Fabric transformation for the public space in friction

Resident's sanctuary passage of external group

Reinforced student domain, Invited external groups

Transition to plaza for external groups

Koosung jae, heritage and architecture
Fabric transformation for the public space in friction

in my project means not a conflict, but an interaction at the interface between different social(target) groups, thus vitalize the space

Woosung joe, heritage and architecture
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Fabric transformation for the public space in friction

in my project means not a conflict, but an interaction at the interface between different social(target) groups, thus vitalize the space.
Have the target groups been in a positive friction at the plaza?
Have the target groups been in a positive friction at the plaza?
No, Uva and Residents have been in conflict
Residents need privacy and there own domain, Uva needs larger student facilities

the massive library plan and the protest against it, which resulted in the project cancellation
the massive library plan and the protest against it, which resulted in the project cancellation

Consequently, the plaza has remained spatially divided by residents and students, it doesn't show any prevailing identity of a group.
Space not characterized by a single identity = no identity = mere utility space
As you see... no reason for visitors to use this space for interaction
Good public spaces
Both spaces show strong identities, either for residents or commercial sectors. The activities in them can be observed by external visitors. This gives the new experience to the visitors and makes them feel public there.
Building block defines the border of identity
Museum Quartier Austria

Monumental spot

Surrounding fabric

Tourist

Artist

Art school student

Restricted car access
No level difference
Flexible seating place
Restricted car access
No level difference
Flexible seating place
Monumentality
Space of identity
User group
Facilities
We have the monumental student centrum

We have Students and Tourists as an active user group of plaza
We have Students and Tourists as an active user group.

What we are missing – space of ideas.
We have Students and Tourists as an active user group of plaza.

What we are missing – space of identity and facility

Splited plaza

No seat

SO it is not public

How we sense 'public' at a public space?
SO it is not public

How we sense 'public' at a public space?

Martin Haajer: public is not mixed, a stranger feels public when he is invited into a clear identity of an enclave and observing unique activities happening there

I strongly agree thus....
confronting fabric

Residents

Residents

Residents

Residents

Resident

Resident

Students

Students
Vision

3 interrelated strategy around the 62 social housing

Reinforced student domain Inviting external groups

Transition to plaza for external groups

Residents sanctuary and Passage of external group

Students  Residents  Tourists
Fabric transformation for the public space in friction

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Vico Sung Joe, heritage and architecture
Reinforced student domain, Invited external groups
related strategy
the 62 social housing

Reinforced student domain
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Transition to plaza
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Yoosung Jee, Heritage and Architecture
Reinforced student domain, Invited external groups
Problems

Not attractive for student activity
Not asking to shut up near the building
No seating

Facade fabric - dual identity for temporary event
blended with building material
attracting people with light
Design

- Reduced opening size of residence unit
- Sound insulation on window/wall
- Media facade
Facade fabric – dual identity for textures

blended with building material

Drug store building, Paris

Static fabric is less attractive
entity for temporary event

attracting people with light

Static fabric is less attractive than dynamic fabric, regardless of its shape
Facade fabric triggering interaction

Minimum pixel resolution

2 times denser pixel chosen
Keeping the same panel size
Installation type selection

LumiSheet

least LED installation
best overlaying transparency
Overlayed texture on the brick texture background

20
Media panel on Brick slice / Brick cavity wall

21
Media panel on Stucco

1. Conduit connected to LED light
2. LED light source / heatsink module / Acrylic light guide
3. C channel mount on stucco
Ground fabric

Overcoming different level for public activity
Residents sanctuary passage of external group
Transition to plaza for external groups
Am I entering cul de sac of a residence block???
Am I entering cul de sac of a residence block???
Am I entering cul de sac of a residence block??

No, you are on the street of Amsterdam!

How and for which advantages did I change the facade?

In which way is my design significant?
Significance of vertical facades

1. Transition connecting the north and south
Significance of vertical facades

1. Transition connecting the north and south urban tissues

2. Vernacular diversity than Modern single monument

Student centrum is enough to be a single monument in the area. Rest of them should be
2. Vernacular diversity than Modern single monument

Student centrum is enough to be a single monument in the area. Rest of them should be periphery.

The 100m long white abstract housing is exceptional in Amsterdam and collide with the significance of Student centrum building in terms of identity.

3. Medieval Amsterdam = Modern contrast in the middle of pre modern
3. Medieval Amsterdam = Modern contrast in the middle of pre modern

Mixing the overwhelming modern existing residence with the retrospective new intervention resembles the urban identity of Amsterdam
4. Advantages of verticality on the street experience

different perceptual intensity every 5m 〉 increased time for people to stay at the street, in combination with ground floor program

Ref. Jan Gehl
How I came to the design
Step of facade design: Facade formular

Example: Prinsen gracht, heritage area

No contamination of modern, white, super block
Example: Prinsengracht, heritage area

No contamination of modern, white, super block

Difference in roof, window openings, materials wins over their repetition and makes entities distinctive each other
Meaningful white opens new openings, materials and makes entities
Meaningless white
distinctive each other
Sillhouette

Areal rhythm

Linear rhythm

Split window layout
Initial approach – Gable, Tint, Split window layout
Visual intense leaning forward facade, expressive facade

Until reaching the spot, one cannot see the centrum

Most impressive facade group
Until reaching the spot, one cannot see the centrum

Most impressive facade group

Spatial value of facade change

Roof Terrace
Spatial value of facade change

Large unit

Roof Terrace

Double height
Various shape of space under roof
Balcony, Loggia
Double height
Various shape of space under roof

student flat

Study she
student flat

Study shelf
Facing south & upward

interior feeling like outdoor

Bright shelf
Facing south & upward

interior feeling like outdoor

Bright shelf

Study shelf
Balcony, Loggia

Simplifying complexity: 50lux is recommended for balconies and loggias
Acuity: To what extent is the opening adjusted?

Bed for bedroom

Installation
Simplifying complexity: To what extent

50lux is recommended for bedroom

Good light, less insulation
Simplifying complexity: To what extent is the opening adjusted?

50lux is recommended for bedroom

Good light, less insulation

Worse light, better insulation

Existing 55%

Project window ration: 38~45%
it is recommended to have more wall area than open...
have more insulation on east, than opening area
Existing 55%  Project
wall window ration: 38~45%

It is recommended to have more insulation on east, need more wall area than opening area.
R-7 aimed wall composition

Existing (2.31 m²K/W)
- 214mm existing brick (0.35 m²K/W)
- 66mm existing EPS (1.78)
- 5mm existing Stucco

Type 1: Appearance preservation (7.31 m²K/W)
- Finish
  - Acoustic layer - sector 8
  - PVC Vapo layer
  - 100mm Isocyanurate (5m²K/W)
  - 214mm existing brick (0.35)
  - 66mm existing EPS (1.78)
  - 5mm existing stucco

Type 2: Brick cavity wall (6.82 or 9.18 m²K/W)
- Finish
  - Acoustic layer - sector 8
  - PVC Vapo layer
  - 100mm EPS in timber stud (50x200mm) (ca. 2.7 m²K/W), or 214mm existing brick (0.35)
  - 120mm Isocyanurate (6)
  - 50mm Cavity wall (0.18)
  - 100mm outer brick (0.12)
need more wall area than opt...
Site analysis conclusion: simple stack of various brick sizes > 3 different sizes of brick applied
Site analysis conclusion: simple stack of three different sizes of brick applied.
Tool for the opening variation
Adjacent head to the floor bottom
Detached head from the floor bottom

Facade program & facade types

General Seal
Seal on the floor

Loggia
Balcony

Existing wall composition
Then after I managed to draw typical detail
Existing wall composition

214mm masonry filling

Existing concrete structure
Existing wall transformation

- Reinforced insulation
- Reduced Load
- Sound barrier layer at plaza side

Opening variation

Lateral stability margin

Regular horizontal method
Wall window ratio, proportion

Existing: more than 53%
Recommended: less than 40%
for over R-7 value
Design: 38~45%
Considering interior light level (>50 lux)
Result

Various sizes, depth of openings
Different wall depth between old facade and new facade
But also repetition was used to give unity
was used to give unity

Prezi

holders und Haagse vailantlaan
Reflection: between Soeters and Haagse vailantlaan

Main + Sub Architects' cooperation

One architects toolbox approach

Maximum repetition, hard to control the individual style

Reduced complexity, explicit repetition

Can complement each other to achieve a variation in a balance of scale and the different modern elements.
Reflection: between Soeters and Haagse vailantlaan

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Reduced complexity, explicit repetition

They can complement each other to achieve a variation in a balance order to make both the difference and the repetition composed meaningfully.
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