

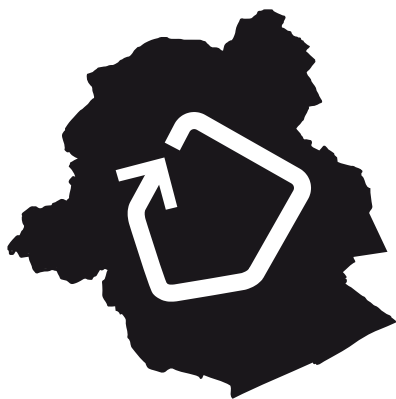


FEBRUARY 22, 2018

From 9 am to 5 pm

UCL – LOCI Rue Wafelaerts 47-51 1060 Bruxelles

UCL - Architecture et Climat
VUB - Architectural Engineering
BBRI
Rotor



BBSM

Le Bati Bruxellois

Source de nouveaux Matériaux

// PROGRAM

> **9:00 am**

Welcome (EN-FR)

Prof. Sergio Altomonte - UCL

> **9:05 am**

Presentation of ERDF Programming (FR)

ERDF Unit

> **9:10 am**

Presentation of the BBSM Project and About the 3 Topics of the Day (FR)

Sophie Trachte - UCL

> **9:20 am**

Urban Mining

Haul it All ! How Planning and Flow Scenarios can Reduce Negative Impacts of Large Scale Material Streams ; from Aleppo to Brussels (FR)

Keynote Speaker : Aiden Short – Urban Resilience Platform

Urban Mining in Brussels ?

First Steps for a Better Understanding (FR)

BBSM Speakers : Emilie Gobbo - UCL,
Ambroise Romnée - BBRI

> **10:00 am**

Coffee break

> **10:20 am**

Design

Reusing Spaces Buildings and Reclaimed Components, a Brussels Architect's Perspective (EN)

Keynote Speaker : Johan Anrys - 51N4E

Design for Change, a Creative Opportunity or Another Constraint ? (EN)

BBSM Speaker : Waldo Galle - VUB

> **11:00 am**

Reuse and Regulatory Aspects

Roots and Legal Determinants of a Circular Economy in a EU Context (FR)

Keynote Speaker : Prof. Delphine Misonne - USL-B, FNRS Research associate

Optional CE Marking and Standards for Reused Construction Products under the Construction Products Regulation n°305/2011 (CPR) (FR)

BBSM Speaker : Sophie Seys - Rotor

> **11:40 am**

Conclusions and links with the workshops
Questions

> **12:00**

Lunch

> 1:00 pm

Workshop 1 : Urban Mining

Moderator : Pr. Sergio Altomonte

BBSM : UCL, BBRI

Invited stakeholders : URP, IBGE, CCBC, Bruxelles-Propreté, InnovIris, Metrolab, Irisphère ...

Workshop 2 : Design for Change

Moderator : Waldo Galle

BBSM : VUB

Invited stakeholders : Dzerostudio Architectes, Groep Van Roey, 51N4E, Befimmo, Up4North

Workshop 3 : Reuse and Regulatory Context

Moderator : Sophie Seys

BBSM : Rotor

Invited stakeholders : Pierres et marbres, Rotor ...

> 3:40 pm

Coffee break

> 4:15 pm

Conclusion of the day and workshop

BBSM Consortium (FR/NL/EN)

Perspectives for the Brussels Capital Region

Julien Dumont, Cabinet de la Ministre bruxelloise de l'environnement et de l'énergie et du logement (FR)

🗣 Presentations will be held in speaker's language, without simultaneous translation.

🏠 During our meeting, we invite you to have a look at the temporary exhibition taking place in the venue's atrium. There, several mock-ups will be shown of reversible façade systems made of reused and recycled components by students in architecture.

🎥 Sessions will be filmed.

🌐 www.bbsm.brussels

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The ERDF funded BBSM project brings 4 different partners together for one mission – demonstrate that end-of-life materials are resources and that their reintroduction into the cyclical process is positive for the sustainable development of the Brussels-Capital Region.

The BBSM project responds to the main socio-economic challenges of the region : resource and waste management, reinforcement and creation of sectors in the value chain, creation of jobs, etc.

Moreover, it meets the new objectives in circular economy encouraged by Europe and the Brussels-Capital Region through the PREC (Programme Régional en Economie Circulaire).

This project considers the BCR as an urban mine, where materials in buildings maintain their value. It aims to establish the urban metabolism of the Brussels region concerning the construction sector in a bottom-up approach. The research examines the opportunities offered by the

value –chain of the sector, the technical and legal aspects linked to recovery (reuse, recycling) and the impact of design on the possibilities of using end-of-life materials as new materials.

The final objective is the development of a tool for an efficient management and exploitation of the local material resources constituted by C&D waste in the Brussels Capital-Region.

Workshop 1 : Urban Mining, What Opportunities for Brussels ?

What impacts will energy upgrading have on material stocks and flows ? What are we implementing now that could create waste or potential resources over time ? How innovative strategies for dismantled materials flow management can lead to new economic activities in a circular economy ? The BBSM project looks at the Brussels region from a metabolic perspective, with the focus on the construction industry. It considers the building stock as a potential repository of material, and analyses the dynamics of material flows generated by the need to renovate the stock to close the loop on processes for recovering materials. On a medium or long-term basis, our built environment may represent a potential for local resources. However, to reach a more circular economy, we first have to gain a better knowledge of the material deposit contained in our cities.

Workshop 2 : Design for Change, Creative Opportunity or Constraint ?

As design takes place at the beginning of the life of a building, it is key for adhering to the saying : « the best waste is avoided waste ». Therefore, the BBSM project addresses both prevention through « Design for Change » anticipating future building and component reuse, as well as reuse of reclaimed components and its impact on design practice. In addition to informing students and professionals about « Design for Change », it is thus important to understand the creative opportunities or additional constraints reuse brings. During this workshop, we will test some hypothesis on that, following a semi-structured discussion between our keynote speaker, the invited respondents and the audience. The projects they will bring, are the cases that will feed our discussion with real life conditions and challenges.

Workshop 3 : How to Assess the Functional Adequacy of Reused Construction Elements ?

In most cases, reused construction elements are to be considered products. BBSM suggests that a CE marking is only optional for them. However, the question of how to assess their performances for new uses still needs to be addressed. Are the performances demonstrated by a previous use to be trusted and matched against expected performances for the next use ? How to articulate the chain of responsibilities that links designers, contractors and resellers ? The aim in Workshop 3 is to share experiences and good practices to evaluate how adequate reused construction elements can be for new uses. We will discuss harmonized standards, European technical assessments, declaration of performances, labels, technical approvals, and risks minimization strategies.