



Buildings As Material Banks – A Pathway For A Circular Future

SBE19 Brussels BAMB-CIRCPATH

A summary report from regional SBE Conference

Dates

- 5 February 2019, BAMB INDUSTRY DAY, This Industry Day was dedicated to share the BAMB tools and results with all innovation enthusiasts, stakeholders and industry players.
- 6-7 FEBRUARY 2019, SBE19 Brussels BAMB-CIRCPATH

Location

Brussels Environment (IBGE-BIM), Brussels, Belgium

Number of paying attendees

- 270 attendees had registered for the Industry Day. The attendance for the Industry Day was free of charge.
- 130 attendees from 23 countries had registered and paid the conference fee. Other 37 attendees who were mainly BAMB Project partners had attended the conference without paying the registration fee.

Main themes and sub-themes

The conference had mainly addressed the theme of circular economy in the building sector, its applications, opportunities and contributions to the construction sector and the sustainability of the built environment.

The conference had focused on the following topics:

- Strategies and tools for the design of reversible and transformable buildings and systems
- Design for high reuse potential of buildings and building elements
- Design for adaptability
- Digitalization in the construction sector to support circular economy
- Design for reconfiguration of buildings and systems
- Design for reuse of existing buildings, products and equipment
- Environmental assessment and measurement tools for circular buildings and products
- Environmental and economic impacts of reversible and transformable buildings and products
- Efficient waste, resource and facilities management in the building sector
- Management tools / mechanisms that support system, component and material reuse
- Cradle to cradle strategies and materials health
- Barriers and opportunities for a dynamic and a circular built environment
- BIM to support greater reuse and recovery from demolition/deconstruction
- Design for high reuse potential and BIM
- BIM for existing buildings
- Innovative business models around circularity of resources in the construction sector
- Policies and standards for a circular built environment
- Case Studies

Plenary keynotes by title and presenter

- BAMB INDUSTRY DAY
 - James Drinkwater: The Secret Life of Buildings
 - Janez Potočnik: Resources and the future



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 - Thomas Lützkendorf: Mass flow in life cycle of buildings - a topic and its context
 - Luisa F. Cabeza: Materials research to achieve a circular economy in the built environment
 - Steven Beckers: Agility in architectural design towards regenerative cities

Stats

- Number of parallel streams: 3
- Number of paper sessions: 18
- Type of scientific peer review used: double blind peer review
- Number of scientific papers presented: 66 oral presentations
- No poster presentations were held during the conference

Related workshops or roundtables

- BAMB INDUSTRY DAY

The Industry Day included interactive sessions in which the BAMB Project's consortium had presented the results of the project.

Other plenary sessions and panel discussions were held and included the participation of invited speakers and BAMB project's representatives.

Panellists:

- Caroline Henrotay, BAMB Project Coordinator, Brussels Environment
 - James Drinkwater, Director of World GBC's Europe Regional Network
 - Mark Edwards, Environmental Assessment Manager - Resources & Construction, Heathrow Airport
 - Sébastien Garnier, Innovation and Project Manager, Housing Europe
 - Didier Leon, Senior Relationship Manager Real Estate & Infrastructures, Triodos Bank
 - Josefina Lindblom, Level(s) framework, DG Environment, European Commission
 - Stefania Rocca, Executive Agency for Small and Medium-Sized Enterprises (EASME)
 - Gilli Hobbs, BRE
 - Lars Luscuere, EPEA
 - Elma Durmisevic, University of Twente and 4D Architects
 - Martijn Peters, IBM
 - Molly Steinlage, BAMB Project Coordinator, Brussels Environment
 - Teodora Capelle, Brussels Environment and representatives of the four pilot projects in BAMB
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 - A wrap up conclusive session was held by the conference chairman Prof. Luís Bragança

Method of communicating outcomes – proceedings and other

- A book of abstract is available online with open access <https://www.bamb2020.eu/wp-content/uploads/2019/02/Book-of-Abstracts.pdf>
- electronic proceedings are published online at IOP Publishers as open access papers within IOP Conference Series Earth and Environmental Science (<https://iopscience.iop.org/issue/1755-1315/225/1>) and are indexed in ISI (Web of Science) and Scopus.
- The majority of the event's keynotes and paper presentations slides available online through the final event's website (<https://www.bamb2020.eu/final-event/>)



Measures taken to reduce environmental impact of the event

- The venue was easily accessible by public transport
- The event's venue; Brussels environment IBGE - office building is the second largest passive building in Europe with high energy performance.
- The utilization of printed items was reduced and relying on digital format for the proceedings and other information.
- No conference bags were distributed onsite
- No plastic bottles or cutlery were provided by the catering service

Comments

- Certificates of attendance and of participation were sent in digital format to attendees and participants, respectively.
- Ten papers were selected as best papers to be inserted into a fast track review by the WSBE20 organizers in order to be considered later in the WSBE20 global conference in Gothenburg, Sweden, 2020.

On behalf of the SBE19 Brussels BAMB-CIRCPATH Organizers

A handwritten signature in blue ink that reads "Luís Bragança".

Luís Bragança

Chairman of the SBE19 Brussels BAMB-CIRCPATH Conference