PLAY-CYCLE

Hotel New York



Yi Xu

05/07/2020

complex projects | p5 presentation

Feijenpoort territory

Map of Rotterdam



Feijenpoort Neighbourhoods

- Bloemhof
 Hillesluis

- Vreewijk
 Afrikaanderwijk
- 5. Kop van Zuid Entrepot 6. Feijenoord 7. Oud IJsselmonde

- 8. Groot IJsselmonde

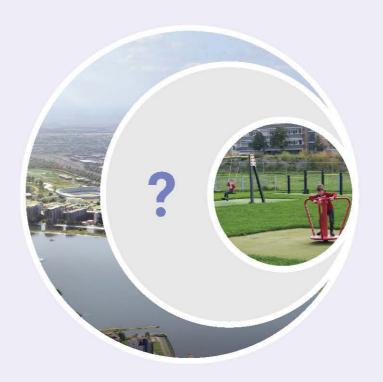








Missing dimensions - Scale



CITY

NEIGHBOUHOOD

STREET

Missing dimensions - Age group















Research goals

FOR YOUNGSTERS,

FOR FEIJENPOORT

A playful approach

PLAY FOR YOUNGSTERS, PLAY FOR FEIJENPOORT

Research question

Why & How can migrated *PLAY SPACES*help individual development of *YOUNG KIDS'* and positive social participation of *NEIGHBOURHOODS* in Feijenpoort?

Presentation title

Play theories

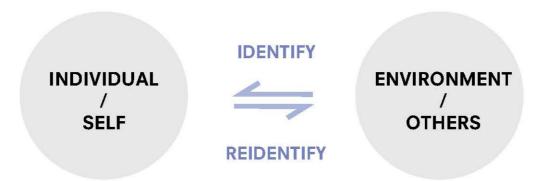
Play for individual development



PLAY FOR THE WELL-ROUNDED DEVELOPMENT OF INDIVIDUALS

Play theories

Play for individual development



Play in socio-historical context

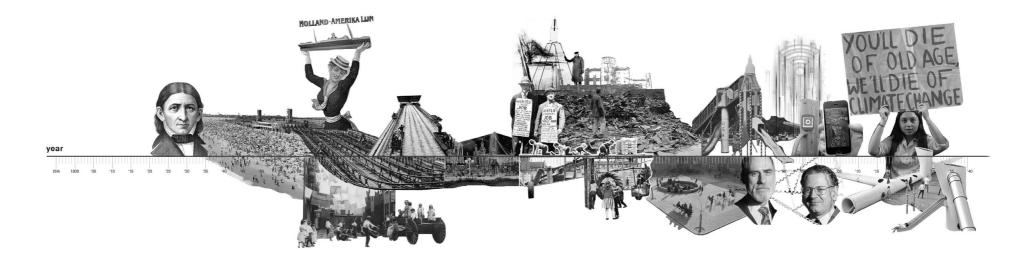








12

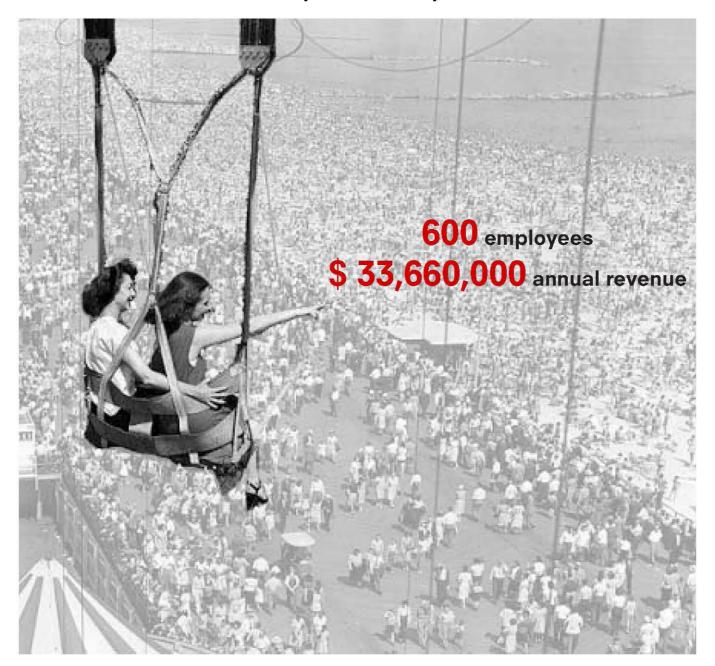


Play and stability



Presentation title

Play and economy

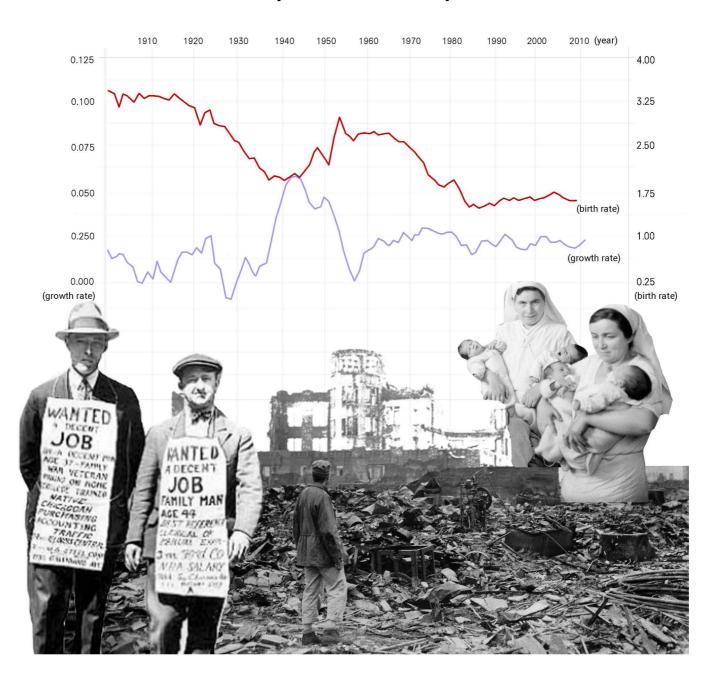


Presentation title

Play and innovation



Play and sustainability



Presentation title

Play and sustainability



Play and sustainability



Play and sustainability



Presentation title

Play and sustainability

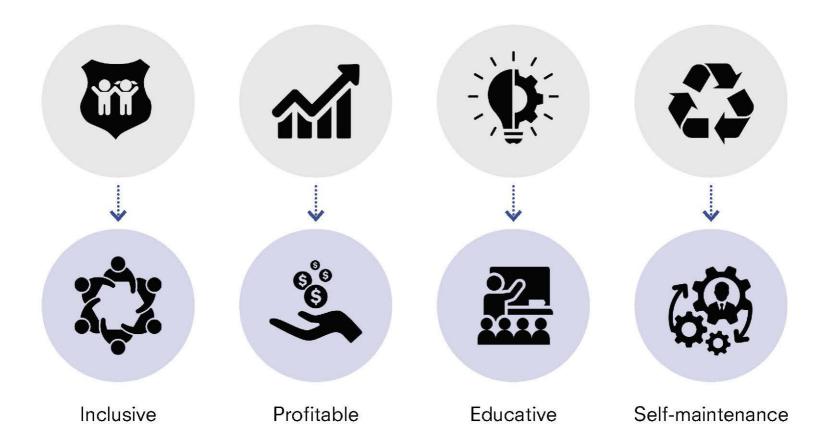


Play and sustainability



MAKER'S ROTTERDAM CREATIVE ROTTERDAM CIRCULAR ROTTERDAM

Play as a social solution



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Initial ambition

PLAY-CYCLE

Verb. 1. To play

interactively and innovatively with recyclable waste.

Noun. 2. A social program

in which local young people can create play facilities with up-cycled waste in a playful way.

3. A play station with satellite sites

which accommondates the actions of up-cycling local waste, designing and constructing play faciclities, playing in those facilities.

Play as a social solution



A new typology: Play +?



A new typology: Play +?

Play + City exploration

Play + Junk recycle

Play + Collective design Flexible display

Play +

Play + **DIY** sales







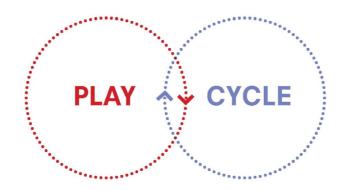






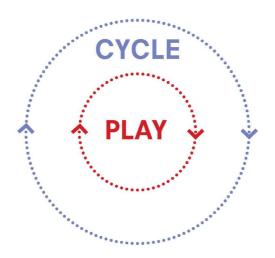
Initial ambition

PLAY - (re) CYCLE



Initial ambition

PLAY - (life) CYCLE







School-community collaboration



School education Normal curriculum

At school

Community education Creative curriculum

At play-cycle sites or mother staion during school time

Community education Play-cycle

After school & on holidays

School-community collaboration



& 'play the city'

& circularity education

User ambition

YOUNG KIDS



Creative thinking

Handcraft

Communication

Cooarporation



Operation ambition

PLAY-CYCLE TIMETABLE

School time	Kids who dropout from school School kids (mainly elementary)	All play-cycle activities Creative curriculum
After-school	Big kids (12-22yr) Small kids (4-12yr)	All play-cycle activities Play and DIY workshops
Weekends	All kids	Special play-cycle projects



Operation ambition

PARTNERSHIP



BLOEMHOF

AFRIKAANDERWIJK HILLESLUIS VREEWIJK TARWEWIJK ZUIDPLEIN



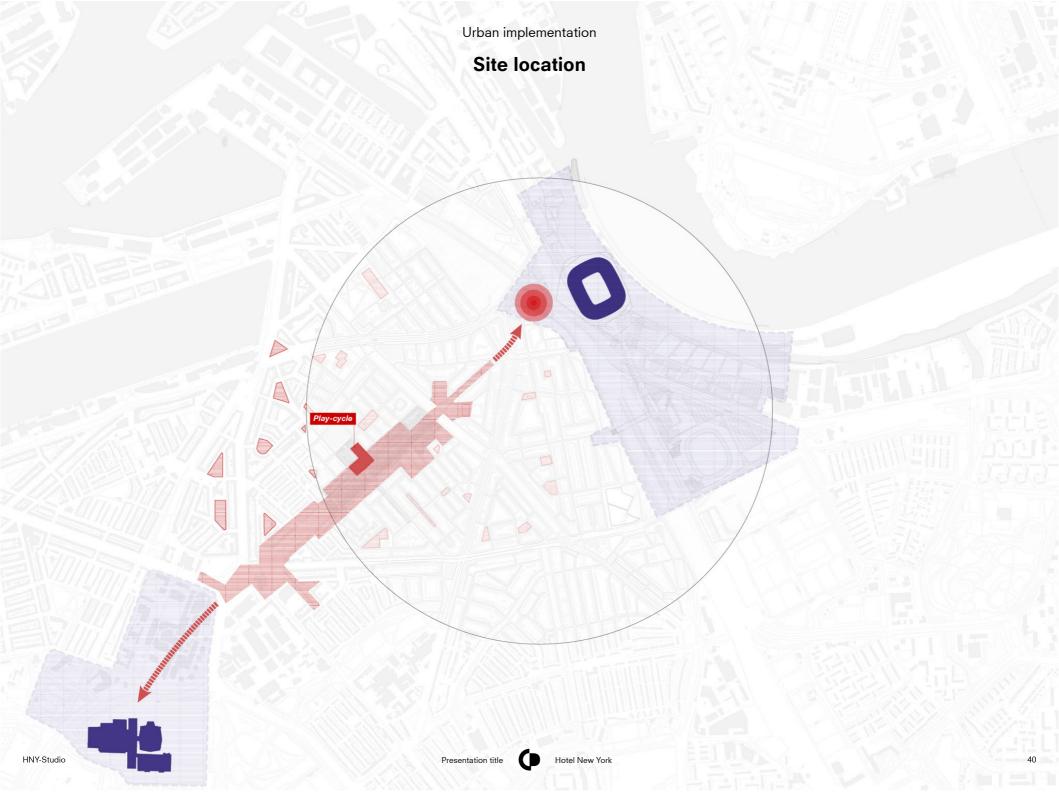


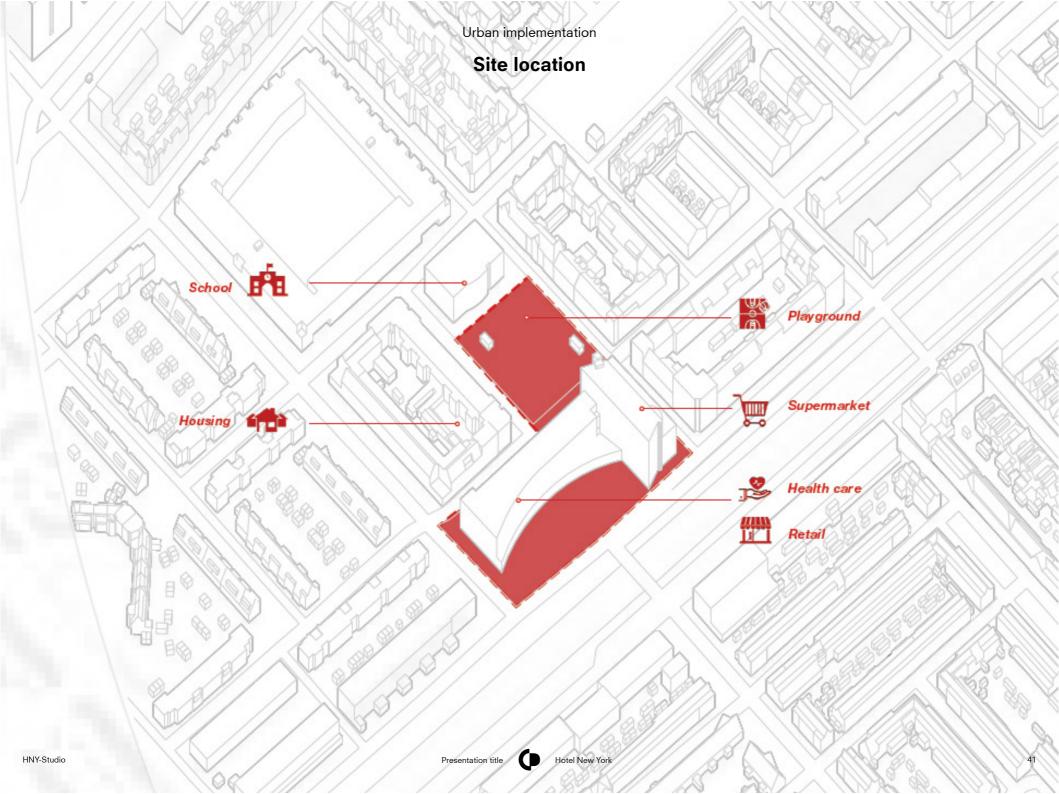


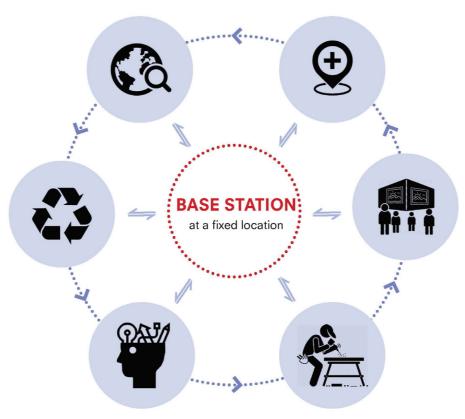








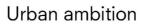




STATELLITES

spread throughout the neighbourhood





SATELLITES



Parking lot

Playground

Waste collection

Urban ambition

SATELLITES



Not only do we collect **WASTE**, but **IDEAS** as well!



Urban ambition

SCHOOL PLAYGROUND







School playground

Rooftop playground



Urban ambition

CANAL-SIDE



Playful bridge

Play-cycle facilities

Playful landscape

Site quality









Site downside









Site strategy

RESHAPE

instead of

RESTORE

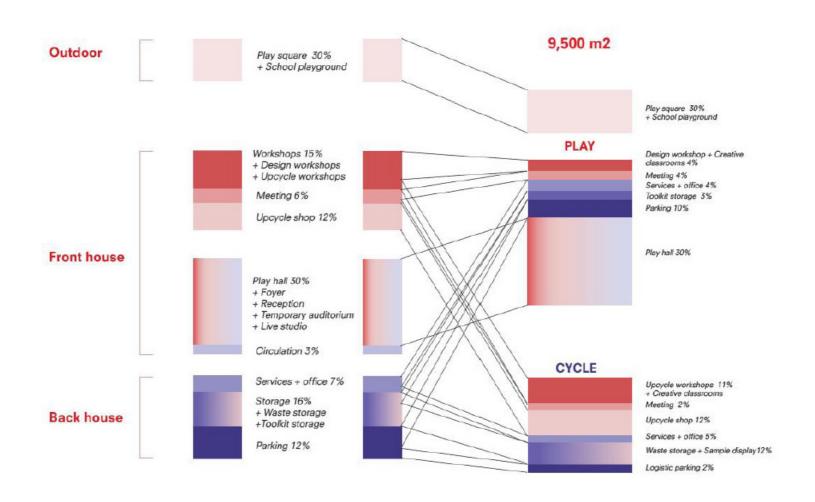
UPGRADE

instead of

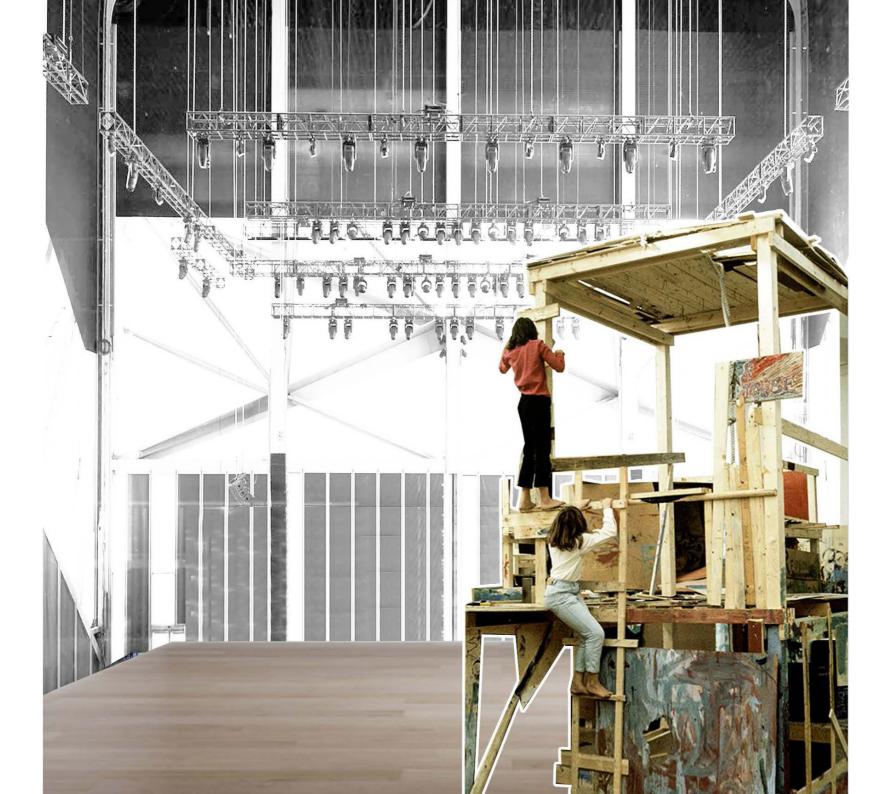
RESEMBLE



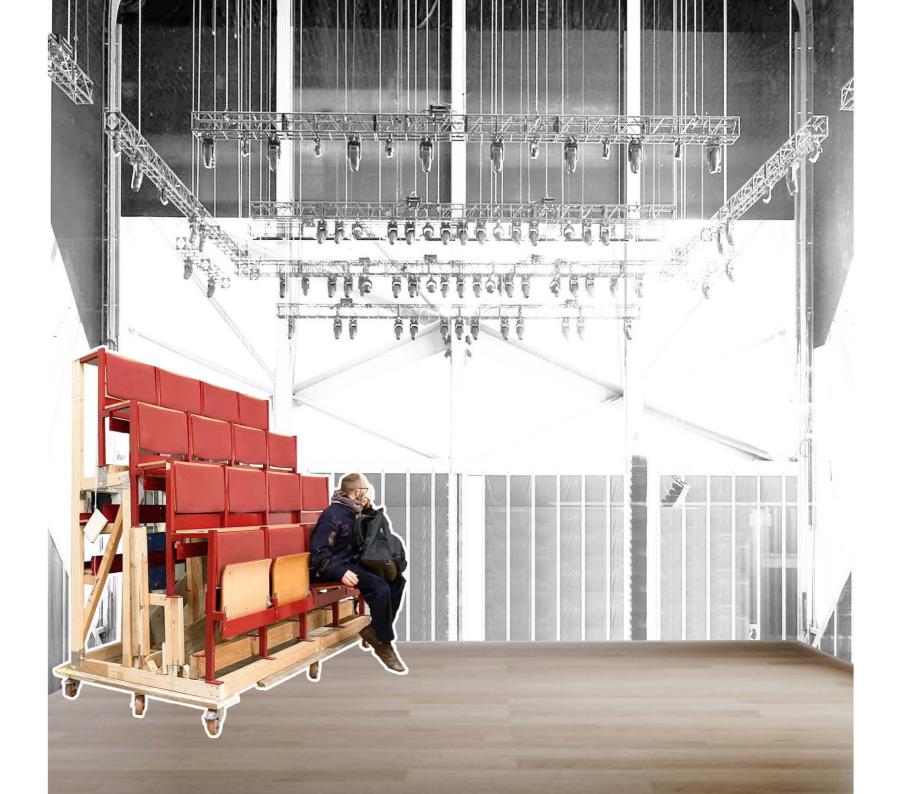
Benchmark



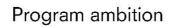
Presentation title











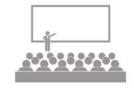
PLAY HALL



Constrctive play



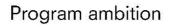
Recreational play



Educative play







PARTICIPATORY UP-CYCLE



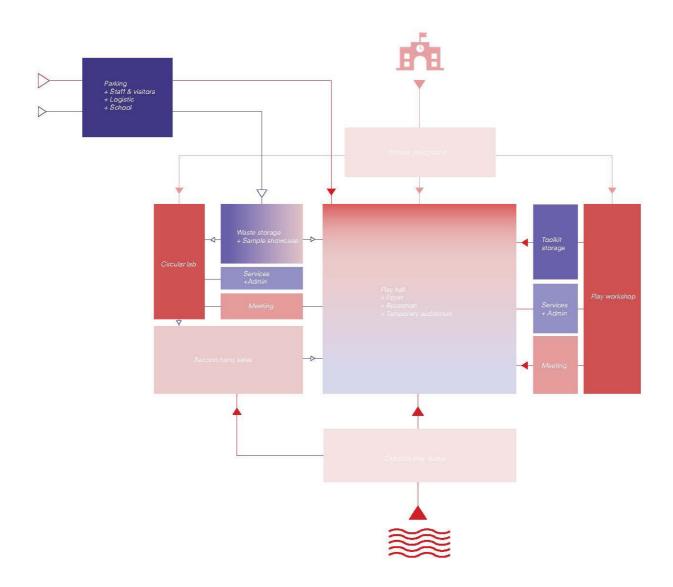
Upcycle workshop

Handcraft DIY

Sample showcase

Upcycle shop

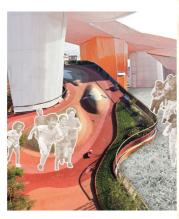
Spatial layout



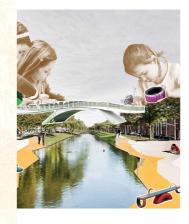


















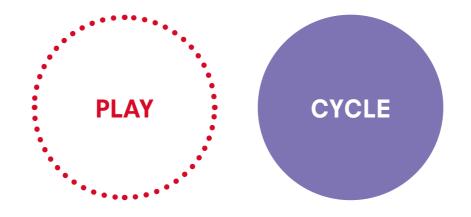
Design concept

Preconceived impression

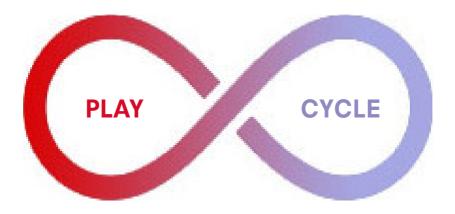




Static duality



Dynamic duality



Light in heavy









Heavy in light



Kindergarten Nová Ruda, Czech Republic Petr Stolín Architekt





Concept reference

Intersecting solid and crystal

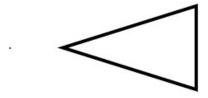


Intersecting solid and crystal



Solid part

Private, limited access or back of house



Crystal part

Public, open access or front of house

Concept reference

Intersecting solid and crystal



Solid part

Private, limited access or back of house

Crystal part

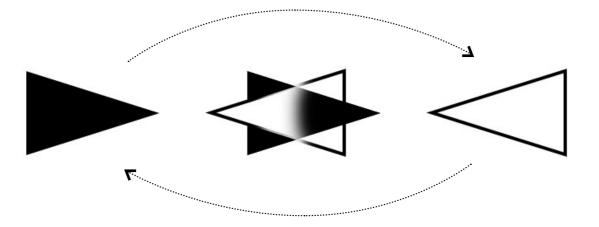
Public, open access or front of house

Intersecting solid and crystal

SOLID VOLUME

provides material and ideas to

CRYSTAL VOLUME



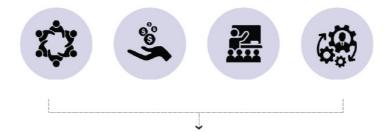
CRYSTAL VOLUME

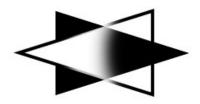
observes without interfering

SOLID VOLUME

Concept reference

Intersecting solid and crystal





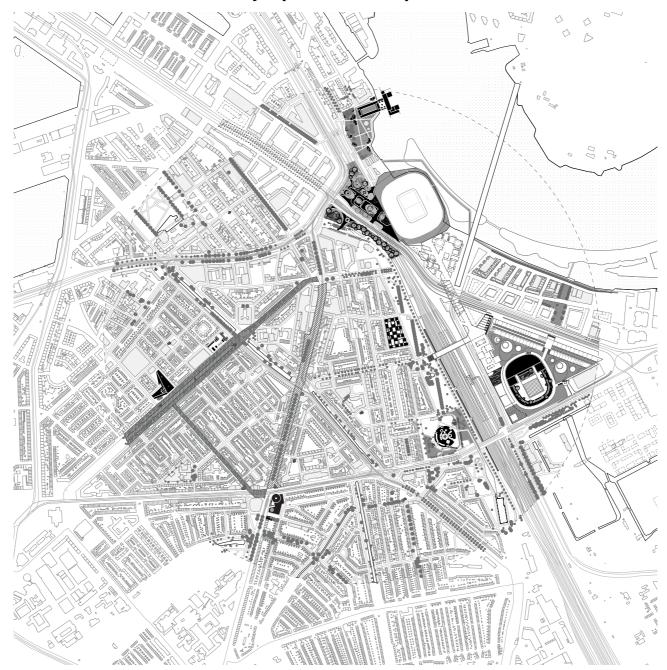
Hybrid + Playful

Open + Transparent

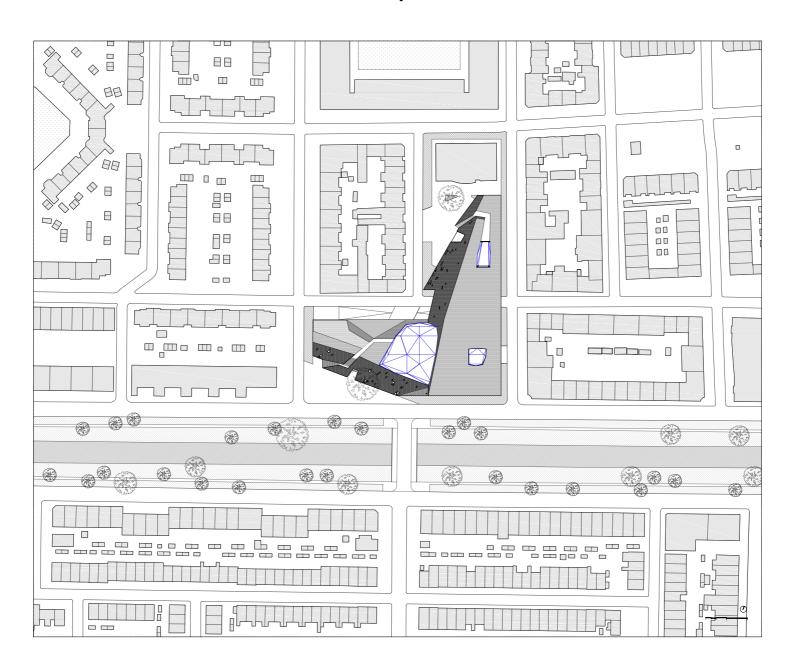
Flexibile

Collaborative

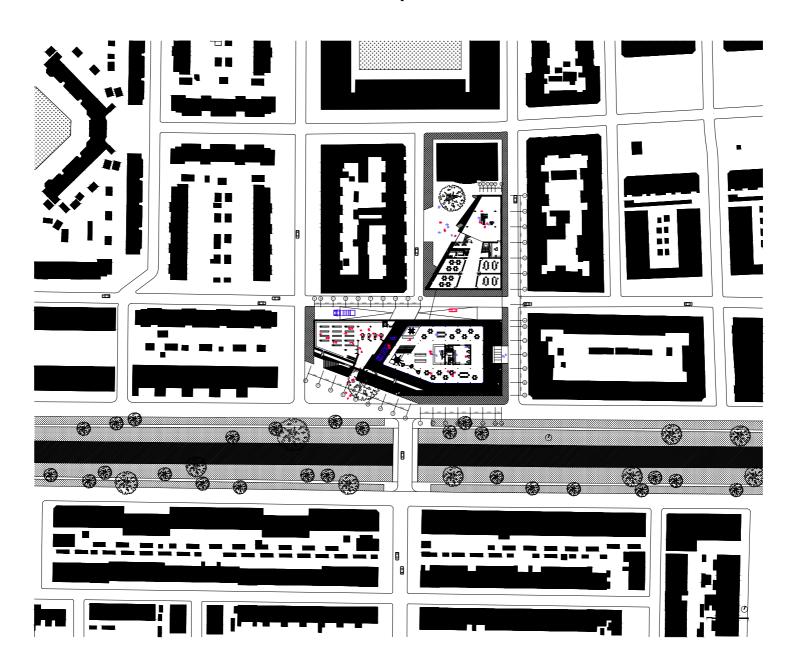
Feijenpoort master plan



Site plan

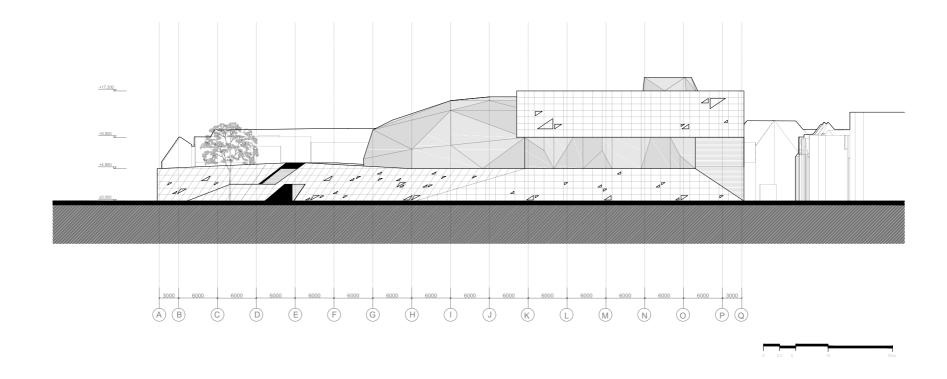


Site plan

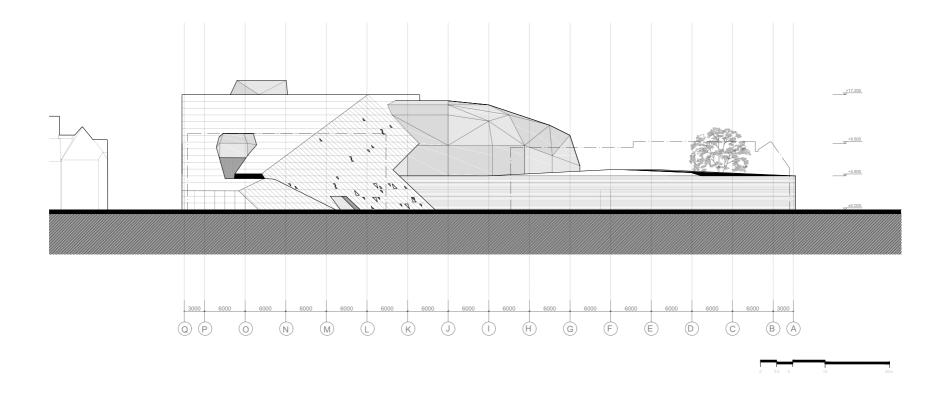




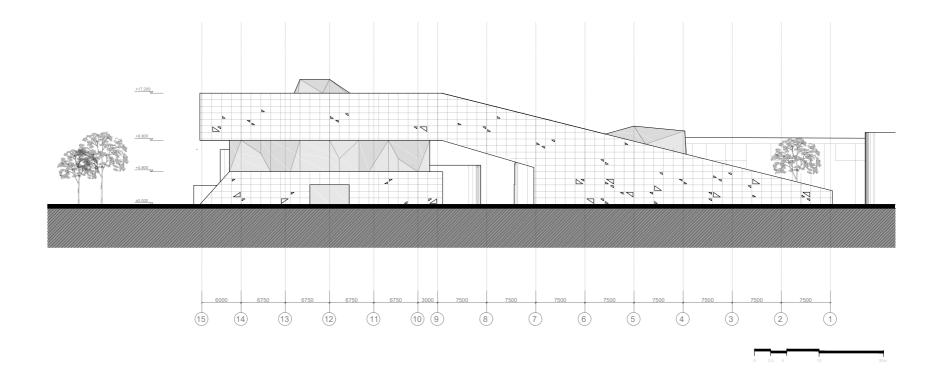
Southern facade



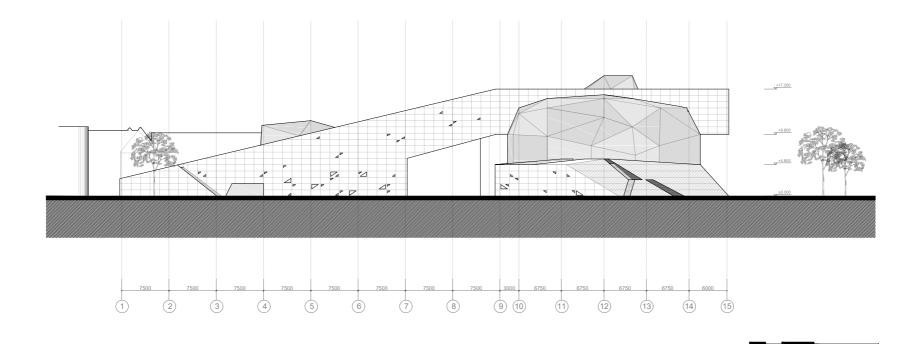
Northern facade



East facade



West facade



Concept: Duality



The artifitial light

To play with, to maneuvre, to operate



Dual properties

Related with human body and interactive behavious



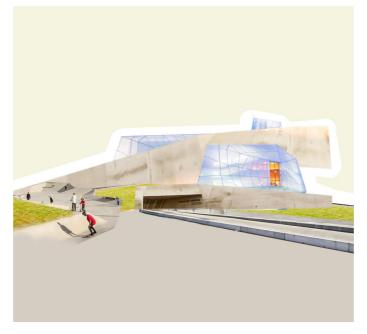
The natural heavy

To play on, to feel, to cuddle

Concept: Heavy & light











The artifitial light

To play with, to maneuvre, to operate

Two properties

Related with human body and interactive behavious

Presentation title

The natural heavy

To play on, to feel, to cuddle

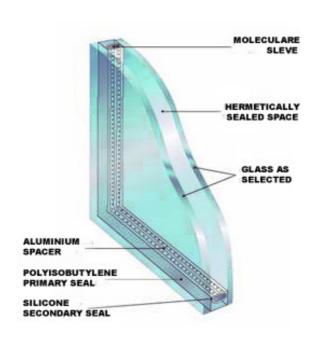
Exterior claddings





Prefabricated claddings - Recycled fiber cement

"Crystal"



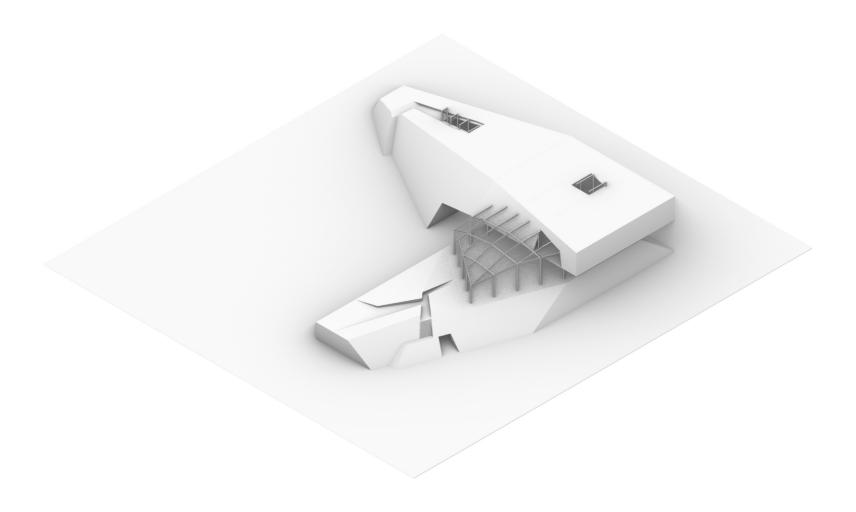




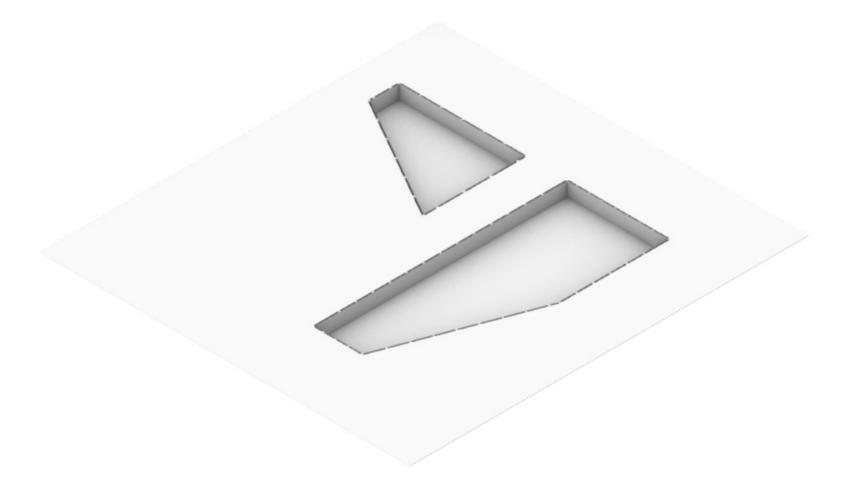
Insulated double glazed glass

Photochromic tinted film

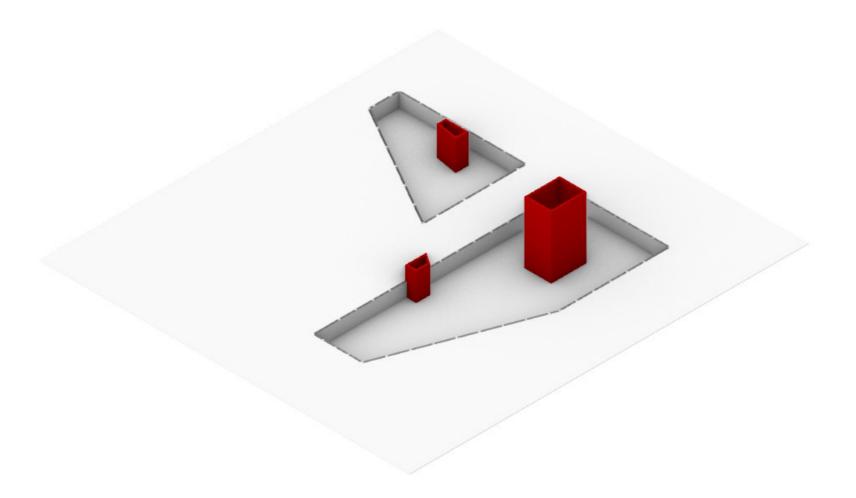
Structure



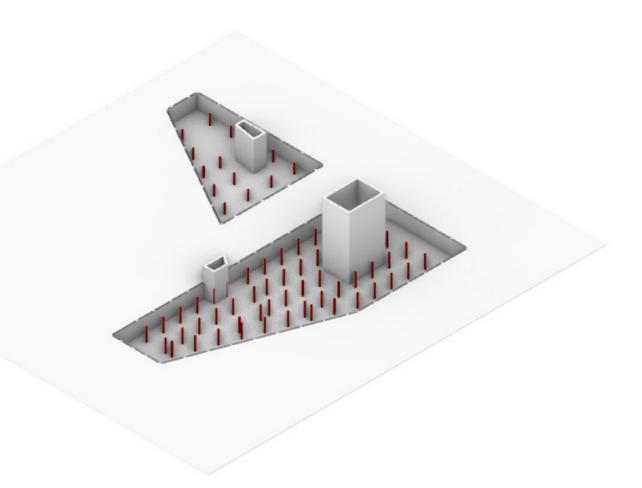
Basement



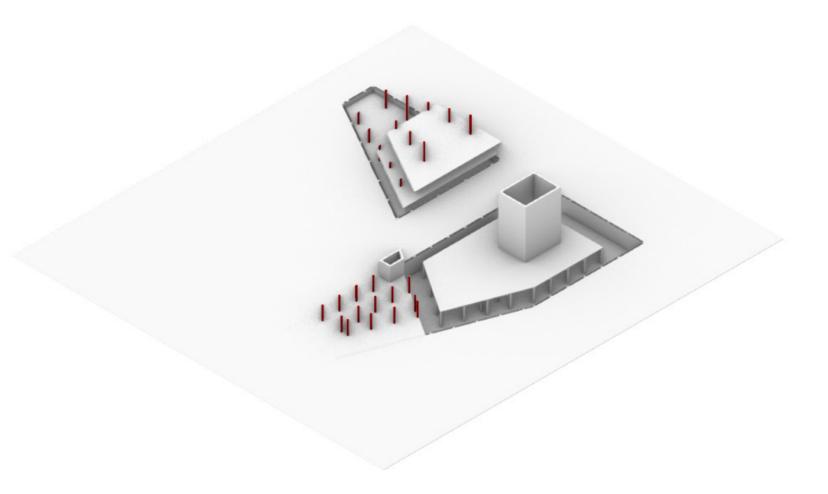
Core



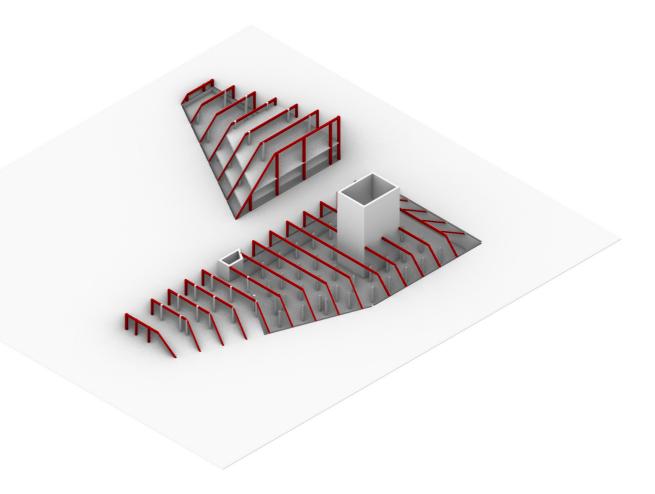
Concrete column



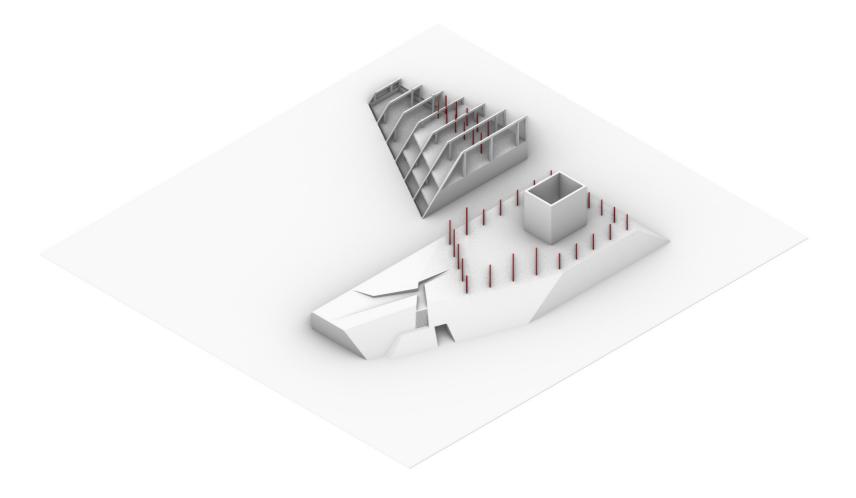
Concrete column



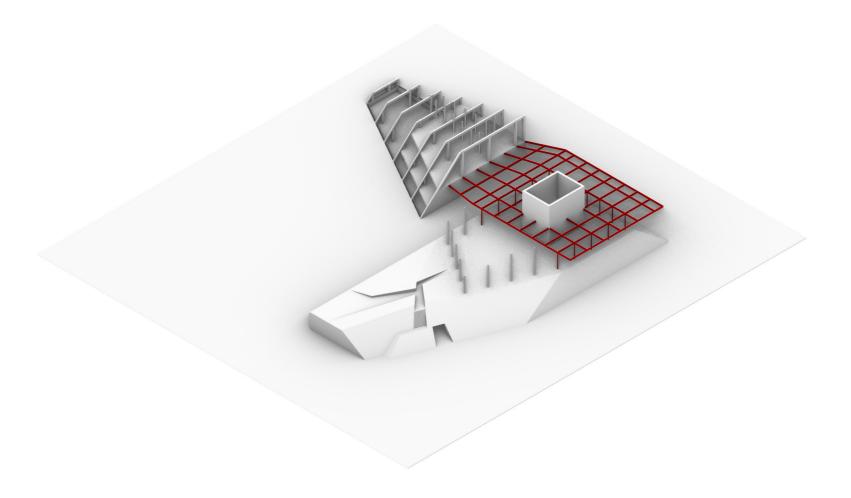
Ribs



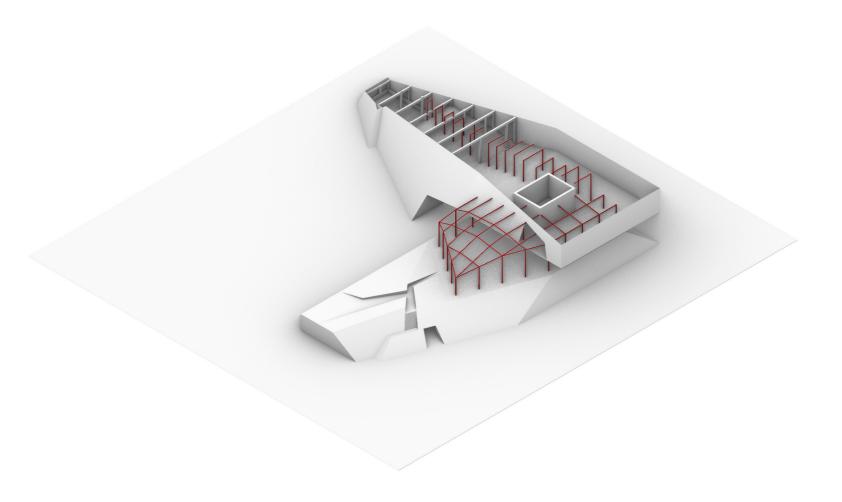
Steel structure



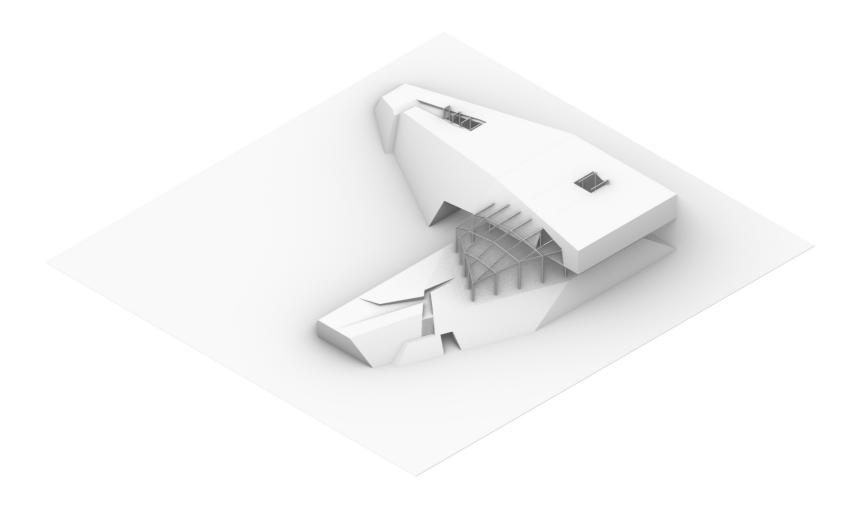
Beam



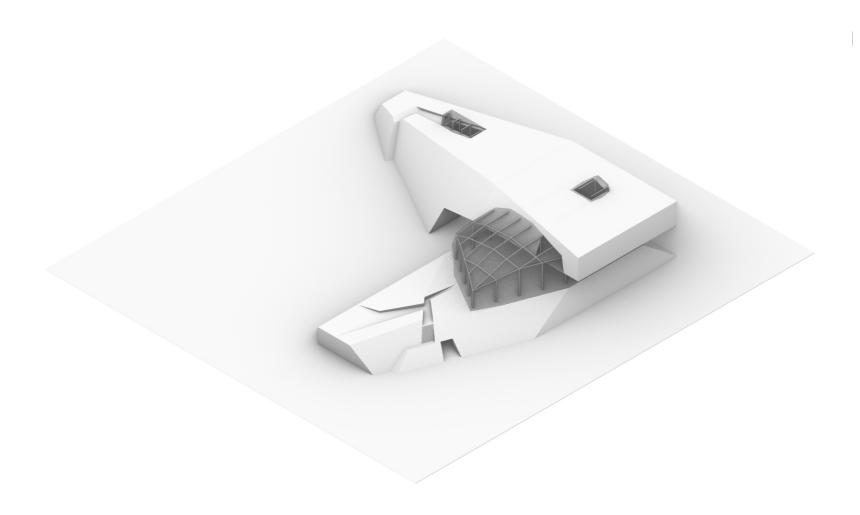
Steel structure



Solid envelop



Crystal envelop



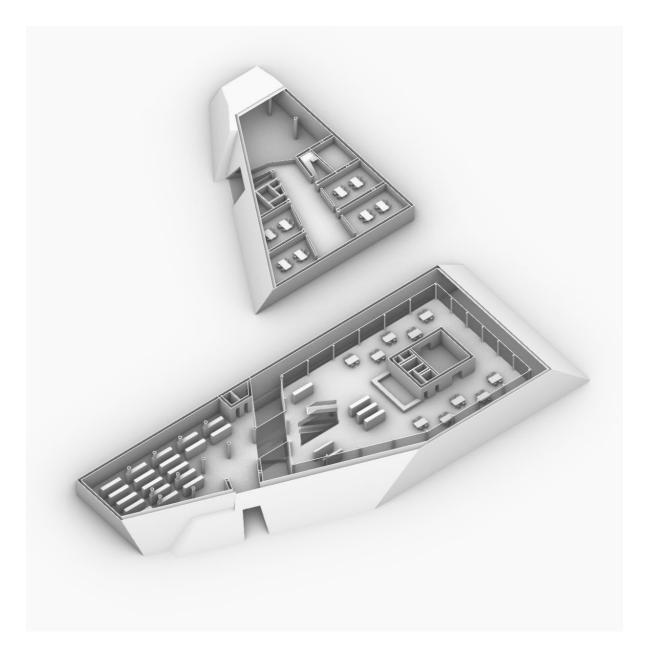
Special claddings

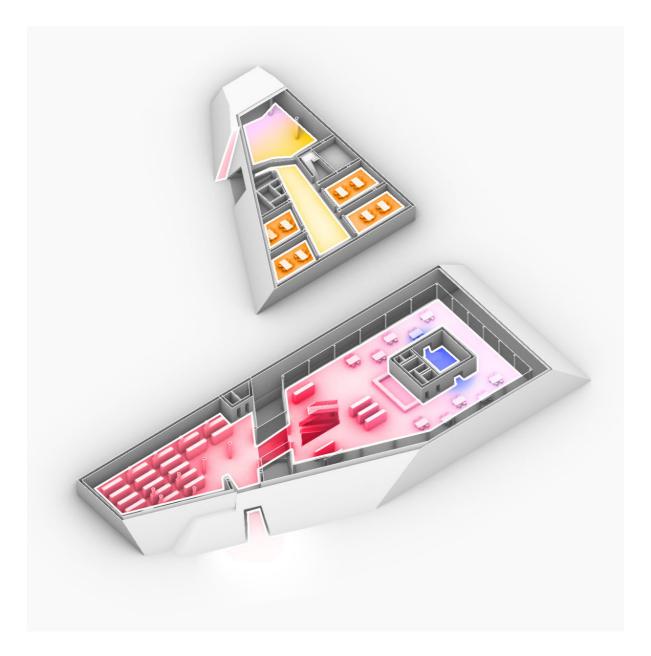




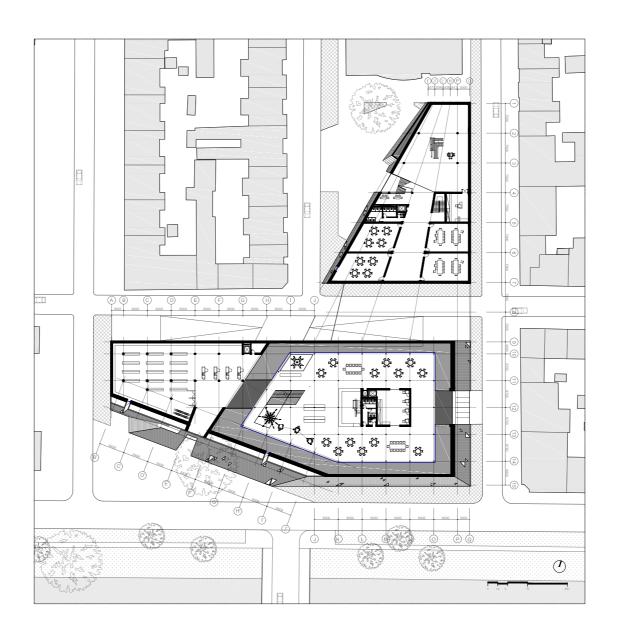
Perforated weathered steel

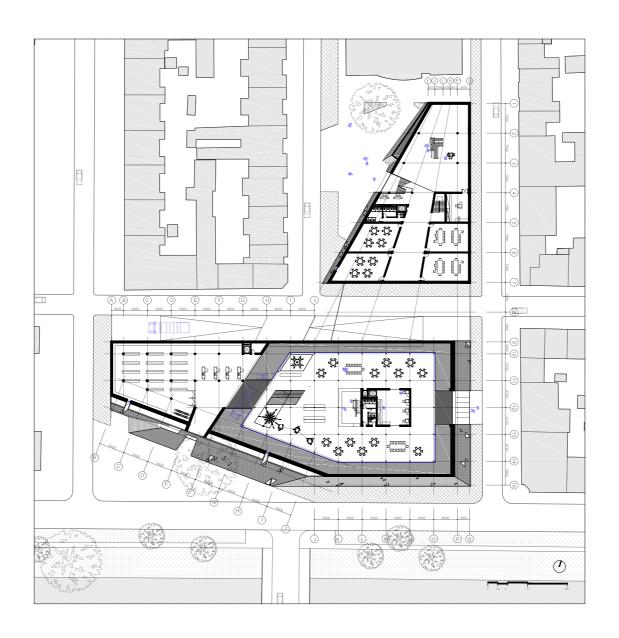


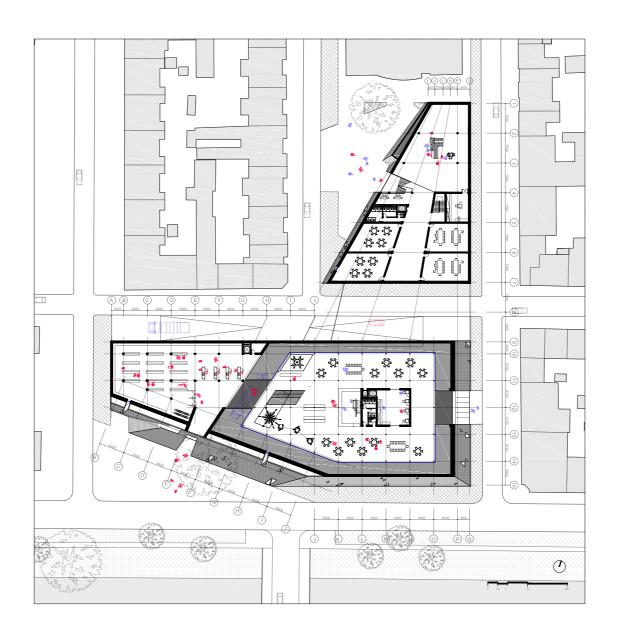




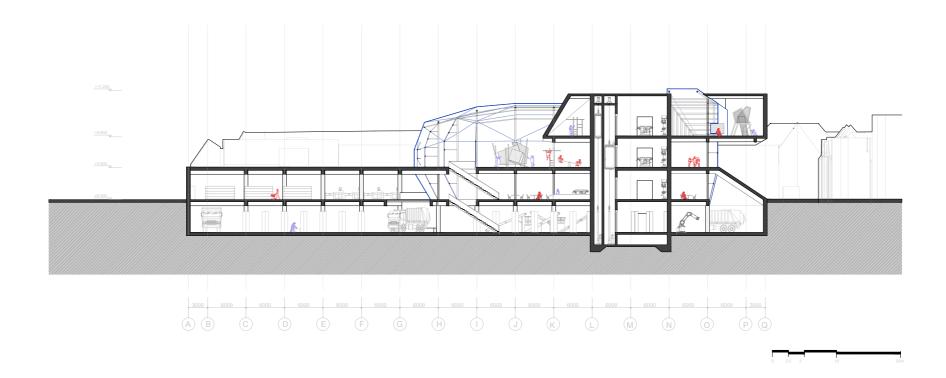




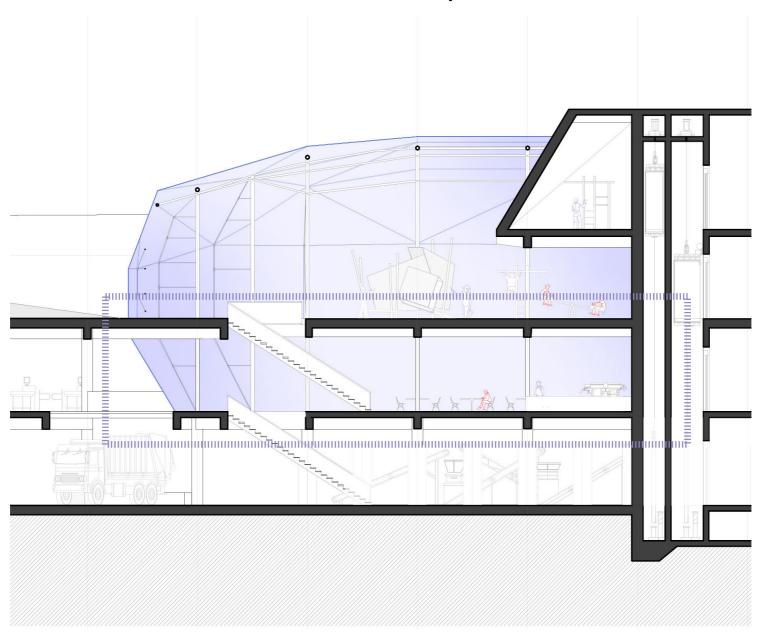




Section A-A



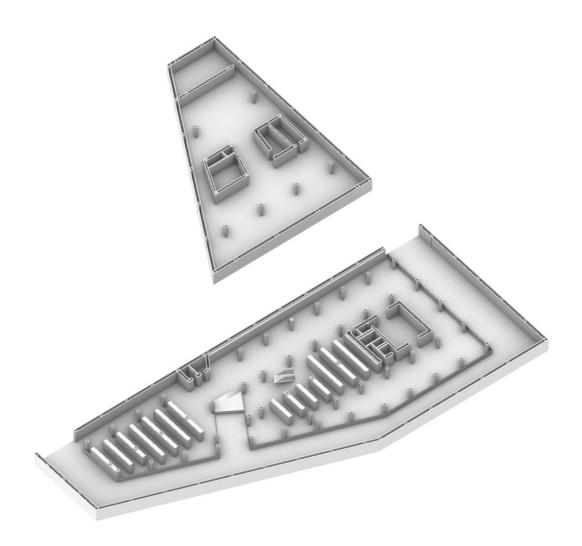
DIY workshop

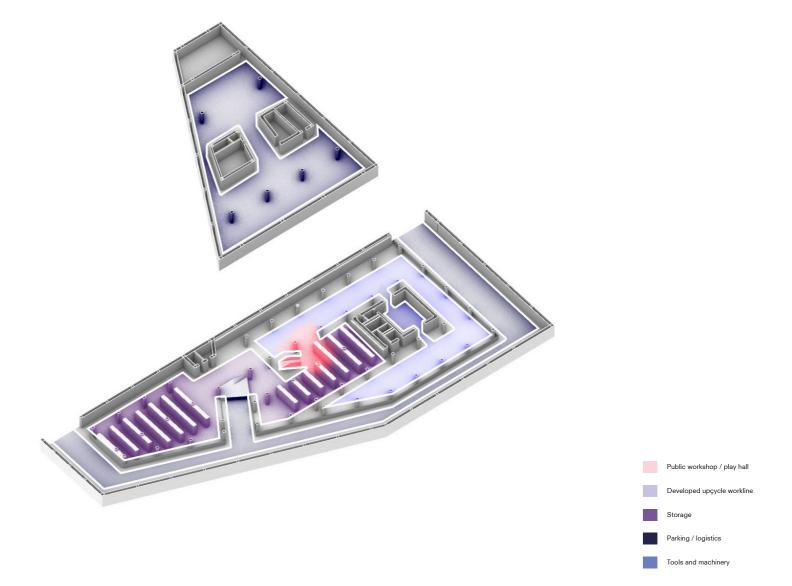


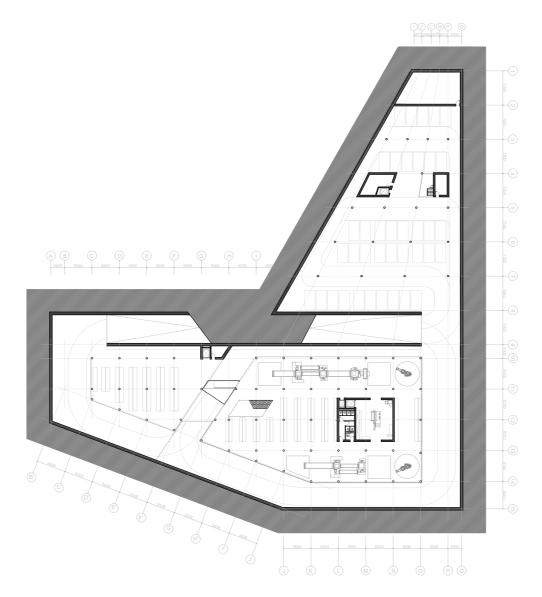
DIY workshop



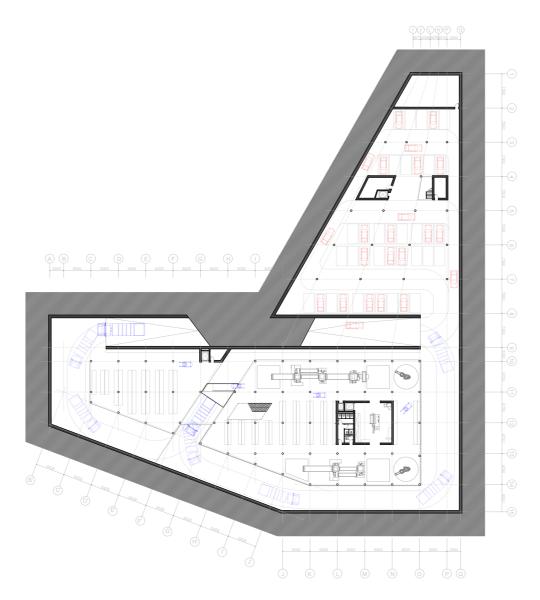


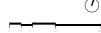




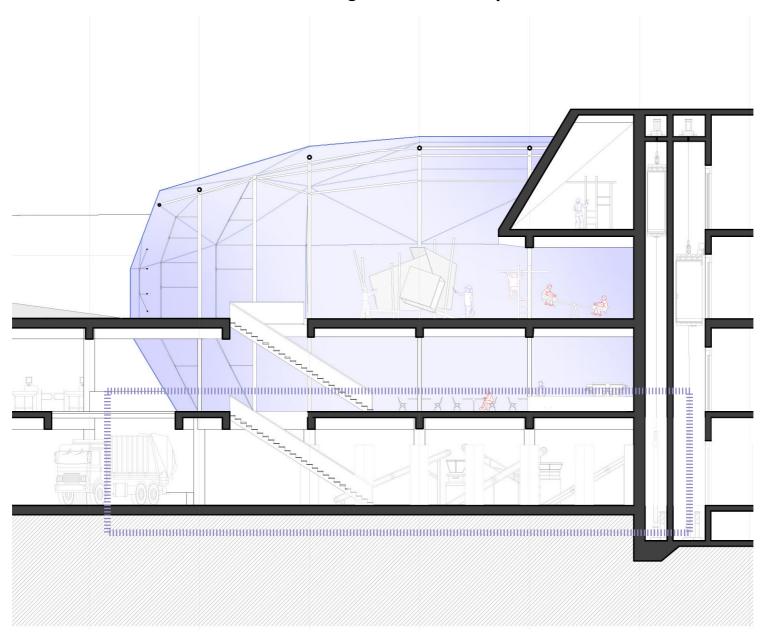




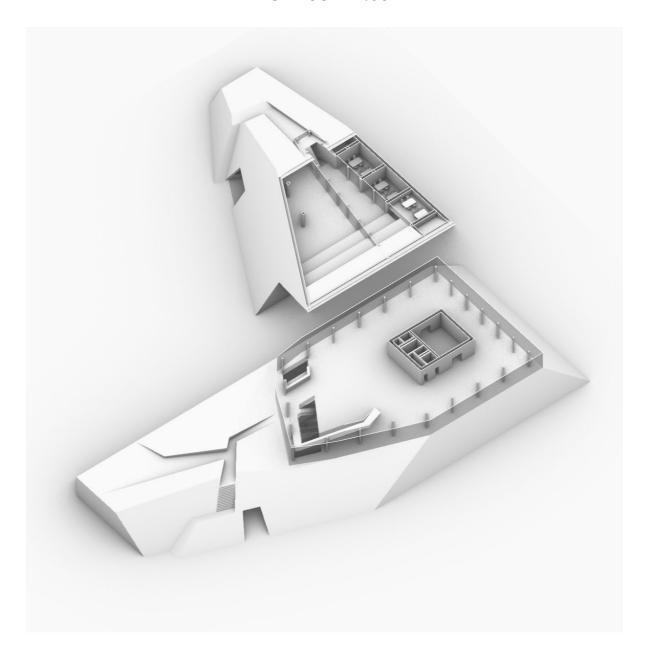


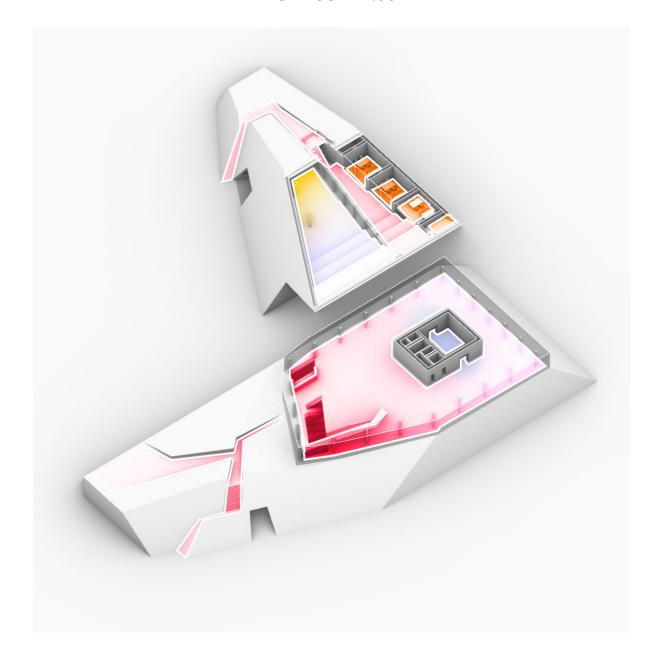


Underground workshop









Private workshop / play hall

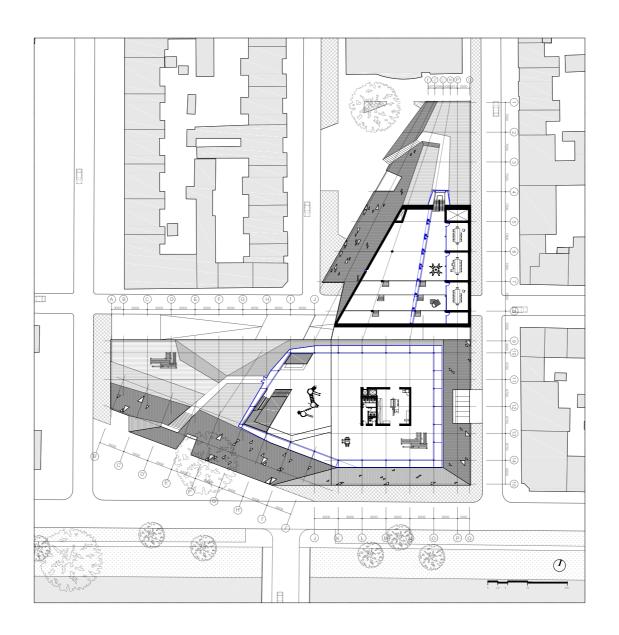
Public workshop / play hall

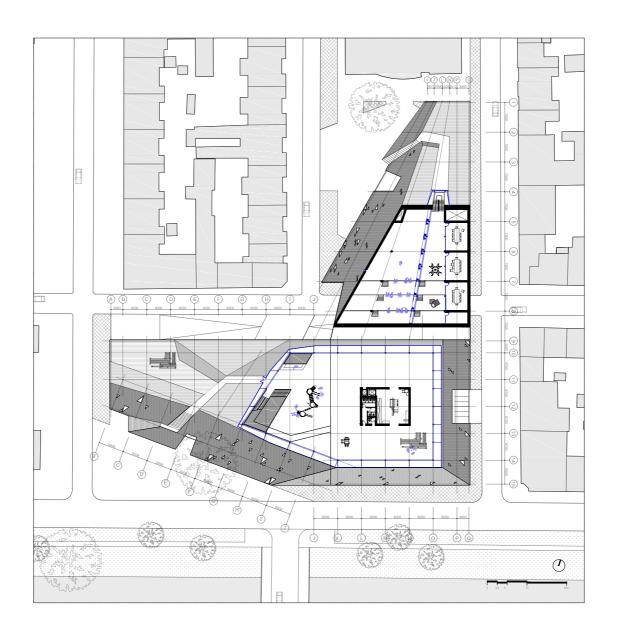
Entrance / reception

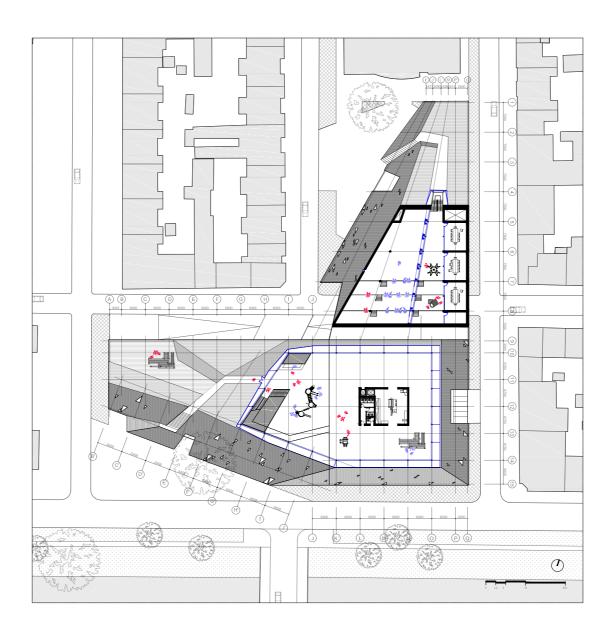
Creative classrooms

School kids' play hall

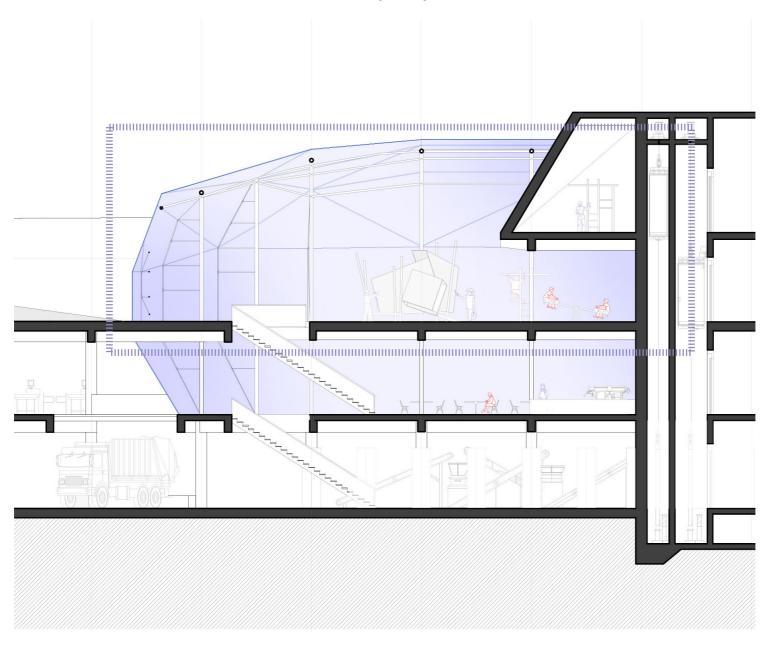
Tools and machinery



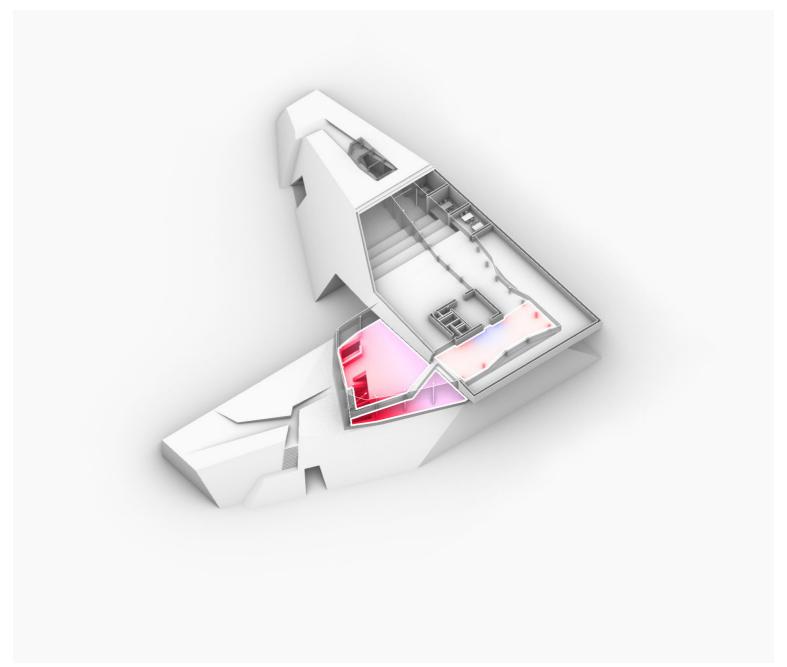




Main hall

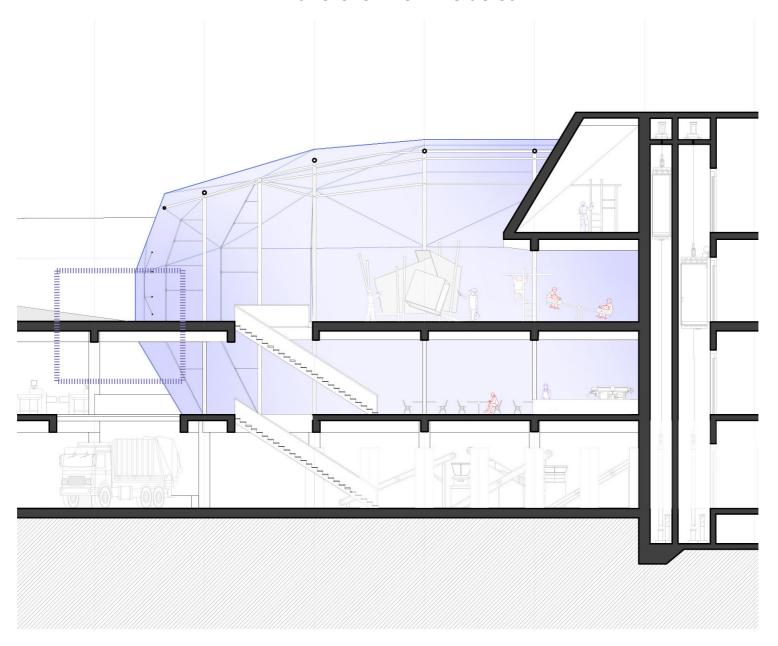


Inserting crystal





Flat & even from inside out



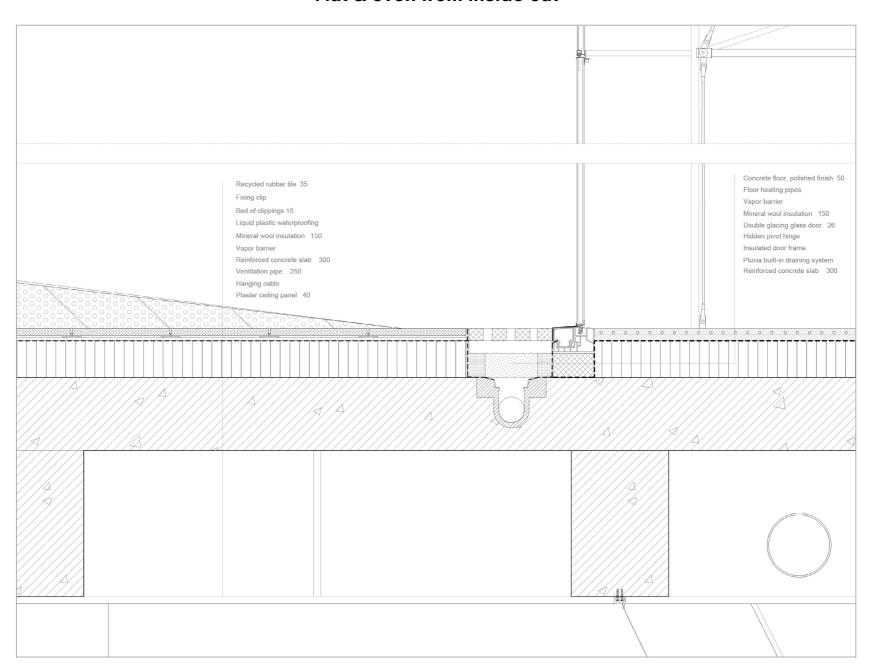
Detail

Flat & even from inside out

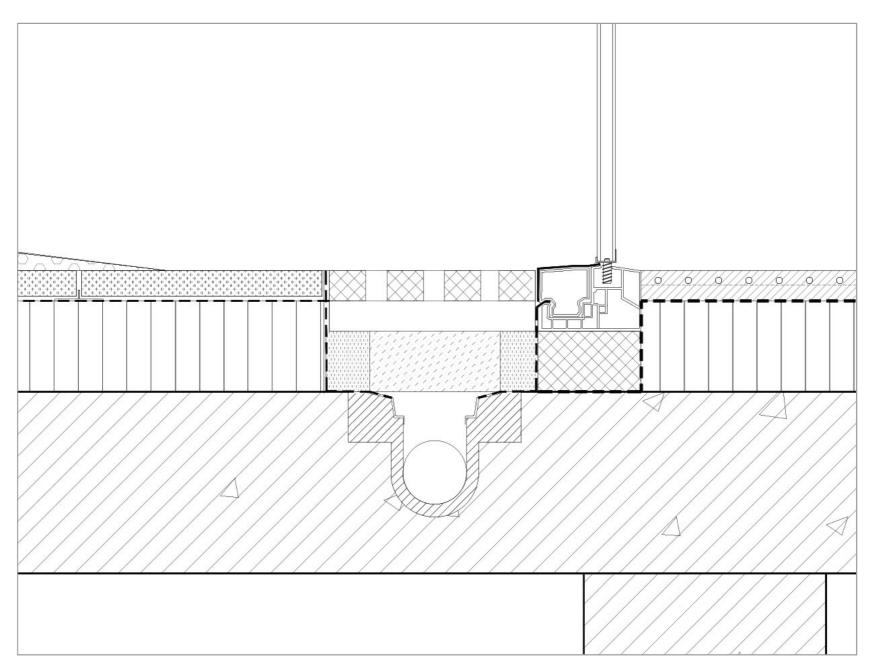




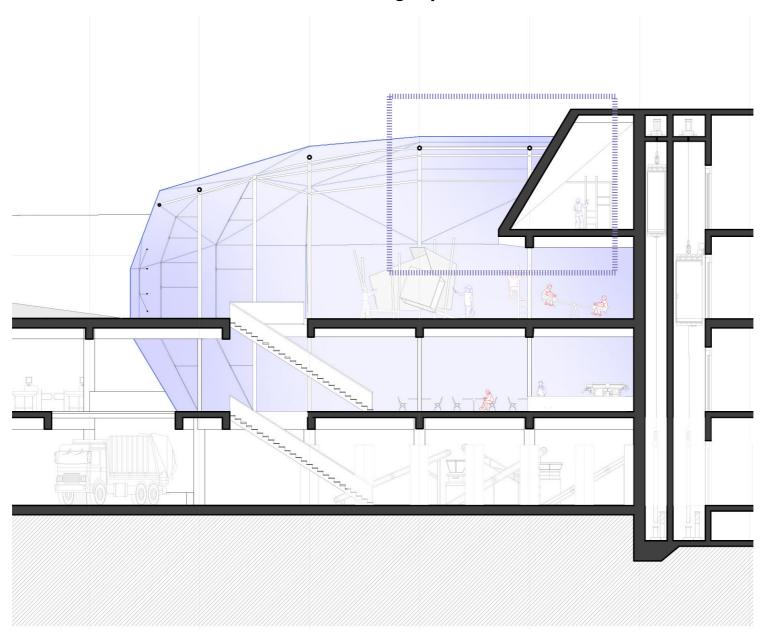
Flat & even from inside out



Flat & even from inside out



Inserting crystal



Bulky solid: Roof gutter

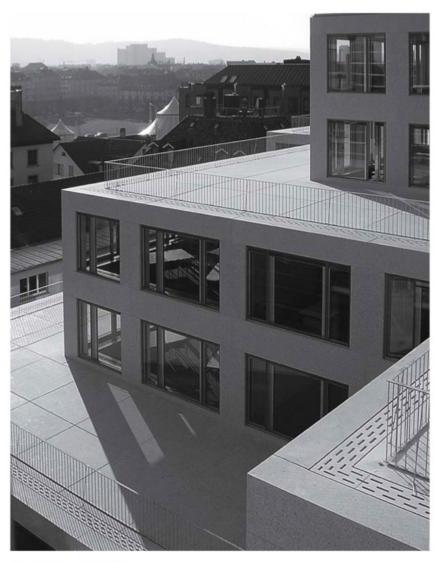
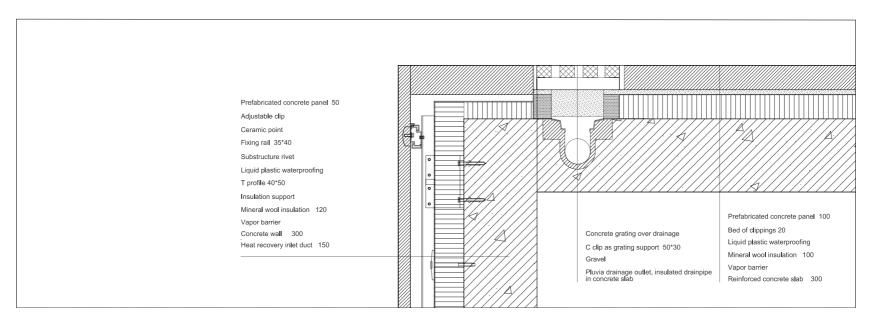
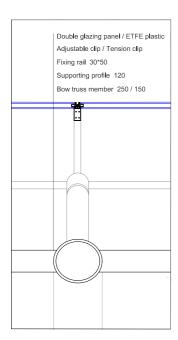


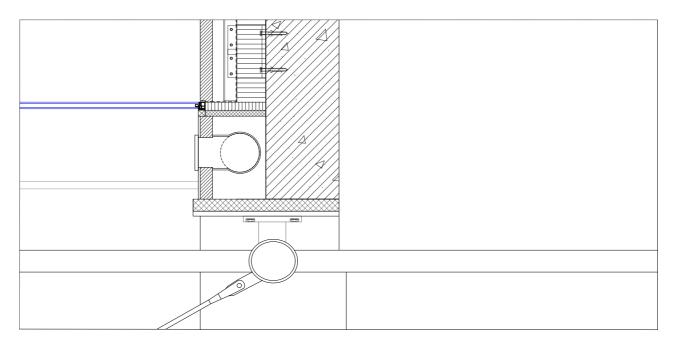
Fig. 194: Terracing at rear of building
Terraces and facades are finished with polished reconstituted stone panels; corner and edge pieces are three-dimensional elements.

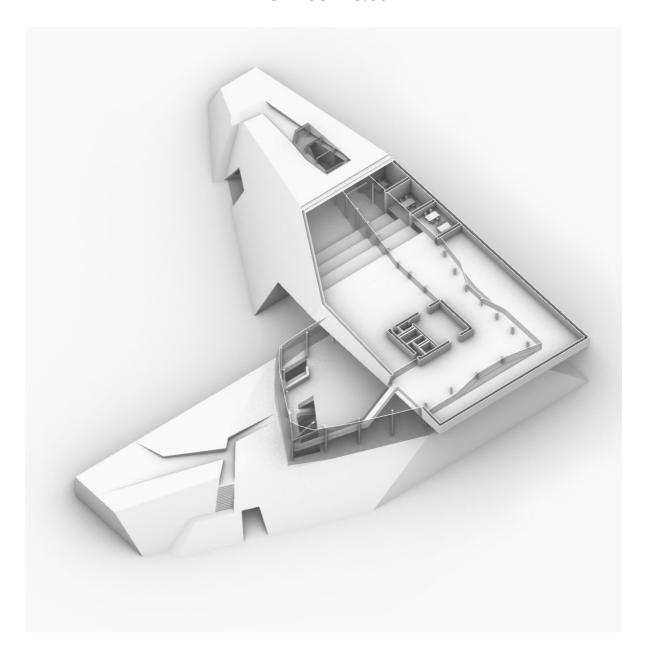
128

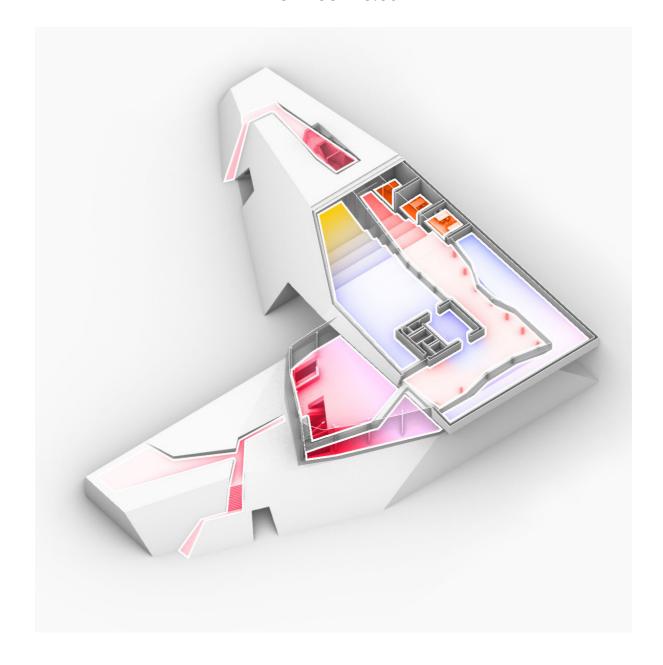
Roof gutter + intruding crystal





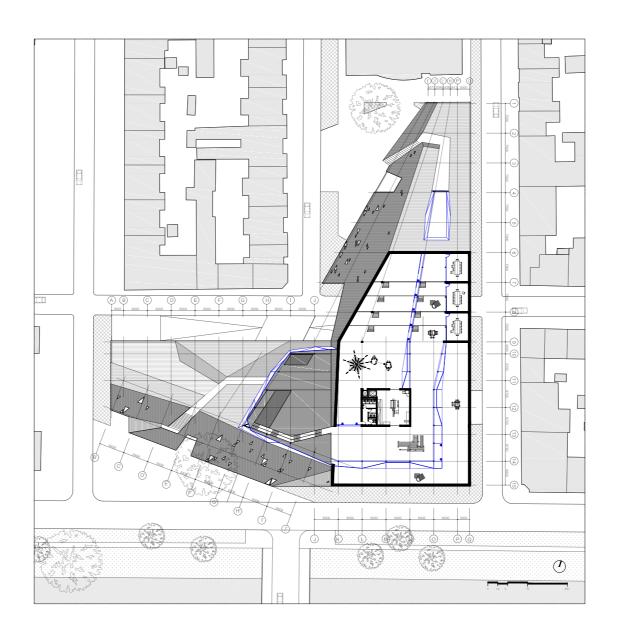


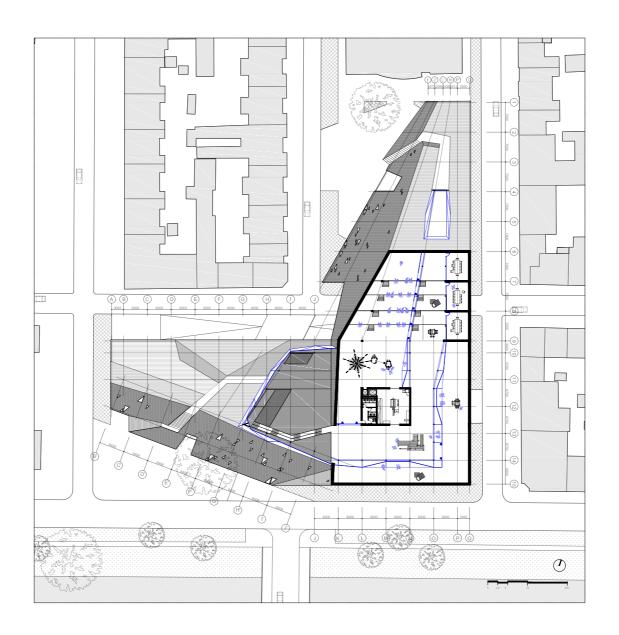


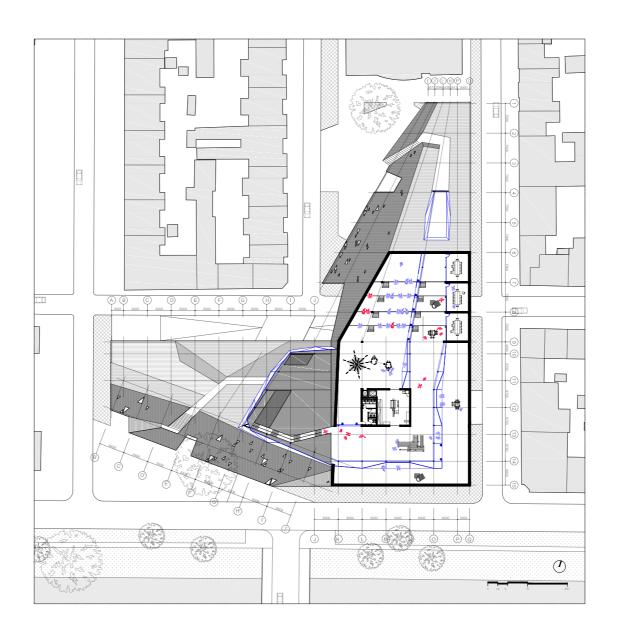


School kids' play hall

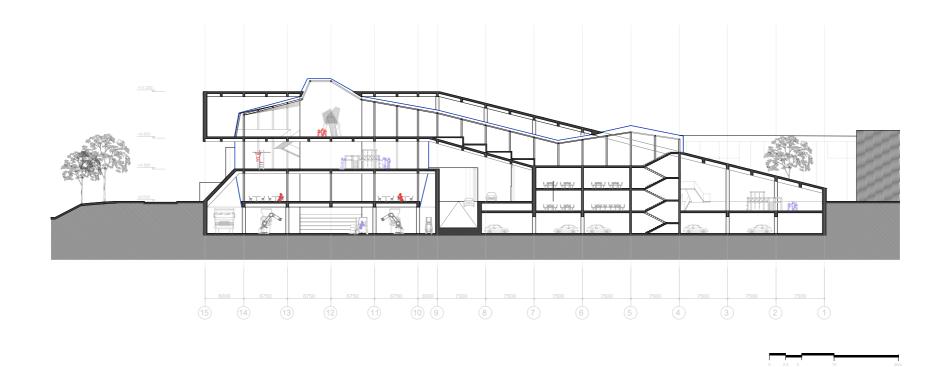
Tools and machinery







Section B-B



Fragment

Ascending canopy



Special claddings









Perforated weathered steel

Acrylic colored claddings



Interior claddings



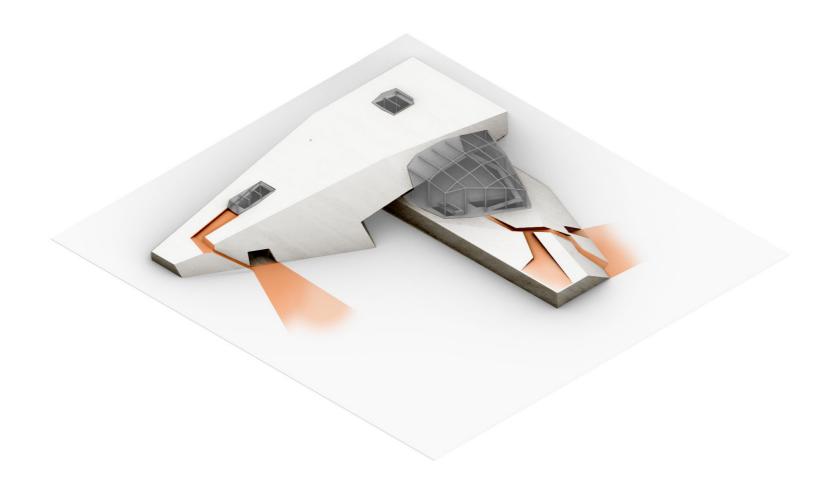


Wood and plaster





Walkable roof



Special claddings













Perforated weathered steel

Acrylic colored claddings

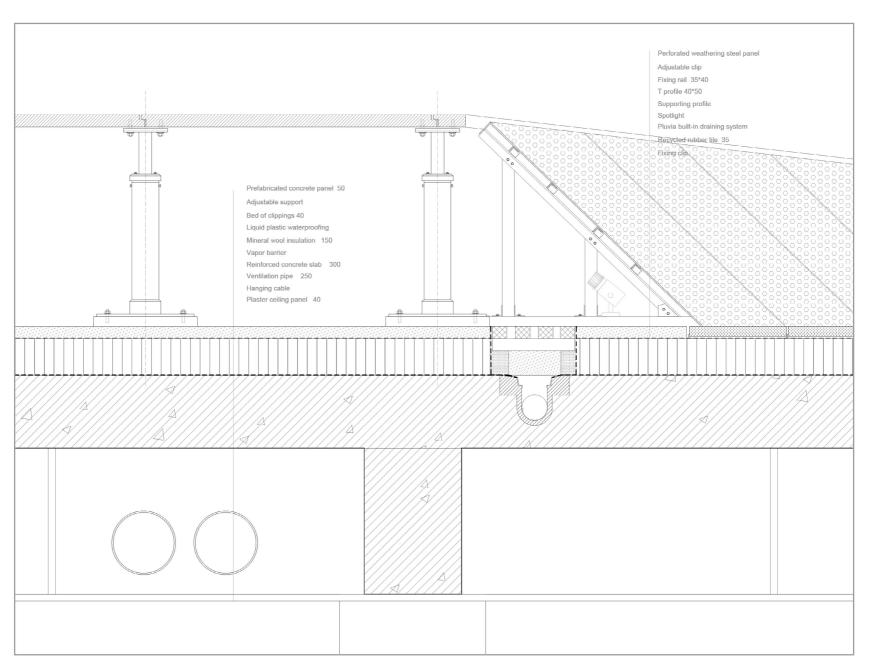
Recycled rubber tiles

Detail

Luminated cracks

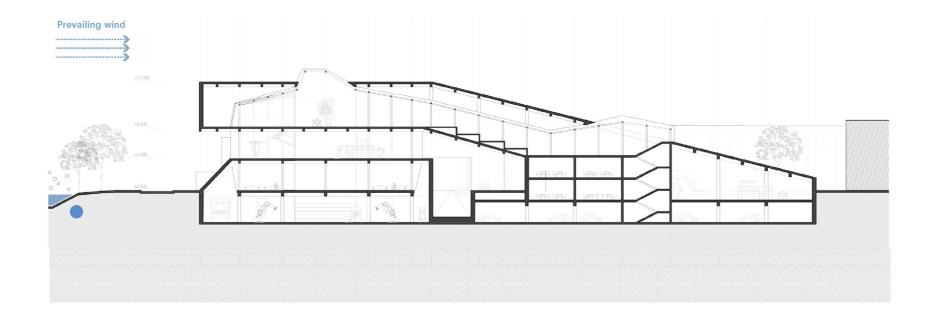


Luminated cracks

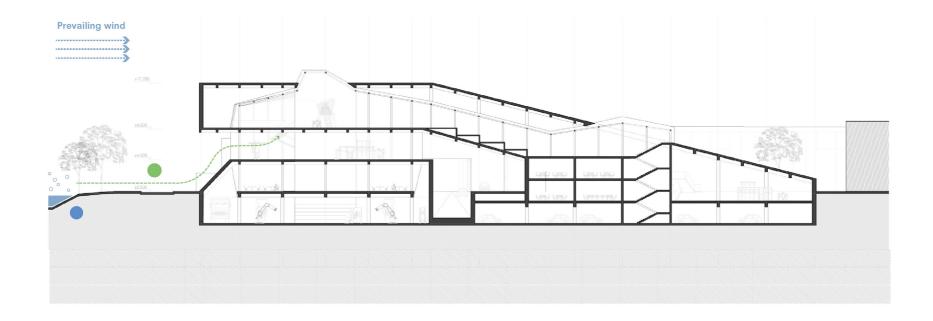




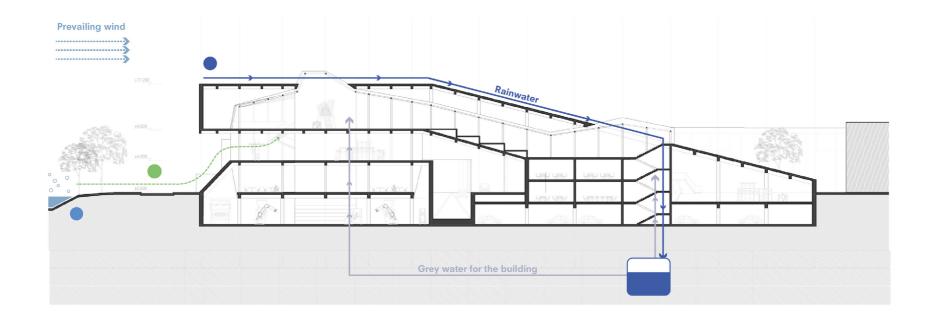




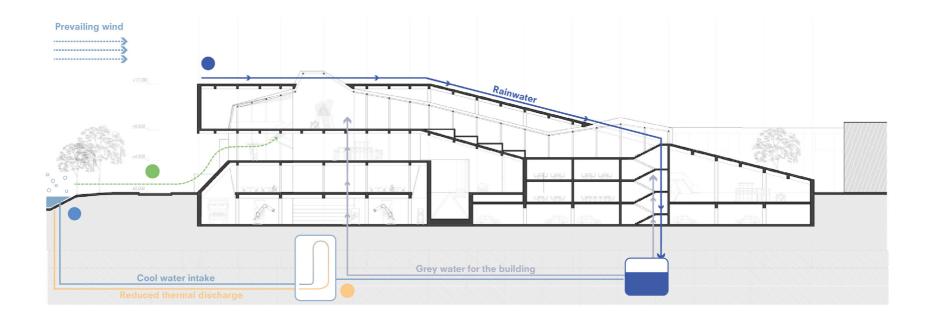
Canal effect



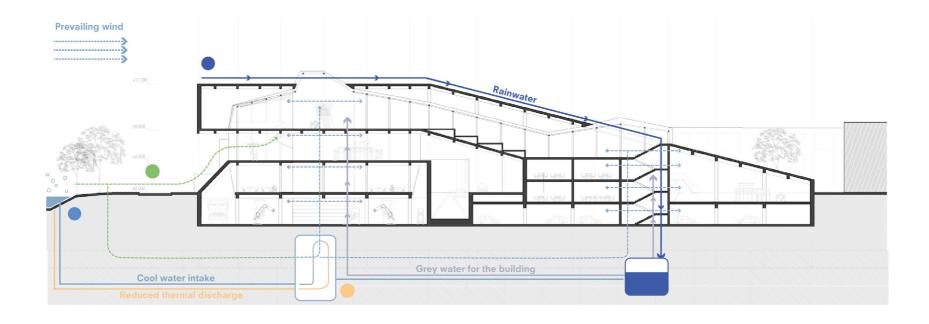
Canal effectOudoor comfort



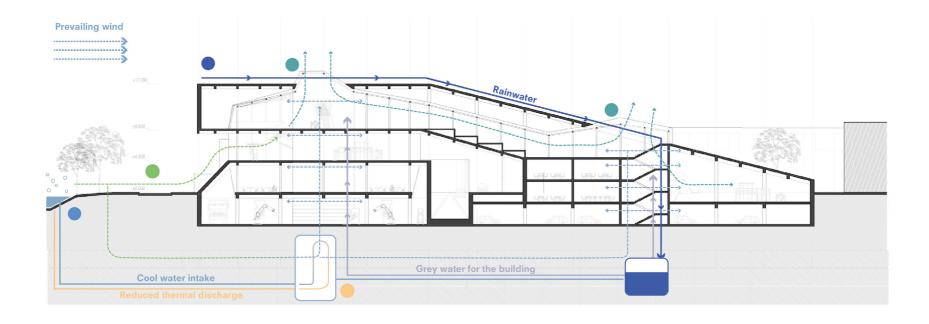




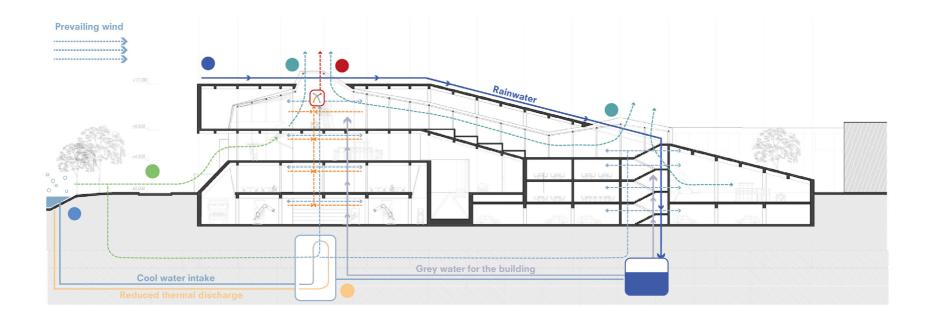








Canal effect
 Oudoor comfort
 Rainwater collection
 Ground heat exchanger
 Passive ventilation



Canal effect
 Oudoor comfort
 Rainwater collection
 Ground heat exchanger
 Passive ventilation
 Heat recovery

Sun shading solutions



Solar control film

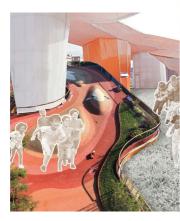


Light-colored reflective mesh panel

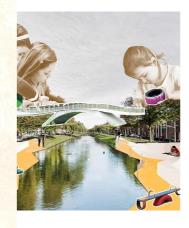




































THANK YOU.



complex projects