BAMB in practice

Practical real-life examples tested and demonstrated the project tools in various settings, including a sustainable Wooden Building as part of a summer camp and an actual waste to energy waste-based plant (B.B. Brackley). A sustainable refurbishment of a scenic framed building for multiple use and in multiple locations (GTB-Lab, Brussels). An interactive 3D printed building, modular, re-usable and transportable (GTB-Lab, Brussels). An interactive travelling exhibition showcasing Materials Passports and circular materials (REMs). A number of BAMB tools and methodologies have been developed, demonstrating that buildings can function as banks of valuable materials. BAMB tools and methodologies were used to generate materials passports and materials passports for dynamic and circular buildings, the pilots and prototypes and building components and materials of exemplary settings. BAMB helped preserve the buildings, components and materials’ residual value, which made it possible to capitalize on them by high quality reuse and recycling strategies. The BAMB pilots and prototyping have demonstrated that BAMB tools and methodologies are effective in producing products, such as exchangeable components, for multiple uses and with zero waste (B.R.I.C., Brussels). A transformable building with circular refurbishment of a concrete framed building (CRL, Brussels), a transformable wooden building and training unit achieving nearly zero waste (B.R.I.C., Brussels), a transformable steel framed building module showcasing Materials Passports and circular materials (REMs). A circular refurbishment of a concrete framed building (CRL, Brussels), a transformable wooden building and training unit achieving nearly zero waste (B.R.I.C., Brussels), a transformable steel framed building module showcasing Materials Passports and circular materials (REMs).

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The construction and operation of buildings account for about half of all energy use and 30% of greenhouse gas emissions. The construction and use of buildings account for about half of all energy use and 30% of greenhouse gas emissions, resulting in a high rate of building consumption. We need to change the way we design, build, and use buildings. The building industry from its non-sustainable linear and static thinking of Take – Make – Dispose. Buildings are considered as temporary repositories of environmental burden and a cost, buildings are therefore a systemic shift of the building sector into a circular industry. The construction and use of buildings account for about half of all energy use and 30% of greenhouse gas emissions. The Construction and operation of buildings account for about half of all energy use and 30% of greenhouse gas emissions. The Construction and operation of buildings account for about half of all energy use and 30% of greenhouse gas emissions. The Construction and operation of buildings account for about half of all energy use and 30% of greenhouse gas emissions. The Construction and operation of buildings account for about half of all energy use and 30% of greenhouse gas emissions. The Construction and operation of buildings account for about half of all energy use and 30% of greenhouse gas emissions. The Construction and operation of buildings account for about half of all energy use and 30% of greenhouse gas emissions. The Construction and operation of buildings account for about half of all energy use and 30% of greenhouse gas emissions.