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Personal choice
"Wood and the education and practice of its crafts, to some might look ancient, seem to make a comeback."

"What has been the role of wood and craft education in the Netherlands over time?"

"...insight is given in knowledge centres of the past and present to elaborate if a new knowledge centre might be relevant at present..."
Research

Wood

Wood in time

Leporello (one-side) history of wood, Baltus, M., Breugel, G. & Smit, T. (June, 2020)
Wood in time

Wooden ships & city in 16th-17th century
Veneer chipper
Fabrication of laminated beams
Assembly of trusses
Research

Wood

New incentives

If application increases by 14% worldwide...

- global CO2 emissions
- global fossil fuel consumption

~ Yale University, 2014
Crafts Centres

Education centres

Rijkswerkplaats, in Weert, 1958
Crafts centres

Knowledge centres

Research

Bouwcentrum, in Rotterdam, completed 1948

Interior, Bouwcentrum, Rotterdam
Design

Montage

Education | Schools

Practice | Industry

Community | Municipality
Zohor / Zoho, Rotterdam

Legend:
- Education
- Craftsman
- Creative Industries
- Creative Offices
- Events

- Hofbogenijn
- Canal & Green Area
- Tram Stop
- Train Station
- New Developments
Zoho

Zoho - history
Zoho - present

Activities & events
- Open Zoho

Restaurant in train wagon

Recreation & character building

Small enterprises under Hofbogen

Late 19th c. architecture incl. mosaic

Craft school

Hofbogen
- Elevated park

Technikon
- Renowed Maaskant Kramer en Röder's, Krijgsman & Duin

Creative industries

Entrepreneur centre

Small green area

Johan Cruyff Court
- Open space

Waalveem, Kolpa
- 'Yellow building'

Creative offices, gather + grow

Restaurant in train wagon Expeditiestraat Schoterbosstraat

Johan Cruyff Court open space

Thijn Smit

Zaddik etc.
Zoho

Zoho - present

- Entrepreneur centre
  - Former bakery
- Activities & events
  - e.g. Open Zoho
- Restaurant in train wagon
- Small green area
  - Entrance Zoho
- Hofbogen
  - Elevated park
- Small enterprises
  - Under Hofbogen
- Creative offices
  - Gather + grow
- Johan Cruyff Court
  - Open space
- Recreation & character building
- Creative industries
- Small enterprises
Transition zone between high city centre & low suburbs
Zoho

Proposal

Special objects and places
The Wood Knowledge Centre

Concept diagram

‘Back’ (practice) & ‘Front’ (theory)
The Wood Knowledge Centre

Concept diagram
The Wood Knowledge Centre

Concept diagram
The Wood Knowledge Centre

Program Front - Back

Function division
The Wood Knowledge Centre

Site plan

Section made from North West side
The Wood Knowledge Centre
The Wood Knowledge Centre

2nd floor ‘front’

Legend:
- Flexible / break out space
- Meeting room (for education & offices)
- Auditorium
- Sanitation

Section ‘front’
The Wood Knowledge Centre

4th / 3rd floor ‘front’

Legend:
- Flexible office
- Facilities, bar, lunch & flexible space
- Sanitation
- Vertical circulation
- Terrace

Section 'front'
The Wood Knowledge Centre

Basement 'back'

Legend:
- Classroom for practice
- Flexible workspaces
- Assembly space (extra high)
- Flexible workshop
- Machine hall

Floor plans:
1. Classroom for practice
2. Flexible workspaces
3. Assembly space (extra high)
4. Flexible workshop
5. Machine hall
6. Machine hall (advanced machines)
7. Flexible space for spray booth etc.
8. Sanitation
9. Vertical circulation

Distance scale: 0 1 2 3 4 5m
The Wood Knowledge Centre

Ground floor +1m 'back'

Legend:
- Workshop (SME) 70-210m²
- Flexible space for containers, carts etc.
- Vertical circulation
- Sanitation
The Wood Knowledge Centre

View from outside, on practice industry & education
The Wood Knowledge Centre

1st floor/ 2nd floor 'back'

Legend:
- Workshop (SME) 70-210m²
- Duplex of workshop underneath
- Installation space
- Sanitation
- Vertical circulation
- Storage

Section 'back'
The Wood Knowledge Centre

Exterior, elevation South-West
The Wood Knowledge Centre

Interior (front)

White stained pine wood
Clay plaster off-white
Beech wood, end grain floor

Interior (classroom) ‘front’
The Wood Knowledge Centre

Interior (back)

- White stained pinewood
- Wood wool panel
- Off-white pegboard
- Polyethylene panel
- Polished concrete floor
- Beech
Technology - Ambition

- Economical
- Well considered
- Circular/ecological
- Prefabricated
- Dry connections
- Indoor climate

The Wood Knowledge Centre
Construction

Dry knot, between concrete and wood
The Wood Knowledge Centre

Fragment of the ‘back’
Facade - 'front'

Fragment structure 'front'

The Wood Knowledge Centre
Facade - 'back'

Fragment structure 'back'

The Wood Knowledge Centre
Climate diagram, entire building
Climate & Architecture

The Wood Knowledge Centre

Furniture element along outer wall

Cabinet
Desk
Seat
Platform

Ventilation supply unit
Craft in the City
Urban Architecture
January 29, '21
Thijn Smit

The Wood Knowledge Centre