

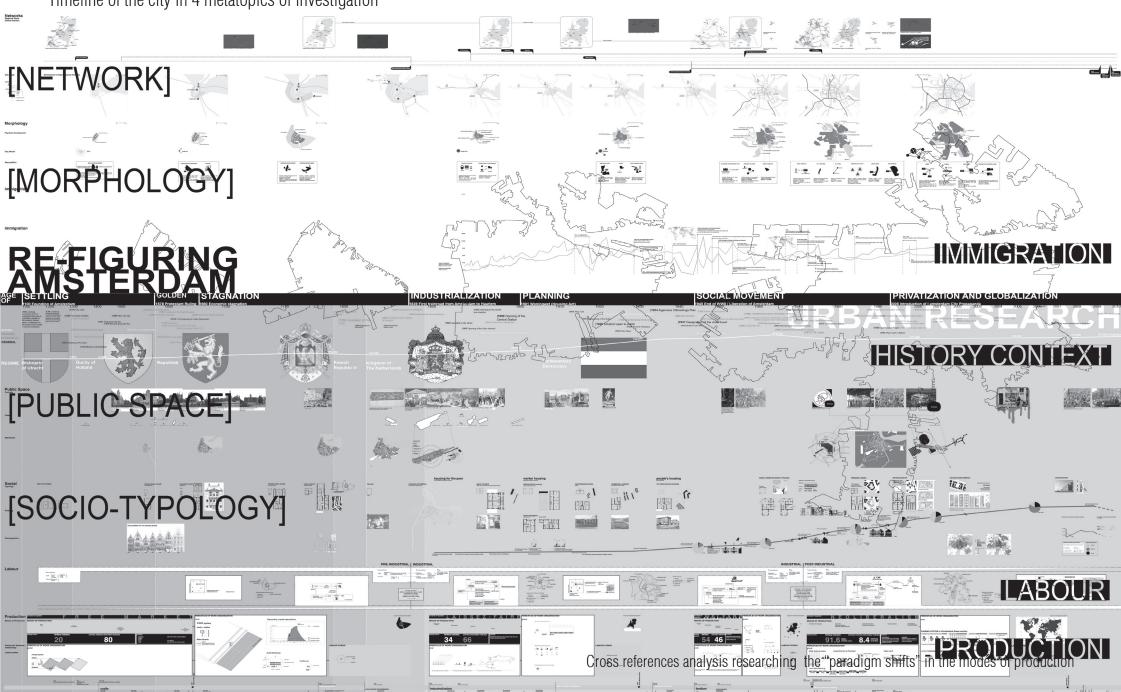




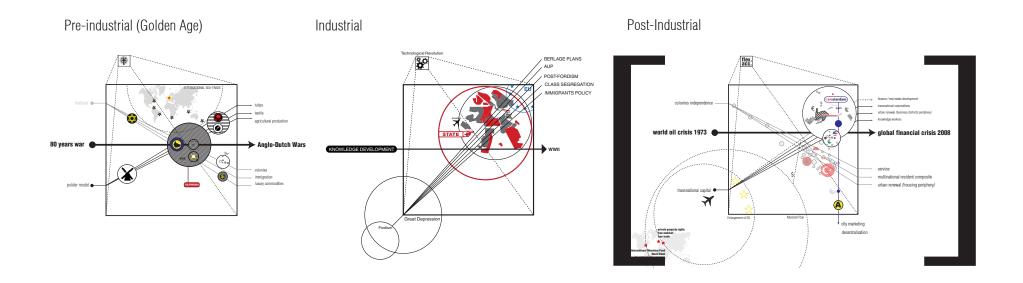
# **Summary of presentation**

- 1. Introduction: DSD Re-figuring Amsterdam, research question
- 2. Urban analysis : Amsterdam South Axes
- 3. The site: Amsterdam Zuid/Buitenveldert, problem statement
- 4. Strategy of intervention: Counter-gentrification
- 5. Program: The education market
- 6. Architectonic configuration
- 7. Materialization

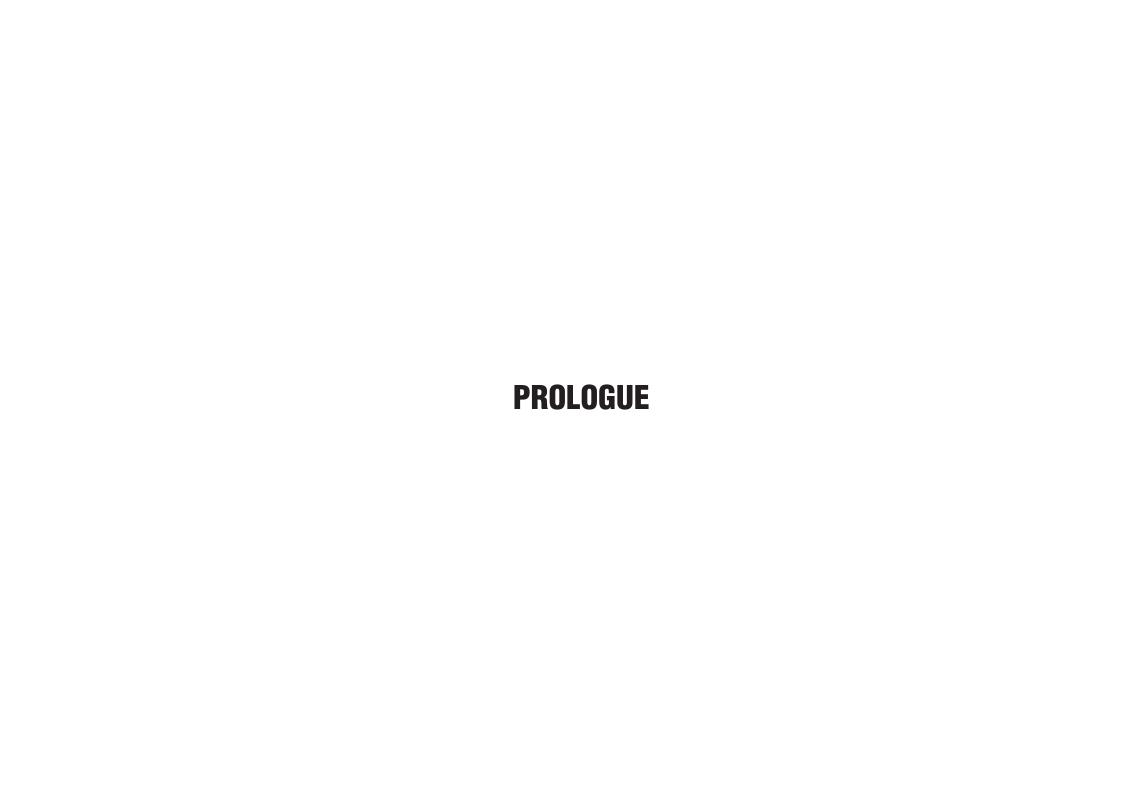
**Prologue 1**Timeline of the city in 4 metatopics of investigation



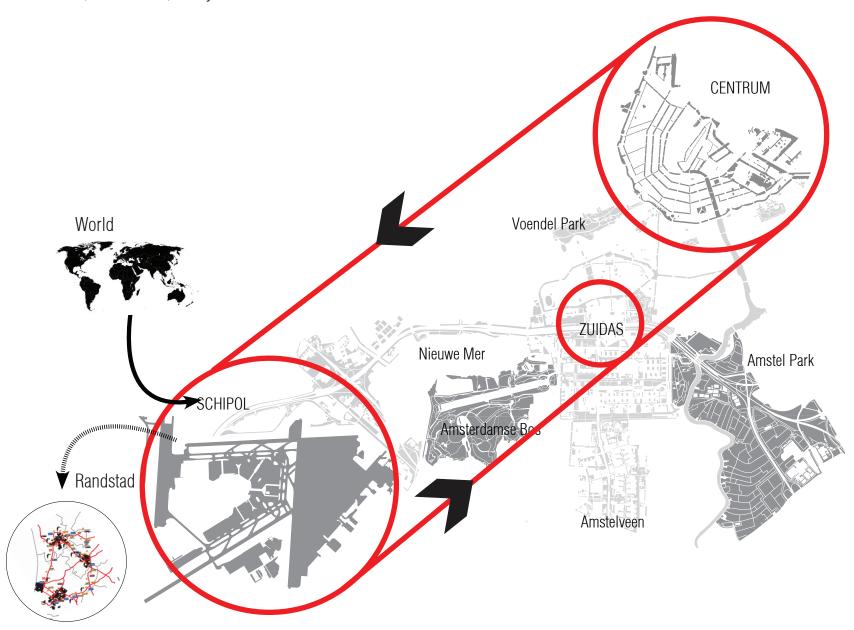
**Prologue 2**Models of urban development, models of paradigm shift



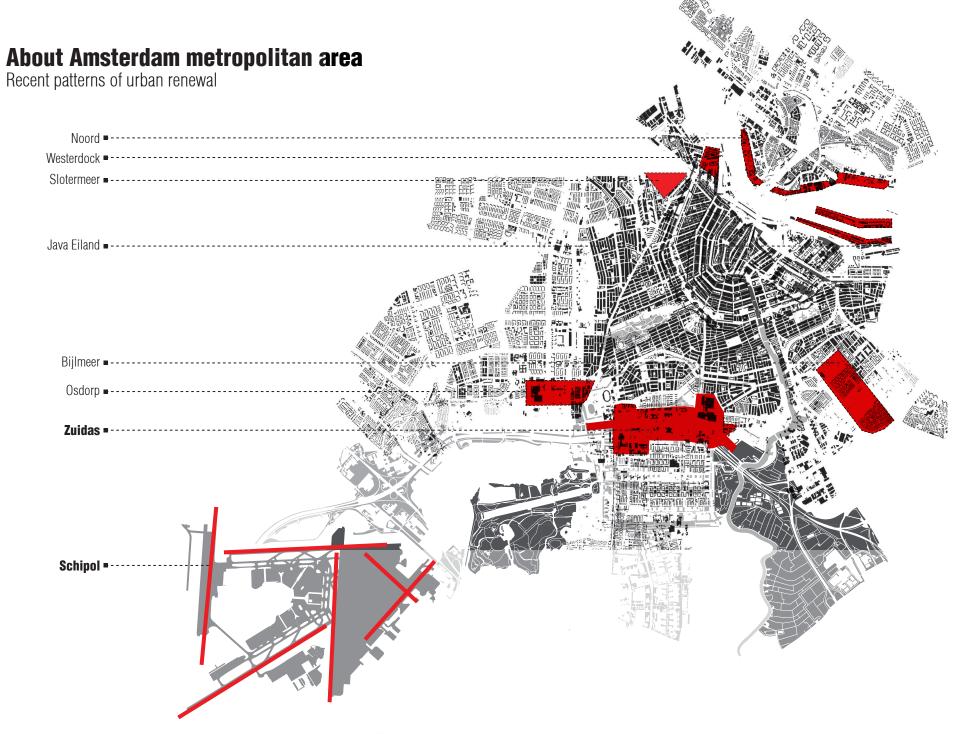
The recent financial crisis is the episode in the evolution of capitalism. The third model of urban developmen (Neoliberalism) is facing the crisis of it's founding principles.



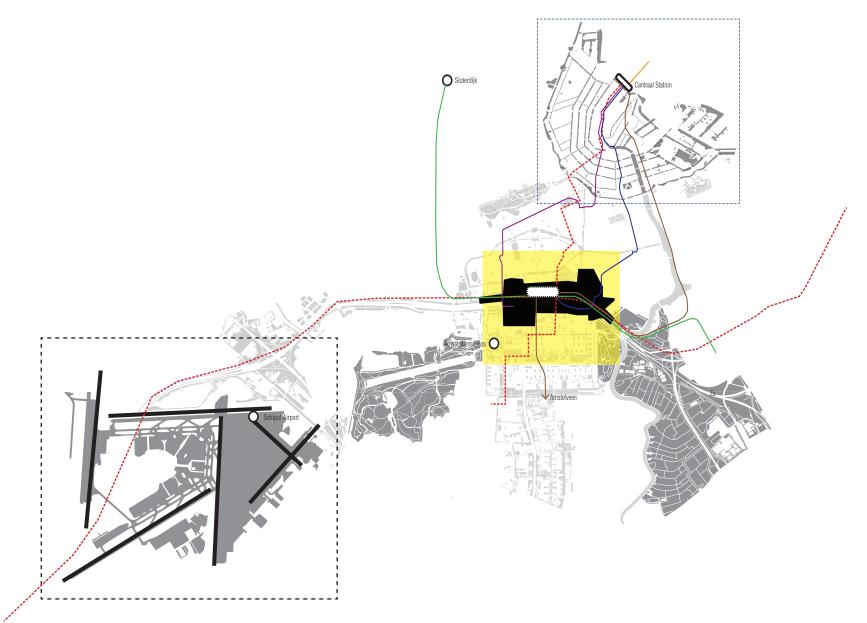
# **About Amsterdam metropolitan area** The historic core, the network, the system



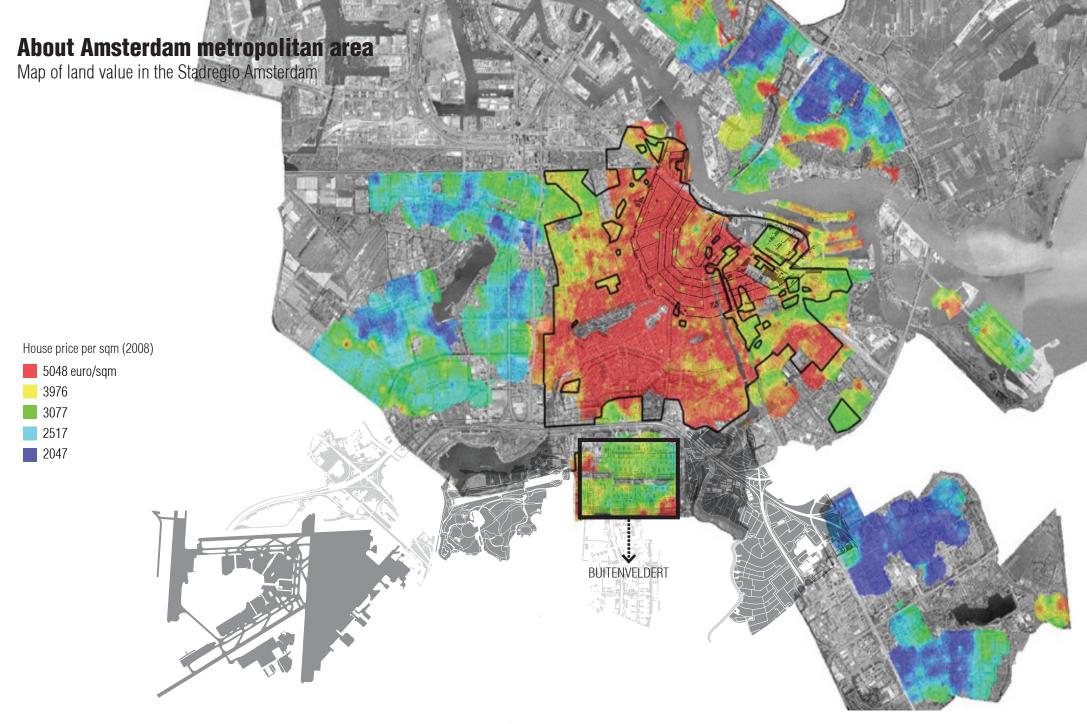
South axes: Zuidas as a node of the network connecting Schipol Airport and Amsterdam Old city core



# **About Amsterdam metropolitan area** The North-South Axes



The armature upon which the South Axe project is developing is the new metro line Noor-Zuid



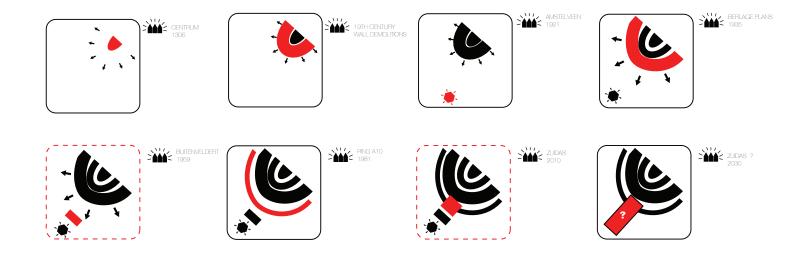
The modes of production determines the land value and thus the spatial distibution communities

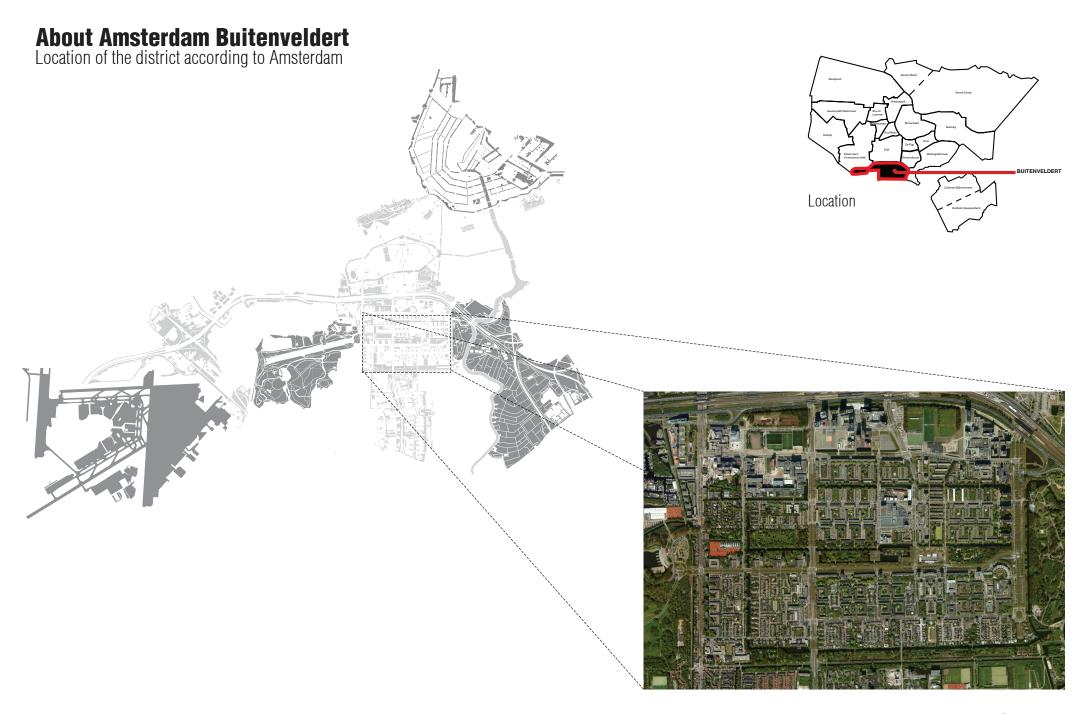
THE SITE: AMSTERDAM ZUID/BUITENVELDERT

# **About Amsterdam Buitenveldert** Why the Buitenveldert?



**About Amsterdam Buitenveldert**City evolution and the Buitenveldert district 1306-2011

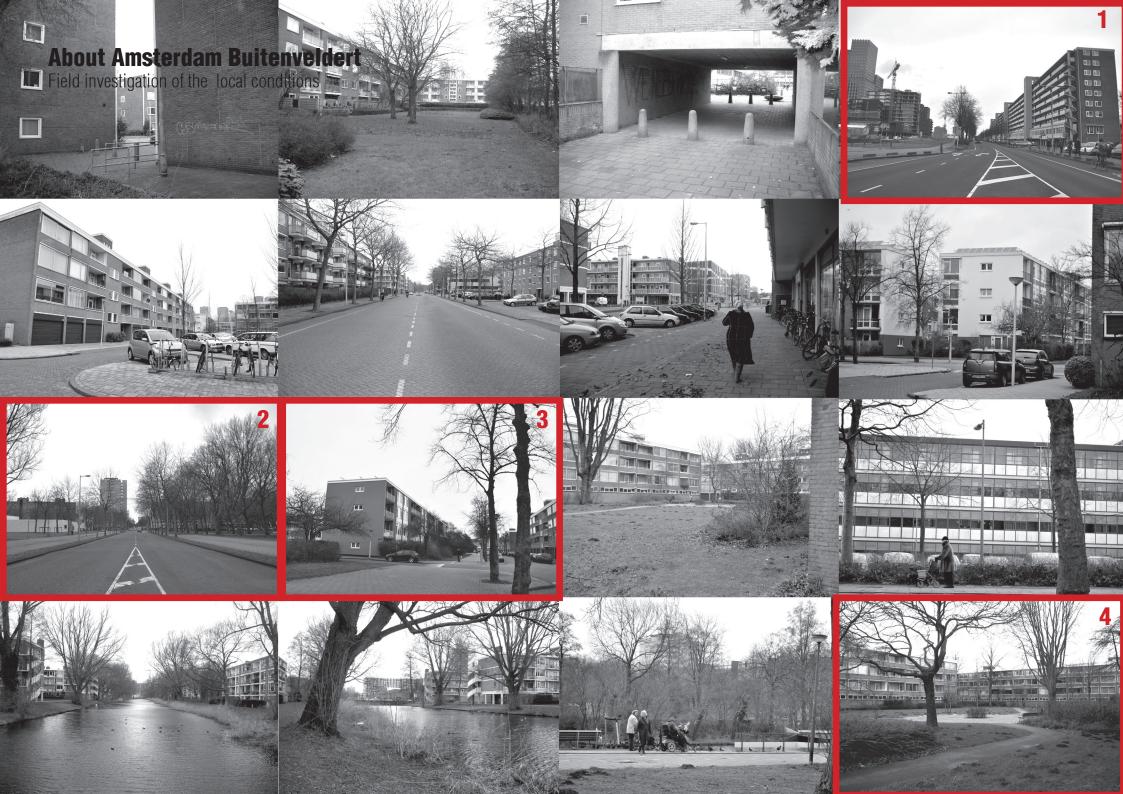




The Buitenveldert is a hot spot in the center of the economic flow of the South axes

**About Amsterdam Buitenveldert**The Buitenveldert: Amsterdamse Bos and Amstel park







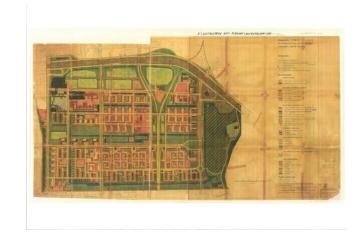




A project for a modern industial city

Ideaalstad Buitenveldert, 1973



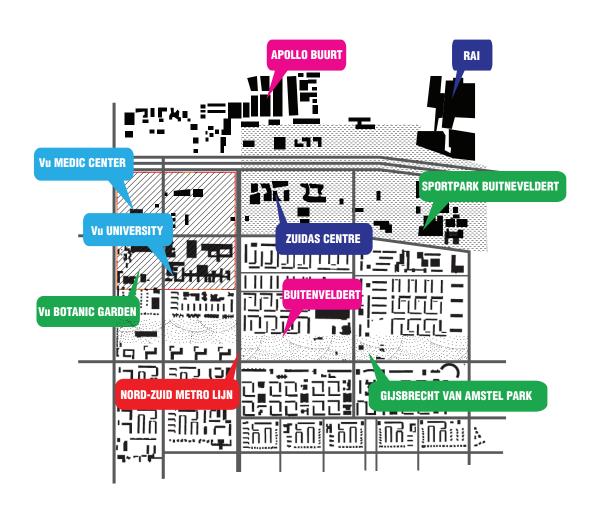


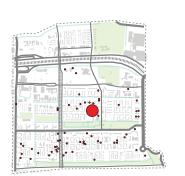
Amsterdam Zuidas, 2000





# **About Amsterdam Buitenveldert**Multifunctional and sub-enclavic district

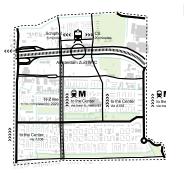








Schools



Roads

In the recent years the population rate number is growing slowly

### Population age:

population 12-17v







Spatial quality:

agricultural land

















mobility





income



11.250 Houses 19.020 Inhabitants

11.000 Families

60% single person housing 16% families with a children

Some data about the district community:

1.6 person per house

21% is Western alloctones 16% of immingrant

### Economic vibrance:

snack bars



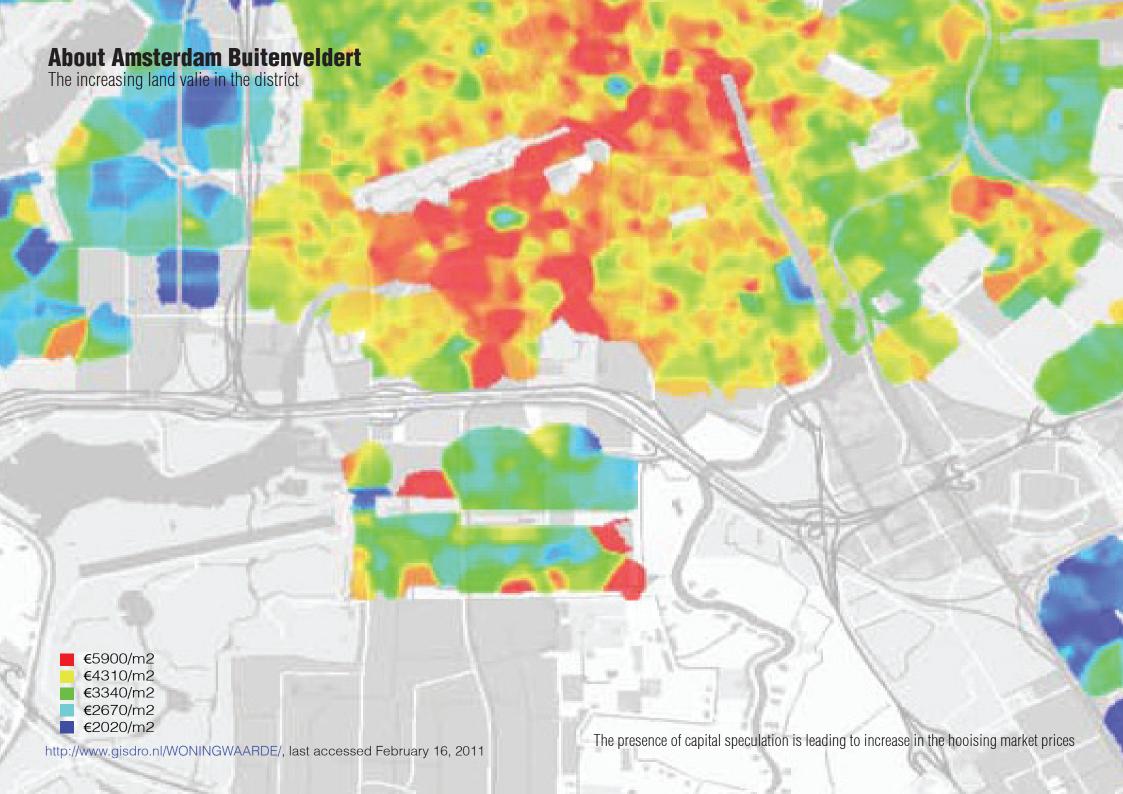




creative sector







Agents of gentrification: The neoliberal city and the neoliberal worker

# 13,000 highly skilled migrants entered the Netherlands since the introduction of the Highly skilled Migrants Scheme in 2004.

2008/2010

Amsterdam Amtelveen Almere Harlemermeer



#### THE PROFILE:

Age: \_18-30y : 50% \_30-40y : 33%

Sex: 75% male, 25% female

Country of origin: China, USA, India

Education: 80%, Master degree or Phd.

Dutch or Int. renamed university

#### **TARGET SECTOR:**

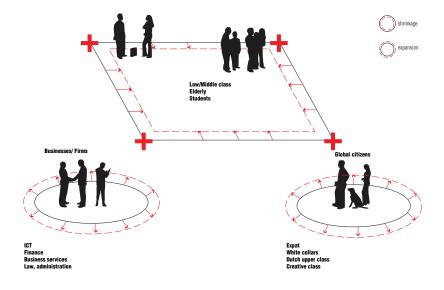
Knowledge industry:

ICT BUSINESS SERVICES TRADE INDUSTRY

### THE TOOL:

MODERN MIGRATION POLICY (SINCE 1/1/2009)

Reduced tax rates 1 year special VISA Stimulation of entrepreneurship Social welfare assistence



Problem statement

#### 1970's BUITENVELDERT

Economic model: Industrial
Spatial pattern: low density + low rise, green area
City users: blue collars, low skill work, low income

#### 2011 ZUIDAS CBD

Economic model: post Industrial (neoliberalism)
Spatial pattern: high density, high rise, mixed use
City user: White collars,high skill work, high income







paradigm shift in social composition

segregation according to age and income

1. two different models of socio-economic production two different and opposed visions on the city development

2. proximity to the Noord-Zuid metro line + Zuidas CBD reconnection to the compact city fabric

3. increase in land value increase in speculative practices, low income groups forced to displacement

4. local meets global, no glocal increasing distance between local community needs and global actors needs

Amsterdam Zuid/Buitenveldert paradigm of how, two distinct economic modes of production come "vis à vis" in a same space and time. It is an intriguing site where the local communities with their consolidated needs, rights and rituals are forced to confront with new, "global actors" planning their agenda for the construction/use of new spaces of speculation.

# **URBAN STRATEGY**

# **Urban strategy: counter-gentrification**

The Vu knowledge district is made center of the Buitenvedeldert district



Hogeschool
INH©LLAND

students: +/- 36000 staff: +5000

1 De Boelelaan 1105 (main building)

Arts
Auditorium
Aula
Centre for Educational Training,
Assessment and Research (CETAR)
Economics and Business Administration
Executive Board
Higher Education for the Elderly (HOVO)
Interdisciplinary Centre for the Study of Science,
Society and Religion
Law

Law Library Reception Theology

University Administrative and Support Services (Office for Management Affairs and Service Departments)

VU Association

2 De Boelelaan 1091 (BelleVUe)

Department of Communications

3 De Boelelaan 1091a

'De TenT', examination hall

4 De Boelelaan 1081 (W&N)

Physics and Astronomy Mathematics and Computer Science Chemistry

5 De Boelelaan 1085 (W&N)

Earth and Life Sciences Radionuclide Centre Institute for Environmental Studies 6 Van der Boechorststraat 7-9 (MF)

Audiovisual Centre Human Movement Sciences Medicine

7 Van der Boechorststraat 13

't Olifantje creche

8 Van der Boechorststraat 3-5

Energy Centre

9 Van der Boechorststraat 1 (Transitorium)

Occupational Health, Safety and Environment Psychology and Education

10 De Boelelaan 1109 (OZW)

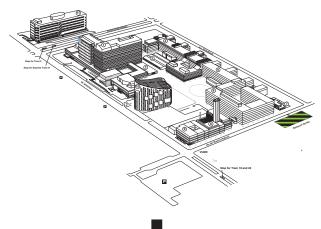
Educational Institute for Care and Welfare

11 Buitenveldertselaan 3 (Metropolitan)

Social Sciences

Centre for International Cooperation

OLD CAMPUS 1967>2011



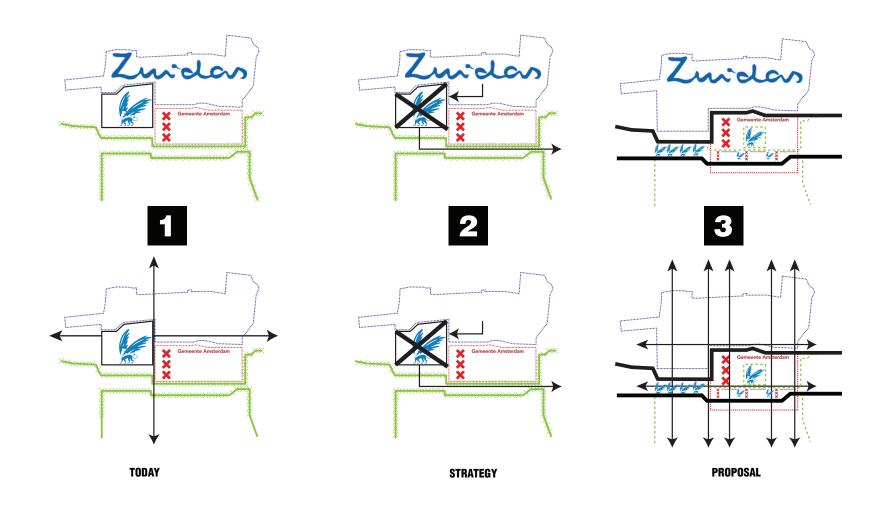


NEW CAMPUS 2030>

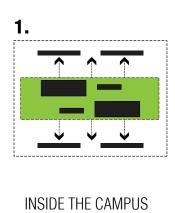


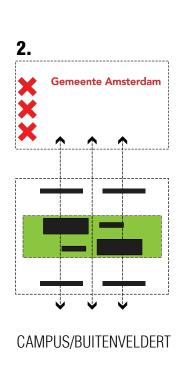


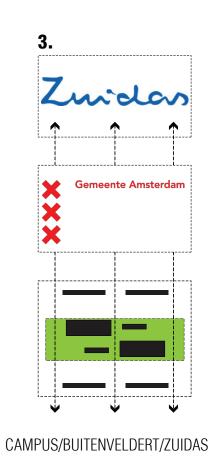
The campus has a critical mass able to influence the area



**Urban strategy**Shifting the dynamics of the district: 3 scales of interaction

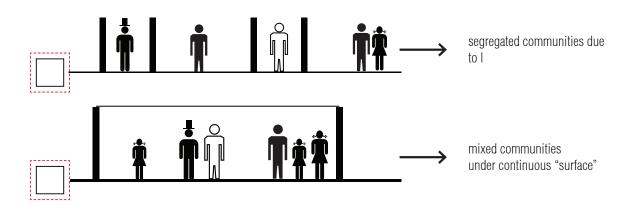






# **Urban strategy: proposal**

My project deals with thematics of **spatial**, **social and economical segregation** between two distinct communities in the Buitenveldert. Intention of my project is to offer to the global and local actors a **space** where their **confrontation** can be furtherly stimulated. The proposed strategy of **counter-gentrification** is based on the role played by the educational facilities of the VU University. The **students and the educative staff are the counter-gentrification agents** 









# **PROGRAM**

## **Program**

The original program stresses the "corporate identity" of the campus

#### **FACULTIES AT VU UNIVERSITY**

- \* Earth and Life Sciences
- \* Human Movement Sciences
- \* Economics and Business Administration
- \* Sciences
- \* Medicine
- \* Theology
- \* Arts
- \* Centre for Educational Training, Assessment and Research
- \* Psychology and Education
- \* Law
- \* Social Sciences
- \* Dentistry/ACTA
- \* Philosophy and Education

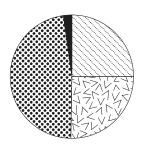
#### **PUBLIC FACILITIES + SPORT FACILITIES**

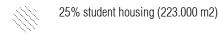
- De VU
- De VU-MC

## • De VU Hortus Botanicus

- Sportpark van SC Buitenveldert
- De Schoolwerktuinen
- Tennispark Popeye Goldstar
- Scoutinggebouw

### **OLD program: 848.000m2**





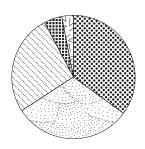


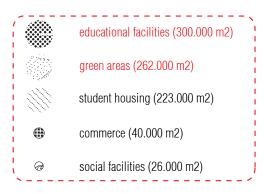
25% offices (223.000 m2)

47% educational facilities (417.000 m2)

• 2% other functions (16.000 m2)

### **NEW program: 848.000m2**

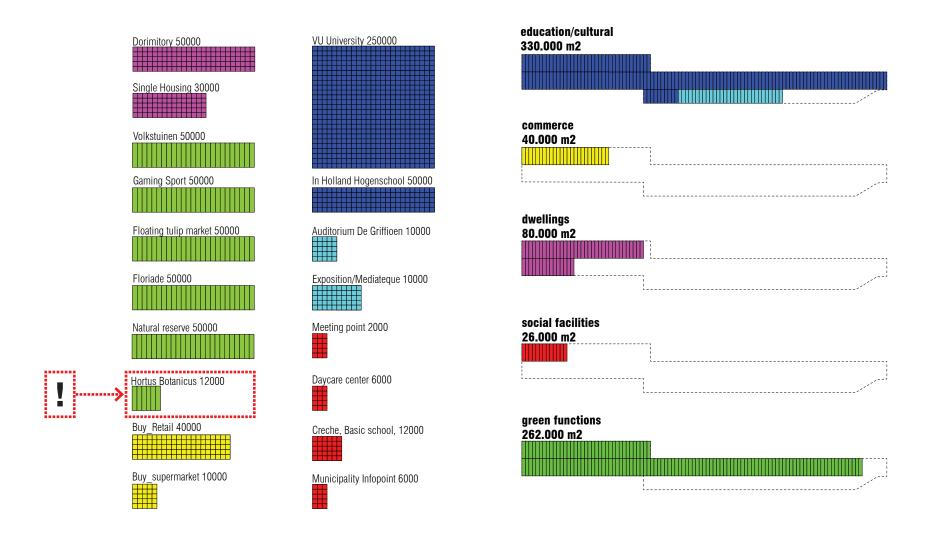




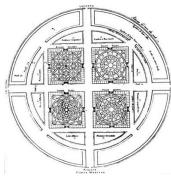
The original program is recalculated in order to accommodate the same amount of green areas of today

#### **Program**

Comparisons: how the program fits the Gijsbrech of the Amstelpark



## **Program**Why a botanic garden?





#### ORTO BOTANICO PADOVA, 1545

One of the first botanical gardens, founded by the Venetian Republic. It's an hortus conclusus.

#### 1 Plants and medicine:

Medicinal plants Herbs Hortus siccus



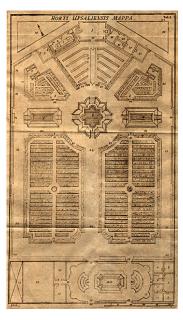


#### **HORTUS BOTANICUS LEIDEN,** 1587

Botanic garden for research, ordered beds from the four continents.

#### 2 Plants and ahestetics:

Bulbs and Tulips from Turkey



#### HORTUS UPSALIENSIS, 1655 (1787)

Organization of plants with the Carol Linneus's sexual taxonomy. The Linneus Garden is a tranformation of for overseas Dutch colonial plantaa previous Baroque garden.

#### 3 Plants and science:

Orangeries Greenhouses

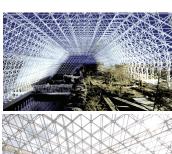


#### **BOTANIC GARDEN AMSTERDAM** 1679

Founded with the collaboration of the V.O.C, with conservatory. Seeds tions comes from here!

#### **4\_Plants and economy:**

Conservatory Acclimatiozation rooms Spices Exotic plants





#### **BIOSPHERE 2, TUCSON** 1980

Sealed environment for research than converted into botanic garden for display of natural biodiversity. Mission: public sensibilization

#### **5** Plants and environment

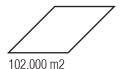
Climatic greenhouses Earth Biomes

The botanical garden of the Vu university, rather than being suppressed as from original program is intead made the core of the project tranforming the park into a productive area able to deal with the productive forces of the neoliberal development model

#### **Program**

The university organize the faculties according to the Botanic Garden

#### FACULTY 1: PLANTS AND ECONOMY: Economy, Law, Business Adm.



flowers bulbs cash crops Flower market Seedsbank Seeds exchange Keukenhof "to Go"

#### FACULTY 2: PLANTS AND PEOPLE: Social Sc., Psychology, Education



Vegetable Fruits

Vegetable Market Readymade-food Elderly daycare center Restaurant

#### FACULTY 3: PLANTS AND MEDICINE: Medicine, Dentistry, Human Mov.



herbs **Aphotecarius** seeds Laboratories Spa/baths flowers

#### FACULTY 4: PLANTS AND SUSTAINABILITY: Earth+Life Sciences

37650 m2

carnivoral plants parasite planst

endangered plants Climatic Solarhouse Volkstuinen Vegetable Market Seedsbank

#### FACULTY 5: PLANTS AND ARTS: Arts, Theology, Philosophy

22920 m2

30600 m2

flowers **Exhibition Halls** herbs Workshops

Library Theatre

#### **FACULTY 6: PLANTS AND ICT: Exact Sciences**

detox plants

Virtual Herbaria

Mediategua

Mechanical Crane

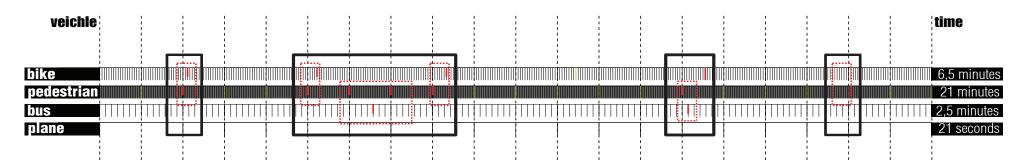
## **DESIGN PARAMETERS**

## "Not a real landscape, but like an exquisite painting4"



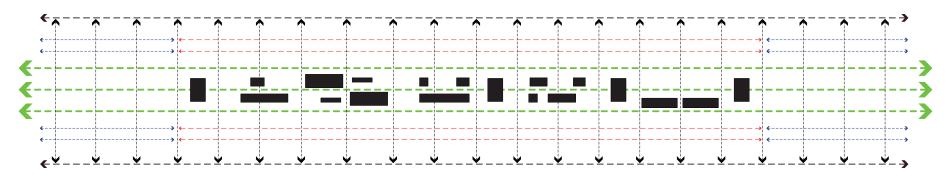
Anonymous, Garden carpet, 17th century, Iran

Step1: Mitigation of the phisical borders



Analysis of distances and times

Step 1: new road network proposal



Proposed networks of roads and paths

Pedestrian bridges

Description

Pedestrian bridges

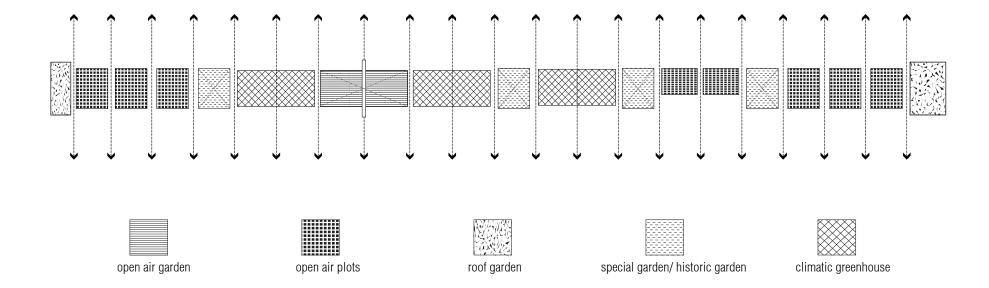
Market promenade

University patio

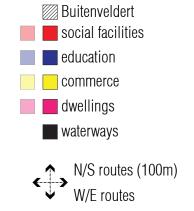
Special/Public Function

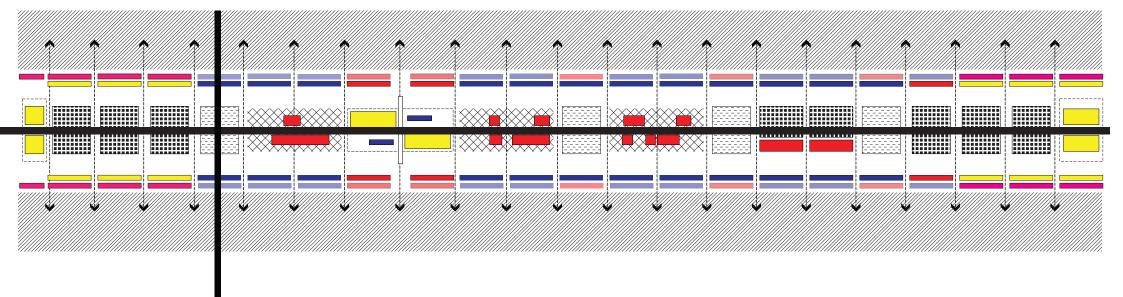
Step3: stimulate social interaction

Step4: stimulate economic revenue: cultural and educational facilities

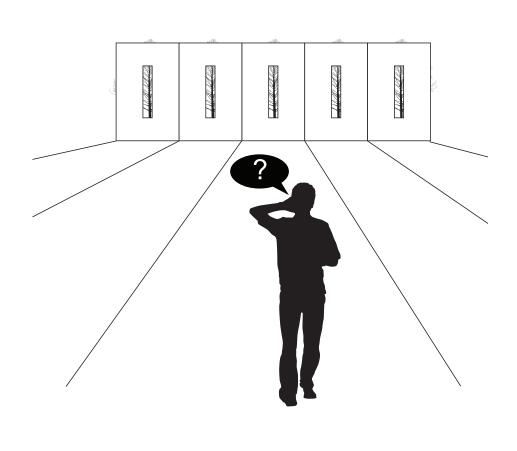


Step4: stimulate economic revenue: cultural and educational facilities

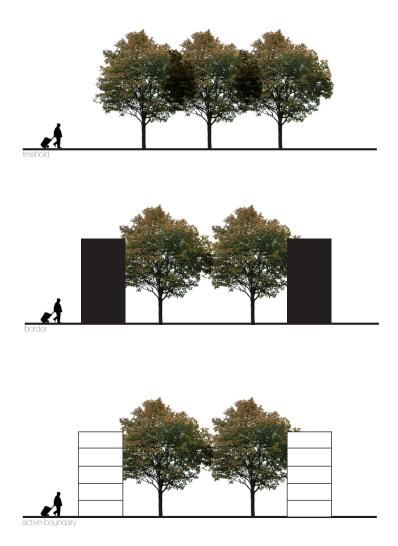




Step 5: framing the area



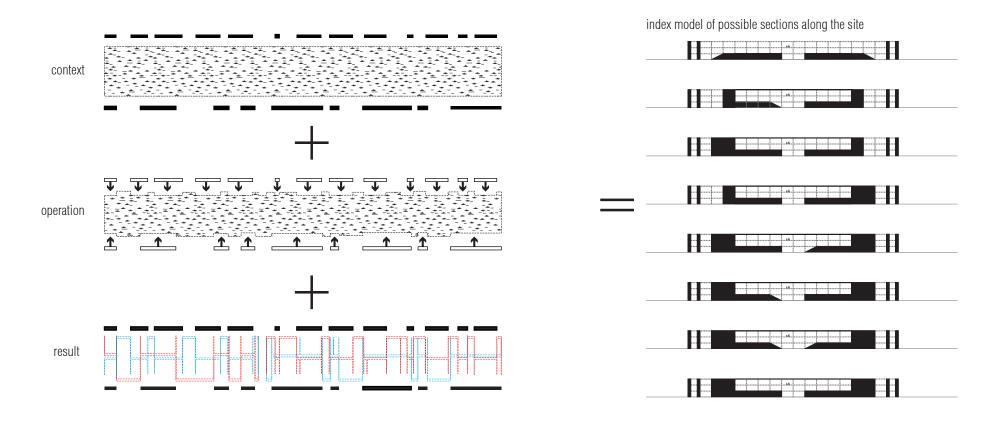
Stimulate attractivity



From open park to Hortus conclusus

The frame gives a spatial definition of the area and define a clear sign of ropture to the existing urban fabric

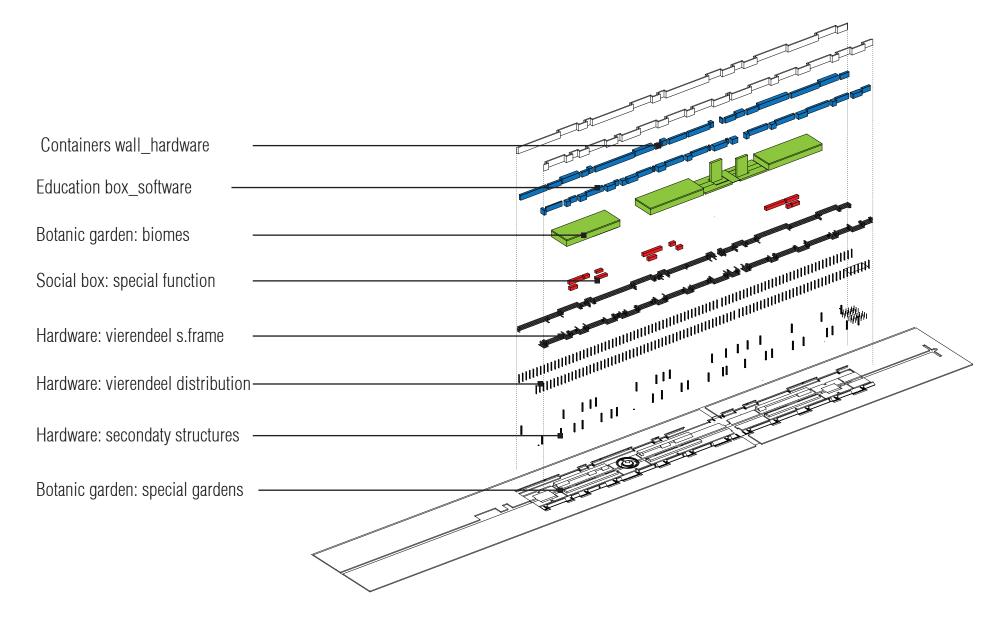
Step 5: framing the area



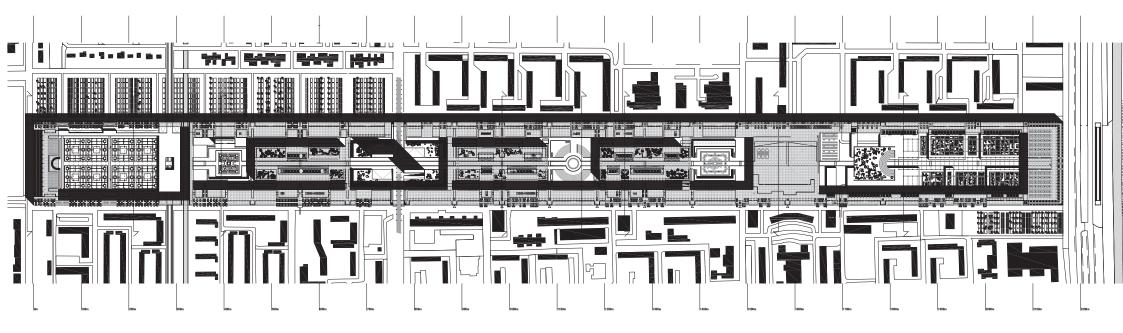
## **ARCHITECTURE**



axonometric explosion of building components



masterplan

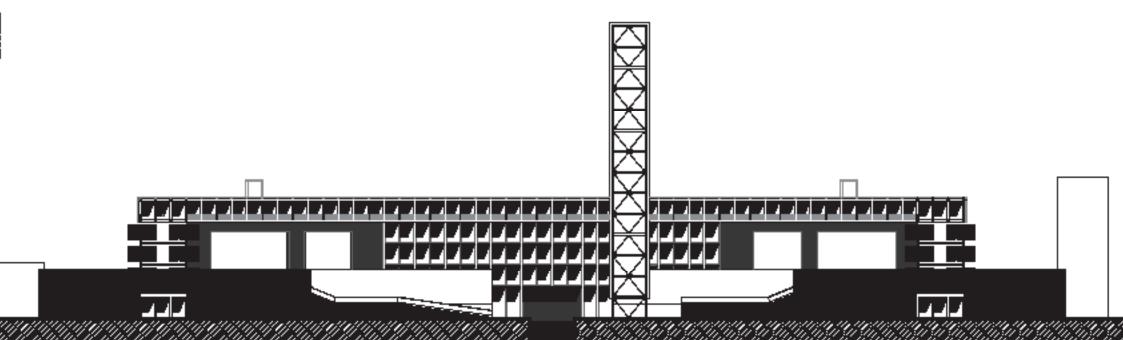


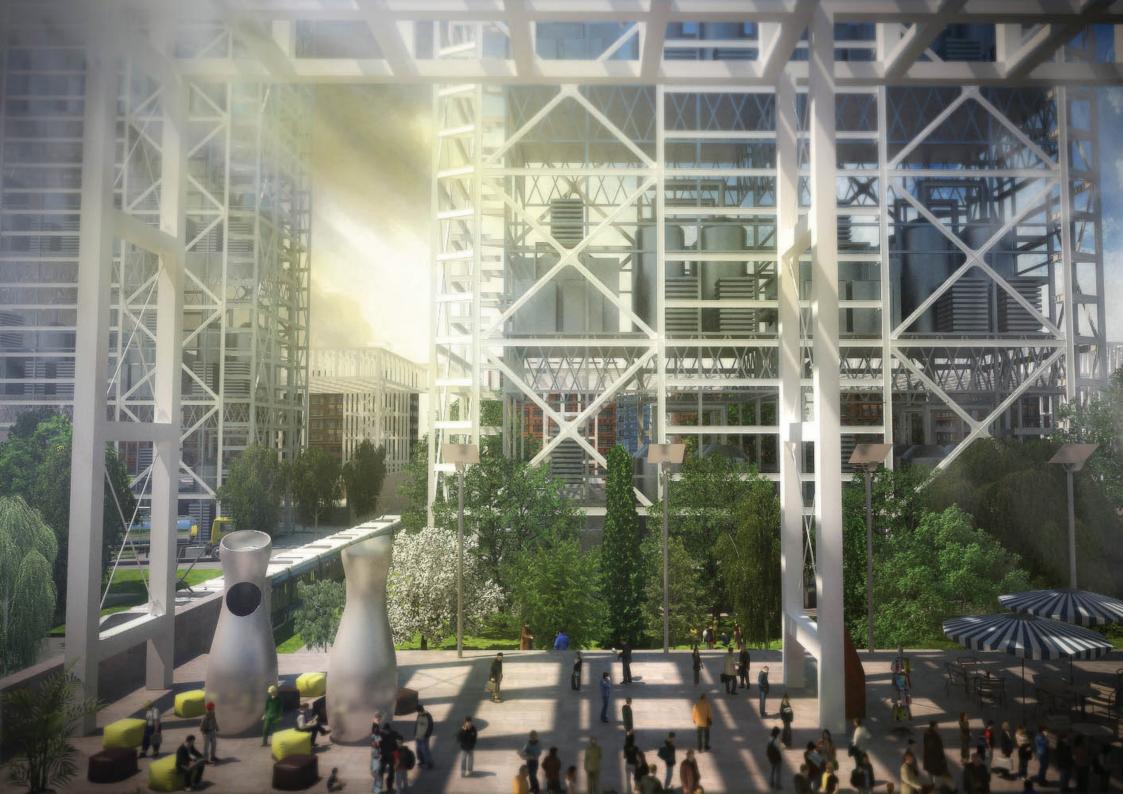


**Architecture**Door East/West, productive areas entrances



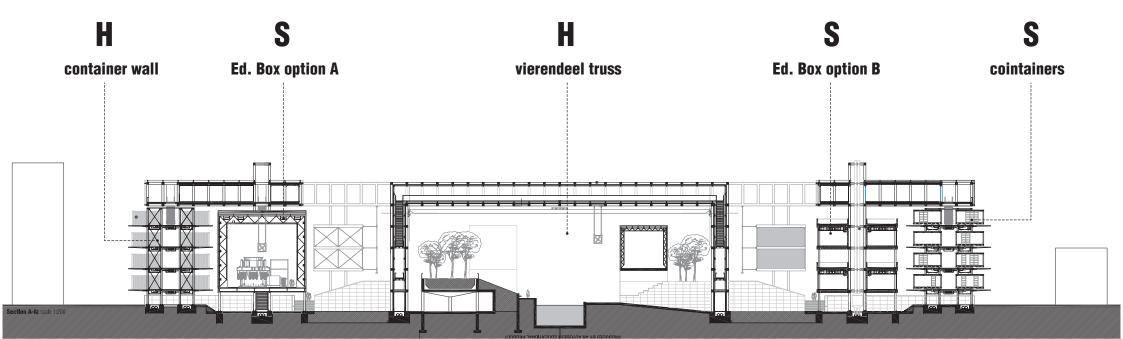
Main door, Campus plaza



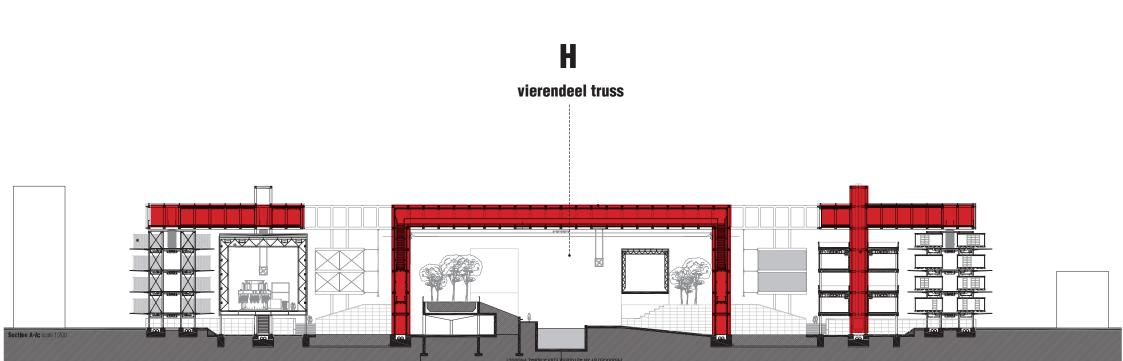


# **MATERIALIZATION**

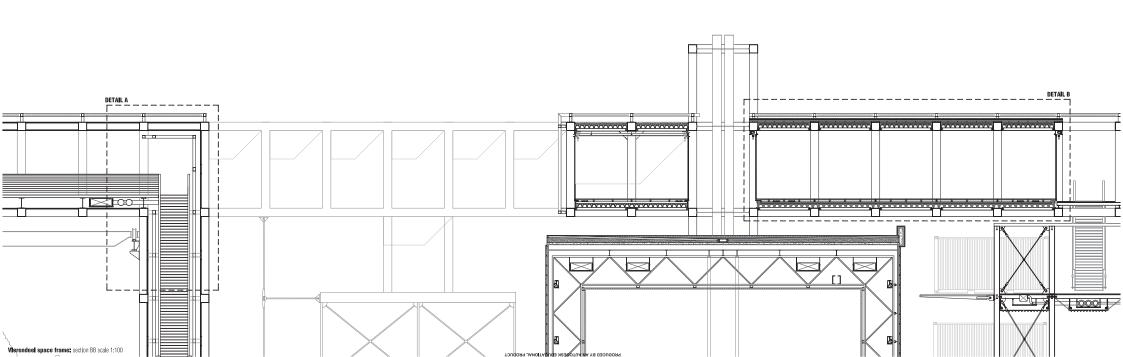
Hardware and software elements in the VU campus



Hardware and software elements in the VU campus



Hardware: The vierendeel truss, primary space framing structure, climatic solarhouse



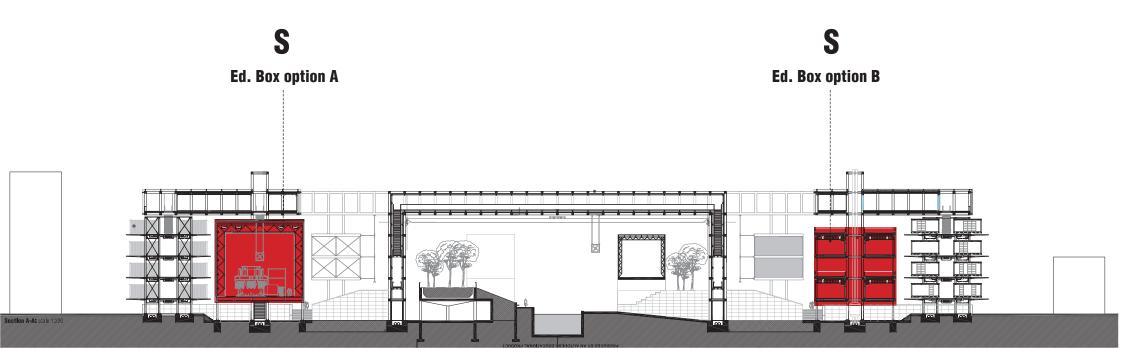




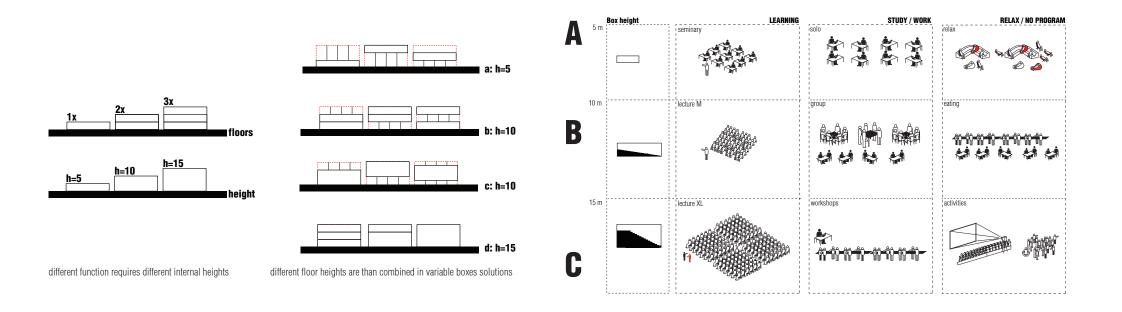




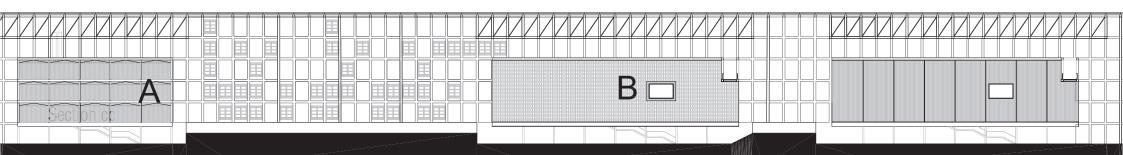
Hardware and software elements in the VU campus



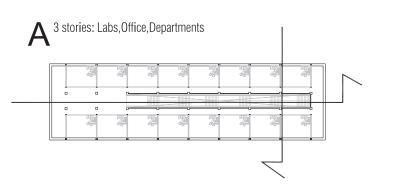
Area2 Educational spaces, options according height

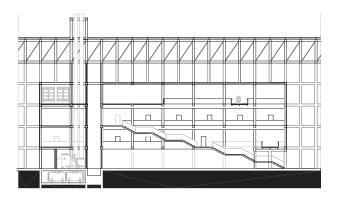


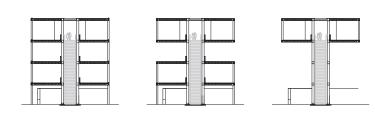
Facade from inside 1:200



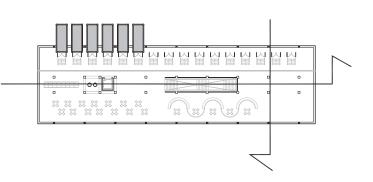
Area2 Educational spaces, options A+B

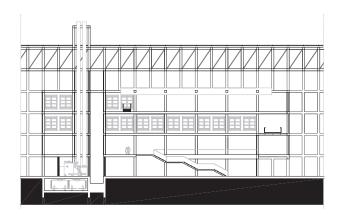


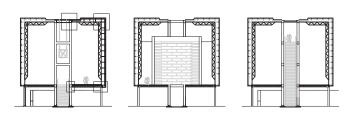




**B** 1 storie: Lecture Halls, Meeting, Industrial hall

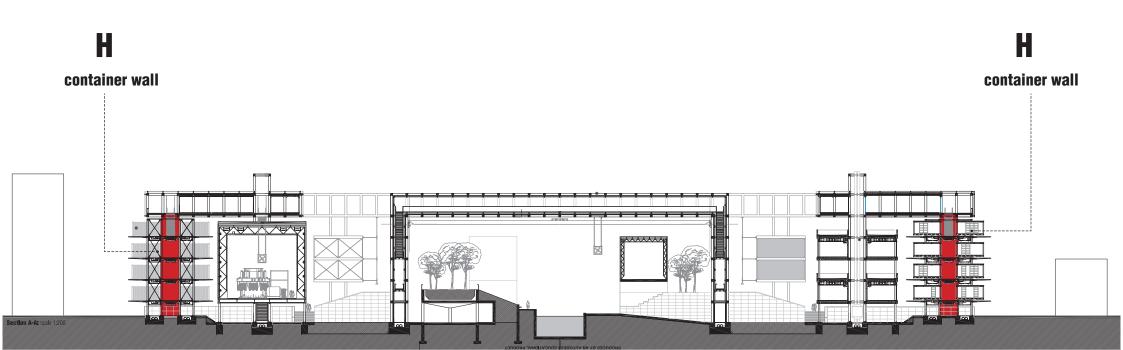




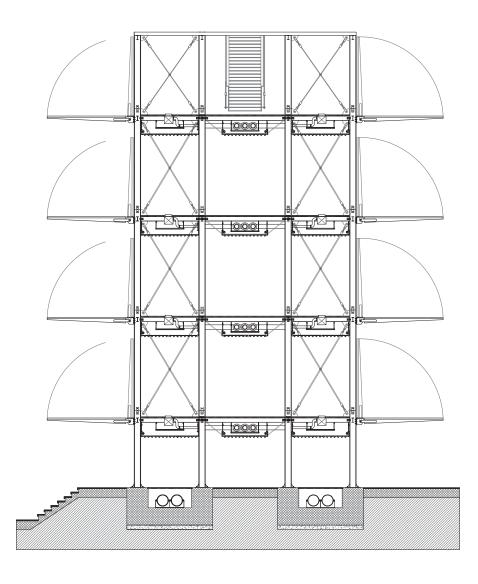


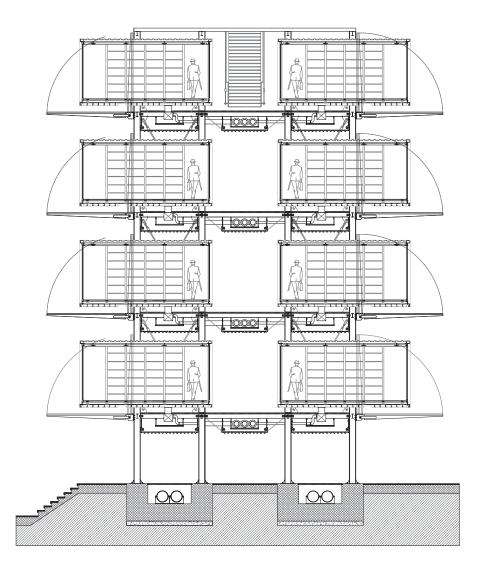


Hardware and software elements in the VU campus

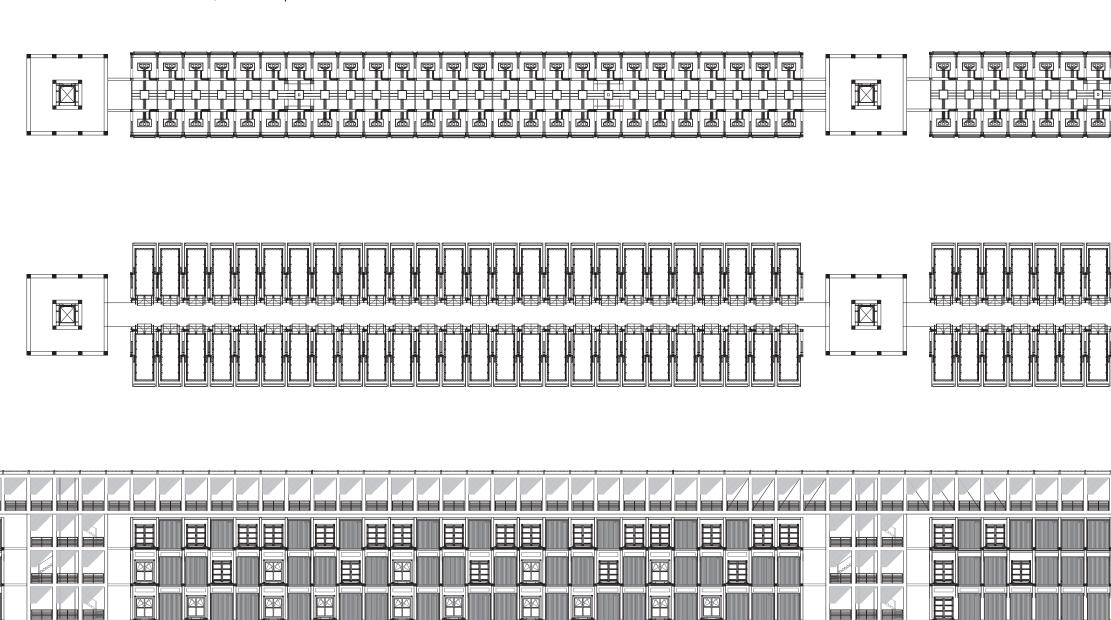


Container shelves structure, cross section section

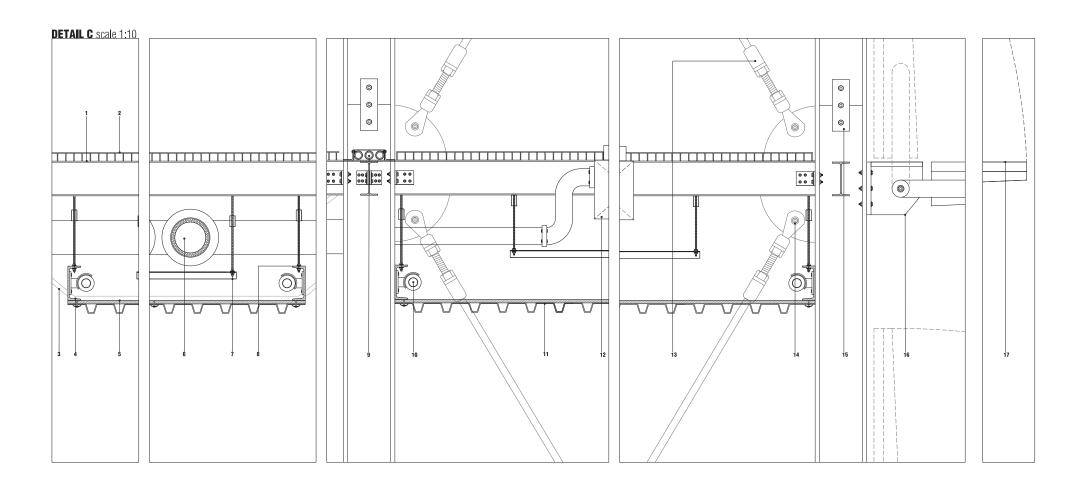




Container shelves structure, technical plan

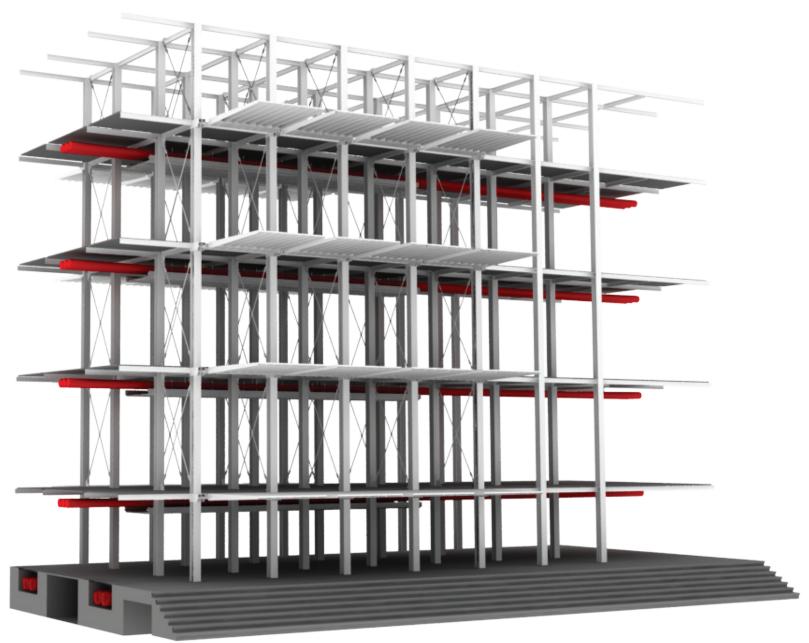


Container shelves structure, plug in system for housing and living units



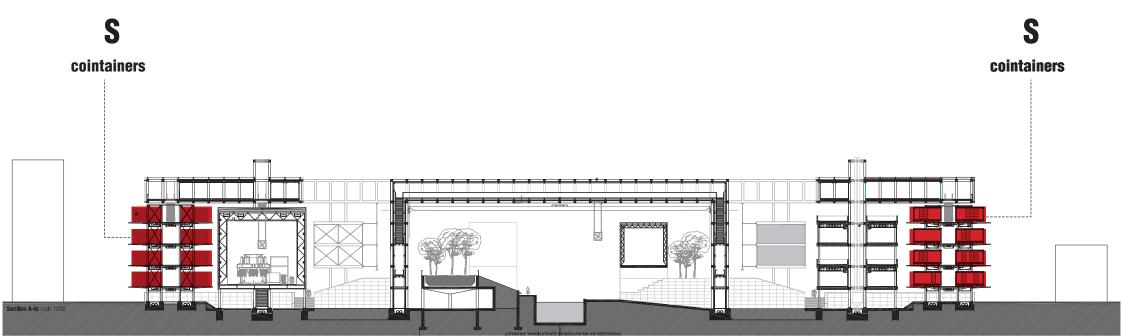


Hardware: Container wall/shelves structure



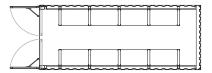
The container shelves are the host the variable number of possible containers connected to the university

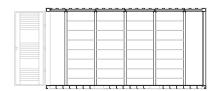
Software: Flexible and self sufficient housing and working units



Software: typologies of containers and their use





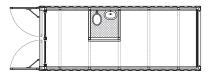


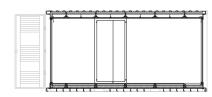






Option B: startup company (VU related)



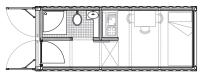


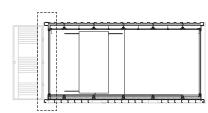






Option C: student housing



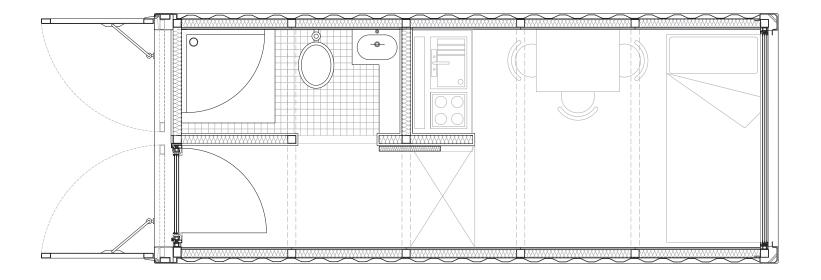


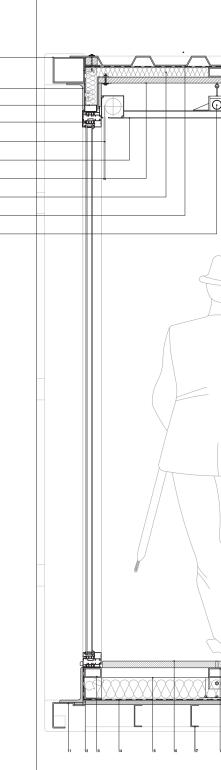






Software: option C student housing unit





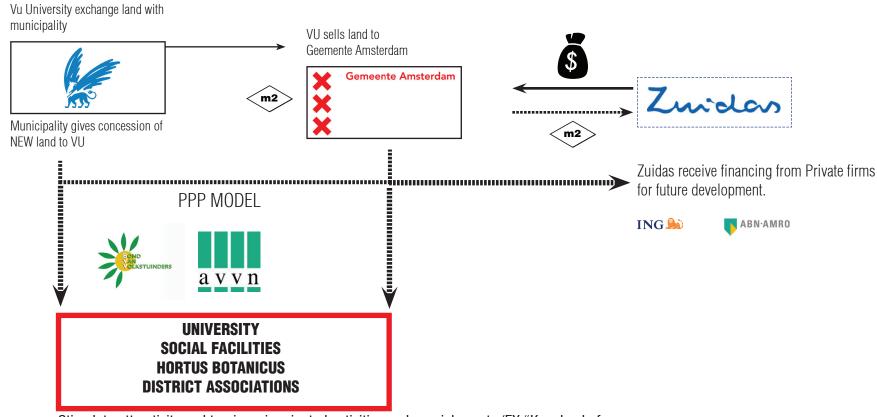
The containers self sufficent units plugged to the container shelves structure by electricity and sewage



# **ECONOMIC IMPLEMENTATION**

#### **Urban strategy**

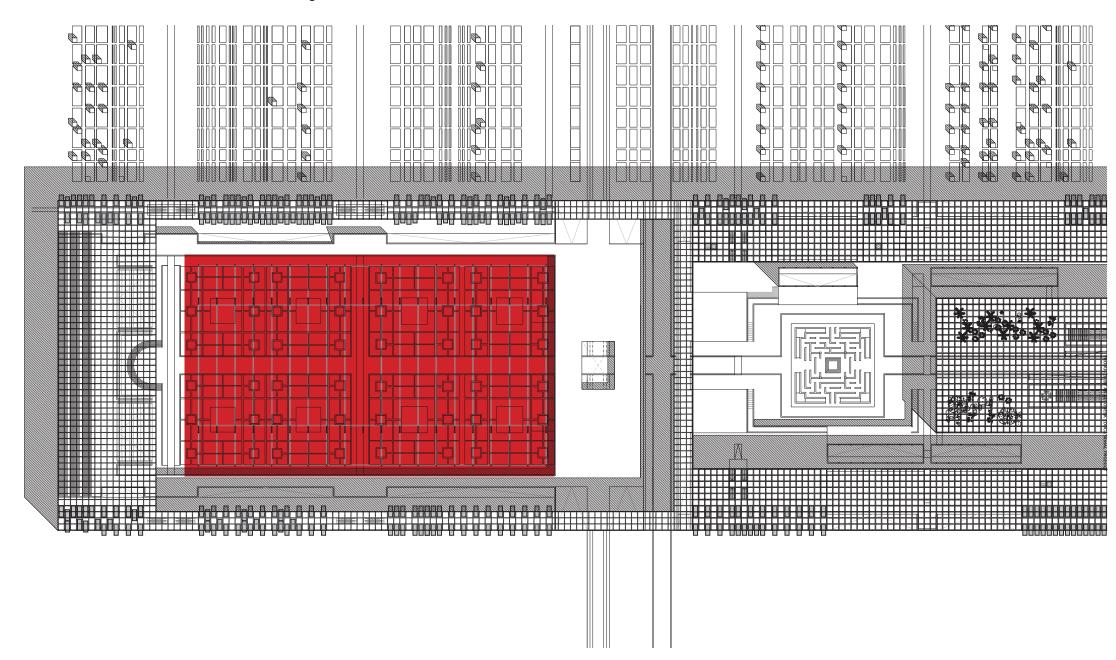
Economic model: Exchange of land ownership



Stimulate attractivity and tourism via oriented activities and special events (EX. "Keunkenhof to go", Floriade 2012 spin off)

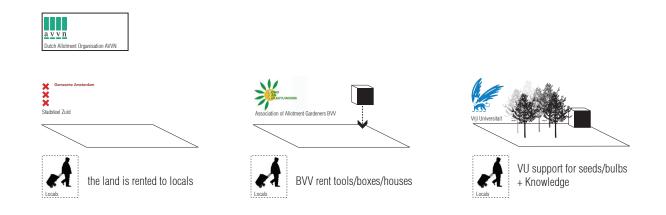
#### **Implementation**

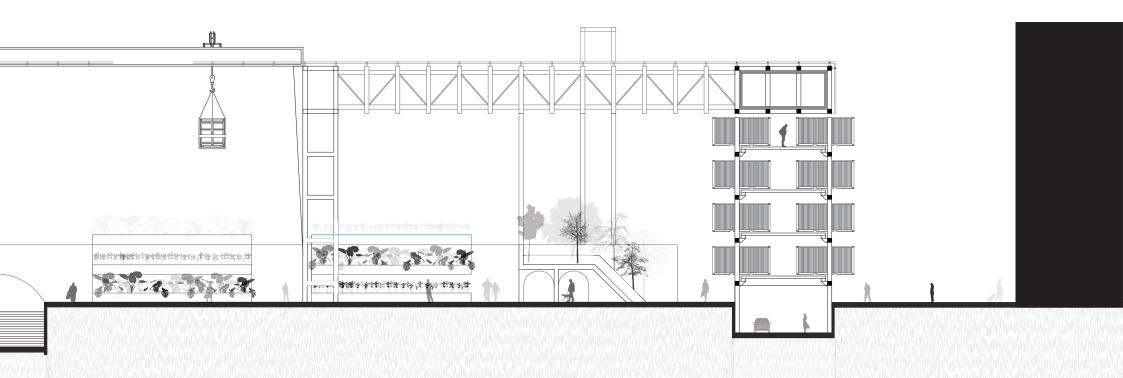
West Entrance: Flower market and flower gardens



## **Implementation**

Flower market and flower gardens cross section







### **Implementation**

Economic sustainability, rentable Volkstuinen

Kitchen Gardens: to grow vegetables

22224

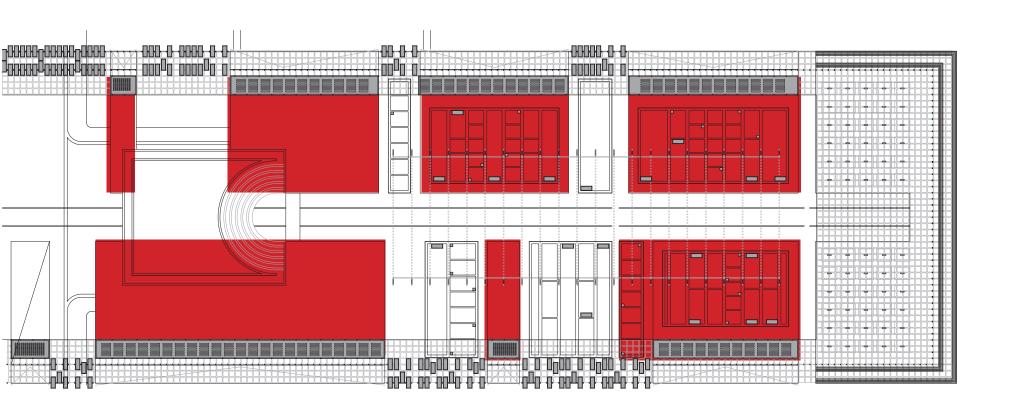
rent € 140,00 / year Allotment Gardens + toolbox: no stay overnight

**777** 

rent € 275,00 / year Allotment Gardens with small house (28m2, form April to Sept.)



rent € 455,00 / year







#### Conclusions

The project of the Knowledge district stresses the importance of the **market of education** in influencing the dynamics of a community, especially in a economic system based on the immaterial commodities such as of knowledge and informations.

#### 3 main functions:

- -Social function: interaction between local and global actors,
- **-Economic function:** transforming unproductive green areas in a productive garden
- -Cultural(productive)Function: diffucion of accumulated and codified knowledge

It aims to be the place where knowledge, and informations are exchanged and shared internalized by the different social actors involved in it's functional program.

The interaction between university, developers and community, will hopefully nurture the district life, giving birth to hybrid forms of "**productive figures**" (locals + globals).

The project, starting from a social and spatial integration purpose makes of the local and global **Human capital** the point to the creation of **emerging economic meanings.** 

