

Introduction - What's behind FCRBE ?

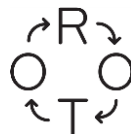


Michaël Ghyoot
Rotor



Léa Bottani-Dechaud
Rotor

Project Partners



University of Brighton



BELLASTOCK
ARCHITECTURE EXPERIMENTALE

Funders



Associated Partners

Ymere

beliris
POUR BRUXELLES
VOOR BRUSSEL

WW

NewHorizon

ARUP



Wallonie



Service public
de Wallonie



SAMEN MAKEN WE
MORGEN MOOIER

OVAM



Delft University of Technology



University of Brighton



Befimmo

SOENECS
Innovative Sustainable Solutions



targeting
zero

Behind the logos



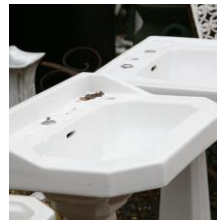
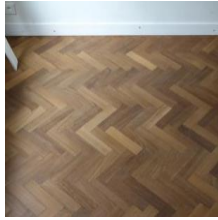
slido



FCRBE, what does that evoke for you?

ⓘ Start presenting to display the poll results on this slide.

'RBE' for reclaimed building elements



etc.

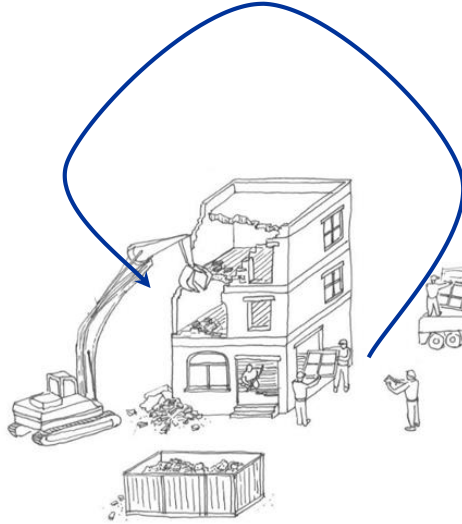
Reusing ≠ recycling



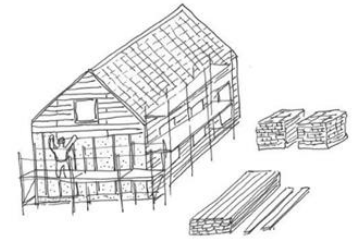
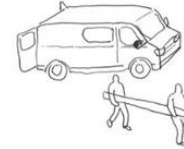
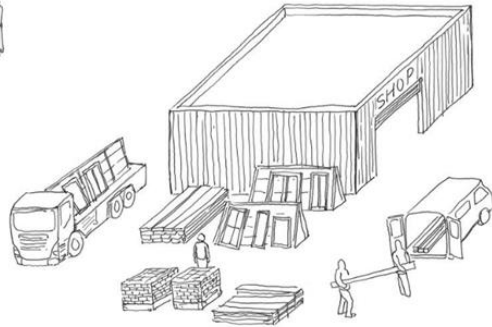
Should it stay or should it go?



'C' for Circulation



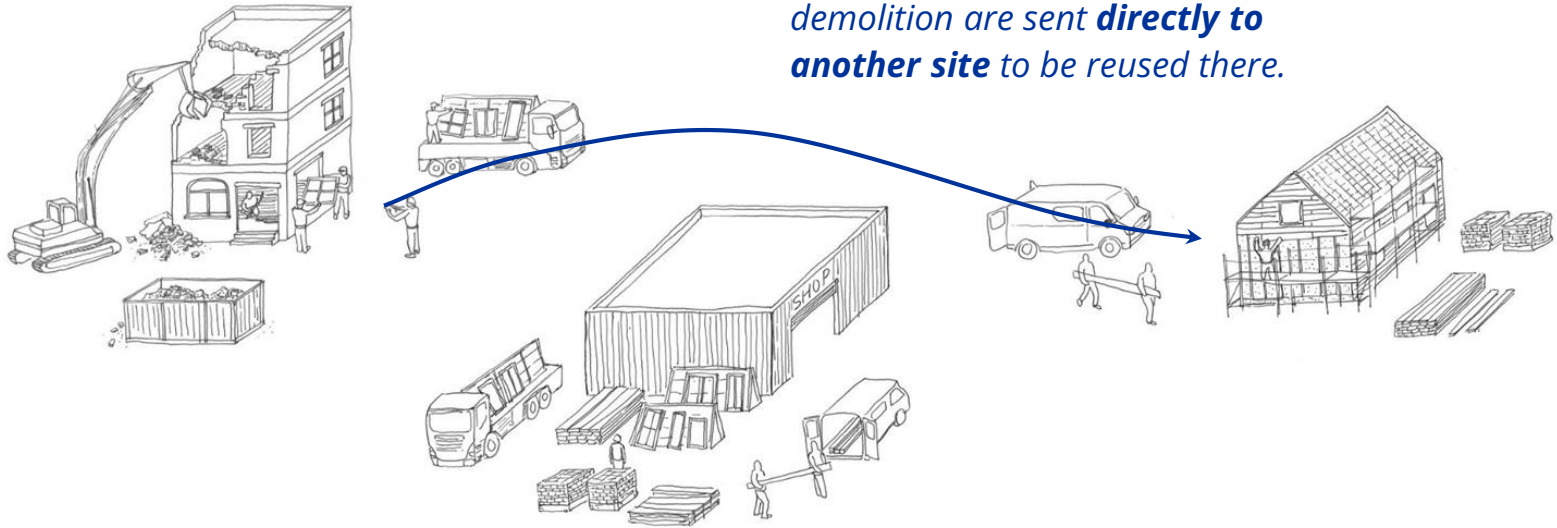
1) Materials dismantled during the demolition will be reused in the new development on the **same site**



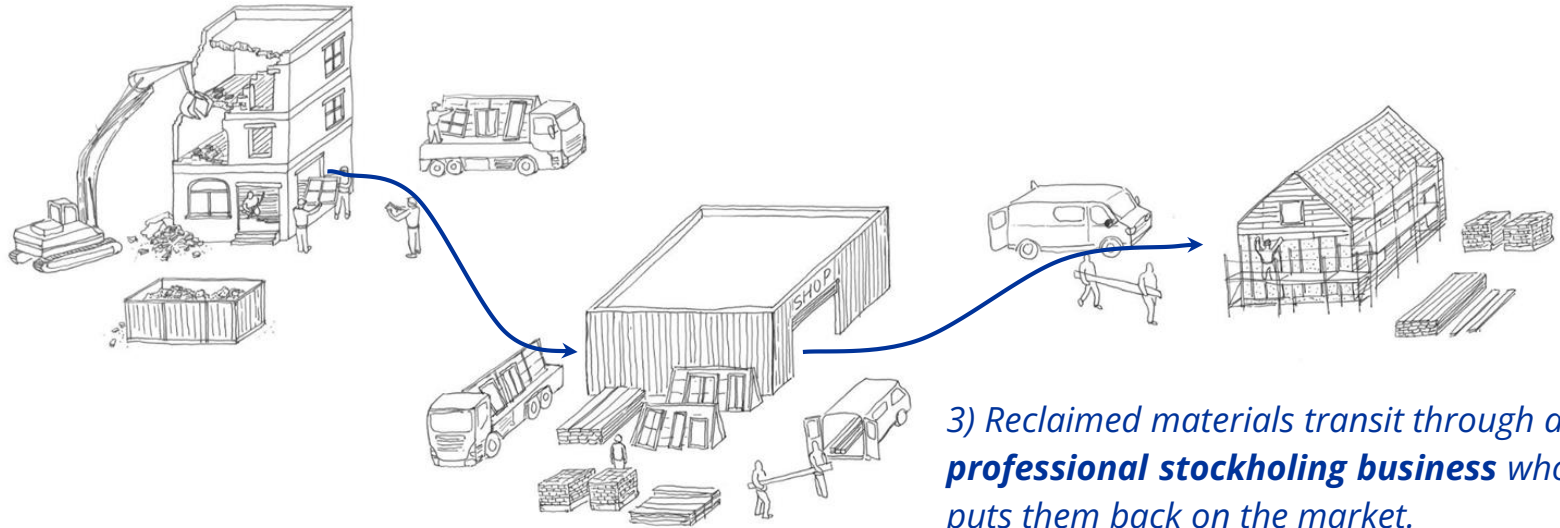
'C' for Circulation



2) Materials dismantled during the demolition are sent **directly to another site** to be reused there.



'C' for Circulation



Reclaimed materials may undergo light operations



Dismantling



Conditioning



Cleaning



Storing



Reused!

Perfect illustrations of a circular economy



*"A circular economy is about **managing stocks**: assets of cultural, natural and human nature, and manufactured objects. We have to learn how to **maintain these stocks**, because in industrialised countries we have a society of abundance. We have everything we need, but we have to **learn how to look after it, and to care for it.**"*

Walter Stahel in conversation with Ellen MacArthur, 26 June 2019. Via Medium.com



'F' for Facilitating



“After decades of steady decline, today less than 1% of building materials in NWE are repurposed after their first use. Without coordinated action this percentage is likely to drop even more. [...] The goal is nothing less than to reverse the trend, and to grow the salvage industry in Belgium, France and the UK”

Mechanisation of the works



Need for speed, cost of labour



Materials for Salvage.

The high cost of labor made it unprofitable long ago to clean off the old bricks for second use. But the plate glass can frequently be sold and therefore care is taken to keep it unbroken; it is removed from the building almost immediately after the wrecker takes over the structure. Plumbing fixtures and pipes also are valuable salvage. The girders may be melted down again or used as temporary supports in structural work, such as subway building; heavy beams may also serve this purpose. The wrecker himself frequently finds use for some of the timber, chiefly in erecting the "bridge"—the structure built around all wrecking jobs to protect passers-by from falling objects. If the building is decorated with marble, as are many of the older buildings particularly, the wrecker finds a market for it. Granite, too, can be used again—for tombstones or mausoleums, or, possibly, in other buildings. Thus the wrecker saves what he can, but only so long as salvaging does not slow him up unduly.

"The high cost of labor made it unprofitable long ago to clean off the old bricks for second use. [...]"

"Thus, the wrecker saves what he can, but only so long as salvaging does not slow him up unduly."

Daniel Schwarz, "New wrecking techniques speeds up building of skyscrapers. Structures are now razed from bottom to top to hasten the clearing of sites", *The New York Times*, 5 July 1931.

Appetite for new, pristine goods



THE SATURDAY EVENING POST

"The best things in life come in Cellophane"

"You SEE what you buy, no guesswork."

"Foods come fresh, stay fresh longer, less waste."

"...and things in Cellophane are clean and sanitary."

DU PONT Cellophane

DU PONT

BETTER THINGS FOR BETTER LIVING... THROUGH CHEMISTRY
Look at "Cavalcade of America" on Television

L'ACIER INOXYDABLE vous permet toutes les audaces!

L'ACIER INOXYDABLE rend possibles des projets d'avant-garde irréalisables avec tout autre matériau :

RÉSISTANCE MÉCANIQUE INCOMPARABLE
qui ne fait ni métal, ni aluminium éternel.

RÉSISTANCE À LA CORROSION
Inaltérable dans toute son épaisseur, l'ACIER INOXYDABLE conserve l'aspect de métal et ne "bouge plus". L'usage et le frottement ne peuvent compromettre ses qualités de surface.

DOCLITÉ
L'acier inoxydable est un métal étonnamment "adaptable" : il prend, à volonté, les courbes les plus variées que vous pouvez imaginer !

ENTRETIEN NUL
L'acier inoxydable, en raison de la durée de sa surface polie se nettoie facilement avec de l'eau et du savon.

UGINOX

ARCHITECTES, DÉCORATEURS,
POSEZ-NOUS VOS PROBLÈMES !
UGINOX - BUISSONNET met à votre disposition son service "Information et Documentation" département ARCHITECTURE
Émergence - Service Information et Documentation
16, rue de la Ville-Eveque PARIS 8^e

POUR UNE ROUTE IMPECCABLE!...

CIMENTS PORTLAND

CIMENTS MÉTALLURGIQUES

C·B·R

S. A. CIMENTERIES & BRIQUETTERIES RÉUNIES
34, BOULEVARD DE WATERLOO, BRUXELLES
TÉLÉPHONE : 13.29.36 & 11.91.40

Diversification of construction products

**LE PLANCHER PRÉFABRIQUÉ
EN BÉTON ARMÉ VIBRÉ**



présenté par
**les Etablissements
BEKAERT**

99 AV. DE L'UNIVERSITÉ
BRUXELLES
TEL.: 4201.57
USINES A WUNEGEM-LEZ-ANVERS

Editeur responsable: Louis VANDENHEUVEL,
5, rue Franklin, 5 - Anderlecht - Bruxelles

IMPRIMÉ EN BELGIQUE

Création - Publicité Linemid

Imprimeur: - Hans WAUTERS
10, Rue du Grand Duc - Bruxelles

menuiserie
le bois minéral



**résiste à tout...
partout!**

La plaque MENUISERITE s'impose dans tous les travaux intérieurs, par ses qualités de résistance et sa facilité de placement.

INCOMBUSTIBLE . . . elle protège contre l'incendie.
INDEFORMABLE . . . elle ne se gondole, ni ne s'écrite pas.
IMPUTRISCIBLE . . . elle se recommande pour les locaux humides.
INATTAQUABLE . . . elle résiste aux rongeurs et aux insectes.
FLEXIBLE . . . elle peut être cintrée sans aucune difficulté.

★

Dim : 2,50 x 1,20 m. 3 épaisseurs : 2 - 3,2 - 5 mm.
Nour envoyer une dimension MENUISERITE bien volontiers sur demande.
Salle d'exposition 1 Bruxelles, 10 boulevard du Jardin Botanique

C'EST UN PRODUIT Cernit

Synonyme de qualité
S. A. ETERNIT - Cap. : Fr. 400.000.000 - KAPELE-OP-DEN-BOS
Iles disponibles dans tous les régions du pays.
Pour les agglomérations, voir l'indicateur des Téléphones sous « Eternit » et « Menuiserie ».

Editeur responsable Louis VANDENHEUVEL
96, rue Ernest Solu - BRUXELLES 11

IMPRIMÉ EN BELGIQUE

Imprimeur: J. O. S. VERMAUT
28, rue longue des Pierres, Courtois



3 Sandstone setts



New, produced in
Belgium

90 €/m²



Reclaimed in
Belgium

35 €/m²



New, imported
from Kandla, India

15 €/m²

How to reverse the trend?



💡 WP T1: Shedding light on the reclamation trade

Directories of reclamation dealers

Truly reclaimed label

Statistical survey

WP T2: Fostering the reclamation of reusable building materials

Reclamation audit method

Digital tools for reclamation audits

🏢 WP T3: Facilitate the integration of reuse in procurements and specifications

Pilot operations

Specification strategies

Catalogue of material sheets

How to reverse the trend?



🔊 WP Communication

Booklets

Mobile exhibition

Conferences, lectures

Workshops

Articles, press

🌱 WP Long term effects

A summer school

Roadmap for public authorities

Diverse reports

Training programme

ABC