



New European Bauhaus Facility - Matchmaking event 2025

KU LEUVEN

NEB-2025-01-REGEN-02: Bio-fabricated materials for sustainable and beautiful construction

REGEN 02: Beautiful Mycelium Based Construction

- **Prof. Dr. Jan Wurm**
- **KU Leuven, Department of Architecture (NEB Partner) / Arup (NEB Friend)**
- Academic institution: From Research to Practice
- **Belgium**
- **jan.wurm@kuleuven.be**
- <https://architectuur.kuleuven.be/departementarchitectuur/english>





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BioDigital ConstructionLab

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Full integrated approach from **design** to **fabrication**, **characterization** and **prototyping** for mycelium based composites

- **Design**: Composition and Design of Substrates, Mycelium Componnets and Building Systels
- **Fabrication**: Mycelium Lab for Digital enabled Biofabricatio
- **Characterization**: Strong competence in BioComposites (Prof Van Vuure at Materials Engineering: mechanical, durability, acoustics)
- **Prototyping** of building systems and applications



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Beautiful Mycelium Construction

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Key Consortium partners



Prof. Eveline Peeters, BEL
Department of Bio-
engineering Sciences /
Microbiology



Prof. Phil Ayres, DK
Professor of Biohybrid
Architecture



Prof. Philipp Eversmann, GER
Experimental and Digital
Design and Construction
(EDEK)



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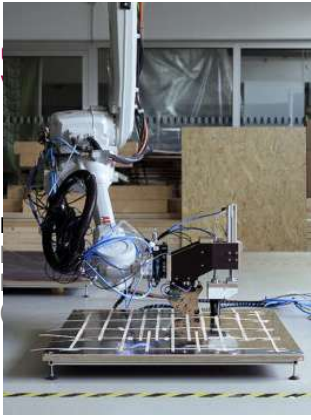
Key Consortium partners



VUB



RDA



UKA



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WANTED



- Co-Design / Participation Process from **SSH**
- Citizen and Civil Society User Groups – Housing / Neighbourhoods
- Training experts / institutions for training construction stakeholders

- Expert Health & Wellbeing Assessment
- Experts for Functionalization of Mycelium Materials

- Industry Partners across Wood Value chain
- Interested Construction Stakeholder groups
- Companies investigating / investing in up-scaling material production