilair products.

# Platic as building material

The materials in a building can generally be expected to last 30-50 years without change, but plastics itself can last much longer. Recyceling plastics in the building and construction sector minimises the fequency to recycle new products.

Plastic's flexibility, durability, light-weight and performance make it the sustainable choice for building and construction. Using these materials is essential if we are to reduce our impact on the earth. It is also essential if we are to achieve a more resource efficient, circular economy.

### **Royal Dutch Shell**

Shells conection to plastics is fundementilly rooted within the natural recources it mines. Oil and naterural gasses are the primairy raw materials used for manufacturing plactics.99% of platics produced are made from chemicals sources from fossil fuels. Because plastics production is part of the fossil fuels suppy chain, companies like Shell own plastic producing facilities. Even though most of the fossil fuels mined by shell is used for energy production and transportation, with the high demand of competitive clean energy solutions, Shell wil become more riliant on the production of plastics in the future.

### **Throwaway plastics**

The Ocean Cleanup is a Dutch non-profit organization set to developing and applying advanced technologies that rid the worlds oceans of floating plastic. The main idea behind The Ocean Cleanup is to let the ocean currents do the work. An installation of U-shaped screens channels floating plastic to a central point. This way plastic concentrates and can easily be extracted and shipped back to land.

The Ocean Cleanup initiative has deployed it's first full-scale cleanup system on September 8th 2018. The Ocean Cleanup anticipates that the first plastic will be collected and returned to land within 6 months after. This marks the first time that ocean plastic will have been successfully collected at sea. After returning the plastics to land, it can be recycled and redesigned.

### **Shell Chemical / Polymere**

The plastics production process often begins by treating process." This process results in the conversion of the as ethylene and propylene. Further processing leads chloride, ethylene glycol, terephthalic acid and many into chains called polymers. The different combination properties and characteristics



### Use & Disposal

Plastic has become a major part of our society due to versatility allows is to be used in everything from buil they are stored in. So how is it that plastics have be dominating material for so many varied applications? at economical costs. Plastics have the unique capability.

g components of crude oil or natural gas in a "cracking nese components into hydrocarbon monzomers such to a wider range of monomers such as styrene, vinyl others. These monomers are then chemically bonded ons of monomers yield plastics with a wide range of



how dependent we are on it in day to day life. Plastics dings, car parts ,soft drink bottles to the refrigerators ecome so widely used? How did plastics become the Plastics provide the things consumers want and need ty to be molded to most needs that society has today.

### **Material Processing**

There are several different processing methods used to make plastic products. There are four main methods in which plastics are processed to form the products that we use and build with, such as plastic bottles to facade cladding to piping and food wrappers. All methods start with pallets produced in the polimirization process.

Extrusion: In this process the pallets are fed into an extruder, which is a long heated chamber, in which the raw plastic is forced. By melting the material and pressing it through a small opening at the end, it results in a shape of the finished product. These methods are used for producing window frames

Injection: In this process the pallets are melted down to a liquid state. The resin is then forced into a cooled, closed mold. After cooling to a solid state the product is formed.

Rotational Molding: In these molds are mounted on two moving axes. The molds are filled with pallets and melted down to a liquid by heating the mold. By rotating the mold a uniform coating is formed after cooling the product is done.

### **Distribution**

When the plastic product is not the end product itself, distribution takes a detour to a factory that uses the plastic product to serve the initial product, food and household products are clear examples. After this step the plastic products are available for consumers.

# **501**

## Architecture Movements

- Gothic

- Renaissance

- Baroque

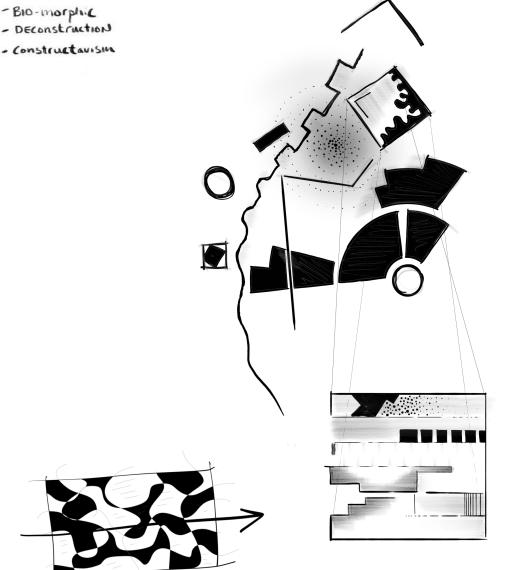
- Neo-classical

- Modernism

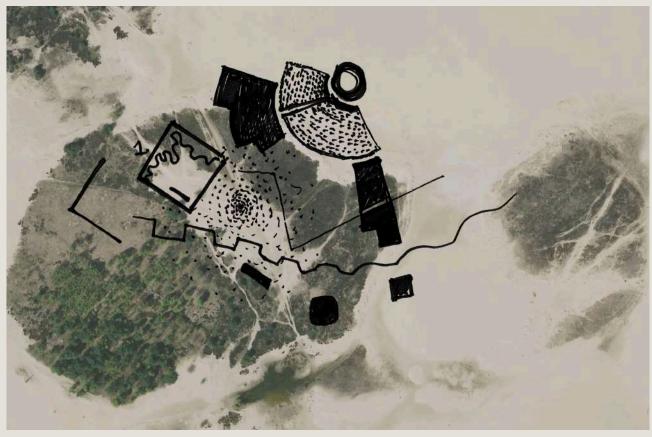
- Bauhaus

- Bratalism

- Brothic





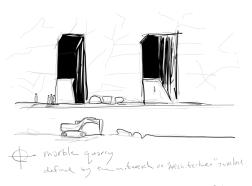


## \* Materiality.

ARCHITECTURAL APPROACHES TO MATERIALITY

- · PROCESS
- · AGGREGATION
- · PATTERNING
- · GEOMETRY
- · TECTONICS

### MATERIALITY AS A NERRATIVE



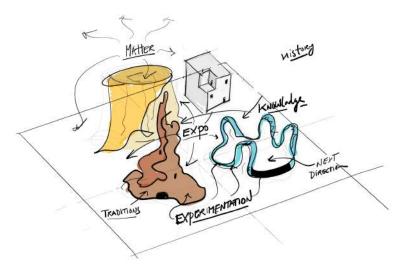
- PROCESS
- · Aggregation · pxtteaning
- · Gcometry · Tectonics

### & Theames

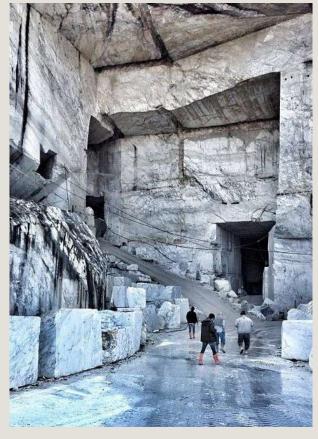
"Each muterial has it's specific caracteristics which we must understand if we want to use it. This is us
Less True Fox steel and concrete"

### material themes:

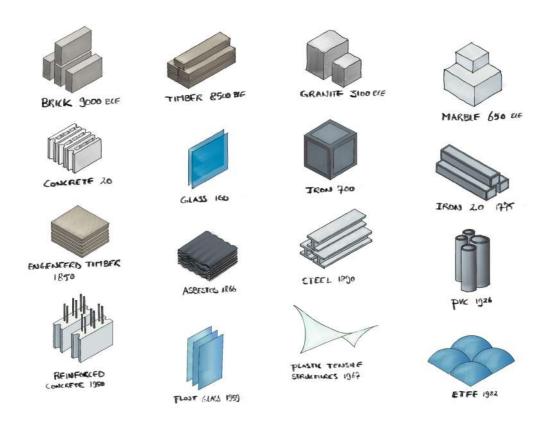
- · process posibilities
- \* Manipulation
- · proporties
- \* performance
- · Transformation
- · Natural processes
- \* Material application
- · synthesis
- · inovation & fabrication
- · premise
- · Material space
- \* Tectonics

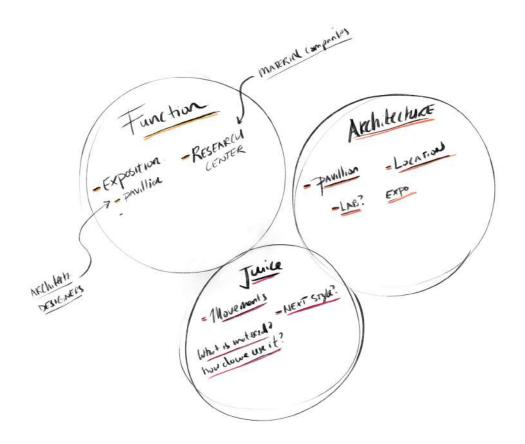


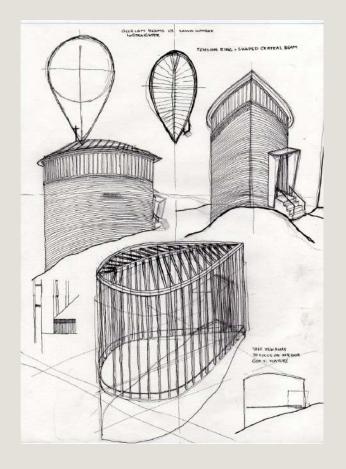








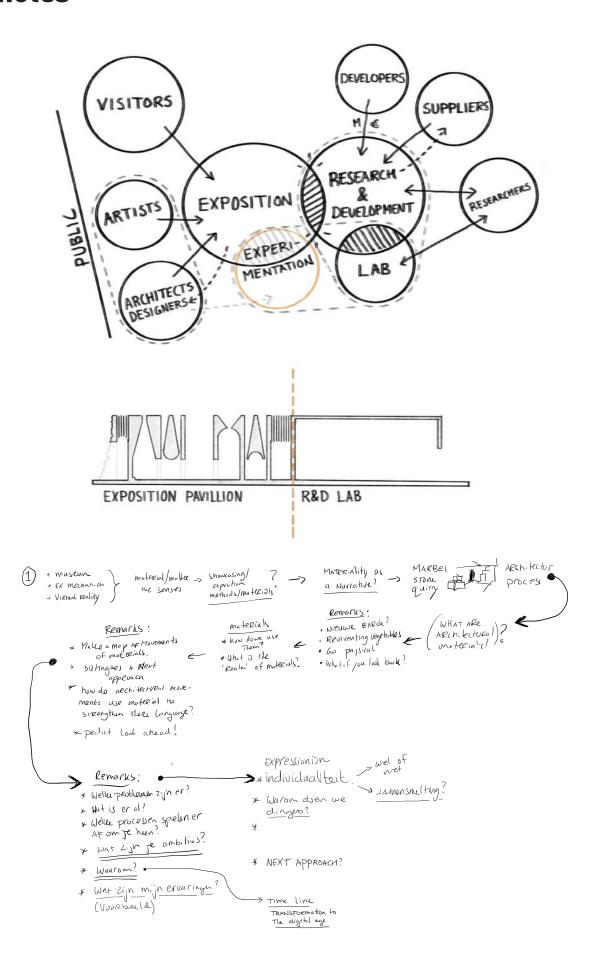








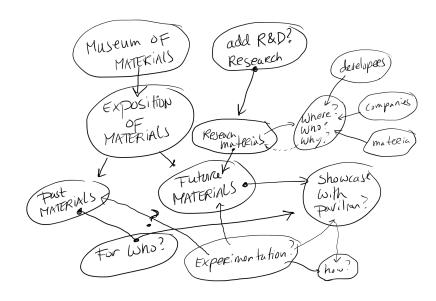














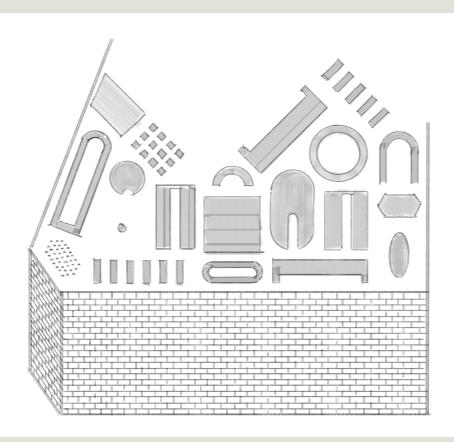
Ledoux, Haus des Gaertners, 1789

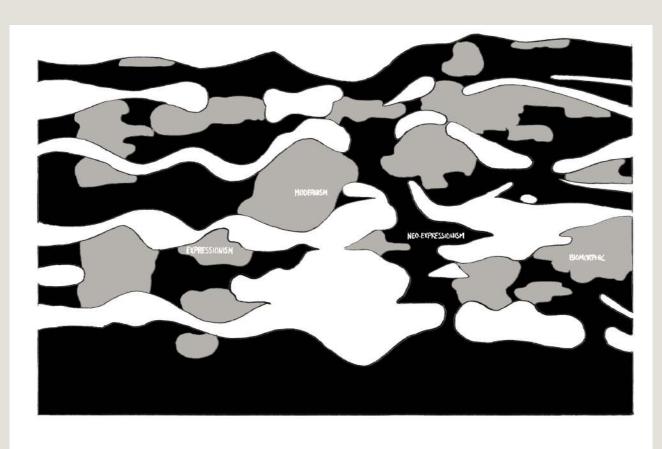
- ◆ NATURAL MATERIALS
- INDUSTRIAL MATERIALS
- SYNTHETIC MATERIALS
- \* DIGITAL MATERIALS
- \* SMART MATERIALS

Fach Material has its spesific characteristics which we must understand if we want to use it. This is no less true of steel a concrete."

MATERIAL PROCESS MATERIAL AGGREGATION	ARCHITECTURAL A	APPROACHES	
MATERIAL PATTERNING MATERIAL GEOMETRY MATERIAL TECTONICS	SKETCH DESIGN W	1 SCHEME	
TIRTENIAL JELIUNICS	MATERIAL CATAGORIES		
	REFERENCES CO	NCEPT DESIGN	

When you are designing in brick, you must ask what it wants. Brick will say, I like an arch. you say, but arches are difficult to make, and are expensive, brick will say: I like an arch.





# Survey

### Presentation Survey Design

Survey of urgencies + sites + assignments + vision.

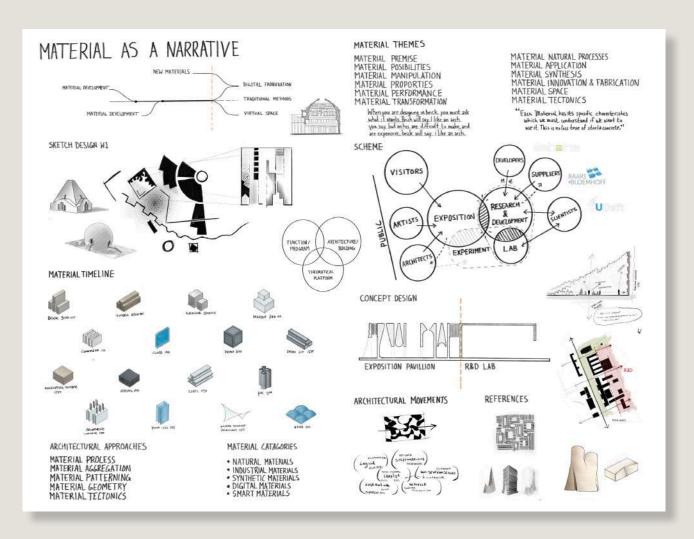
Format is free: booklet, film, documentary, model, newspaper, brochure, website, etc. The logbook. The survey is supported by an essay of 2000 words. It is a vision that reflects ahead from research towards project with the authentic position of the designer. The tutor has been planned ahead of this presentation and is present.

Shares the discoveries and conclusions of the survey and analysis phase with the studio. It includes a proposal for wo external examiners (for both one preferred and one in reserve): motivated and linked to the subject.

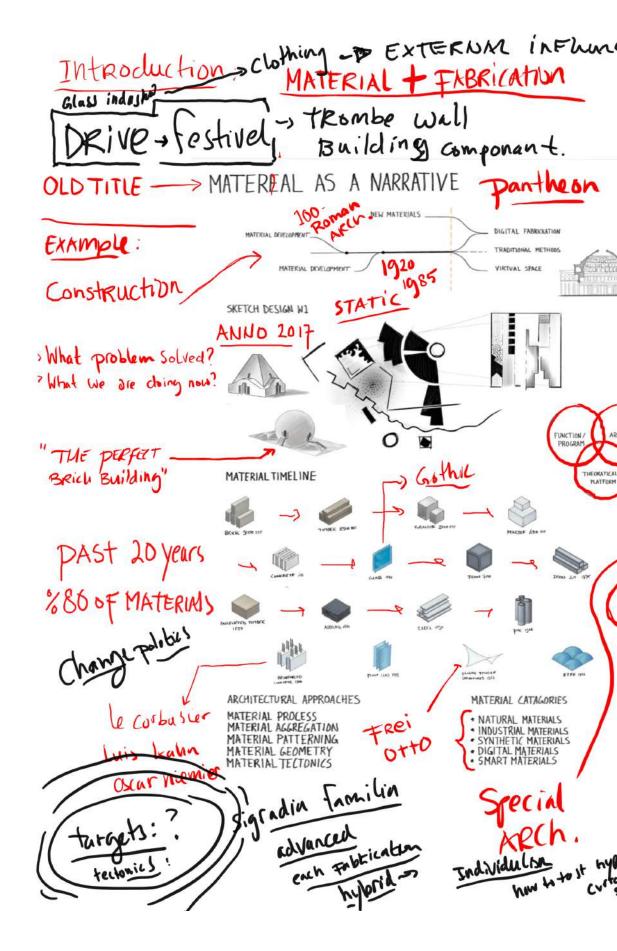
Participants apply a parallel working process: individual or in sub teams under their own hypothesis. At the same time an individual process takes place for the individual hypothesis that slowly will get shape and will be described and documented in the next phase; the project specifications.

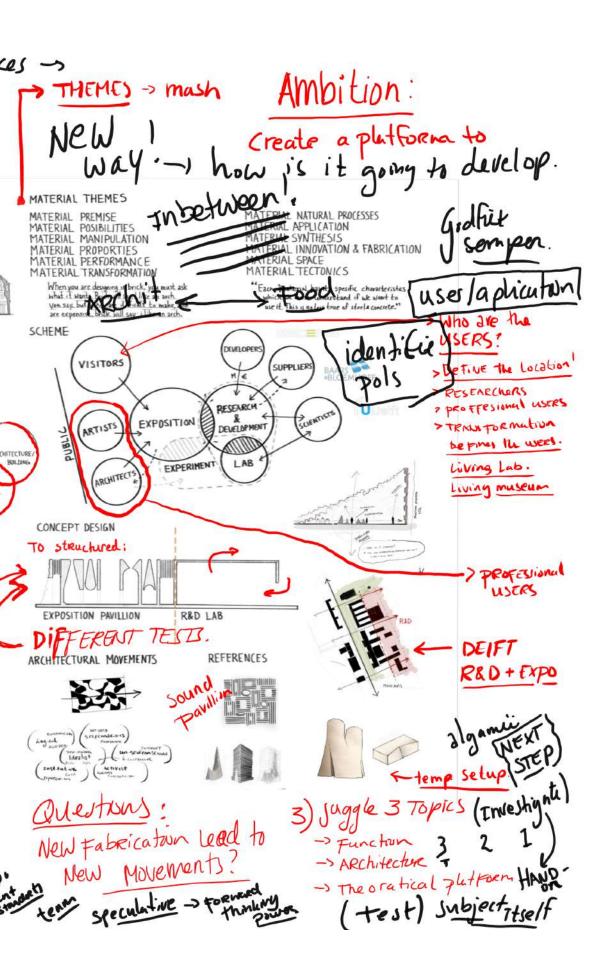
Emphasis in this phase mainly focuses onto the team and/or individual hypothesis. The basic mindset is positive-critical to reflect and interpret the hypothesis.

The process goes from memory (history), via analyzing and comparing, understanding, interpreting and evaluating to applying and creating (future).



### Poster 1





### EXTERNEL TUTOR

1st choice

NAME: Robert Henderson

FUNCTION: Development Director EDUCATION: MArch - University of

california.

EXPERIANCE : UN-studio - Architect

2010 - 2017 : Associate Knowladge Research

Coordinater

Etcetera Design &

· founder Innovation

Director.

Experience in every scale Reasons!

of design and production

"passion for new materials, detail and the combining of components as key elements to achied noval and elegant design"

### EXTERNEL TUTOR

2nd choice

NAME: Peter van Assche

FUNCTION: founder and architect

EDUCATION: MArch - University of A.S.

Rotterdam

EXPERIANCE: bureau SLA - Architect

2002 - now - Principal

"Buro SLA gives shop to rapidly changing Society Reasons:

by desinging, researching. Inventing and building

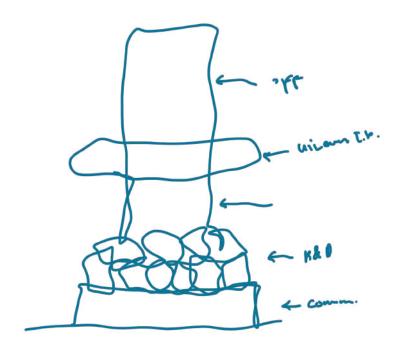
SLA Invented and Build The people pavillian with 100 % Borrard meterials with an Immo Vating Recycled Plastiz Forade

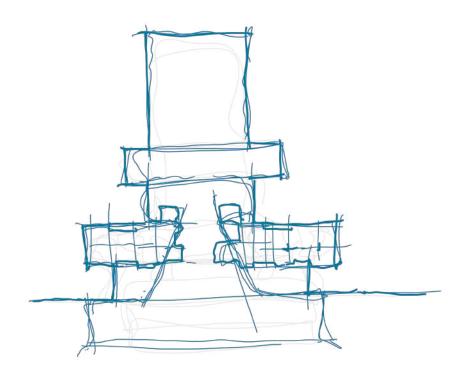








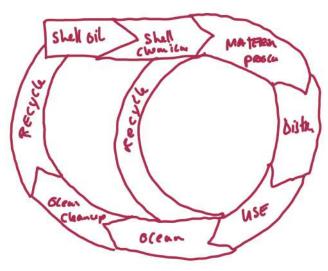


















## PROGRAM

## OFFICE

- · Office space
- · Conference rooms

## PUBLIC SPACE

- · public Green
- · visitors center
- shell shop

## RAD

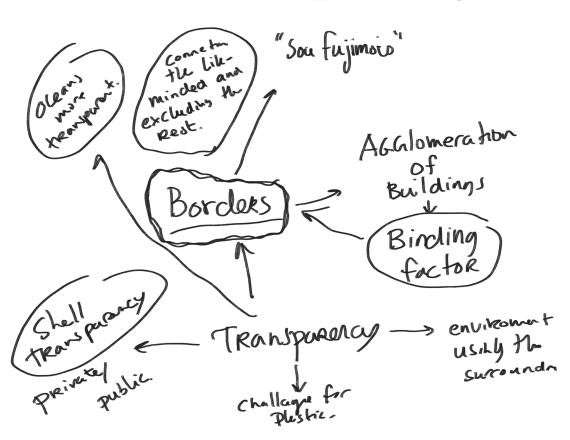
- · Research and development
- · Auditorium space
- · incubator space

## - Mhat ii

- What is the relationship between Shell as a company and plastics?

RELATIONS

- What Responsability Do they have for plastic waist/polution?
- AMENITIES:
- · Cafe
- · Coffie bar
- · Fitness facilitie
- · Lodge / Resting
- · parking
- In what way can plastic be used as an architectural tool but also symbolic for sustainability & assefull as a markethy tool.





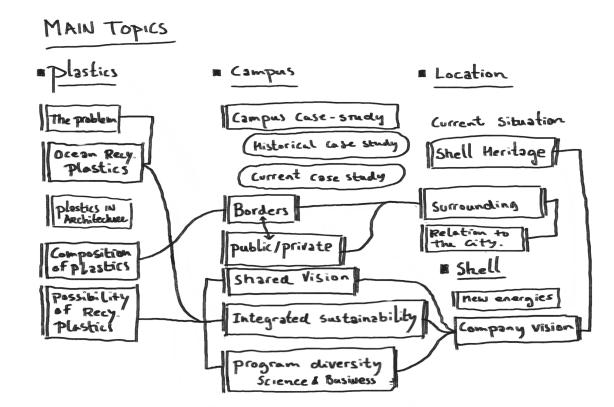


## Hypothesis.

World's largest fossil fuel companies takes it responsibility in using and offering solutions in using movement of plastics as Building material for a new sustainable trub for Immovation and development of new Future energies.

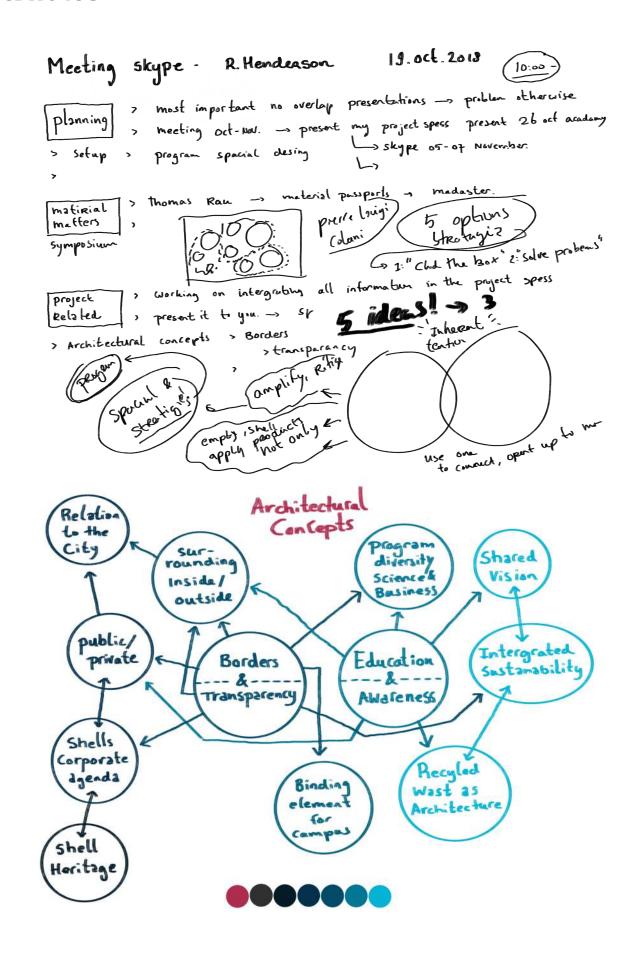
### Research Question.

Can Ocean Recycled Plastics Be Re-usea and Re-desitynd as the "Binding factor" for shell's new Energic Campus in the Hague.











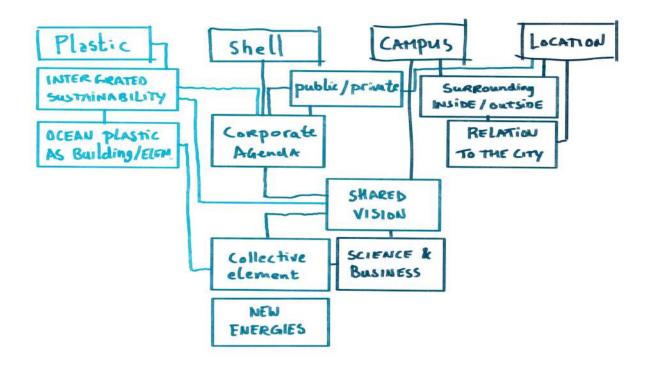


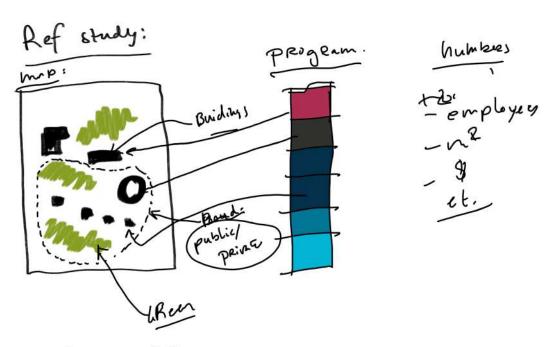
## Design task

- · Binding factor · plastic intervention - Borders New Primairy Secondairy · Research & monumental · facilities: Lodge, Development Buildigs Cofe, plaza, Bar, · Office space · What to keep! Hotel, Fitness, o visitors center o conference · incubator space · anditorium.
- Campus Architecture Cambridge The Collegiste Atmosphere
   Historic Case study
   The corporate compus
   silicon Valley model
   Borders & Transparency
   public & private
   corporate azenda
- Awareness & Educating
   Intergrated sustainability
   Science & Business programmatic dyversity
   Common ground/shared vision









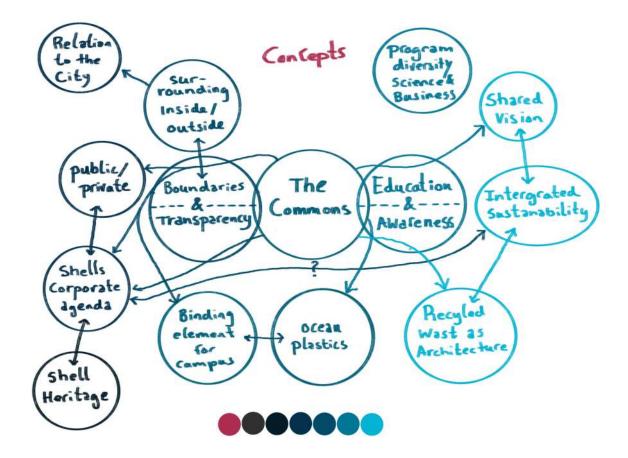
-existing Buildings?



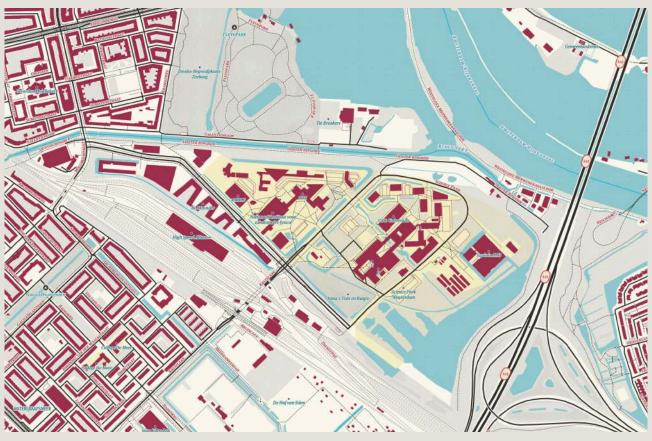


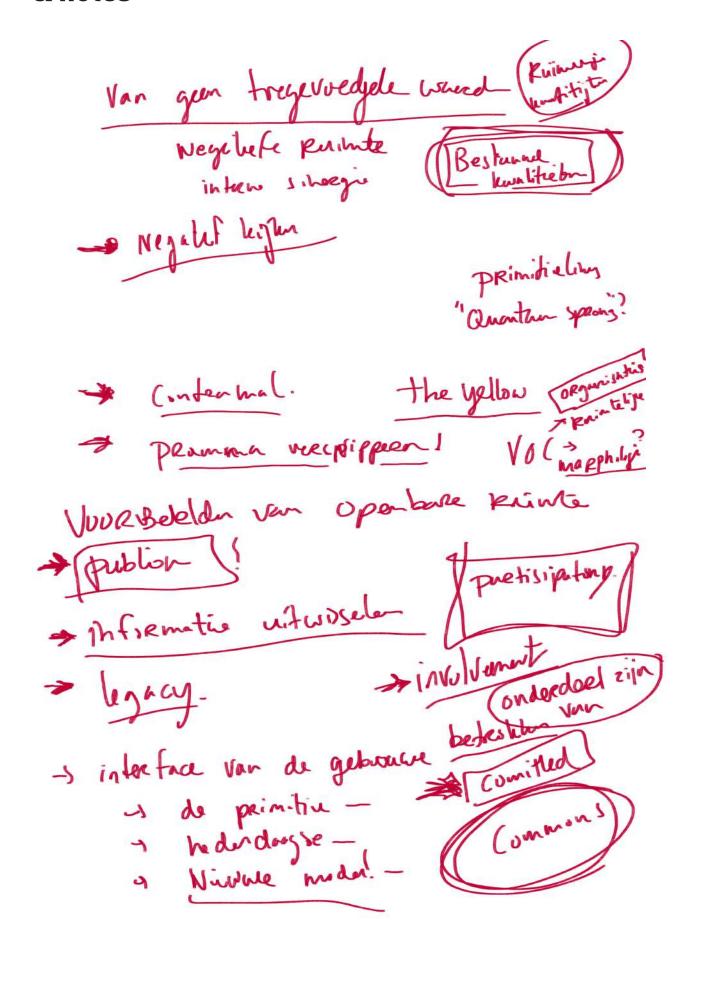
## Tutor meeting 26.10.2018

- planning.
  - · update
  - meetings Do -> Exam
  - · presentation . 21 December?
- · Research
- · Asigment
  - · Desing task
  - . Architectural concepts
- Questions
  - · Contact shell shared vision
  - program



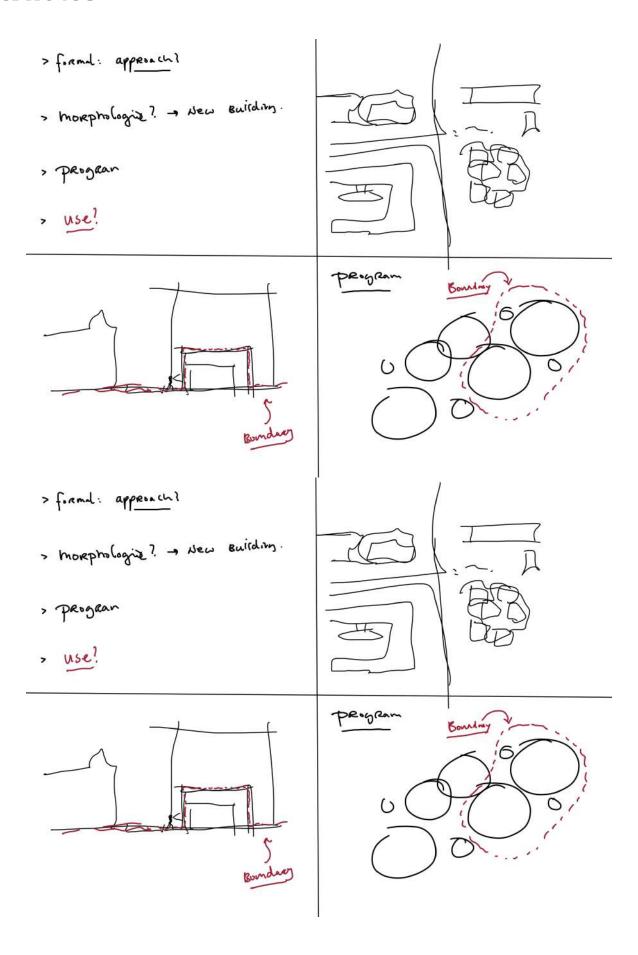


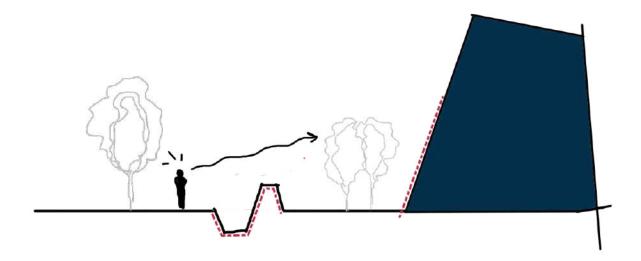


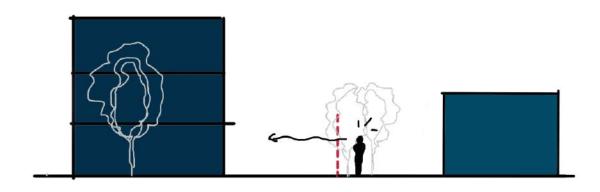


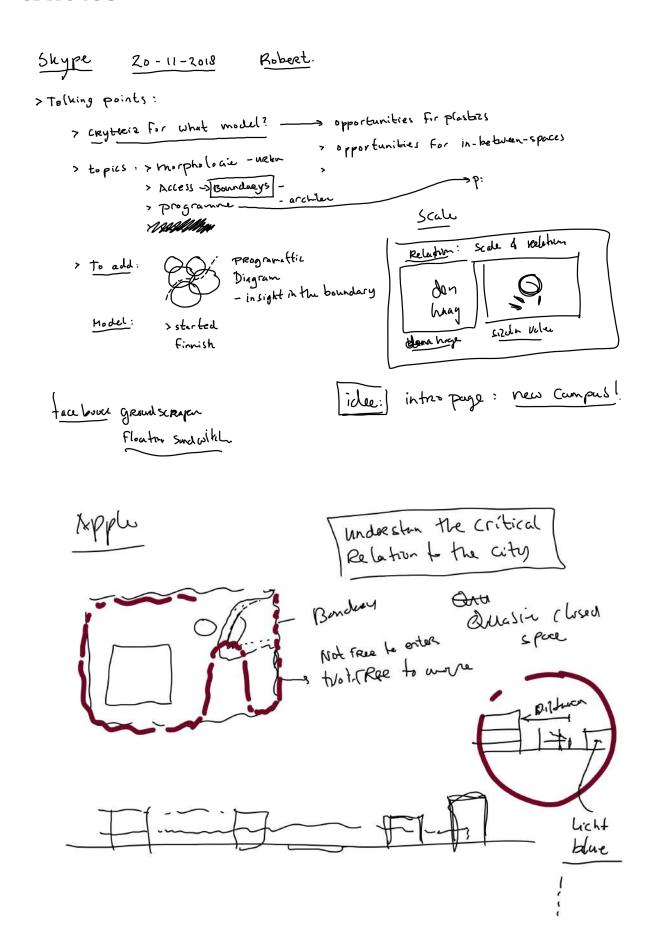


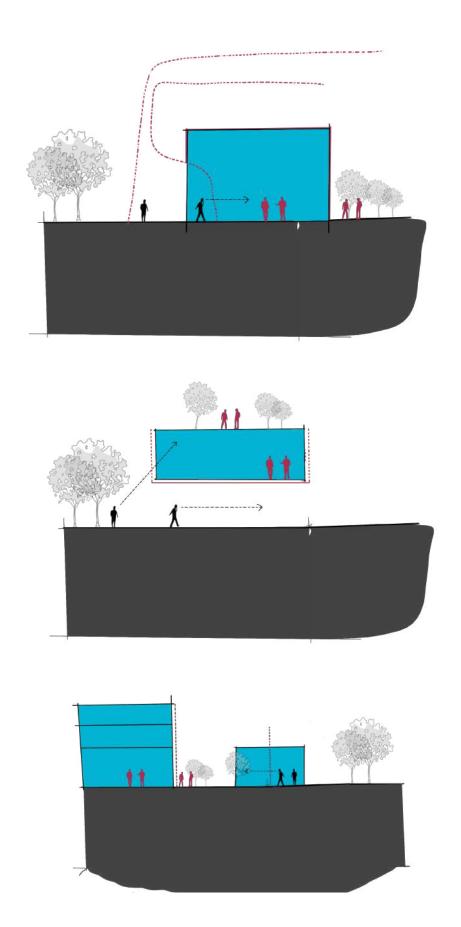


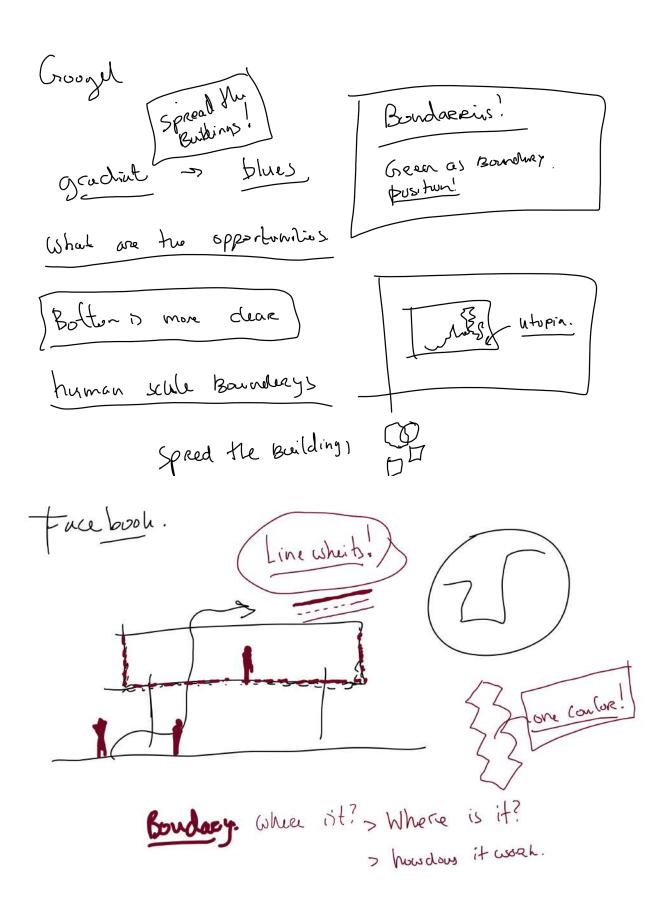






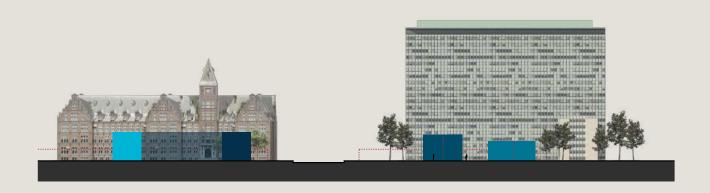












## Presentation Spatial Design

Conceptual design on all urban and architectural scale levels. Comprehension, reflection, perspective, creativity, new ideas.

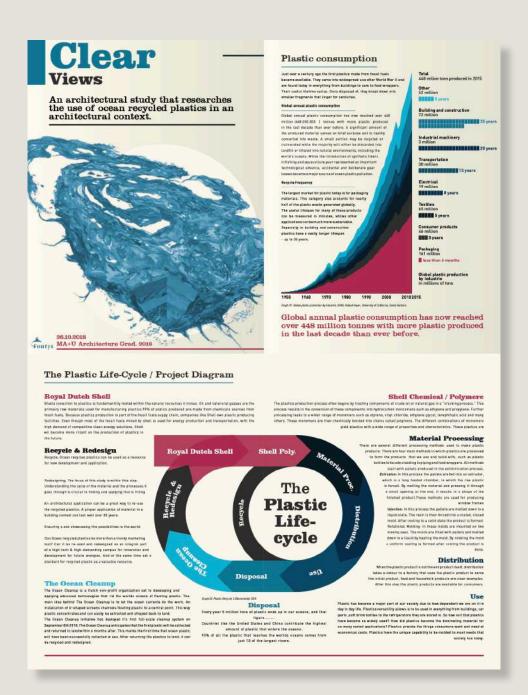
Format: a minimum of 3 x A1 landscape 200 dpi, an urban model and three inserted conceptural models, the logbook and all further material (drawings, sketches, diagrams, etc) according to personal understanding, the 1000-word essay. Scale levels 1:2000, 1:500, 1:200 or different if required.

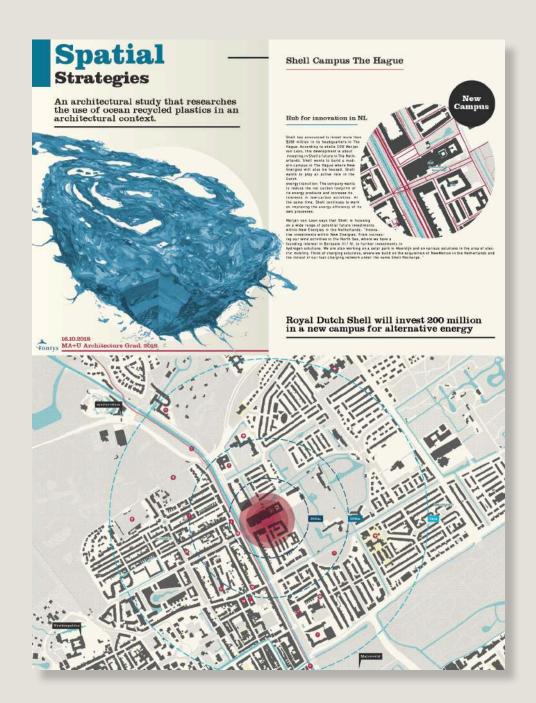
Three different concepts are presented within the site and context, including an assessment to proceed with the best concept. It is about the outcomes of three different approaches and not three alternatives of just one approach.

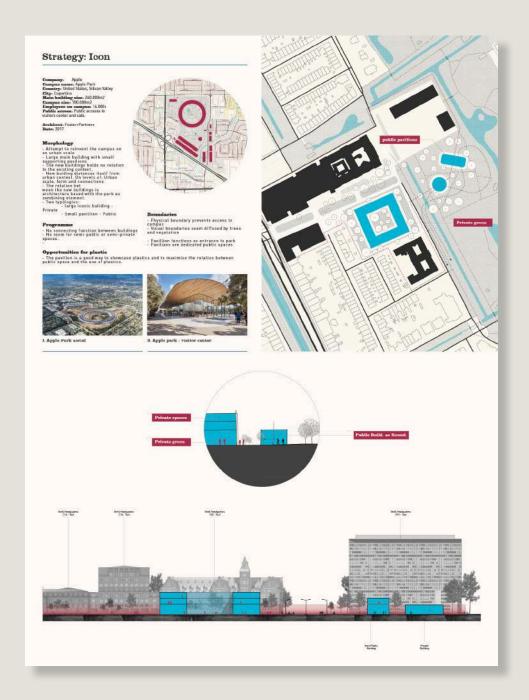
The elaboration and testing of programmatic requirements on site in urban and architectural perspective make the basis of project development.

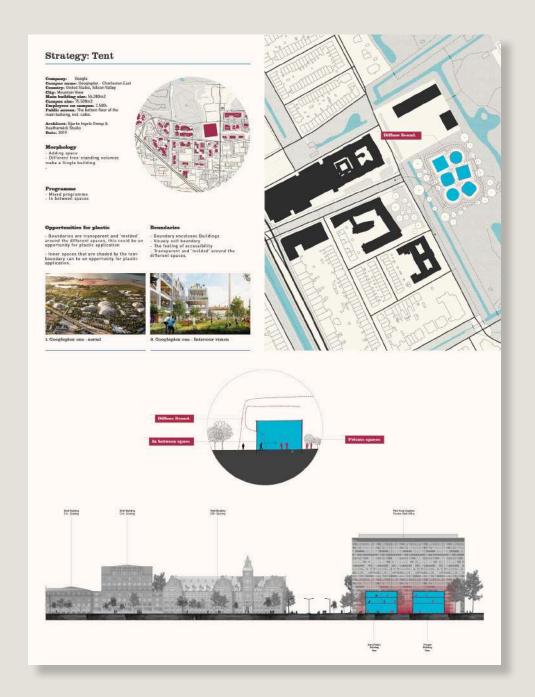
Programmatic requirements can be constructed by analysis and interpretation of a number of well chosen reference projects.

It is not just a programmatic translation, but also urban, landscape and architectural themes, as spatial qualities are integrated on urban and architectural scale levels.

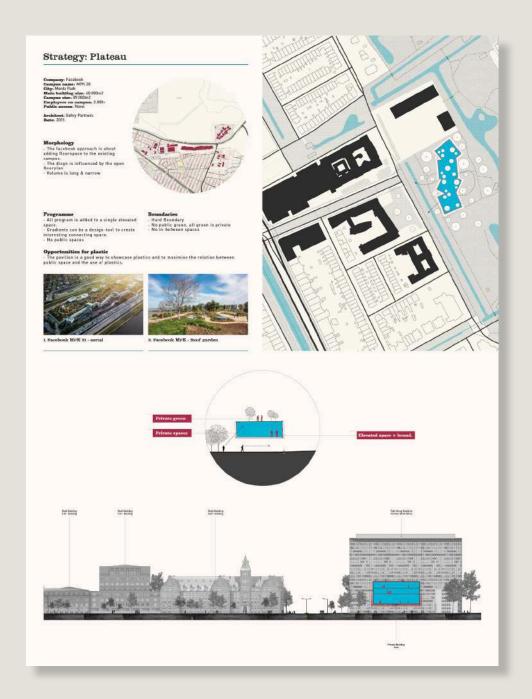








Poster 4



## Presentation:

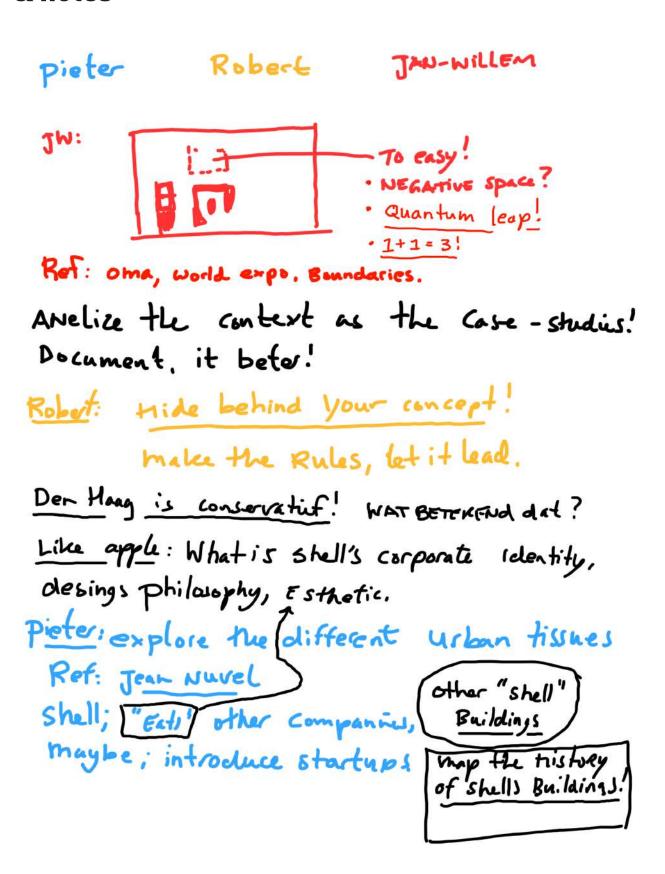
- · Introduction -> Robert Development Director-
- · Not to focus ocean plastics, But:
  - spatial strategies, programatic streetign -
  - LEAD TO RIGHT Entervention For the material.
    Application
  - TNO Reasons:
- · plastic consumption arowing exponentialy stront life spun
  - Recycle in Buildings! 35
- · fossil fuel companies -> 20%

[Shell CAN BENEFIT From using Plutics]
Apply & Thnovate with its own material.

- · plastic litecylle.
- PARAITEL TO THIT issue Shell announder to Build a New
  hub for Sustainable Energie sourcess
  in the hoge
  - plastics, for this hub Building material. But First! Programatic & spacial InFluences.

# Campus!

- · Campus Desingn isn't limited to the Academic Realm.
- otenn' corporate campas Speaks of a shift in how Businesses WAN+ to profile themselfs
  - \* This new model has Requirements however: must be: Photogenetic
  - ·Silicon Vally model: Values.
  - · Clearest example of this.
  - Sports, health care -
  - Focus -> Retain talented staff
    "Bubble World"
  - "palaces of inforomality to house Workers driven by a belief in a technology driven utopic"



## To do:

- · Find out more about Shell,
- · Find ont more about the Buildings, Like the rof · Map shelli Behavior, make conclusions
- · make an approach .- "Hide Behind your rencept!"
- · \_\_\_\_ go wild!

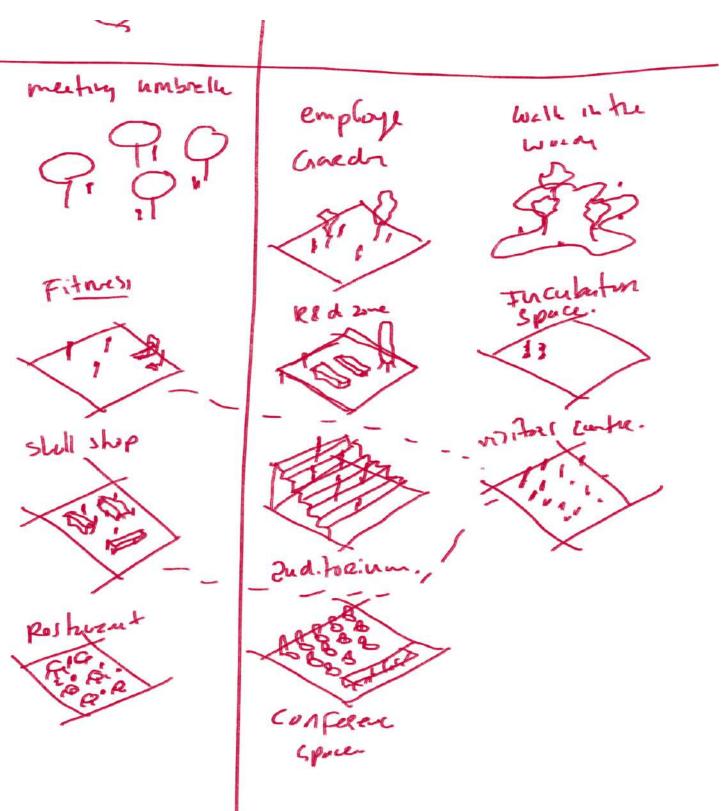
## IDEAS:

- · MAP Shell Behavior, Building Lo
- · Map shall historie, Attitude

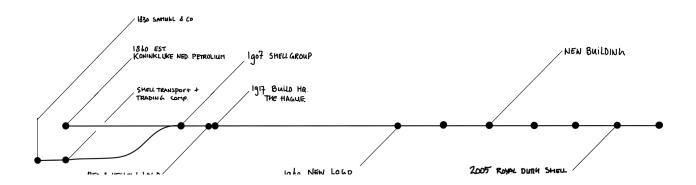
# to de general:

- · Conclutions, case studie
- · Work on pagramme diagram,
- · 3d environment.

Zones meeting meditation espesi Bushle preme Shell Generation (ampu) Soap Dox Euning peal. Roce Vshill eco marahin Stell museum



## Misbrie of shell Ige eeuw Samuel & Co. (1830) -> Japanse Schinsschelper./\_> Lampolie Shell Transport Trading company Igoo mossed schily - s et jacob. 1907 N.V. Kaninklijke Nederlandse patroleum Maatschappij + Shell Transport. - Koninklijke/Shall Grosp. 1915 Shell Company of California. > Spanner bonds -> Road/Geel. 2004 -> transperantir en aanspreekboursheid. Cour -> Royal dutch shell plc. -> toofdkentour den haag. 2015 -> oost dund introllleling. Sep. rut, was, Dec. Jurre van Driel Contact Shell - 070-3779111 Begin vorige mound -> Omwonende bijeenkust has M.B.T. Campus - ontwikkelingen. JURRE VAN Driel. Programme Manager Ha Rødevelopment chell Real Estate -> student Academy bouwward a blbue- Mastel of architecture - parrallel project -- theoretisch Rankvluk. Case atstuder order zoel: - inzicht bestande Shell campus don Haog. - Beroek? more Real.



Plastic Fantastic 12-12-2018 MATERIAL DISTRICT.

Els zijlsten

2. therm pluster -> brodegeidble. > broplastics.

chelles. Ellen incontre foundation. - IKEA CHAIR.

duureaam heich i.r.t. lamens dux. leversdure strat i.t. Evepassing. L.C.A. Berdening.

STUDIO SIMONE PULL.

MATERIAL PASSEDET- Homos Kou.

Benaminger > onderwijs. L> marketing. ->

\* estheatica van gerecyclide producten?

→ golven van gereagelle de production, door de geschiedenis

→ Wourde von plastiz & AFKomsi?



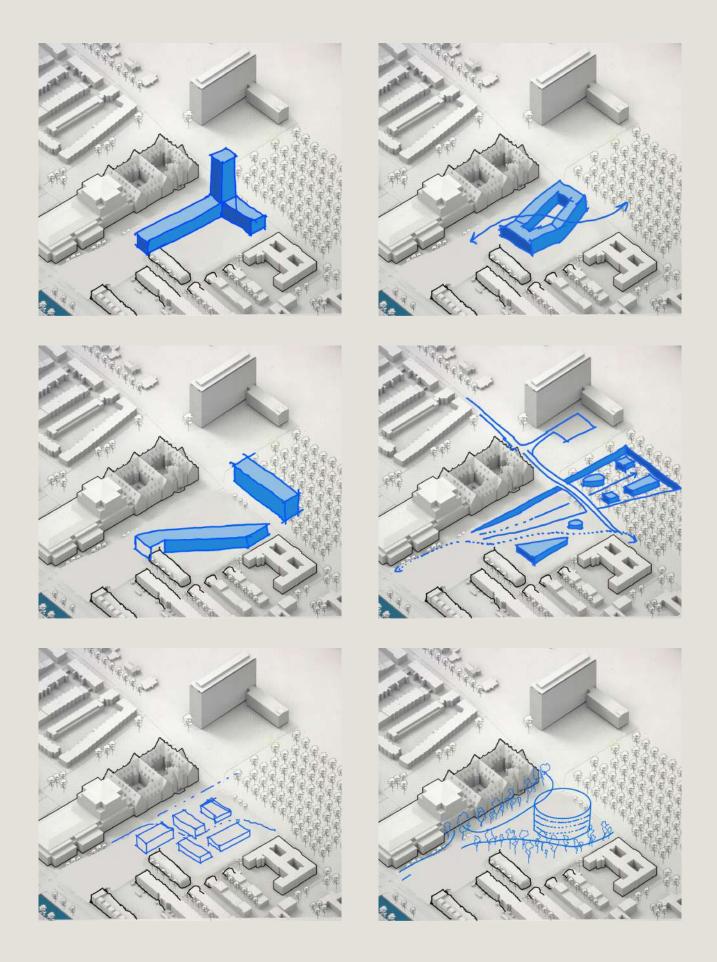


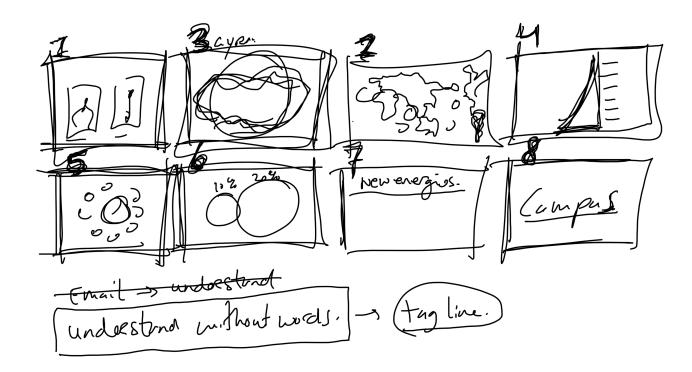


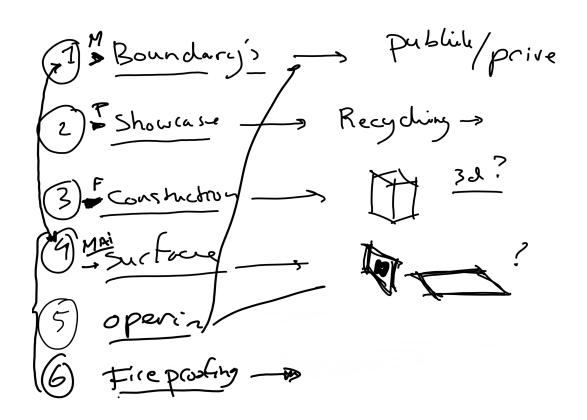


- e make your hypothesis clear in 3 secentrises.
- WIE ZIJN DE XCTOREN? -> Shell -> overheid?
- explore a larger terrain arround the plot.
- investigate in what way shell have Expundence in the city thoroughot of the begue.
- Check REFERENCE Koolhaus bienalle, overlap is What makes it introsting.

   taking away boundaries
- Shell has a culturore of gag(ou-cate, maybe ad startups to PROJRAM
- e dell's having no regard for it's suppounding, Discarting it's former in What way can shell expund, - negatile space? - Expend in it's current manner?





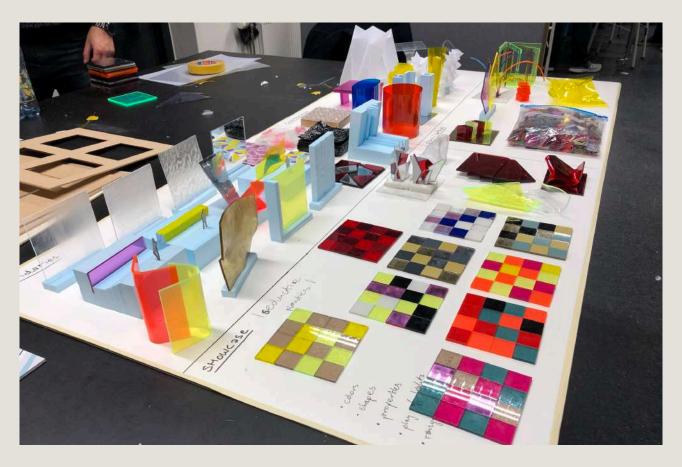




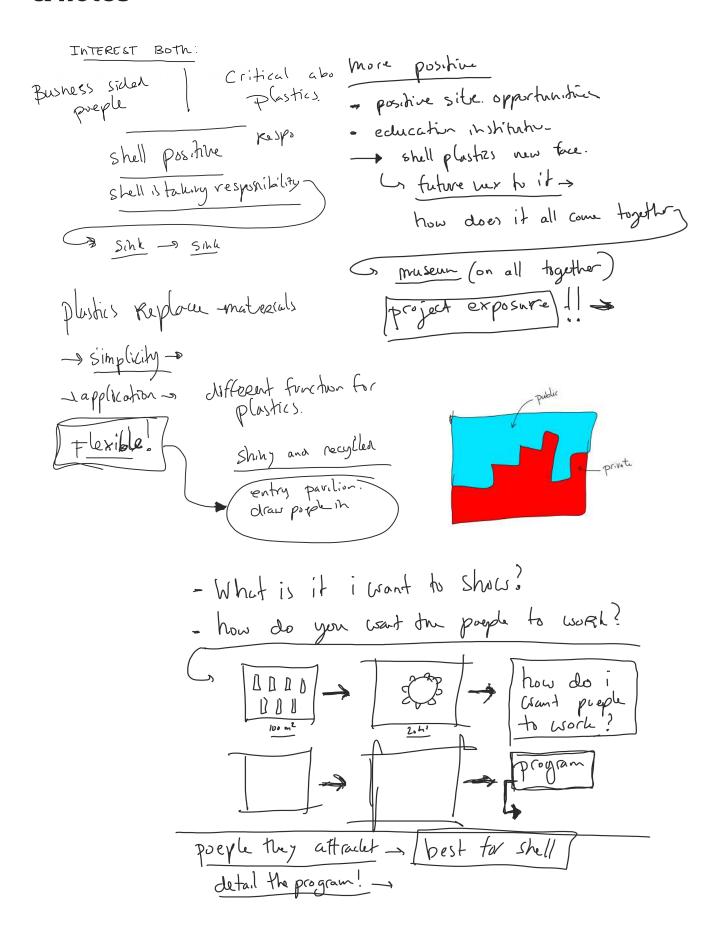


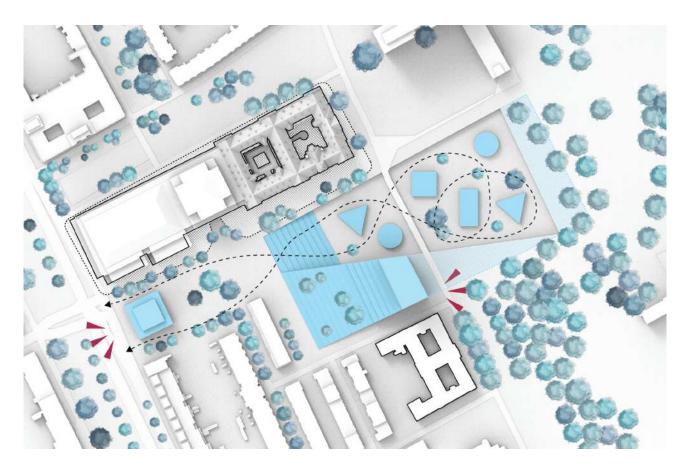
7 Acadamy - thank you. 4the master-> Rotterdan - little to stressele.
Resturt... hulpo Sebastiaan ... - Introduction, - Graduation - march -> April. - Working on document thesis, Disstilled Version, Rob \* @ Relationship with plastics. -> Comfort huse made us depond. - how dependent we have become - What it results too. - 3 ends up in ocean - problematic than Landfills. - Stopping the problem. -> 8 million tons-Time is of the essence "mipping the Floor with - ocean plastics is ar the top wide open" - 3 Ocean plastics as a resource. - sertain companies take advantge-s - treat it as a commons = cultural and natural resources accessible to all members of a society. - a plastic production - When we have a resource, we can start to think of applications - presure on Long-cycle applications.

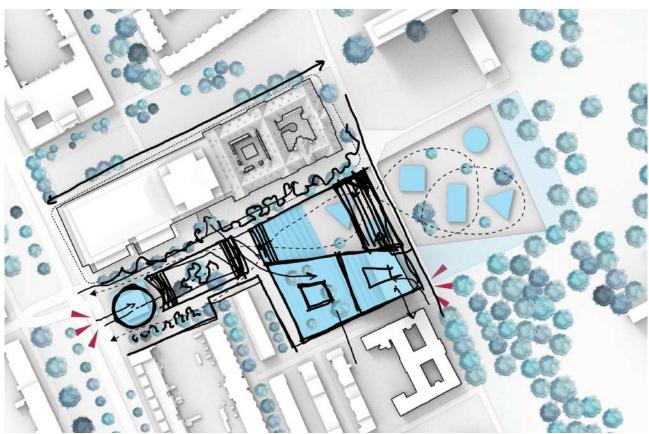
- 1) Relationship With plastics Comfort hase made us dependent -Result
- @-OCEANS
  -LANDFILLS,
  Mopping the floor, I
  time is of the eccence!
- 3) Ocean plastics as a recource! - lable it as a commons!
- When you have a recoarce you can start thinking of an application long cycle application!



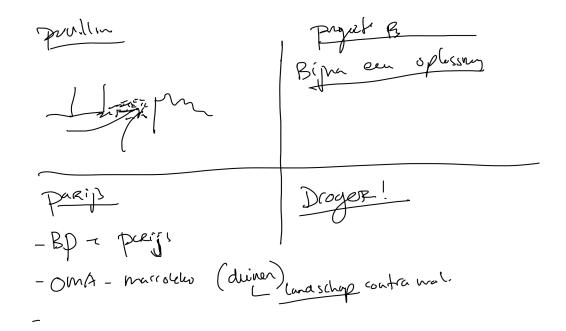


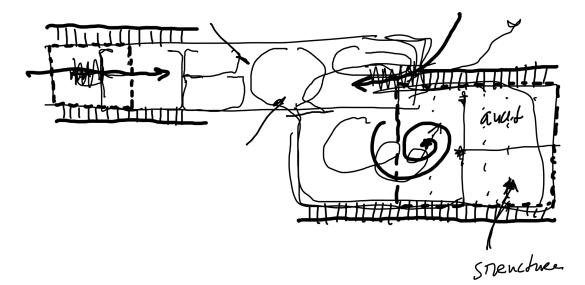




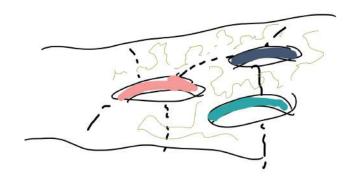


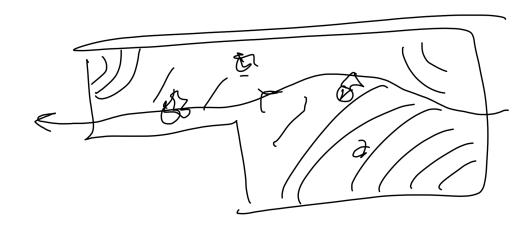
.2	
18-02-2013	
+ Winterschil	+ prelimining design.
TOTAL O BOWN	
- Grade: - 5	O-lock -
- Grade? - 5 - TAK - 9	Ruberic -
1 Could you use your model?	- present pages - Not traditional linear
	- Not traditional linear
=======================================	Line
+ N	
- Designa	X -
+ Designa Where are you on you're Desingue?/ Are you out of conceptual Desingue? - 40 %	-essence -storytelling.
-40%	0
_	- how is material used
+ Essays	
- now is the feedbach? -> do you rac	organized the community Institutions?
- your ossay is outdated?	but ass day
- Sources!	how are they used?
- architecture a topic? - do y	62 W. C. W.
-> do you need graphics? -> No!	- models are just a repreduction?
The second of th	a repreduction?
tip: Make desitions!	Added value.
	The state of the s



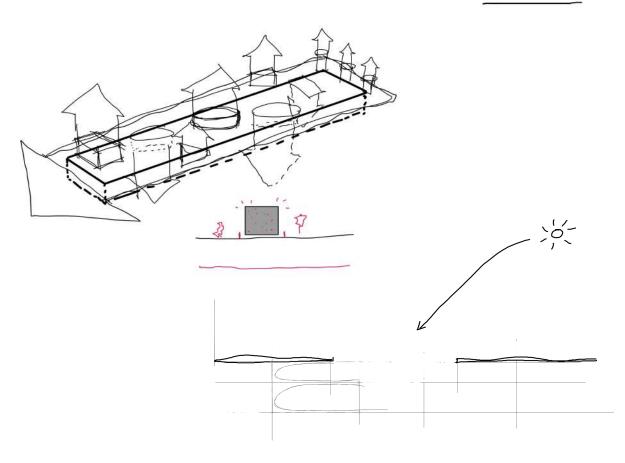


seel- Ludsagoc

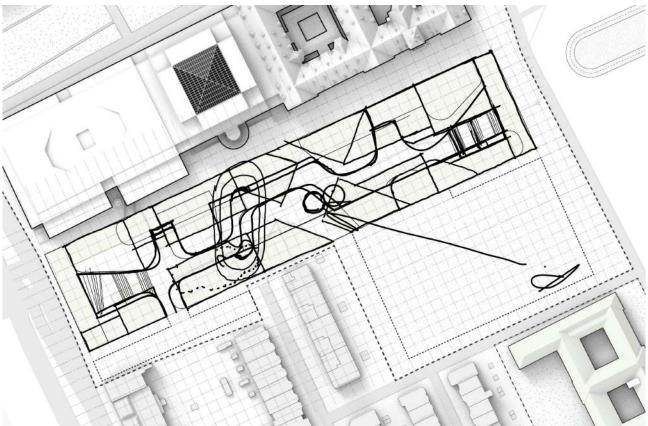




18-02-2017 + prelimining design + Winterschil - Grade? - 5 - TAK - 9 Ruberic -- present pages 1 Could you use your modal? - Not traditional linear - no + <u>Designe</u>
- Where are you on you're Desingue?/
Are you out of conceptual Desingue? - essence - story telling-- 40 % - how is material used? + Essays - now is the feedback? -> do you recongnized the community. - Institutions? - your essay is outdated? how are they used? - Sources ? - architecture a topic? - do you write about it? -models are Just -> do you need graphics? -> No! a repreduction? tip: Make desitions! Added value.







### Presentation Preliminary Design

Pre design as a link between concept and detailed elaboration.

Format: a minimum paper equivalent of 3 x A1. An urban context model with inserted project models that explain program and basic logistics, structure, materials and colors. The logbook.

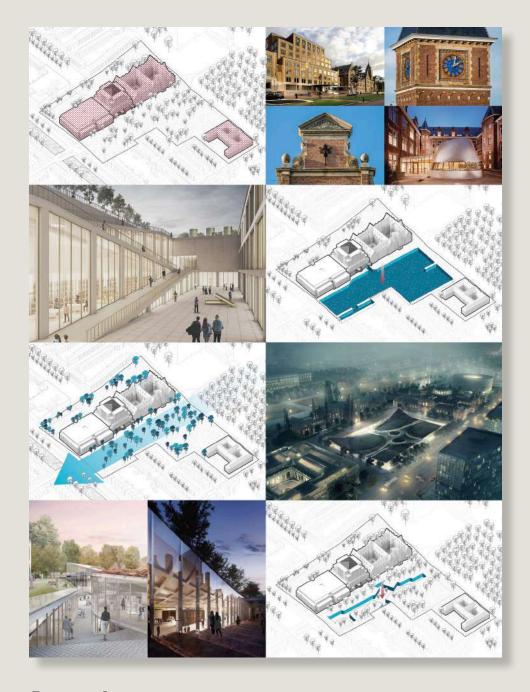
The presentation will include urban and architectural themes and decisions, made in coherence with the points of departure, the elaborated design, explanation of the decisive moments of choice, interpretation of the elaboration into an integrated and full design in the light of points of departure and decisions.

This moment is a point of no return as it will be impossible to elaborate another conceptual design after this within the current planning. This presentation marks the beginning of definitive design. The preliminary design is fixed and right now it is all about criteria, points of departure and choices dealing with further elaboration, technical issues, phasing, materials, details in definitive design.

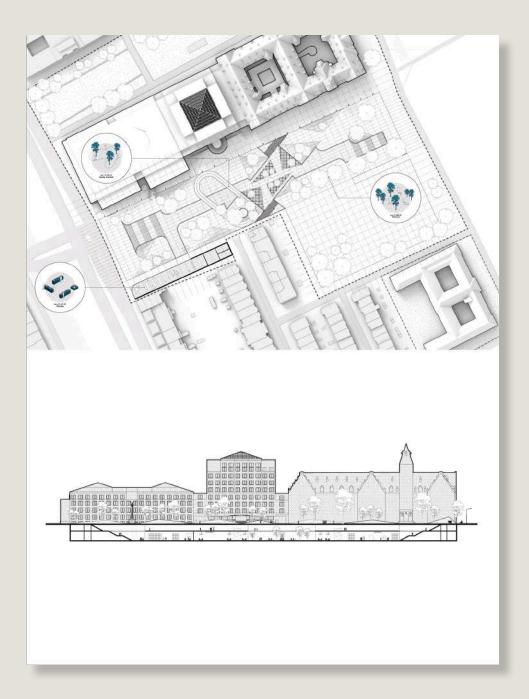
It is advisable to consult experts from the beginning of preliminary design in order to already integrate technical thinking within the urban / architectural design.



**Poster 2**Seahorse latching on plastic cotton swab, 2017; "a photo i wish didn't exist" Justin Hofman

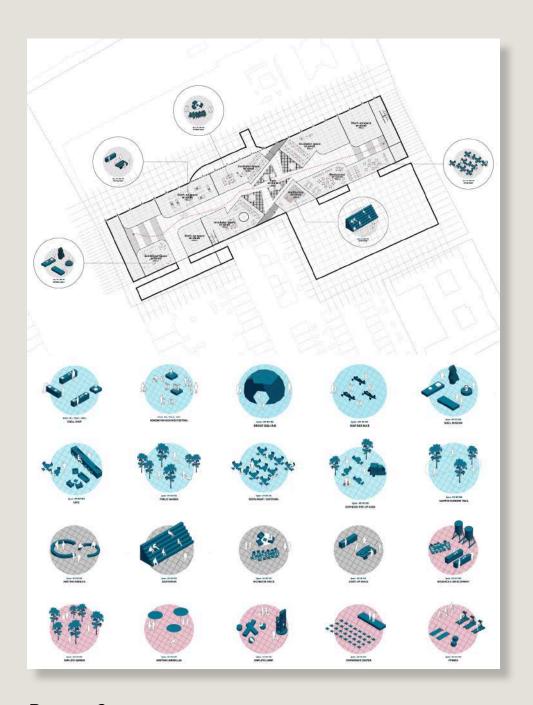


**Poster 1**Seahorse latching on plastic cotton swab, 2017; "a photo i wish didn't exist" Justin Hofman



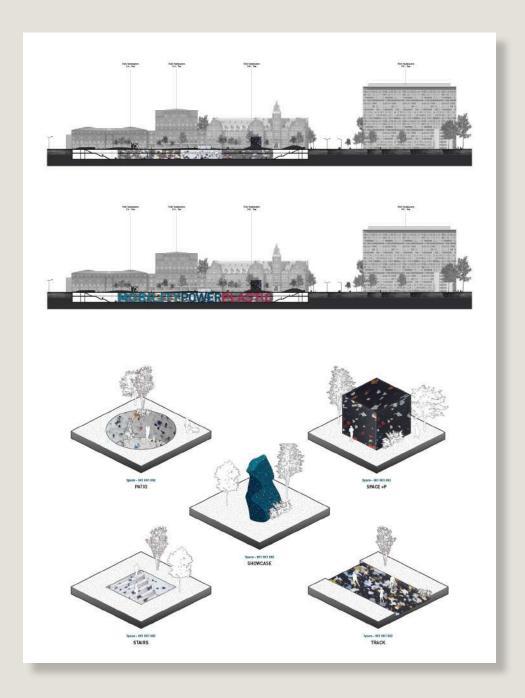
### Poster 2

Seahorse latching on plastic cotton swab, 2017; "a photo i wish didn't exist" Justin Hofman



**Poster 3**Seahorse latching on plastic cotton swab, 2017; "a photo i wish didn't

exist" Justin Hofman



Poster 4

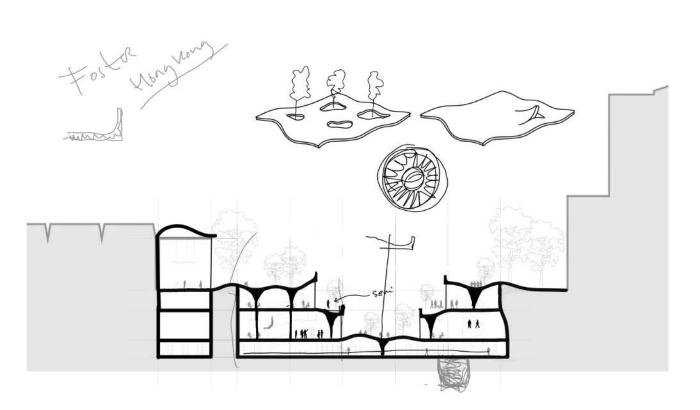
Seahorse latching on plastic cotton swab, 2017; "a photo i wish didn't exist" Justin Hofman

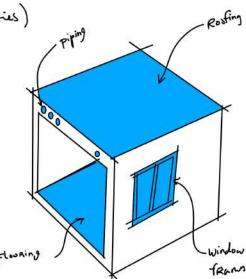
## Plastics in construction

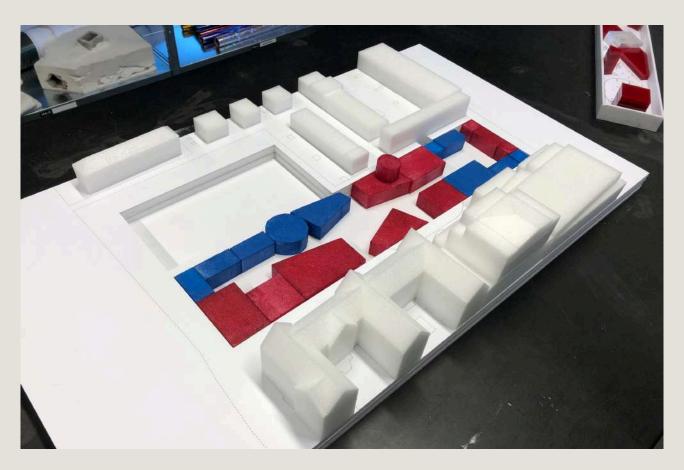
- + plastics are strong, yet light weight.
- + Plastics are durable, Knock & scratch resistant.
- + there is no motor corrosion
- + installation possiblilities
- + design opportunities. (limitless opportunities)
- + Range of coulors
- + insulation possobilitis
- + water tight seals
- + non conductive (electricity) + high conductive (light)

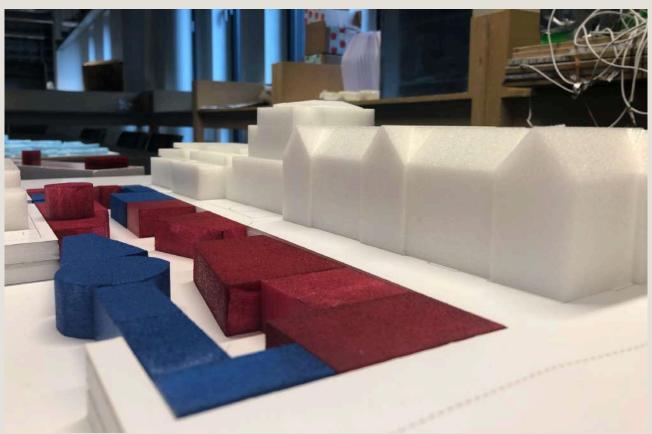
### Limitations

- Degration under UV
- flamibility
- Thermoplastics soften under temperatures

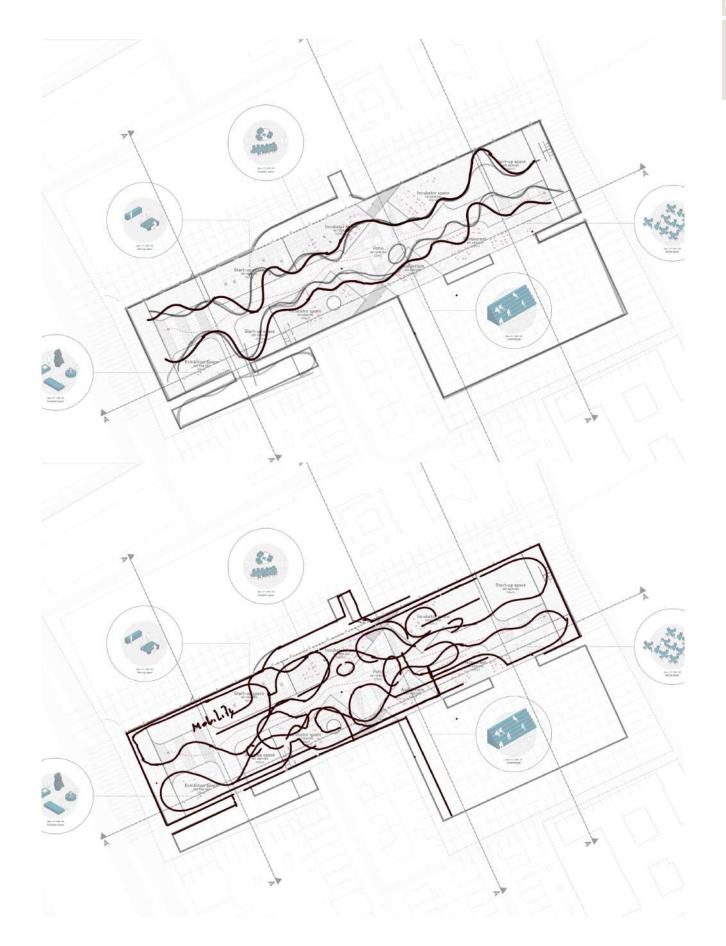


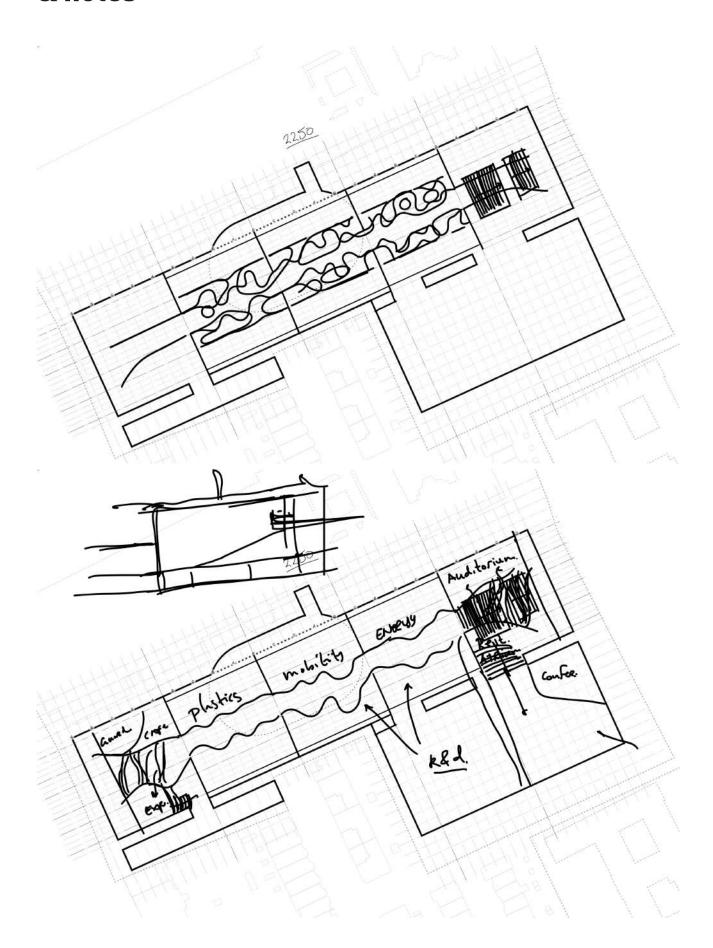


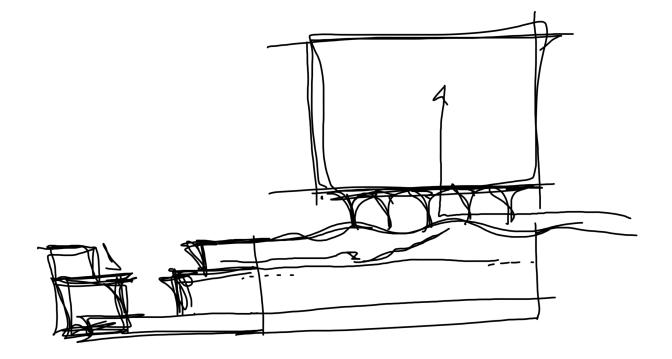


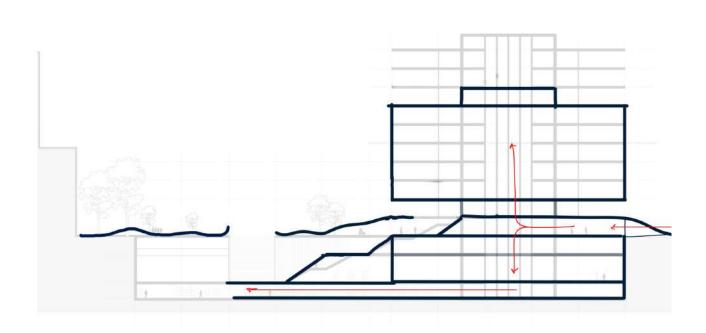


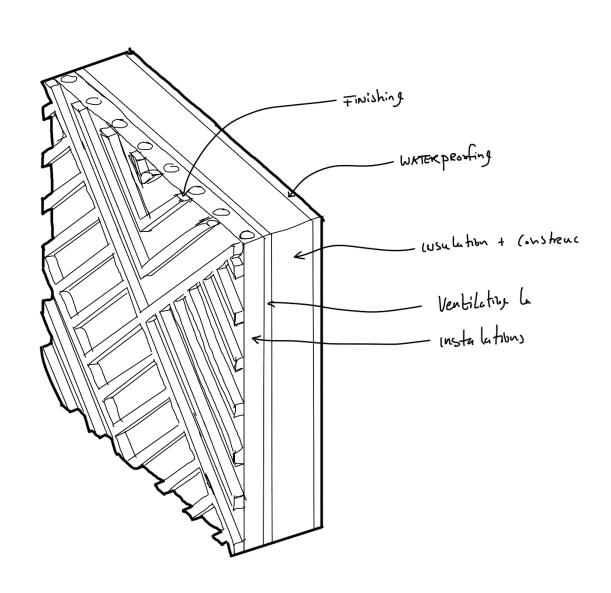


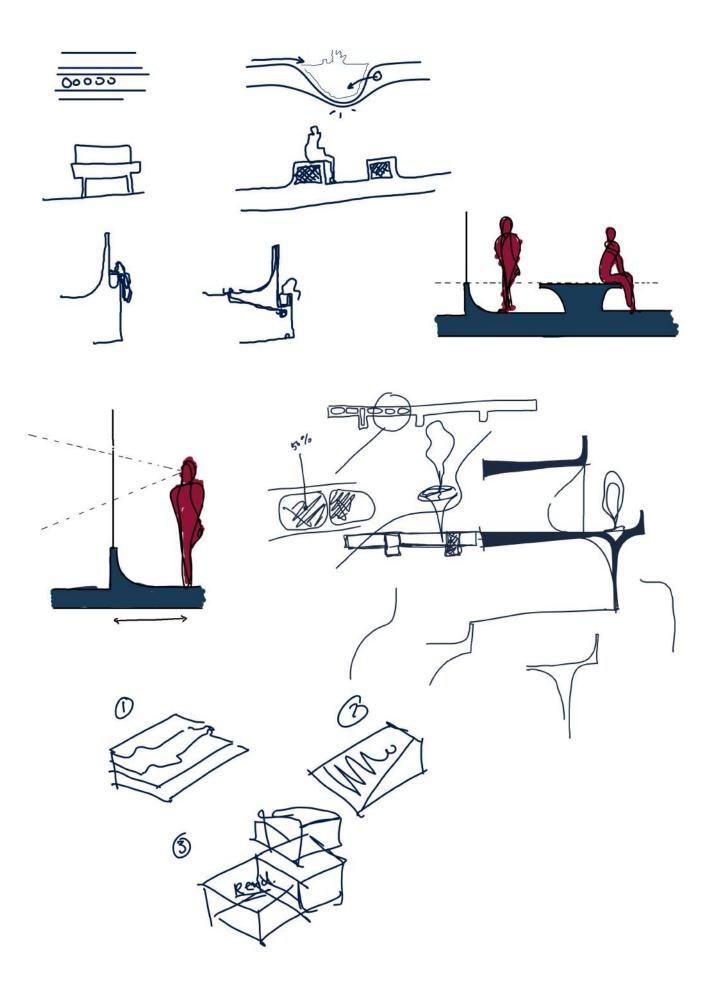












# 

### Presentation Defenative Design

Elaboration into detailed spacial qualities, technical issues, materials and detail levels

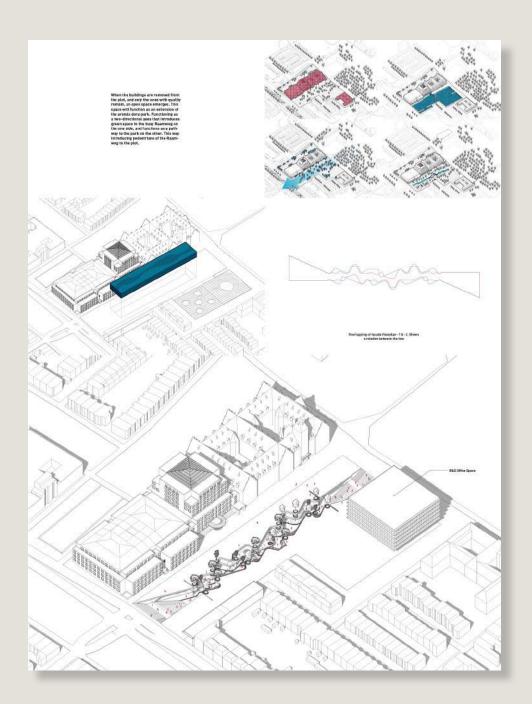
Format: a minimum paper equivalent of 4 x A1, a further detailed project model and logbook. Basic scale levels: urbanism 1:2000/500, architecture 1:100/1:20

Many technical issues are dealt with, but also contextual embedding and relations with history, context, programs and urban/architectural spatial qualities are involved.

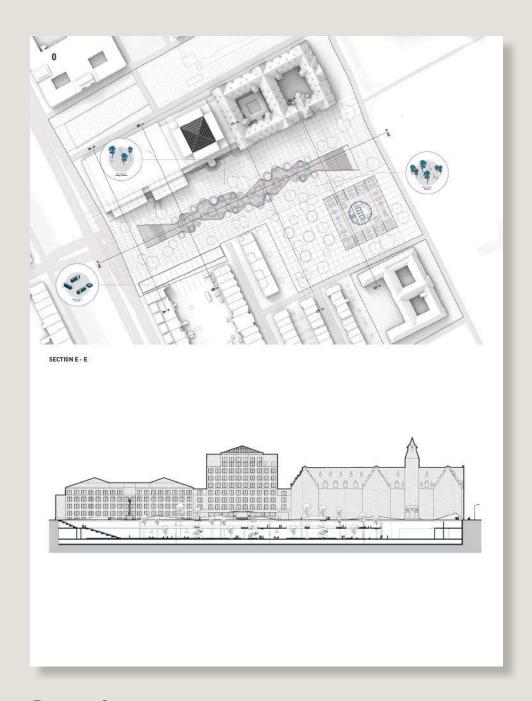
This presentation explains and documents the further elaboration of the preliminary design through technical issues, materialization, phasing, financing, end users, etc. Essential key details will explain and make the project readable for involved experts and will be in coherence with the urban and architectural themes of the project

Most of the programmatic lay out will be frozen, as it is elaborated well right now. So it is important that the program of requirements is logically integrated. A first draft of the essay (500 words) will become definitive at the exam (finally 2000 words).

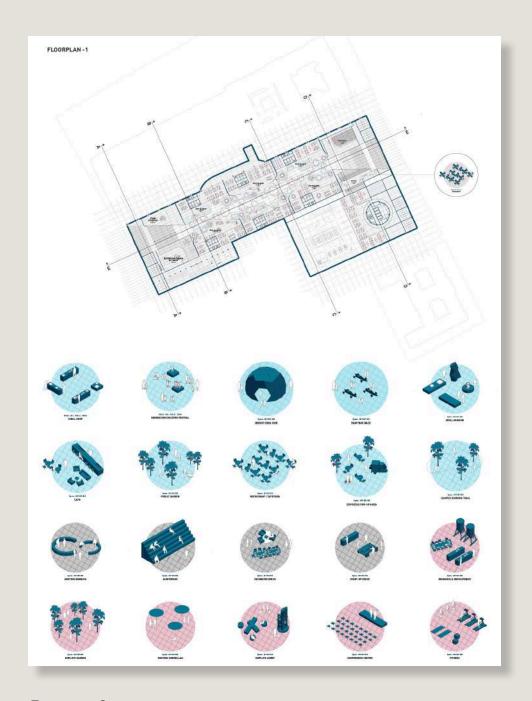
Technical results of consulted experts that are integrated in urban and architectural ways will be explained. A list of consulted experts will be included.



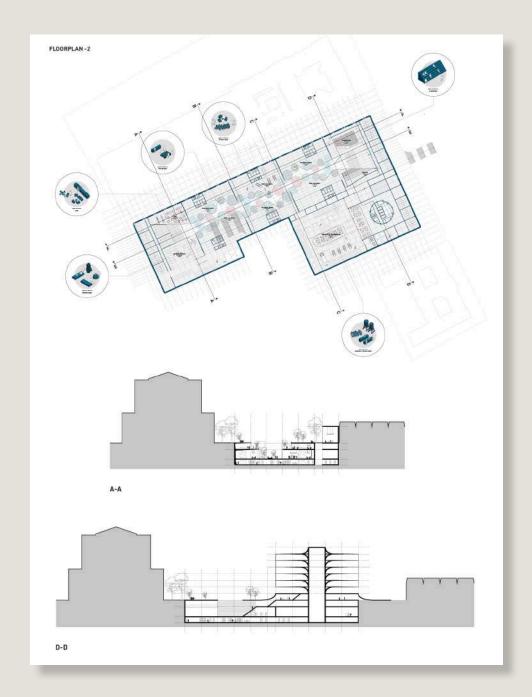
Poster 1



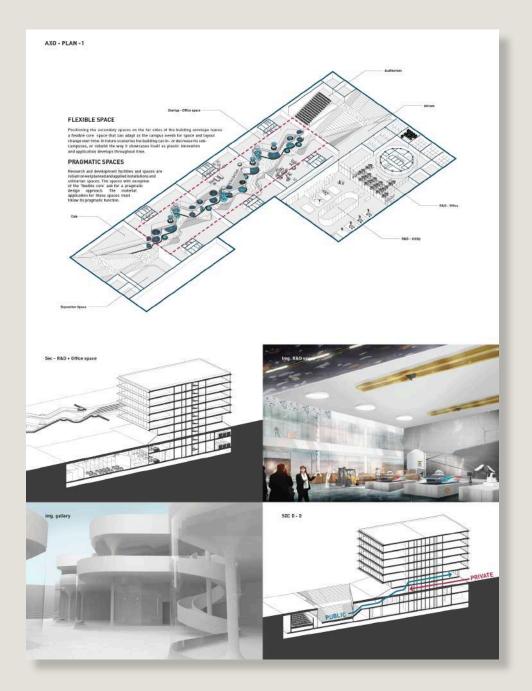
Poster 2



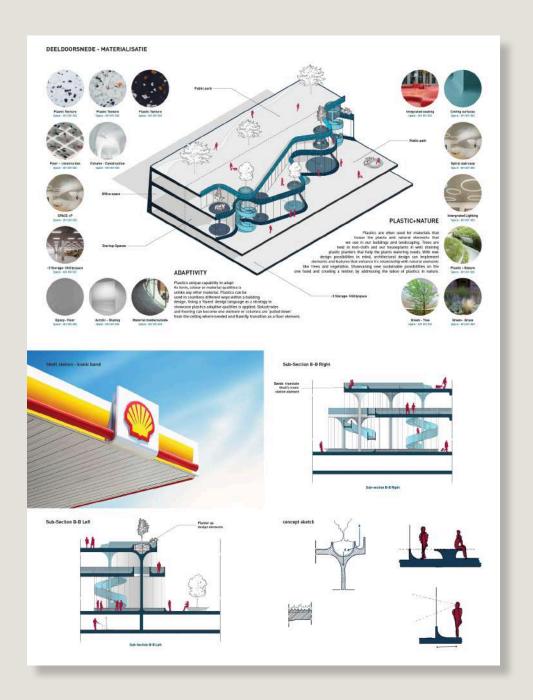
Poster 3



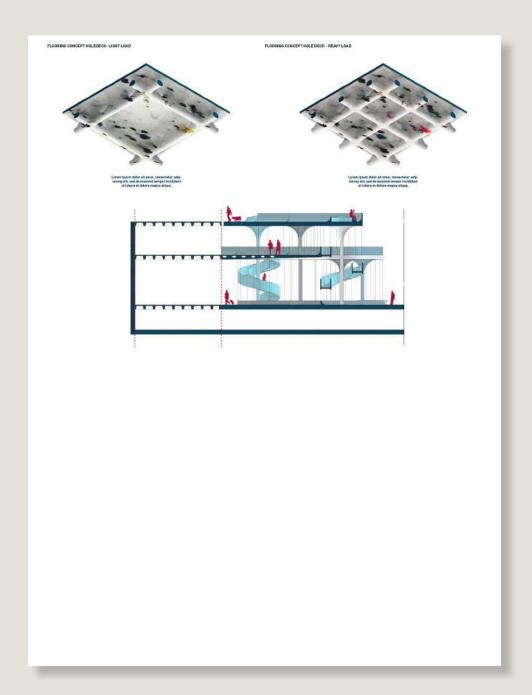
Poster 4



Poster 5

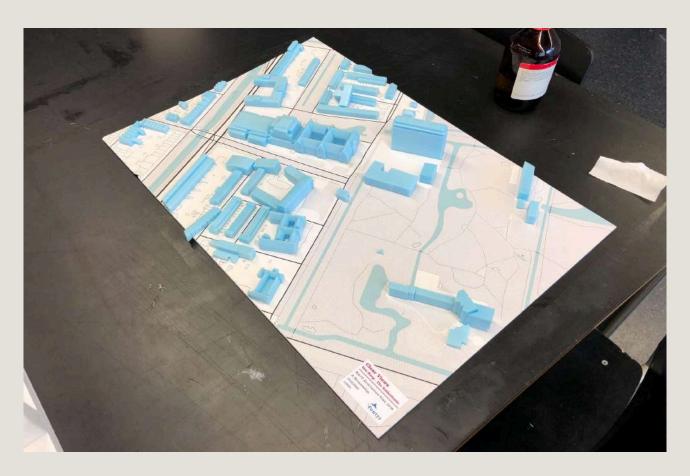


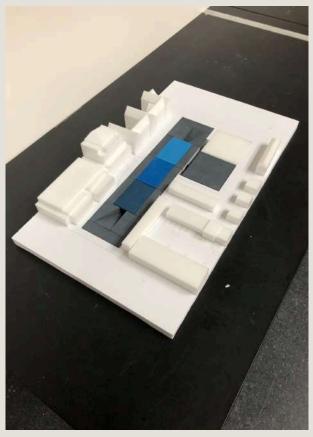
Poster 6



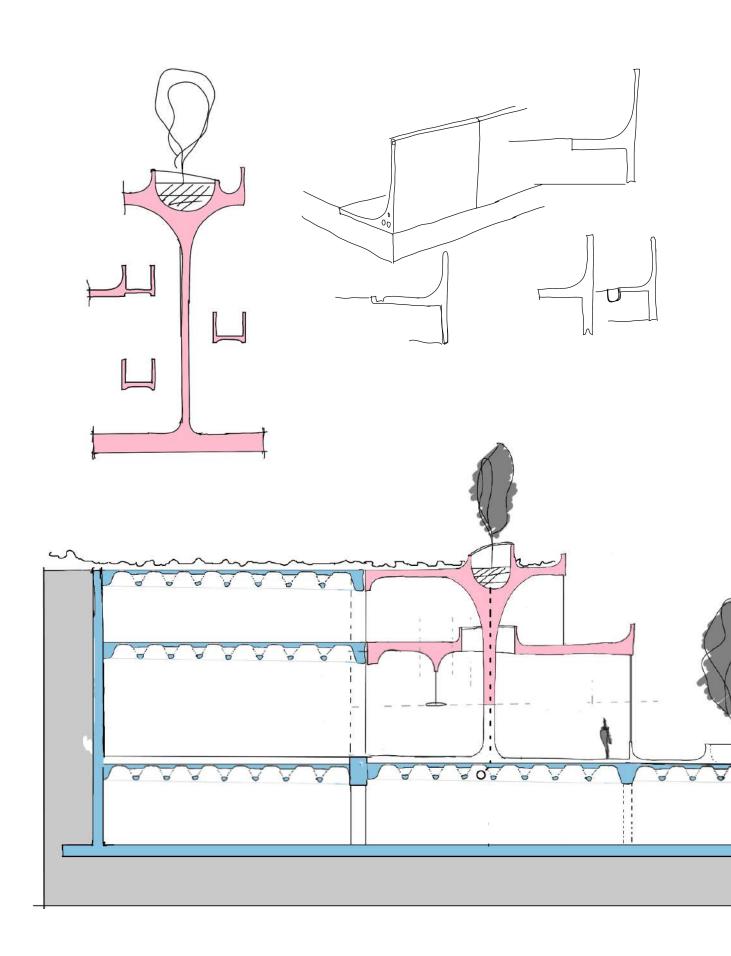
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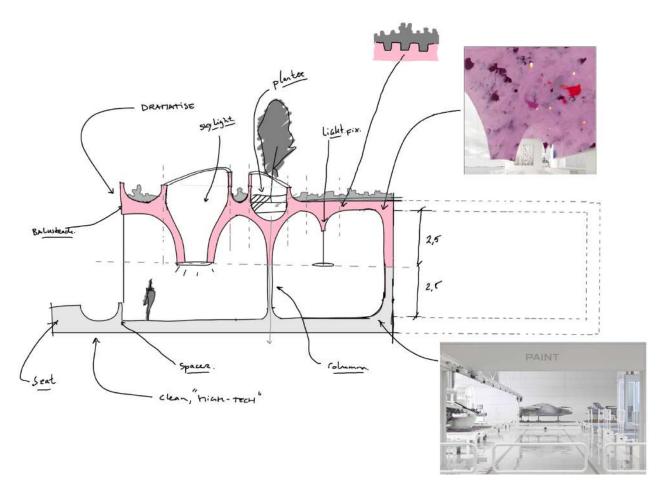
22-mrt-2019.	pesond Rubella?
feedback def. design.	- Wat zijn de ambities van het plastics.
-> planning> 26 apr.	-wat zijn de ambities van het plastics. - duidelijh in de presentatie
03 mei 10 mei -> p.p.	- doel, middle, overhouder
- verhaal essay	- "Corroborating full reference research."
- Logbook.	
- visual material	- Bri) -
hoe hundeled der Huge net publish Ruinte?	-> eigersche pper
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the bedienelt dem hory met openbare ruinte?	den have s Verbindinger.
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Howl Stack,	beton, Plastics!
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doasneder? - Alto?	lact zin!
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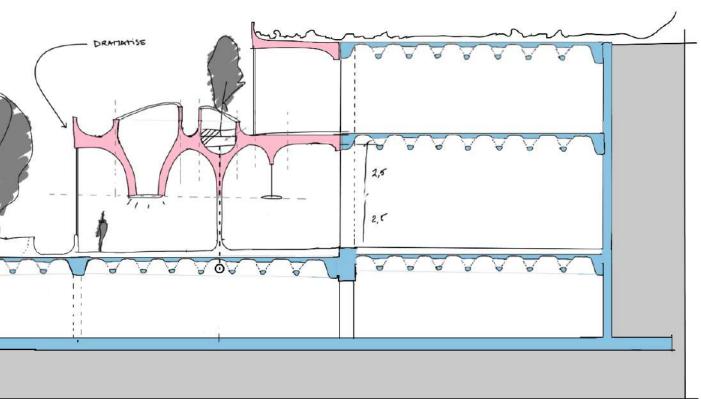


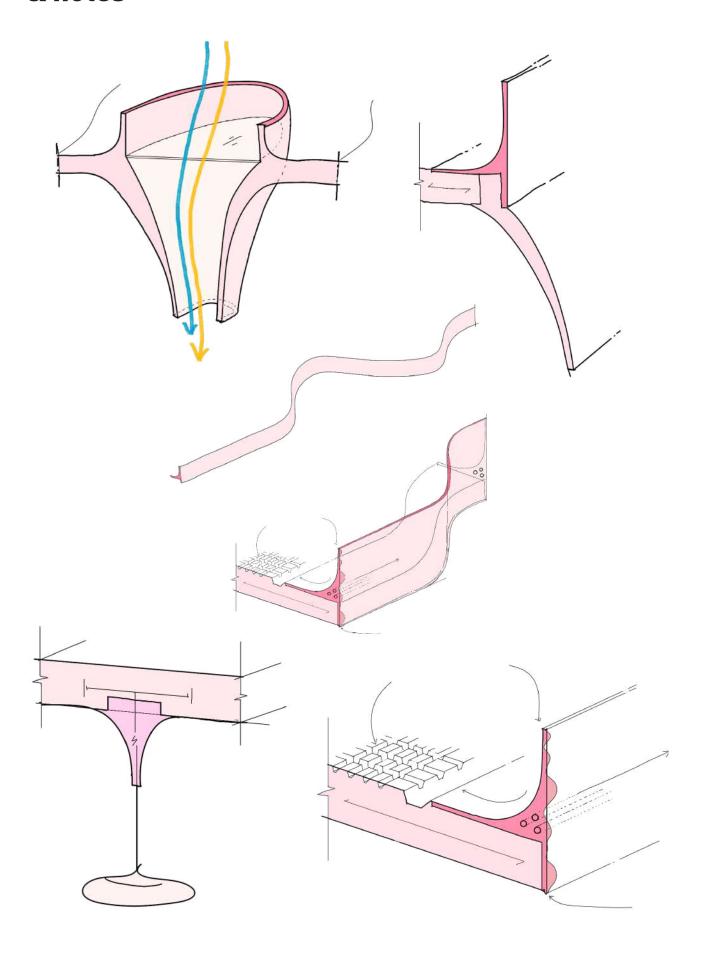


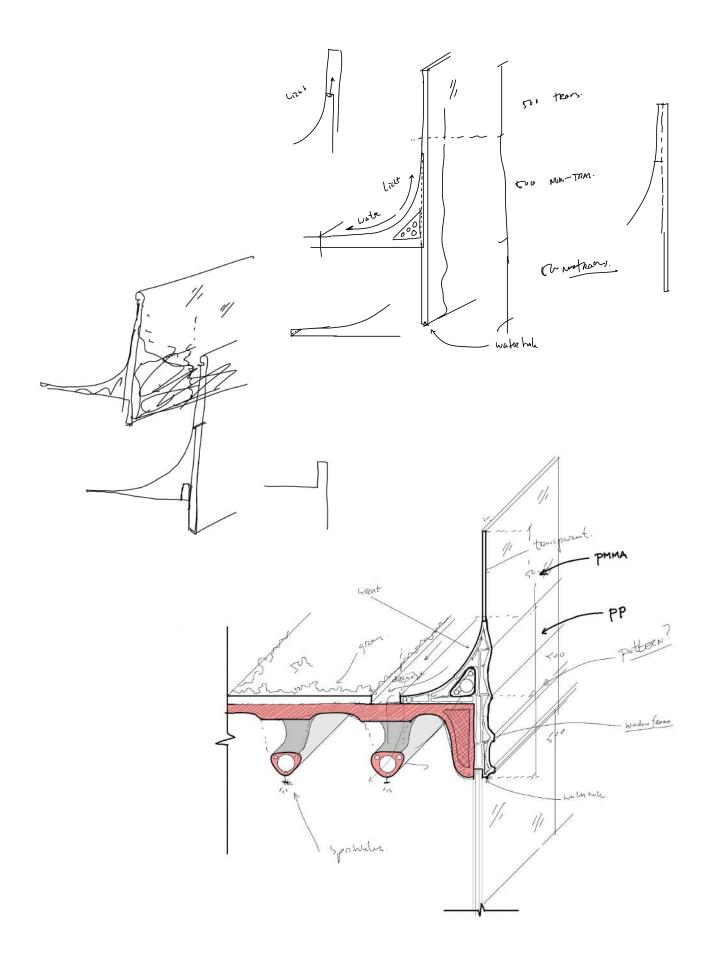


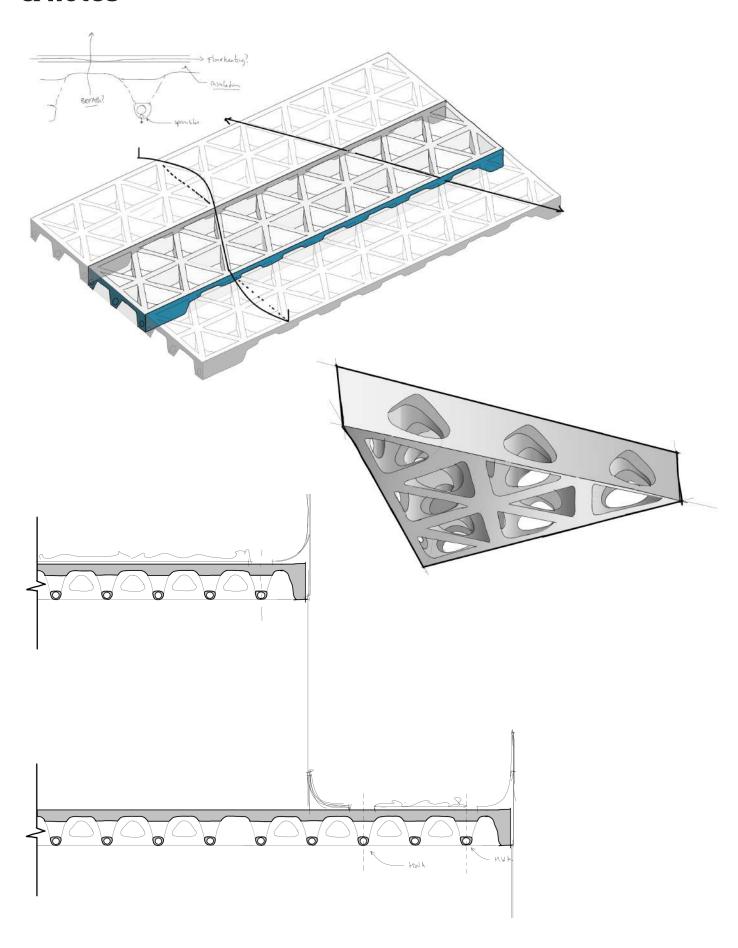


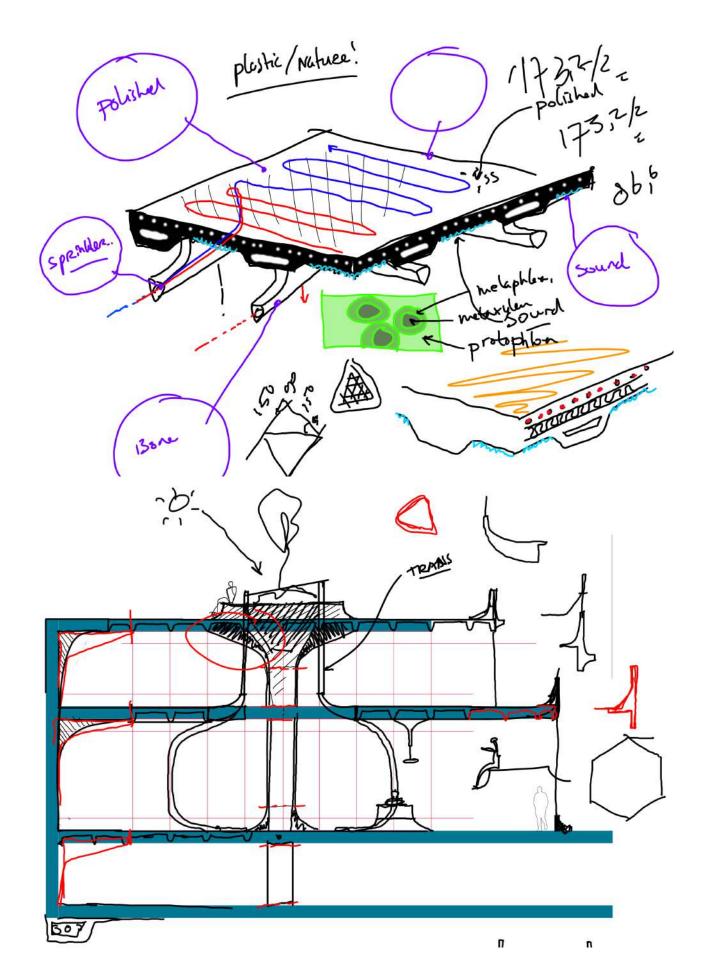


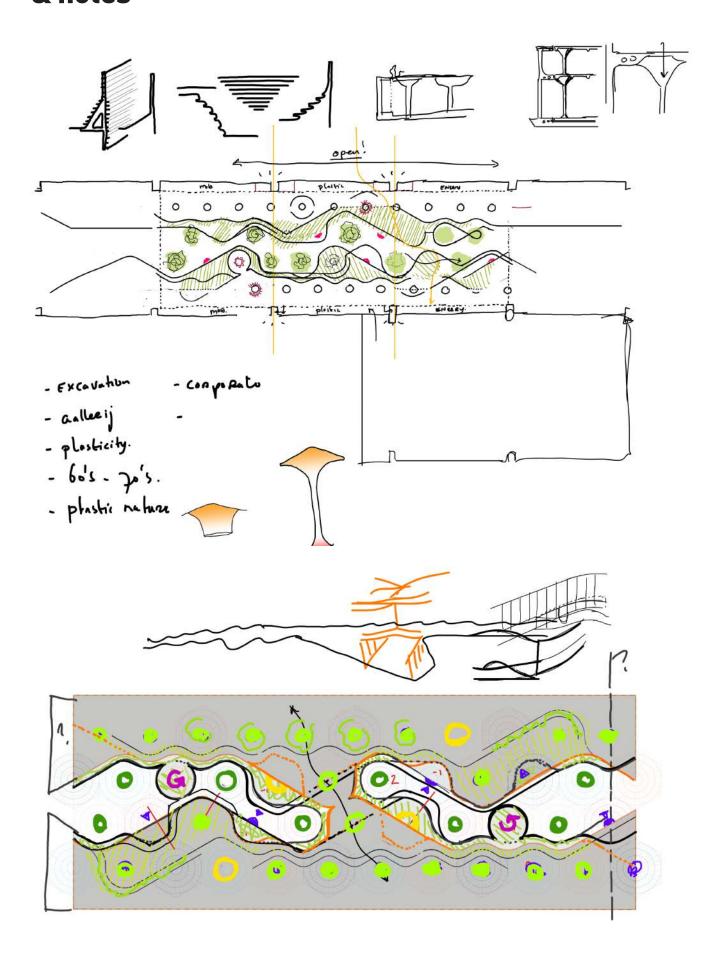


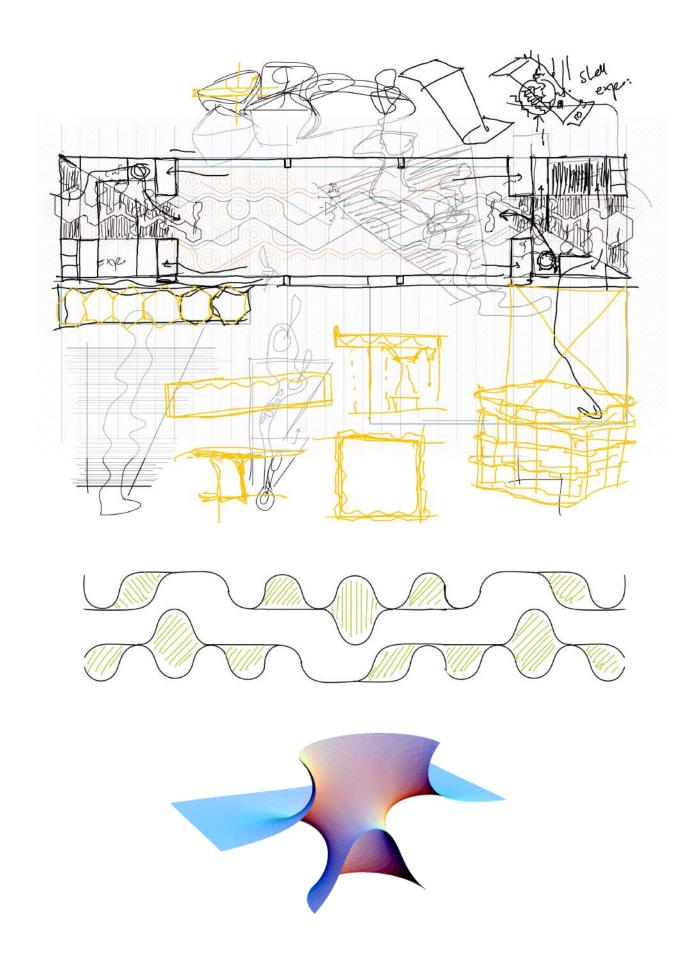


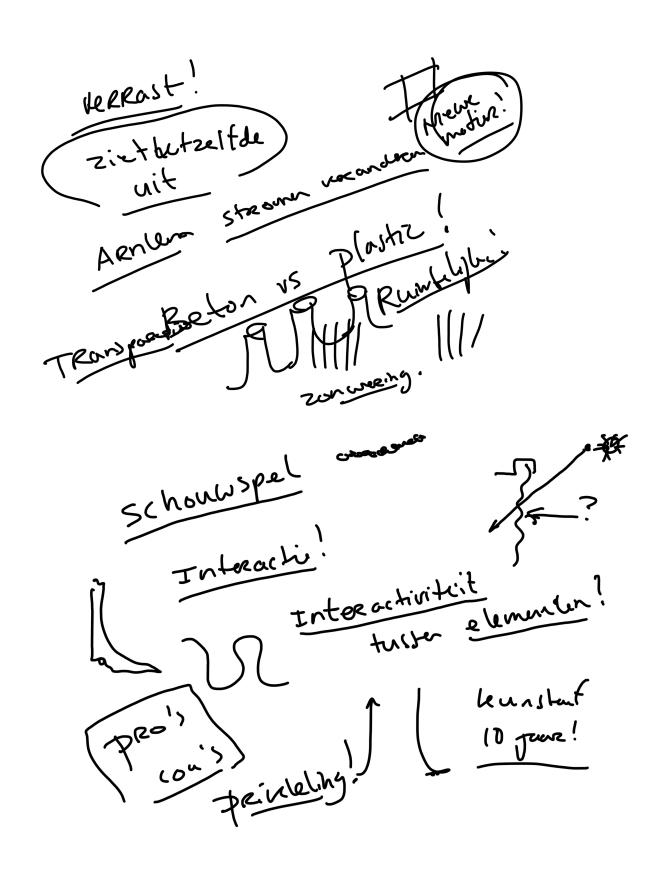


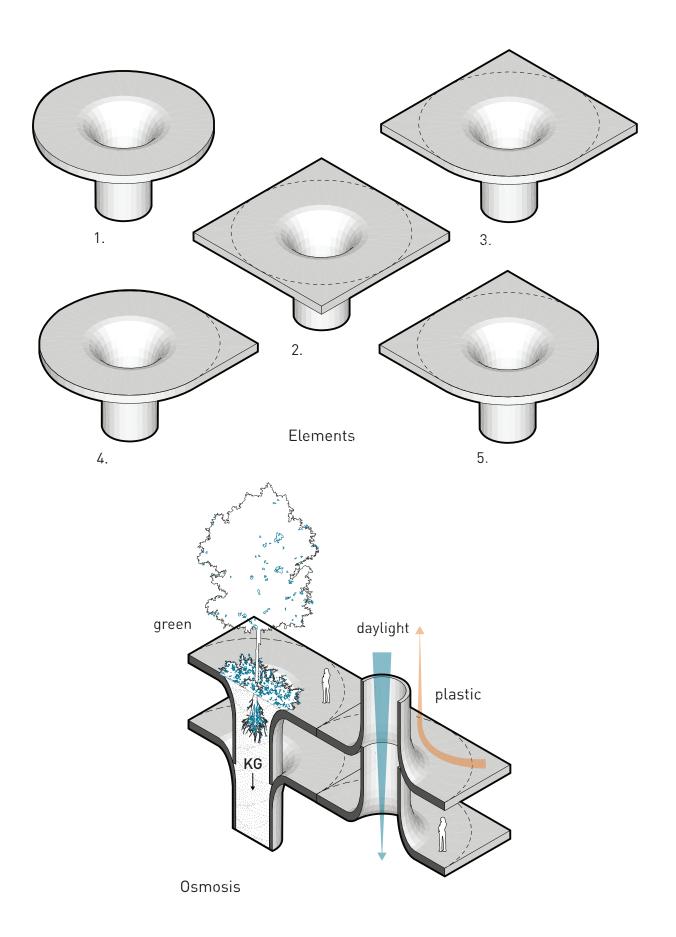


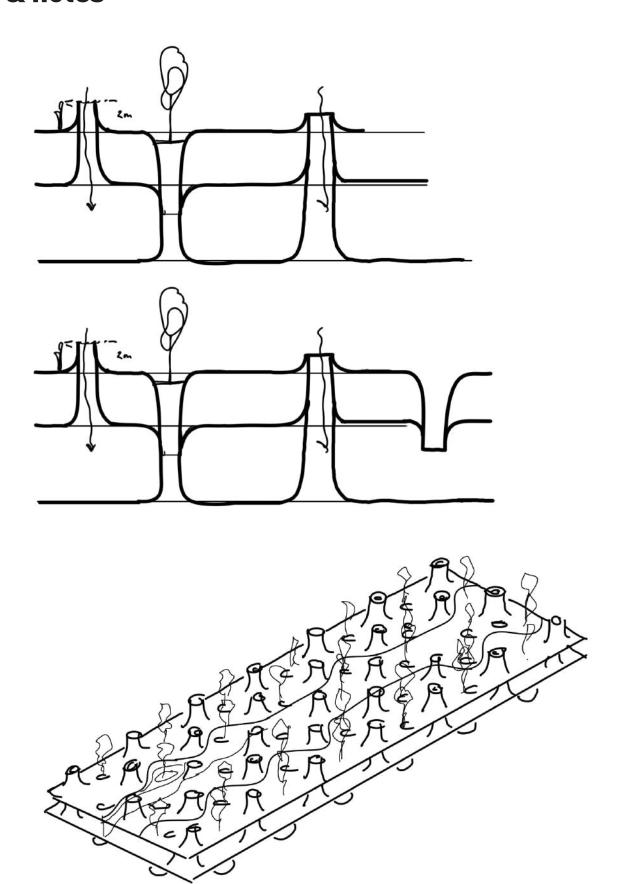


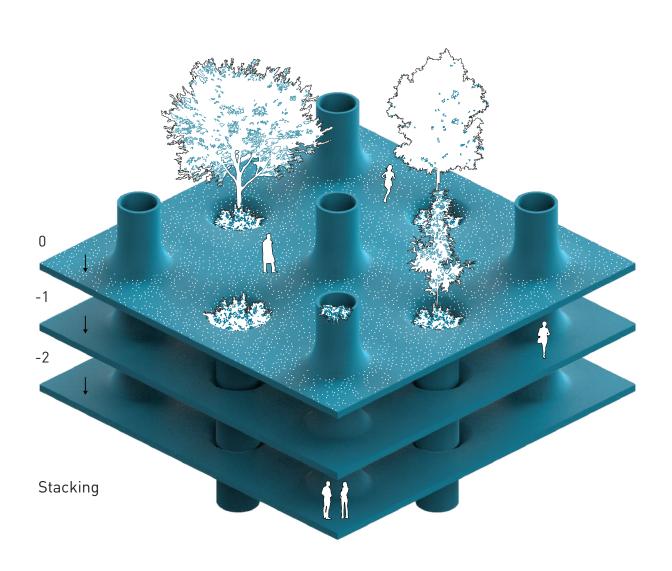


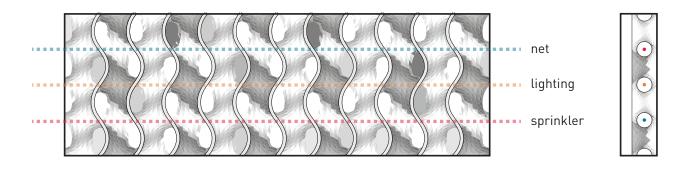




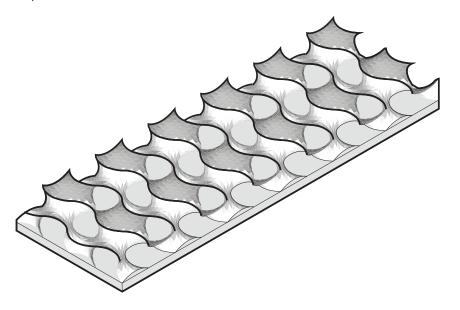




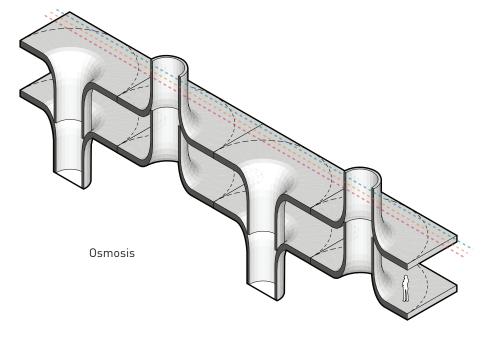




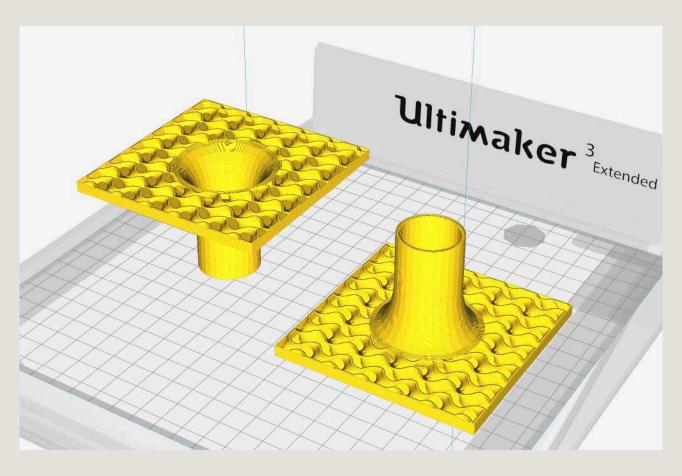
Topview



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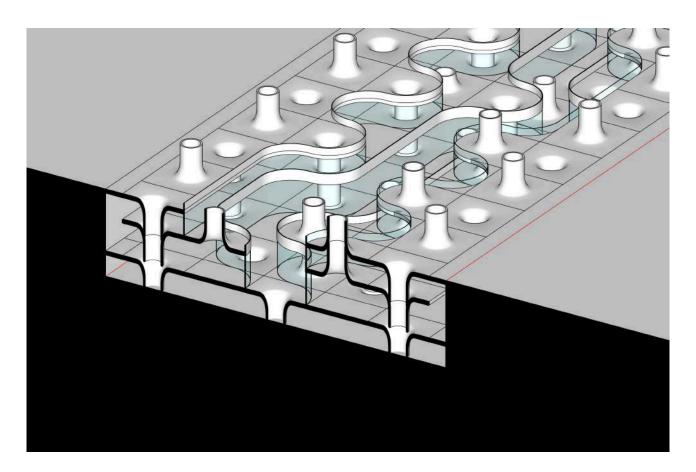


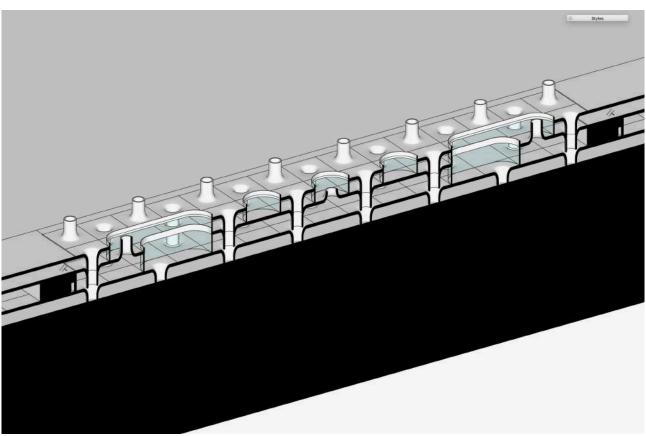
plastic

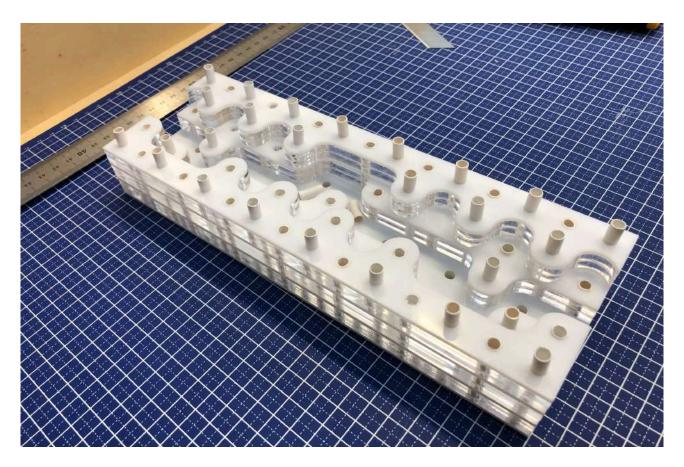


















#### Presentation Exam

The real professional graduation, the exam.

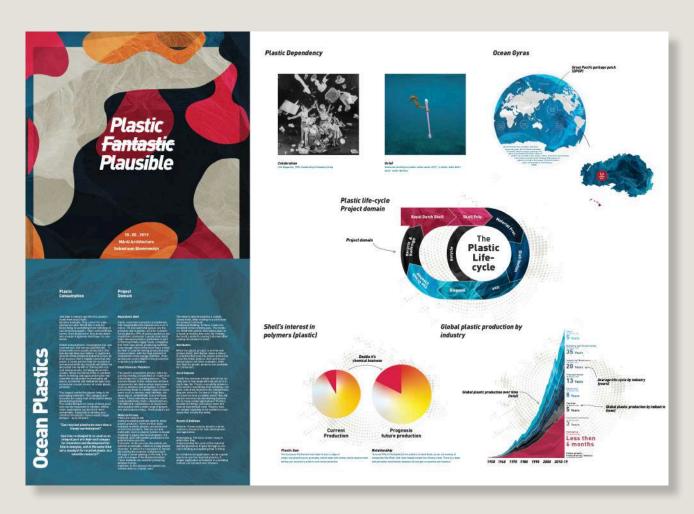
Format: a minimum paper equivalent of 6 x A1, including all models. More and / or other materials are free to choose. Scale levels: landscape-wise and urban, architectural details level to 1:5. The logbook makes the links between research and design and has the final 2000-word essay as a critical introduction.

The presentation is public and takes place with the examination committee (tutor, extracurricular examiner, Pnina Avidar, Pepijn Verpaalen (urb), Pieter Feenstra and Jan Willem van Kuilenburg) and fellow students and other tutors. The extracurricular examiner reflects from 'outside', delivers feedback and a benchmark grade

Through the exam the professional graduation level is evaluated. It is the full scope of the design,

nothing can be delayed until the ceremony. Issues to deal with: definition of project, the theory (architectural and urban), the integrated and complete design with a technical elaboration related to the points of departure and the design decisions, detailing and materialization, definition of urban and architectural quality, position of the student within the discipline with a scope beyond graduation.





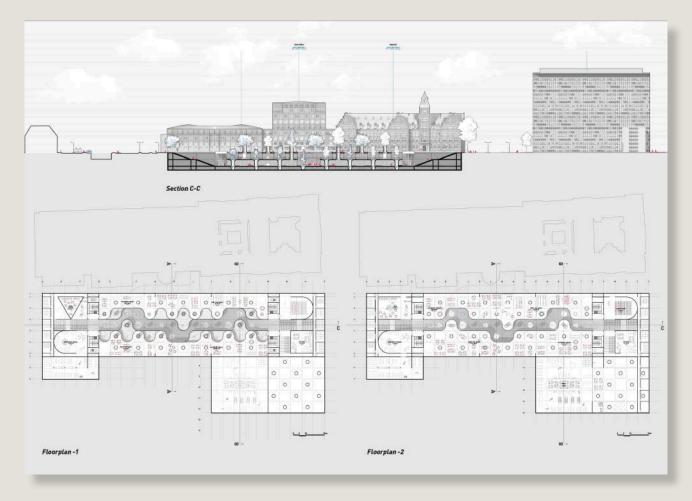
Poster 1



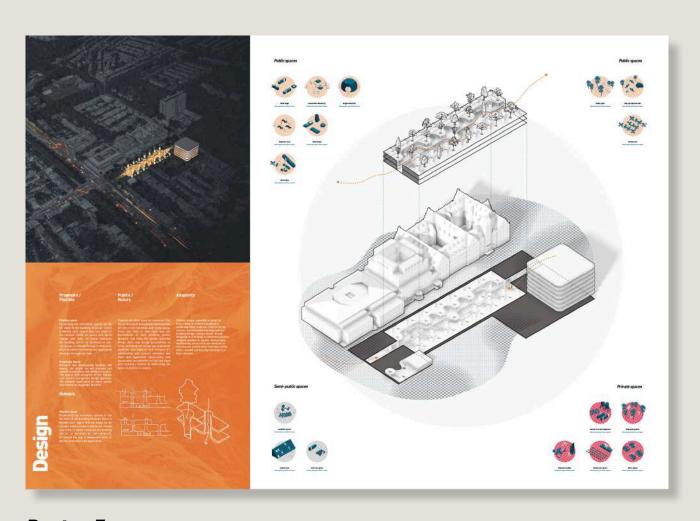
Poster 2



Poster 3



Poster 4



Poster 5



Poster 6

