About the campus of the future and decisions of today: case BK city

Alexandra den Heijer
more information: http://
www.managingtheuniversitycampus.nl
Project group representing:
- policy makers
- board of executives
- dean
- controllers
- users
- architects that have known the faculty for years

1. professors and professionals
2. all parties have studied or worked at faculty
3. hands-on mentality

more information: http://www.managingtheuniversitycampus.nl
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150 participating companies
25 consultancy / architecture firms
350 construction workers on site
800 orders
15 km sprinkler / 5500 sprinklers
30,000 litres paint
220 km data cables
5200 wall outlets

Facts

Challenge the future

Delft
University of Technology

42,000 m2

more information: http://www.managingtheuniversitycampus.nl
32,000 m²

Brief in m²
- space reduction – 25%
- more students expected
- Berlageweg was already too small for students/staff
- need to change concepts
- demand for large public spaces "blokkenhal" & modeling studies, workshop space
- additional space demand:
  - solution glasshouses
  - many alternatives... by many different architects...

Design the building as a city

Berlageweg 42,000 m² bvo
Julianalaan 32,000 m² bvo

footprint
old → new

+ new glasshouses 4,000 m² bvo = 36,000 m²

bvo = bruto vloeroppervlak = gross floor area (gfa)
no = nuttig oppervlak = usable floor area (ufa)

Primary Facts

Organisation
- 1,400 BSc students
- 1,675 MSc students
- 450 FTE staff
- 800 employees
- 170 0.5 fte

Building
- 700 BSc studio desks
- 830 MSc studio desks
- 470 available extra workspaces
- 44 meeting rooms
- 5 lecture halls
- 1 library
- 1 restaurant
- 3 bars

Goals organisation
1. Community building
2. More effective support of education, research & management
3. Creating the place to meet
4. Stimulate social interaction & intellectual interaction
5. Flexible use of facilities
6. Sustainable

Private → Public Space
Contextual Concept: Connectivity and variety

more information: http://www.managingtheuniversitycampus.nl
Transition from old to new
less BVO (gfa), more NO (ufa)

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<td>1. studio space</td>
<td>5,660</td>
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<td>+ 82% multi-functional use</td>
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Transition from old to new
> 50% is studio or office space

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1. Studio space
- student back at the faculty
- 6 m² usable per workplace
- < 9 became less after decision process
- tables are assigned to groups of students per semester (no permanent territory)
- smart use of space (by smart scheduling)

more information: http://www.managingtheuniversitycampus.nl
Reducing the footprint (1)

- brief: 5,6 m²
- realized: 4,0 m²
- 2011: 4,3 m²
- 283 tables, 1530 chairs
- 0,75 workplace / enrolled student
- occupancy rate > 40%

m² is usable floor area (m² ufa)

Reducing the footprint (2)

- brief: 12 m²
- realized: 14 m²
- 2011: 11,2 m²
- 470 → 396 desks
- 0,86 workplace / fte
- occupancy rate 22% → 27%

m² is usable floor area (m² ufa)

More facility sharing

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+ 3% more usable space

3. Lecture halls

- more shared use of large halls
- more small spaces locally
- flexible floor plan
- differentiation of quality; also used for seminars / conferences

More information: http://www.managingtheuniversitycampus.nl
7. Conference rooms

4. Library

5. Educational facilities

6. Laboratories

Creating the place to meet

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Public space, like in a city

9. Public functions

• usable space in corridors for informal meetings and work

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10. Storage

→ including digital storage

more information: http://www.managingtheuniversitycampus.nl
Challenge the future

Delft University of Technology

BK City Guide

available

www.bk.tudelft.nl/bkc

More information online

www.managingtheuniversitycampus.nl