



Autumn 2024 issue

BIO4EEB
 A project co-funded by the European Union ; Enhancing the Energy performance of Buildings by BIO insulation materials.
 Published Nov 13, 2024

Dear Reader,

We'd like to welcome you to the second issue of our newsletter for Autumn 2024. Are you ready to discover our project concept video, latest news and more?

Designed for the circular and bio-based materials community and whoever is interested in the green construction topic, this newsletter disseminates information about the BIO4EEB project, highlights and latest activities.

BIO4EEB is running full swing after 22 months of activities. The project develops new environment friendly, light-weight and cost-effective bio-based insulation materials to move towards building with nearly zero net energy consumption standards. These include panels made from seagrass (*Posidonia oceanica*), polyelectrolyte complexes (PECs) for fire-resistant coatings, windows from bio-polyurethanes (bio-PUR), and thermal insulating foams from bio-polyurethane and polylactic acid (PLA).

Our ambition is to support the construction performance of residential buildings extraordinary at all three hierarchical levels of construction parts simultaneously (building, component, material) by creating an amplified environmental impact and reducing volatile organic compounds emissions.

In order to stay updated, you are kindly invited to follow our social media accounts:

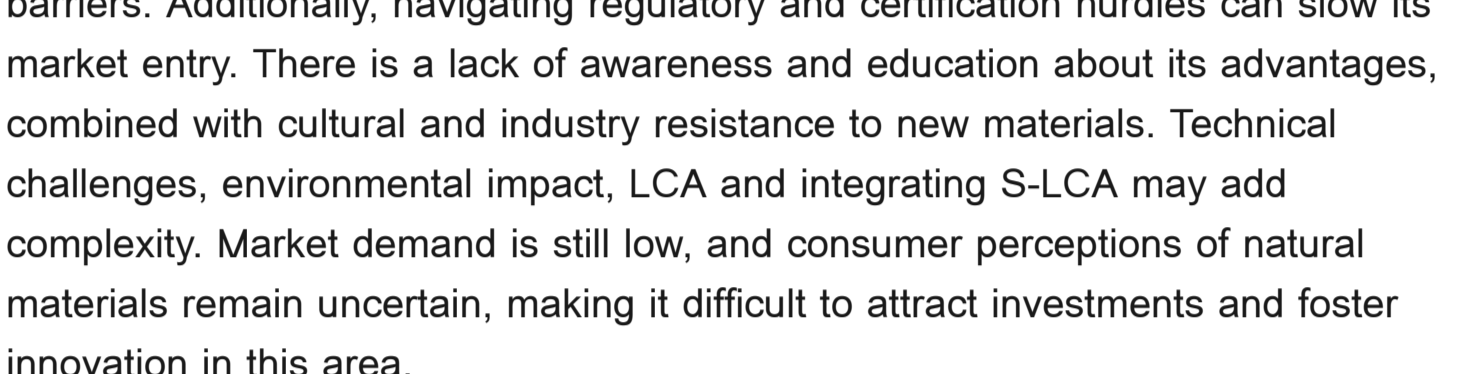
- Visit our [website](#)
- Follow us on [Twitter](#), [Linkedin](#) and [Youtube](#)!

Sincerely,



BIO4EEB INTRODUCTORY VIDEO

Check-out BIO4EEB first video published on our YouTube channel 📺 Do not forget to subscribe to our [YouTube](#) channel where we will share more videos to come, as well as the recordings of our workshops ! 🌍

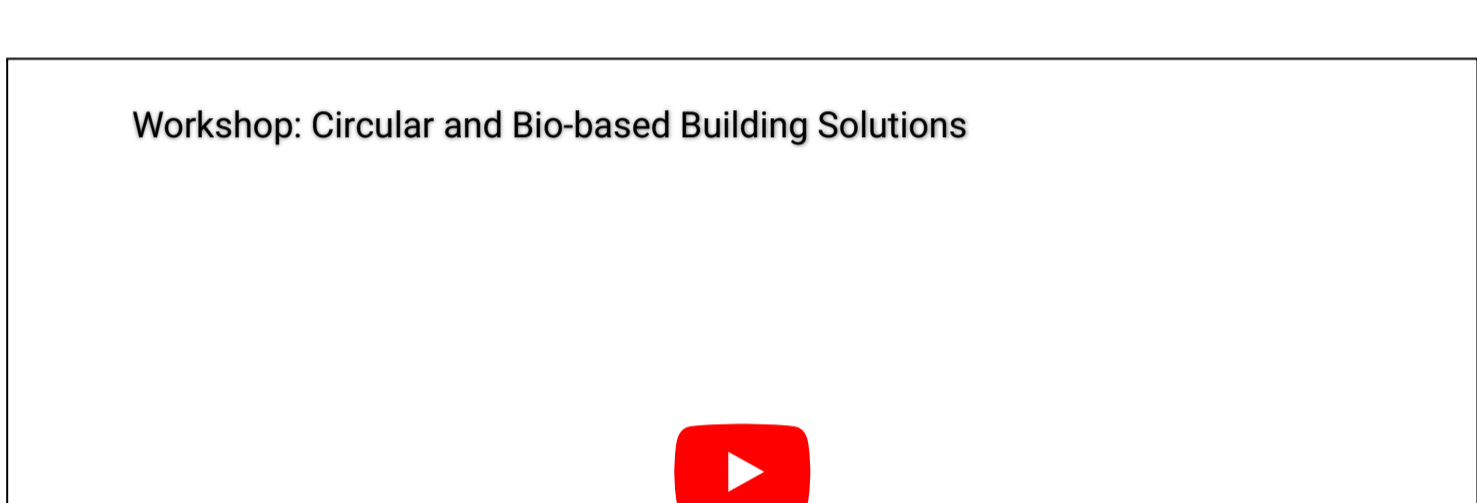


POSITONIA: WASTE TO WONDER

Like many other innovative solutions, Posidonia insulation may face some challenges that need to be addressed for wider adoption. These include higher initial costs and limited availability due to supply chain issues. Ownership of waste bias, along with concerns about performance and durability also may pose barriers. Additionally, navigating regulatory and certification hurdles can slow its market entry. There is a lack of awareness and education about its advantages, combined with cultural and industry resistance to new materials. Technical challenges, environmental impact, LCA and integrating S-LCA may add complexity. Market demand is still low, and consumer perceptions of natural materials remain uncertain, making it difficult to attract investments and foster innovation in this area.

The good news is, BIO4EEB project addresses these challenges simultaneously applying a multifaceted approach, including policy support, industry collaboration, focused research and development, and efforts to raise awareness and educate stakeholders about the benefits and potential of bio-based building materials.

[Click here to check BIO4EEB products!](#)



LATEST NEWS

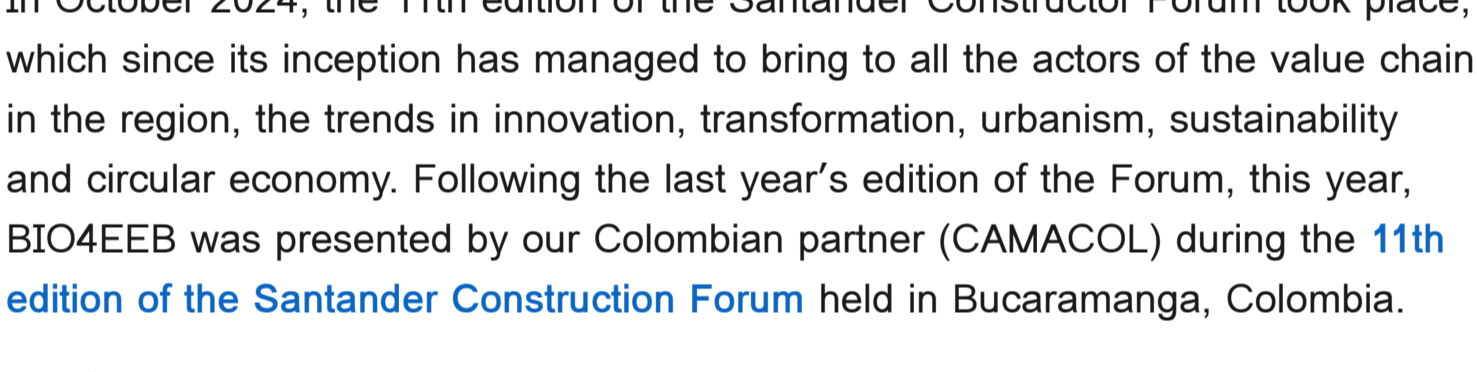
BIO4EEB at Sustainable Places 2024!

Workshop: Circular and Bio-based Building Solutions

[Sustainable Places](#) is an ideal platform for the dissemination of research, conducting clustering workshops and networking between stakeholders of all types. On 25 September, our coordinator Klaus Luig (3L) chaired the 2nd edition of Circular and Bio-based Building Solutions workshop organised by Sustainable Places Conference in Luxembourg. You can now watch the [full recording here!](#)

[Learn more here](#)

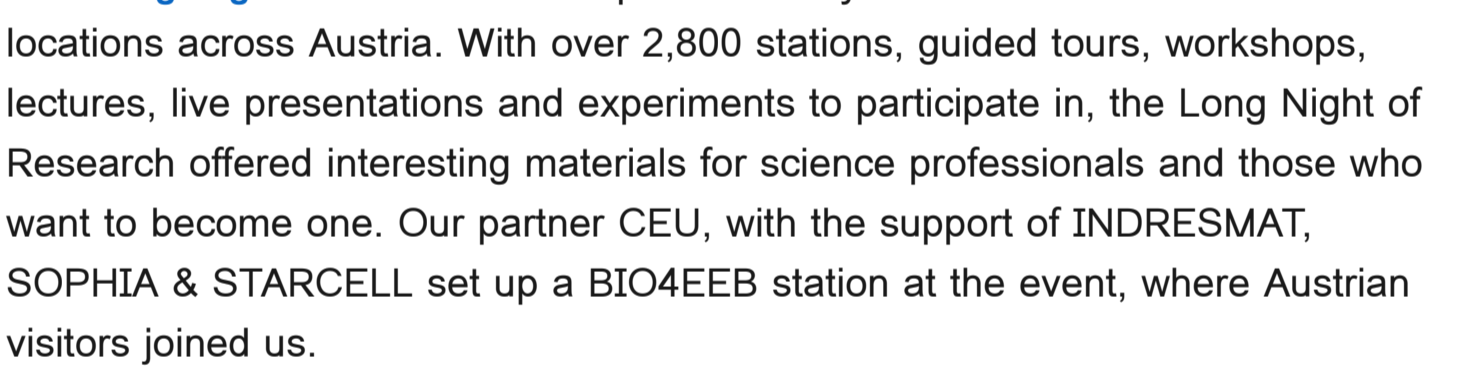
11th Foro Constructor Forum



In October 2024, the 11th edition of the Santander Constructor Forum took place, which since its inception has managed to bring to all the actors of the value chain in the region, the trends in innovation, transformation, urbanism, sustainability and circular economy. Following the last year's edition of the Forum, this year, BIO4EEB was presented by our Colombian partner (CAMACOL) during the [11th edition of the Santander Construction Forum](#) held in Bucaramanga, Colombia.

[Learn more here](#)

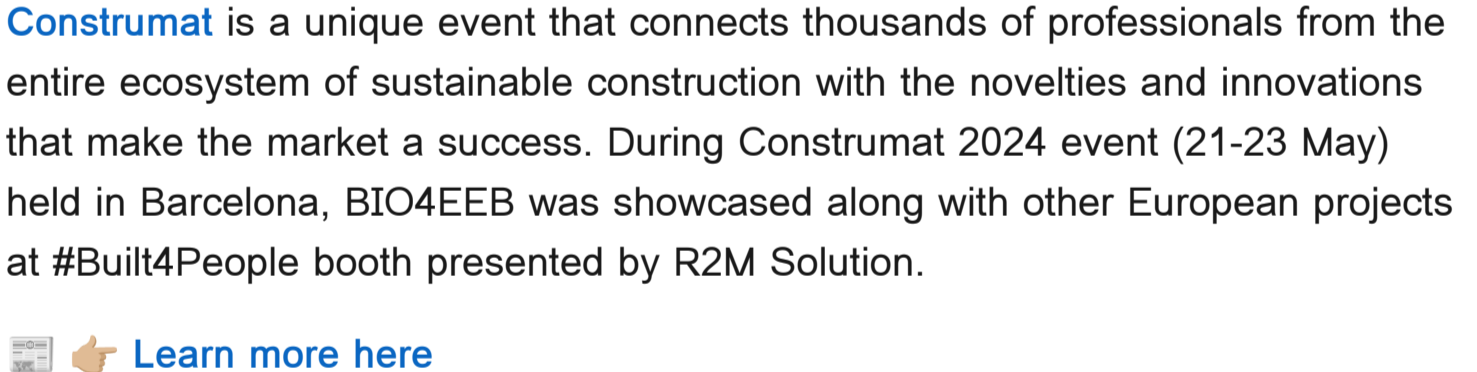
BIO4EEB station at the Long Night of Research in Austria



The [Long Night of Research](#) took place on May 24 at around 270 exhibition locations across Austria. With over 2,800 stations, guided tours, workshops, lectures, live presentations and experiments to participate in, the Long Night of Research offered interesting materials for science professionals and those who want to become one. Our partner CEU, with the support of INDRESMAT, SOPHIA & STARCELL set up a BIO4EEB station at the event, where Austrian visitors joined us.

[Learn more here](#)

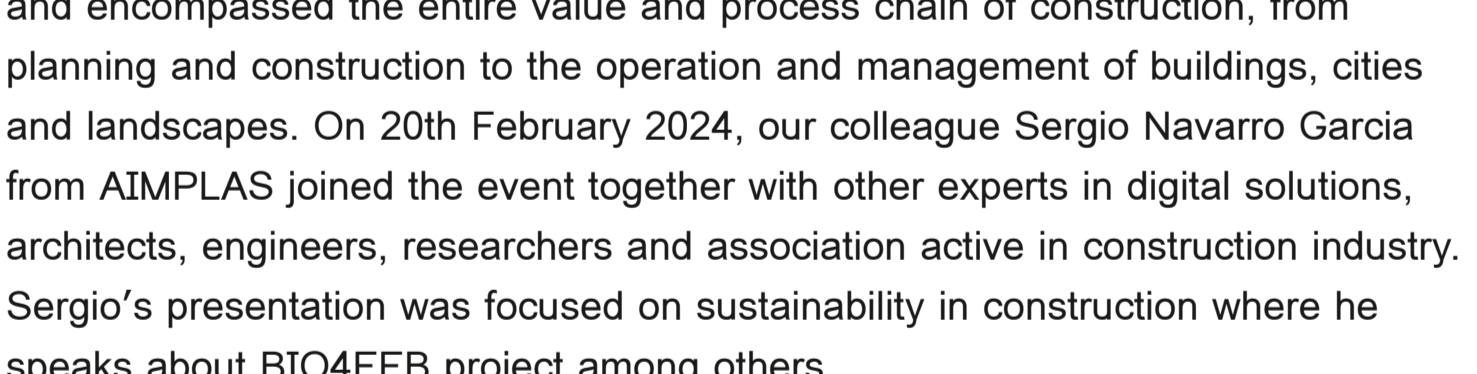
BIO4EEB present at Construmat



[Construmat](#) is a unique event that connects thousands of professionals from the entire ecosystem of sustainable construction with the novelties and innovations that make the market a success. During Construmat 2024 event (21-23 May) held in Barcelona, BIO4EEB was presented along with other European projects at [#Built4People](#) booth presented by R2M Solution.

[Learn more here](#)

BIO4EEB presentation at the digitalBAU 2024 Fair



[DigitalBAU](#) 2024 addressed the digital transformation in the construction industry and encompassed the entire value and process chain of construction, from planning and construction to the operation and management of buildings, cities and landscapes. On 20th February 2024, our colleague Sergio Navarro Garcia from AIMPLAS joined the event together with other experts in digital solutions, architects, engineers, researchers and association active in construction industry. Sergio's presentation was focused on sustainability in construction where he speaks about BIO4EEB project among others.

[Learn more here](#)

ABUD

[ABUD - Advanced Building & Urban Design](#) is a sustainability consultancy firm powered by engineers, architects and researchers specialised in sustainable building and urban design. Founded more than a decade ago, the internationally renowned firm has been providing a wide range of state-of-the-art architectural, engineering, consultancy and RDI services for building and urban energy solutions. The company's services range from building- to urban scale solutions – from the conceptual design of the built environment to its ideal use, considering the entire life cycle of the project. Leveraging environmental, social and data sciences as well as international best practice, ABUD delivers cutting-edge solutions in sustainable design, renovation and the operation of buildings, neighbourhoods, and cities. ABUD's RDI activities cover an extensive array of topics, including deep renovation, positive energy districts, nature-based solutions, user behaviour, environmental management and governance, and the digitalization of the built environment. Working collaboratively, they co-design solutions with world-class academic partners to create more efficient, resilient and liveable spaces.

In [BIO4EEB](#), ABUD will lead the socio-economic assessment of the end users (building owners, investors), including their early analysis, characterisation, and segmentation according to a number of key economic and sociocultural variables. ABUD will also lead the demonstration in virtual demo cases using energy and comfort simulation models. The company will further assist the development of the decision support platform and the evaluation of building materials according to circular economic criteria.

CAMACOL

[CAMACOL SANTANDER](#) is a non-profit national trade association that brings together companies and individuals related to the construction value chain nationwide. Camacol was created in Medellín on September 14, 1957 as an initiative of a group of Colombian industrialists and businessmen gathered at the first national convention of builders. The foundation for creating Camacol was the need to establish an entity that would watch over the interests of the construction industry and that would be made up of builders, representatives of industry and commerce.

In [BIO4EEB](#), CAMACOL will lead the assessment and study on the transfer and applicability of BIO4EEB outcomes in the Colombian and Latin American Construction Markets.