

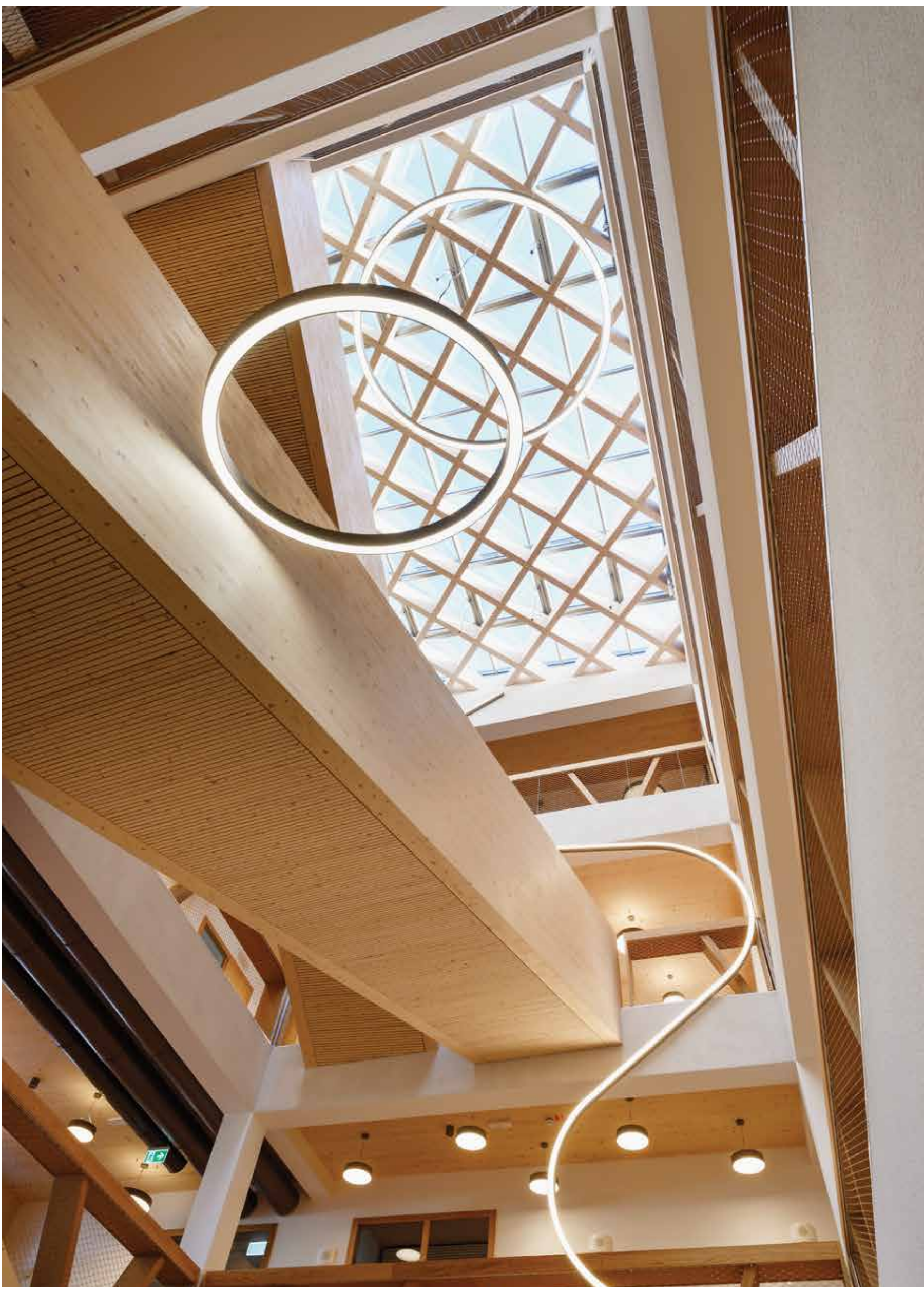
# InnoRenew CoE

## Renewable Materials and Healthy Environments Research and Innovation Centre of Excellence

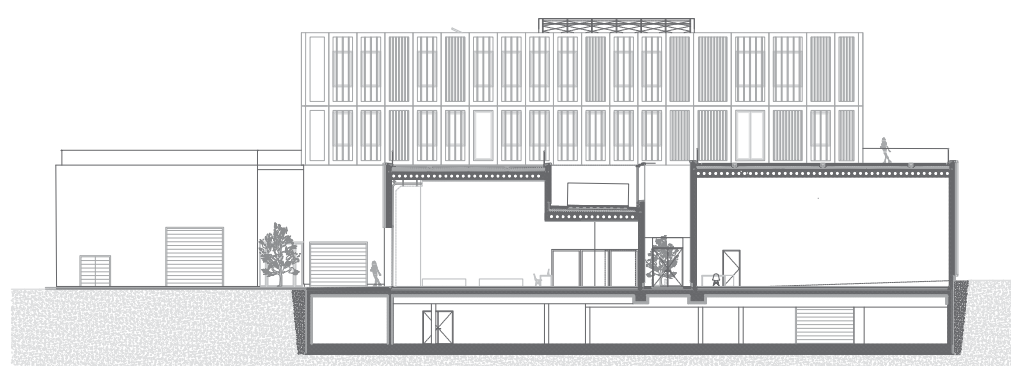
Location: **Izola, Livade 6a**  
Year of realization: **2022**  
Authors of architecture: **Eva Prelovšek Niemelä, Aarne Niemelä, Zijada Adembegović Hujdurović, Bojan Cebin, Monika Rečnik, Mitja Škrjanec**  
Size of the area/ building: **6000 m<sup>2</sup>/ 8200 m<sup>2</sup>**  
Photo: **Miran Kambič**

The InnoRenew CoE institute's building is the largest wooden building in Slovenia today. There are 1100 m<sup>3</sup> of wood built in it. Building is itself a research project, where extensive monitoring is carried out.

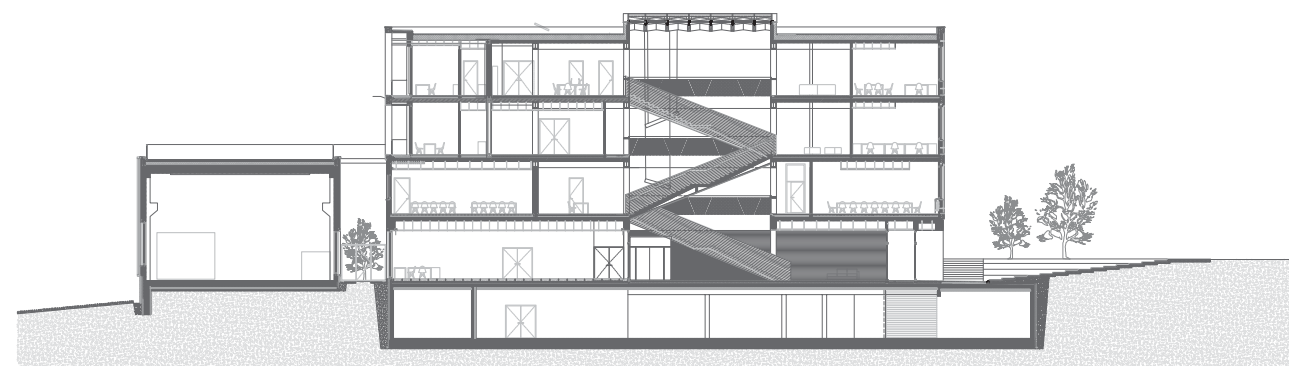
There are nine laboratories in the building where studies of the properties of wood and other renewable materials are performed. It was built according to the principles of REED (restorative environmental and ergonomic design), which is based on the use of natural materials and the creation of ergonomically designed and sustainable construction. Architectural design process was started from the hypothesis that the space can be designed in such a way that physical and psychological regeneration is possible in it. This can be achieved by using wood, natural light, with open spaces that encourage communication and physical activity, with ergonomics, acoustics and air quality. The exterior is made of local materials: Istrian limestone, gray sandstone and wooden elements that remind of traditional shading structures.



Statics: **Iztok Šusteršič, Sašo Vozel**  
HVAC: **Rudi Grahek, Robert Krese**  
REED Design: **Mike Burnard**  
Lab Technology: **Matthew Schwarzkopf, Jakub Sandak, Andreja Kutnar**  
Monitoring design: **Michael Mrissa, Anna Sandak, Jakub Sandak, Mike Burnard, Andreja Kutnar, Iztok Šusteršič, David B. DeVallance, Miklos Kresz**



Section through the acoustic laboratory and wood workshop



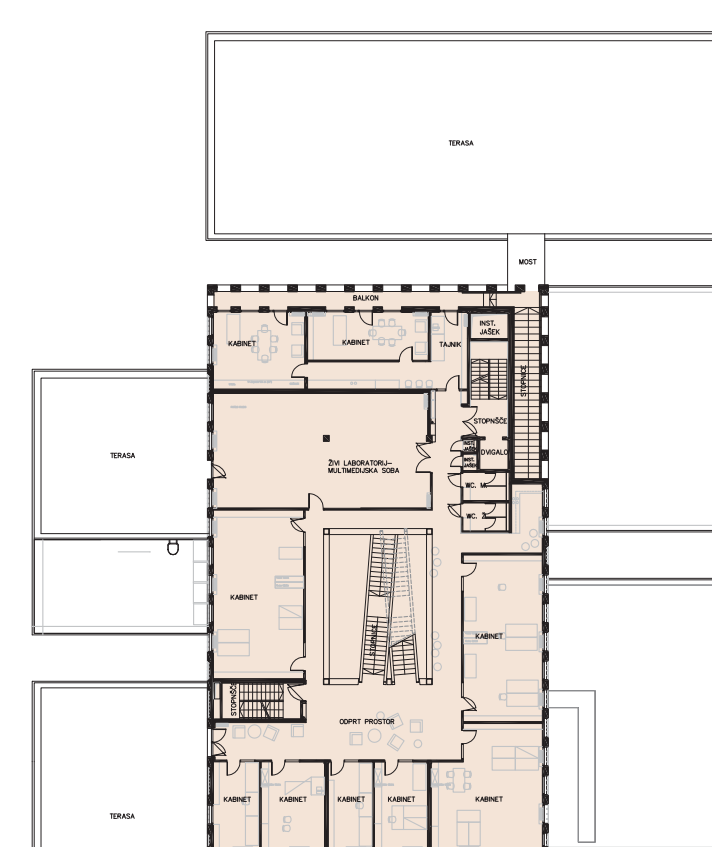
Longitudinal section across the inner atrium and composites laboratory



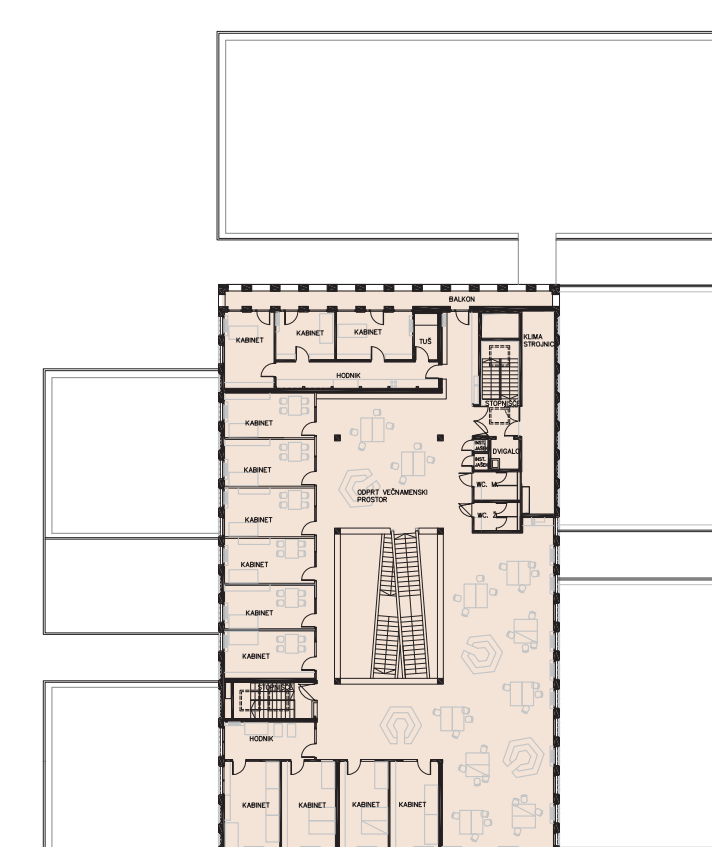
Ground floor: entrance hall and laboratories



1st floor: seminar rooms and networking spaces



2nd floor: offices, living laboratory



3rd floor: open office and offices of research group leaders

