

A manual for specifying reclaimed building elements

In large-scale projects and public tenders

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Interreg



EUROPEAN UNION

North-West Europe

FCRBE

European Regional Development Fund

THEMATIC PRIORITY:



RESOURCE AND
MATERIALS EFFICIENCY



PROJECT
AREA

Project objective: Increase by 50% the amount of reclaimed building elements being circulated in North Western Europe by 2032.

Total budget received from Interreg North-West Europe (2014-2020):

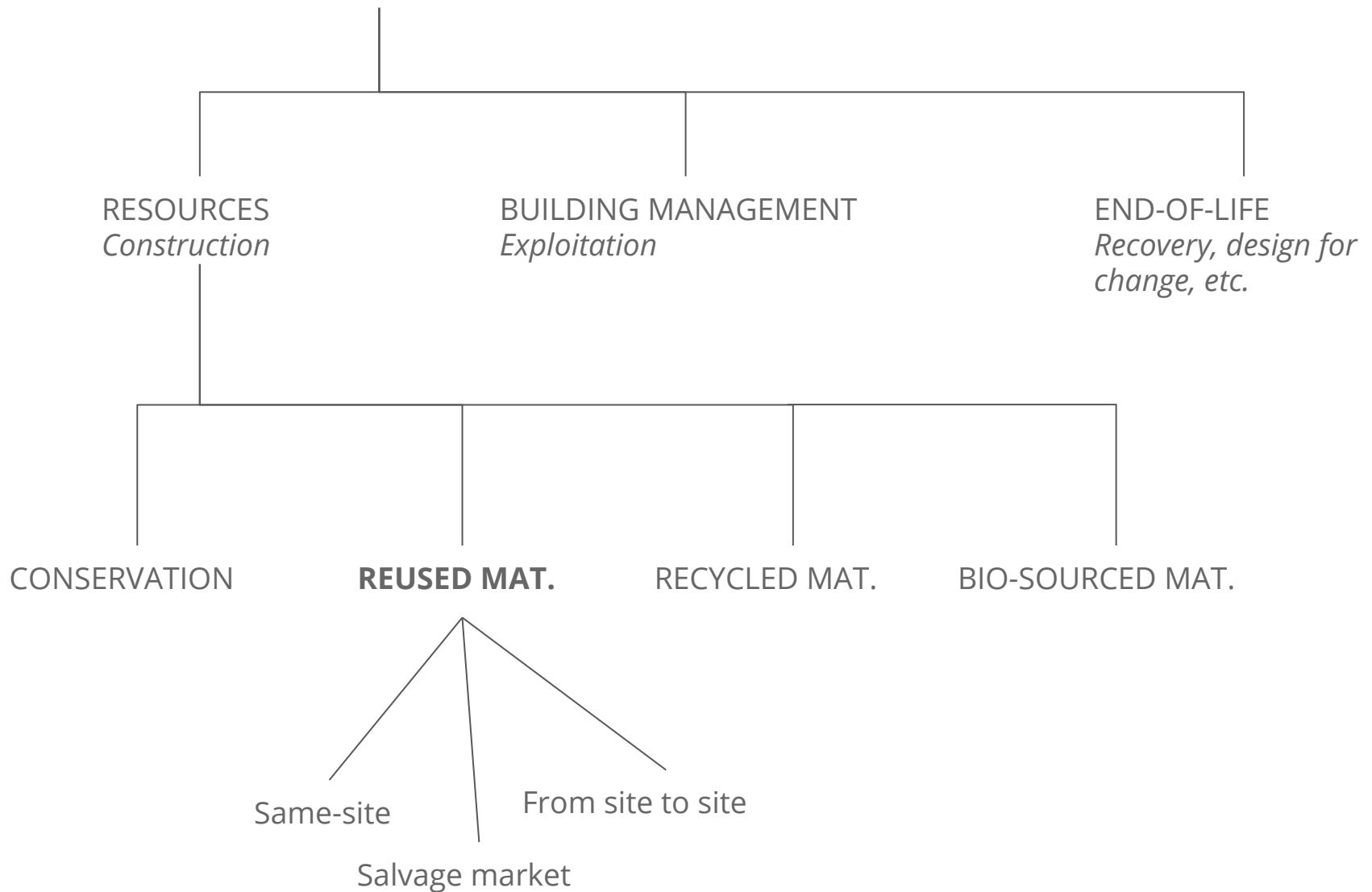
€2.6 million of ERDF



Total project budget:
€4.33 million

www.nweurope.eu/fcrbe

Circularity in construction



Reuse: an immediate circular solution

- More than 80 salvage dealers active in Flanders (documentation of NL, FR and the UK in progress...)
- Find them on <http://opalis.eu>
- Provide: stockholding, preparation of materials, documentation, guarantees (sometimes), etc.
- Compliant with public procurements.



Doehetzelf 2dehands bouwmarkt
Zwijndrecht (Belgium)



**Jan van Ijken Oude
Bouwmaterialen**
Eemnes (Nederland)



Corvelyn
Aalter (Belgium)

How to measure circularity/reuse in the tender process?

1. Define indicators.
2. Assess the offers.



“Charles Malis” Project
2016

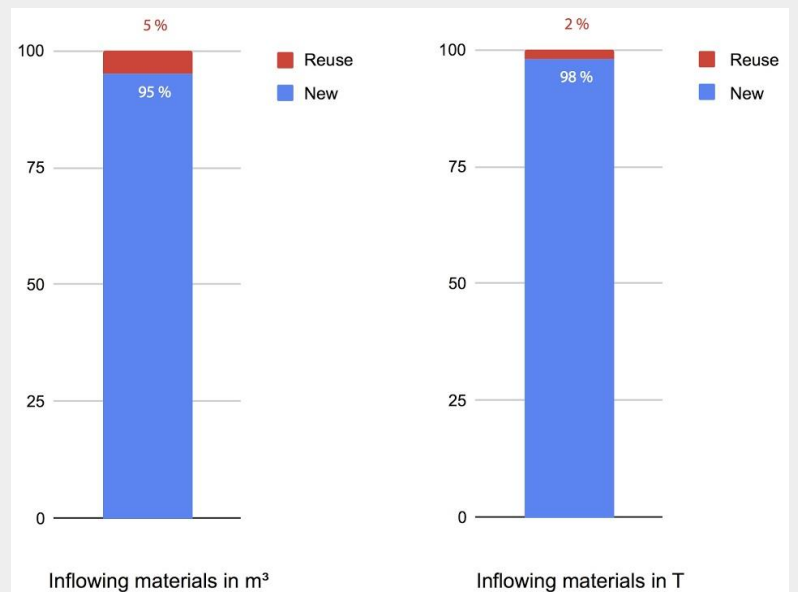
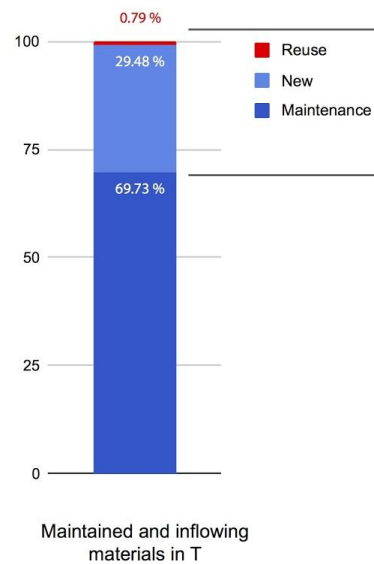
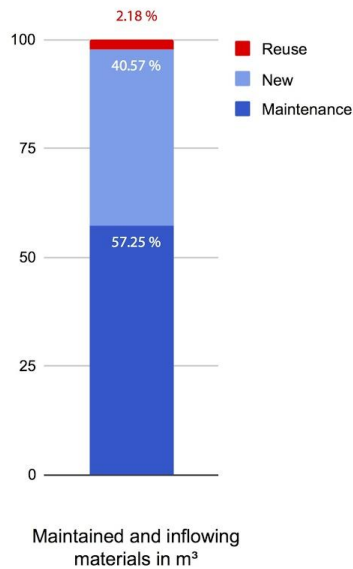
Luminaires and pavements purchased to reuse traders.

1. Define indicators

One objective, one indicator

Make sure to distinguish :

- Conservation \neq Reuse \neq Recycling
- Outflows \neq Inflows
- Present impact \neq Future impact



Example



Multi Tower

Ongoing

Initial objectives:

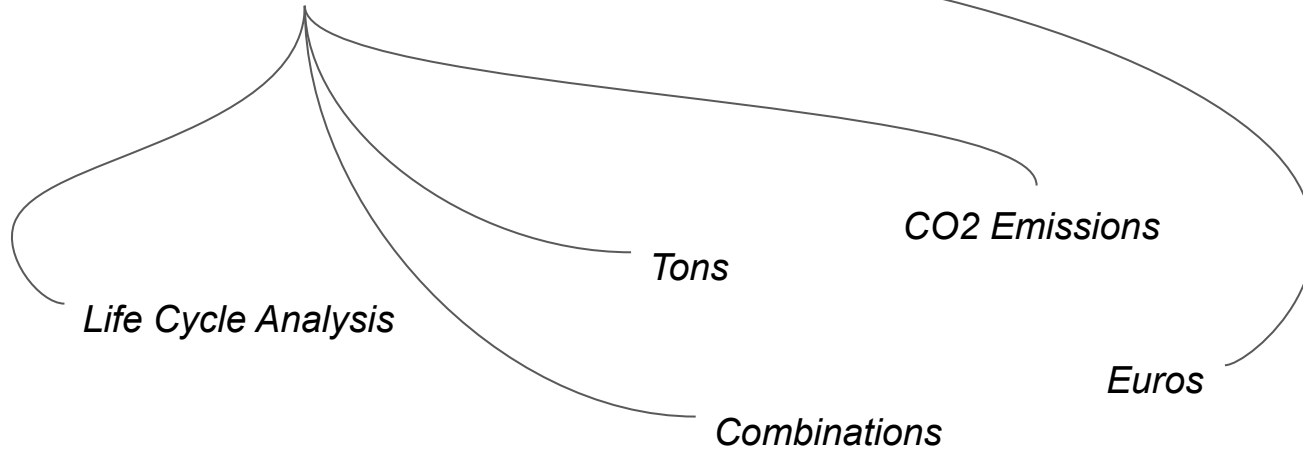
1. Maintaining “as much as possible”
2. 2% reclaimed materials (in value and mass).

Results (so far):

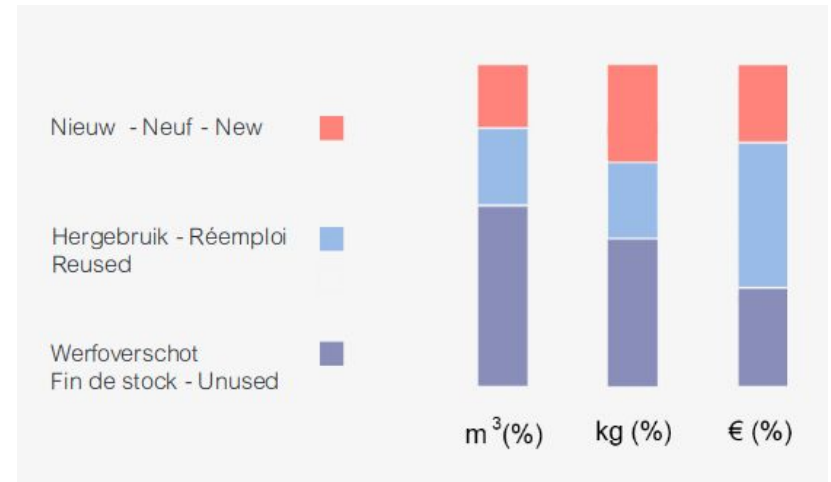
1. 86% of the building maintained (in mass).
2. 5% reused (in mass).

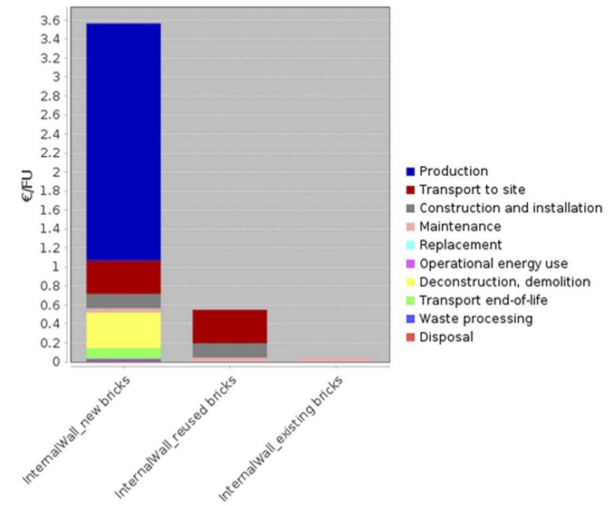
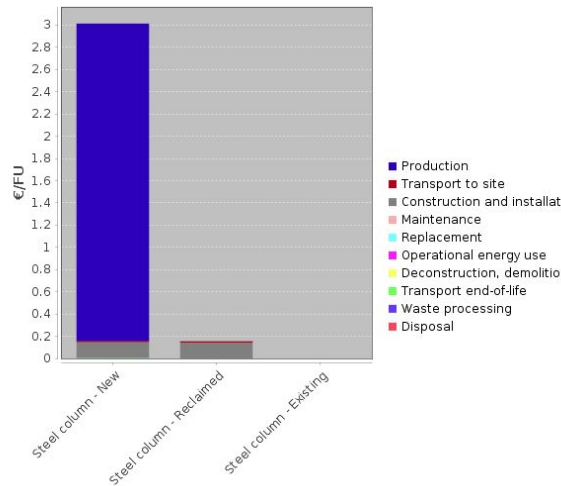
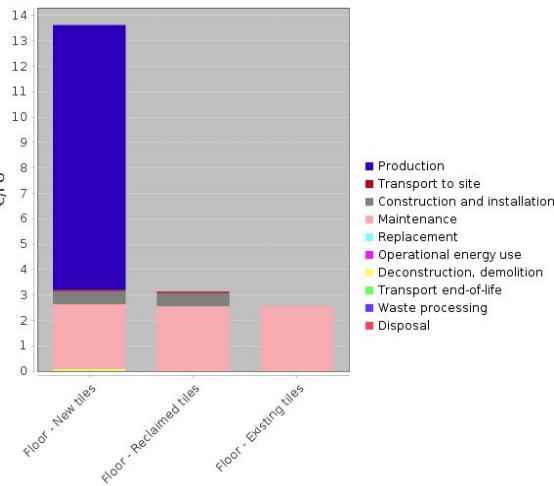


Which unit?



Project
Sanitary
block for
Itterbeek
Chiro
2019





Comparison of the environmental impact of a brand new material, a salvaged one and a retained one.

Graphics source: Totem

2. Assess the offer

Real skills over dream projects

Selection criteria <i>First step: selecting the teams allowed to submit an offer</i>	Tender requirements <i>Second step: selecting an offer based on a project</i>
<ul style="list-style-type: none">● References with reuse? Not the best way to go...● Creativity and adaptation to circumstances.● Global architectural quality.● Demonstrated interest in environmental issues and climate mitigation.● Training, education.● Diversity of skills in the team.	<ul style="list-style-type: none">● Indicate which part of the project are going to be made out of reclaimed building materials.● Formulate a strategic note about proposed strategy, expected challenges, etc.● Visit of the site + Q/A.● Provide a budget estimation.● Provide a circularity plan, including monitoring indicators, communication flows...

Assessment adapted to predefined target and indicators

Award criteria

- In case of a large and ambitious objective, use a weighted criteria.

Ex : "Reuse performance", "Sustainability", "Environmental impact", "Circularity"...

- A more restricted/precise objective will be translated into the specifications, and thus become mandatory. No need to define a specific criteria.

Ex : "Lot XX.YY.ZZ : use of bricks reclaimed in a building slated for demolition".

- Alternative option: start from a minimal requirement and give extra points to more ambitious offers.

"The greater the proportion of reused products or products consisting of reused components among the products supplied, the higher the tender will be rated.

Reused components are defined as follows: components that have already been used in the same form. [...]

Reuse is the preferred option in the hierarchy of material consumption. This award criterion will therefore usually supersede the "Use of bio-based and recycled material" award criterion and should receive a higher rating."

Green public procurements in the Netherlands: the example of the **MVI-criteriatool**.

<https://www.mvicriteria.nl/nl/webtool?criterion=735#reused/other////en>



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Facilitating the Circulation of Reclaimed Building Elements

<http://nweurope.eu/fcrbe>

@1500reuse