New UNIversity @ TRAMREMISE
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Design
- Building and Context
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Studio Amsterdam at Sea

The Netherlands

Country: The Netherlands
Capitol city: Amsterdam
District: North Holland

Facts:
Part of the Randstad
Inhabitants: 800,000
Urban Analysis
Urban Analysis

De kinkerbuurt
Urban Analysis

Historical growth

1879

1894

1909

1929

1901

1908

1914

1954
Urban Analysis

Situation

- Tollenstraat
- Bellamy Square
- Ten Cate Market
- Kinckerstraat

Demolished city cleaning office
Urban Analysis

Situation

- Tollenstraat
- Bellamy Square
- Ten Cate Market
- Kinckerstraat

Demolished city cleaning office
Architectural Analysis

East Facades

East facade at the Tollenstraat
Architectural Analysis

East Facades

East facade at the Tollenstraat

[Images of East Facades]
Architectural Analysis

North Facades

North facade at the Bellamy square
Architectural Analysis

North Facades

North facade at the Bellamy square
Technical Analysis

Routing tram

Routing people

Main direction
Technical Analysis
the human scale

Floor surface: 11795 m²
1.65x Soccerfield
4 x South Serre Bouwkunde

Evert van Imhoff 1283650 P5 presentation 02-07-2013
Technical Analysis

Polonceau Trusses

[Diagram of Polonceau Trusses]
Technical Analysis

Current state
# Value Assessment

<table>
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| Architecture |

| Building Technology |

| Cultural/ History |
Fascination

For RMIT and this project
Fascination

For RMIT and this project

Options

THE TRAMREMISE
WESTERGAS FACTORY
NDSM WARF
MUSEUM SQUARE
LINEAUS SPORTSCENTRE
Fascination

For RMIT and this project

Opportunities

Experience
Development trend

Technical Development

Initiators

Jan Derksen, professor of clinical psychology at the Radboud University Nijmegen, has had it with his gaping, eating and talking students.

"Instead of old-fashioned lectures, the future university should “merge with the Internet.”

Marten Blankesteijn says:

“Professors run the same story every year. Why wouldn’t you, when a story has no need for interaction, record one amazing story and show it to the students on there own time?”
Initiators

Jan Derksen, professor of clinical psychology at the Radboud University Nijmegen, has had it with his gaping, eating and talking students. “Instead of old-fashioned lectures, the future university should “merge with the Internet.”

Marten Blankesteijn says: “Professors run the same story every year. Why wouldn’t you, when a story has no need for interaction, record one amazing story and show it to the students on their own time?”
Development trend

Local problems

Today the occupancy rate of the university libraries in Amsterdam is 100% during the exams and this becomes even more critical when all educational departments are having the same 8-8-4 timetables. (M. Straathof CSR, 2012)
New Program

Idea

An educational centre for the Randstad

Opening hours

24/7

Central point to Regional and local

Safe place to go

Central point to Regional and local
New University

Concept local

TUDelft
University of Leiden
Erasmus
Wageningen University
University of Groningen
Radbout Nijmegen
University of Utrecht
New University

concept international
New University

concept national
Starting Points and opportunities
Design

Phases and principles

Old structure
Main intervention
Inner intervention
Main element
Connecting program

One Entrance
Low accessibility, hidden, industrial, functional
Design

Phases and principles

Old structure
Main intervention
Inner intervention
Main element
Connecting program

Second axis, passage
High accessibility, transparent, industrial, relation with Bellamy Square!
**Phases and principles**

Old structure
Main intervention
**Inner intervention**
Main element
Connecting program

**Third axis**
Higher accessibility, transparent, new traverse hall, human scale
Design

Phases and principles

Old structure
Main intervention
Inner intervention

Main element
Connecting program

The Bridge
Better routing, secure, relation inside/outside, human scale
Design

Phases and principles

Old structure
Main intervention
Inner intervention
Main element
Connecting program

As one connects main program, better overview, more interaction
Design

Follow the existing structure

Formal direction of the Tramremise

Follow the existing and keep materials and construction visible
Design

Follow the existing structure

Formal direction of the Tramremise

Follow the existing and keep materials and construction visible

New Direction for the Human

dependent to the existing and cuts through the existing structure
Design

Program

University
Public space
Exhibition space
Public Library
Flex office space

University
Devided by the public routing, prominent placed near the square and around the Patio
Program

University
Public space
Exhibition space
Public Library
Flex office space

Public Space

The Traverseer hall as prominent space of the building that holds a market and acts as a passage with shops, bars and restaurants.

The inner street that connects the Bellamy Square with the whole complex that folds around the Patio.
Design

Program

University
Public space
Exhibition space
Public Library
Flex office space

Exhibition Space
Situated between the Patio and Bellamy Square, at the public route in between both spaces.
**Design**

**Program**

University
Public space
Exhibition space

**Public Library**

In between both the university and the traverseer hall at the new Tollensstraat.

shops and the foodmarket in the Traverseer hall
Design

Program

University
Public space
Exhibition space
Public Library
Flex office space

Flex Office space

Part of the complex but with a clear border between both functions.

Own entrance and small square in front. Interaction between all functions can be established inside the building.
Design

Entrance Tollensstraat
Design

Impression Entrance hall
Design

Section Library Patio
Design

Section Studio's
Design

Impression New Traverseerhall
Design

Section New Traverseerhall
Design

Human scale vs Machine scale
Section on the new axis
Design

Imression Patio and street
Design

Impression Patio
Design

Exhibition facade
Design

Section Exhibition and axis
Design

Impression Foyer and lecture hall
Climate system

Zoning

all zones need temp. between 18-21 °C
Climate system

Warm/cold system
Climate system

Winter
Climate system

Summer
Climate system

average
What to do next

- Improve design after feedback
- Improve technical drawings further
- Detailing the bridge
- Optimise climate system
- Fragment model 1:50
- Model in lasercut 1:200

Thank you for your attention!
DENK OM DE KEGGEN!
Construction

Stability
Insulation

inside outside

Insulated from inside

Insulated from outside
Intervention/ renovation

Direction
Climate extra

Traverseerhall and studios
Mood board

Materials and style
Mood board

spaces

Teletech Campus, Architect: MVDRV

New University of the Arts London Campus, Architect: Stanton Williams

Bahnhof museum, Berlin

Vehbi Koç Foundation Culture and Education Complex, Architect: TECE architect

New University of the Arts London Campus, Architect: Stanton Williams
Mood board

Precedents

University of Utrecht central Library

Akademie der kunste, Berlin, Architect: Gunther Behnisch

University of Utrecht central Library, A: Grosfeld van der Velde

Square, New York city

Selexys book shop in church, Maastricht, Architect: Merkx
Mood board

Light and structural rhythm

Cemetery Induno olona, Architect: Abdarchitetti botticin
Central Library New York, Architect: Foster and Partners
Unknown
Versailles Pavilion, Architect: Exploration Architecture

Central Library New York, Architect: Foster and Partners
Sections

Studio's to lecture hall

Traverse hall to Bellamy Square

Library to practical space
Impression