

# UNLOVED INDUSTRIAL HERITAGE AS A MOTOR FOR URBAN REGENERATION











#### The brewery Wiels, Brussels,

- reused as a centre of art, Architectural concept:





#### The brewery Lamot, Mechelen,

- reused as a conference and heritage centre where culture and commercial activities are integrated,













- 1. Introduction
- 2. Reuse concept
- 3. Construction
- Structural repair
- Sustainability



# BREWERY WIELS, BRUSSELS (1930). INTRODUCTION





Architect Adriaan Blomme Engineer Sarrasin

#### **Architectural concept:**

- rationalism of production techniques
- display window' transparent architecture
- modernistic building with art deco elements

#### **Evolution:**

1879-1893: oldest part

1893-1900: first extension

1900-1930: new brewery room + machinery room

1930-1947: modernistic Blomme building

1988 the last Wiels was brewed

TALSAUS BRASSAIE

LES SRRESTRIES WILLIAMS CONFER



maria.leus@artesis.be - ine.wouters@vub.ac.be



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- 4. Structural repair
- 5. Sustainability

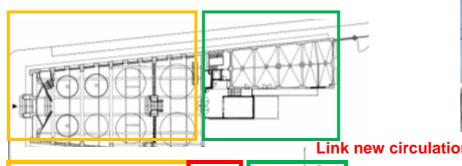
**BREWERY WIELS, BRUSSELS (1930).** 

### **REUSE CONCEPT**

The Blomme - building exists of two components

Brewery rooms – brewery process exhibition room, reception, restaurant, bar

Silo or grain warehouse adminstration area – studio's for artists documentation centre







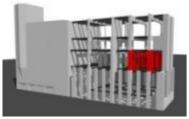






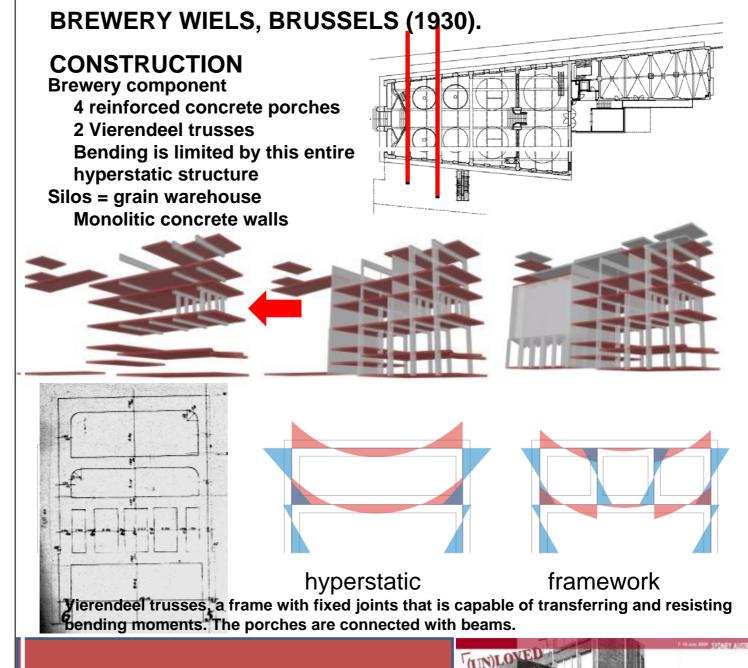


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### BREWERY WIELS, BRUSSELS (1930).

#### STRUCTURAL REPAIR

Structural repair brewery component: insufficient concrete cover of the steel

Steel reinforcement bars: corroded and carbonated.

#### Repair:

- epoxy layer was applied first
- reparation and equalisation mortar
- new plaster

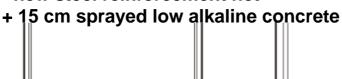
Structural repair silo's: poor concrete composition

**Deformation by continuous load bearing** 

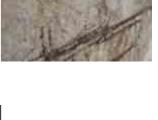
- cracks in the concrete
- strong carbonisation
- corrosion of steel reinforcement bars

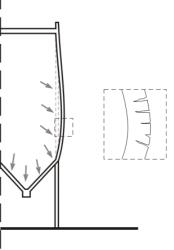
#### Repair:

- new steel reinforcement net



Situation Wielemans
Poor concrete composition







Current

Reinforced concrete configuration

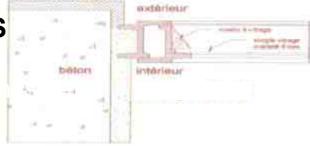






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# BREWERY WIELS, BRUSSELS (1930) SUSTAINABILITY



#### **Sustainability concept:**

to preserve as much as possible in the original state.

- no heat insulation
- no double glass
- no heat isolated window

#### **Thermal interventions:**

10 cm thick roof heat insulation.

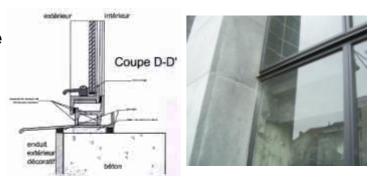
#### Energetic level of the building.

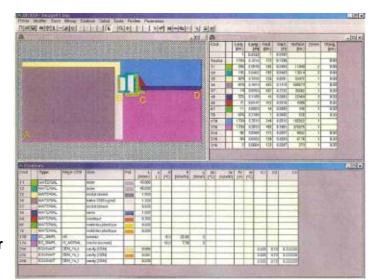
To receive the Belgian minimum standard

- walls and the floors must be insulated + 4 cm polyurethane
- windows +better thermal glazing

#### **Programm PHYSIBEL**

A two dimensional and stationary simulation for two different details was use for the calculation













#### Introduction 1.

- 2. Re-use concepts
- Re use strategies
- Phase models

**Architect: Alex Desruelles Engineer: Oscar Pierard** 

**Status: not protected monument** 

**Evolution:** 

1627: brewery - ' de Croon'

1855: C. & R. Lamot owners of 'de Croon'

1922: new Lamot at the place of the old brewery

1922 – 1981 – all the old parts were replaced by

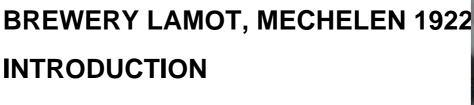
new ones

1981: owner : Inbev

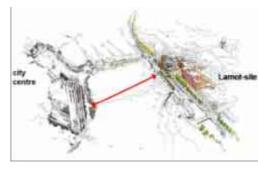
1995; the last Lamot was brewed

Construction

- Concrete structure - hidden by a brick facade













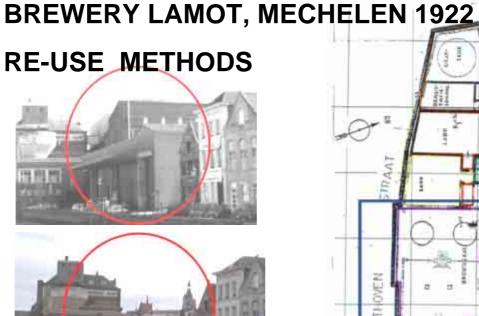






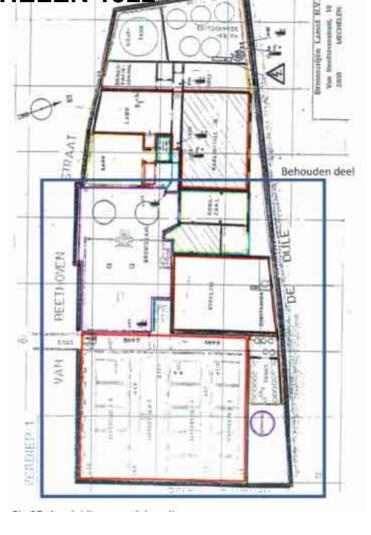


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Values determination

a doll's house













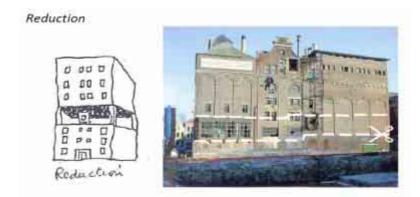


## BREWERY LAMOT, MECHELEN 1922 RE-USE CONCEPTS

Reduction
<b>Addition</b>
Insertion
connection
demolition
expansion

### (Cedric Price 2003)

underground	
1+1 = 1 unity	
1+1 = 2 - contrast	
continuity	
palimpsest	
hermit -crab	
recapitulation phase	
face - lift	







Re -arch (Crimson 1995)



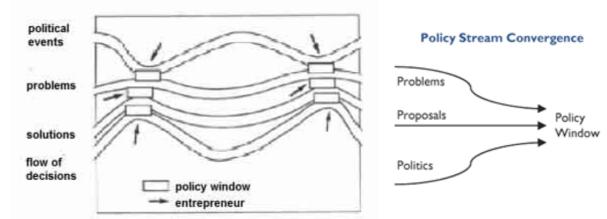




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## BREWERY LAMOT, MECHELEN 1922 STRATEGIES FOR SUCCES

The Netherlands Institute for industrial heritage (1995)



'Agendas, Alternatives and Public Policies' – (Kingdon 2002)
SWOT ANALYSIS









### **BREWERY LAMOT, MECHELEN 1922**

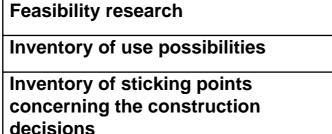
#### PHASE MODELS

Analysis phase
Model phase
Re – use phase
Planning and
construction phase

Initiative phase	
Design phase	
Contract phase	
Construction phase	
Management phase	

Phase model Oskam and Krabbe phase model TU Delft (Nelissen 1999)

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Design definition and programme requirements

Construction preparation and implementation

Phase model of DOORNENBAL (Nelissen 1999)









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