

BE-WoodEN - Buildings and Education in Wood Ecosystem
for the New European Bauhaus

D6.3

NEB Academy Pioneer Hubs exploitation commitment

WP6/Task T6.3



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1. Introduction

Urban and rural areas sit at the centre of today's overlapping social, economic, and ecological crises. Demand for affordable housing is rising sharply—3 billion people worldwide will need adequate homes by 2030, requiring over 300 million new dwellings. Europe faces similar pressure, with annual needs ranging from 15,000 new homes in Denmark to 500,000 in France and 320,000 in Germany. Yet increasing construction also intensifies environmental impacts: buildings account for nearly 40% of EU greenhouse-gas emissions, with another 10–20% coming from materials, construction, and demolition.

To remain competitive and meet climate and social objectives, Europe's construction sector must accelerate its shift toward sustainable, digital, and inclusive practices. EU strategies—such as the European Green Deal, Climate Law, Clean Industrial Deal, and the Renovation Wave—already provide a strong policy foundation, but success depends on rapidly developing the right skills. Modernizing higher education, VET, and lifelong learning systems, and supporting flexible, transdisciplinary training will require coordinated European and international action, backed by long-term investment.

The New European Bauhaus (NEB) and its NEB Academy are central to this transformation. The Academy tackles critical skills gaps in sufficiency, circularity, climate-positive materials, and community-centered construction. Through targeted training and alignment with initiatives such as the Pact for Skills, European Affordable Housing Plan, and the Bioeconomy Strategy, its ambition is to upskill 25% of the construction workforce—around 3 million workers within five years. The Academy will also build on existing EU resources, including Horizon Europe, Erasmus+, and Level(s), to drive a more regenerative and inclusive built environment.

1.1 About the Life BE-WoodEN and NEB SUD Hub

The design concept of the LIFE Be-WoodEN project was inspired by the core principles of the New European Bauhaus (NEB): Sustainability, Beauty, and Inclusion. These principles guide all project activities, from material production and design to installation, facility management, and dismantling.

LIFE Be-WoodEN project aimed to promote climate-friendly construction by increasing the use of wood and bio-based materials in buildings. At the same time it aimed to address cultural, technical, and economic barriers that currently limit the adoption of wood-based solutions in the built environment. Furthermore, the NEB principles across the entire construction value chain were embedded.

The project focuses on upskilling professionals through innovative training tools, including NEBinars, webinars, podcasts, innovation laboratories, co-design methods, and Challenge-Based Learning activities. It enabled engagement of a broad stakeholder community—professionals, public officers, companies, researchers, experts, and artists—to co-develop solutions for reliable and aesthetic use of wood in buildings and public spaces.

Through activities of the NEB SUD Hub the project trained professionals equipped with competencies aligned with market needs. This led to ambition to strengthen and to

integrate fragmented local wood supply chains. At the same time, activities demonstrated the environmental benefits of using wood and bio-based materials in construction.

The main outcomes of the project are establishment of the NEB SUD Hub and its Innovative Learning Programme - a comprehensive training offer, which is including NEBinars, webinars, and podcasts—designed to raise awareness and improve professional skills related to timber construction and bio-based solutions. Additionally two pilot initiatives were implemented in Liguria and Emilia-Romagna (Italy) using participatory and transdisciplinary approaches. Activities include co-design of solutions and actions to strengthen regional wood supply chains.

In the frame of the LIFE BE-WoodEN project, University of Genoa, University of Florence, and ART-ER Società Consortile per Azioni constitute a New European Bauhaus Academy (NEB) Pioneer Hub focused on the development of wood and bio-based as construction materials called NEB SUD Hub - NEB SUsustainable Design with wood & Bio-based materials Hub. The signing of the Pioneer NEB SUD HUB Charter supports the implementation of NEB compass along the whole project, sharing synergies and integrated approaches with NEBAP Hub The New European Bauhaus Academy Pioneer Hub for Sustainable Built Environments with Renewable Materials, founded by University of Primorska.

1.2 About NEB Academy and NEB Academy Alliance

The NEB Academy's long-term mission is to train, upskill, and reskill the construction ecosystem to achieve a carbon neutral building sector and a beautiful, sustainable, and inclusive transformation of the built environment.

In this early stage of development, the NEB Academy vision has been defined on a short to midterm time horizon as follows:

- Vision of NEB Academy in 2 years by 2026: With support of the NEBA Alliance project, the NEB Academy has established a recognized pan-European training ecosystem of NEBA Hubs and pilot training activities.
- Vision of NEB Academy in 5 years by 2030: The NEB Academy is established as an institutionalized network. It offers micro-credentials and other training formats that are transferable across Europe in certain professions within the construction ecosystem to maintain the current knowledge and to upskill workers while shaping the skills policies of the European Union.
- Vision of NEB Academy in 10 years by 2035: The NEB Academy has evolved into a self-sustainable network that is acknowledged internationally and shapes the policies of the European Union and beyond by offering high quality trainings on a broad scale.

To translate this long-term vision into an operational and legally sound structure, the NEB Academy requires a hosting arrangement that ensures institutional continuity while preserving its distributed and collaborative nature.

The NEB Academy is to be formed legally at the University of Primorska (UP) under operation of the NEBAP Hub with the following bodies (Figures 1 & 2):

- Managing Body

- Council Board
- Steering Committee
- Advisory Board
- Initial NEB Academy Hubs established within the NEBA Alliance
- Other NEB Academy Hubs established without the NEBA Alliance

The NEB Academy is establishing a large network of NEB Academy Hubs under the NEBAP Hub through their affiliated membership obtained with a signed Founding Association Agreement to the University of Primorska.

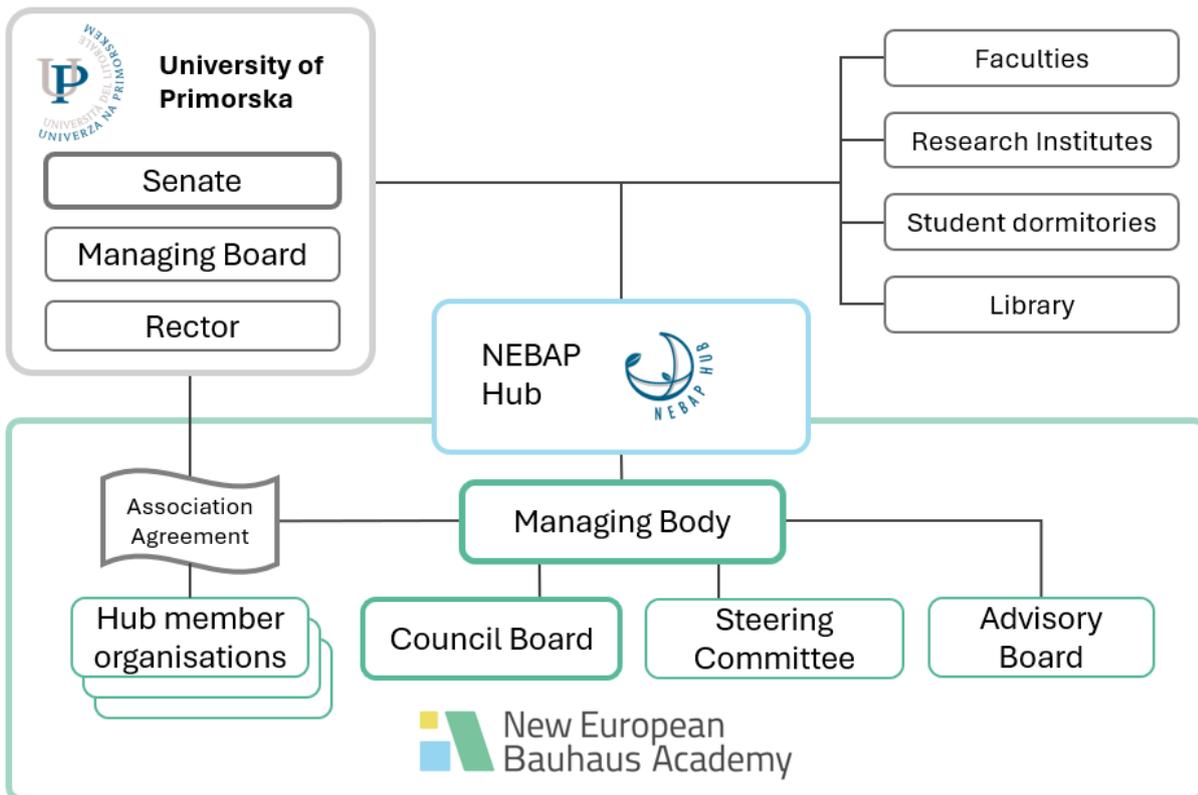


Figure 1: NEB Academy within the organisational structure of University of Primorska

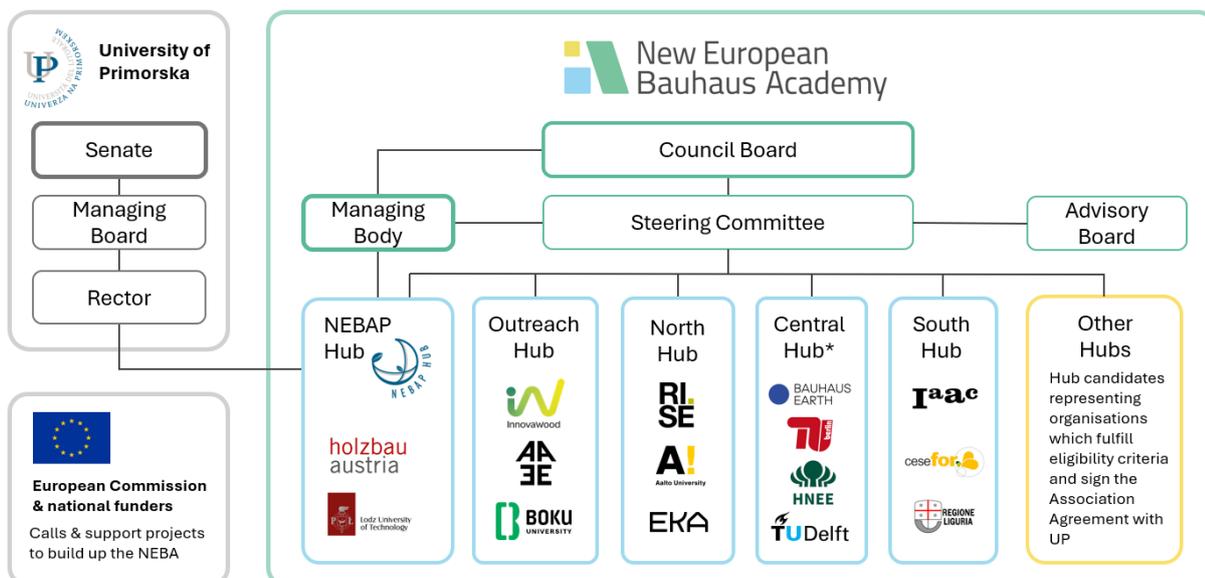


Figure 2: Organisational structure of the NEB Academy

In its initial phase, the NEBA Alliance consortium (GA # 101160532) has deepened its understanding of where upskilling is most needed across the construction ecosystem. Through surveys, interviews, workshops with key actors in the existing training and skilling landscape and collaboration with hubs in over ten countries, it identified important skill gaps spanning the entire value chain - from designers and builders to policymakers, funders/investors, and insurers. Europe's construction sector, comprising 3.4 million mostly micro-enterprises, requires flexible, multilingual, and practice-based training to keep pace with evolving technologies, materials and standards. How to translate new findings from research and innovation effectively into training packages for workers in industry is an important challenge the academy will address.

Training must vary by region due to differences in licensing, procurement practices, and aesthetic and material cultures. Public buyers and financial actors need targeted training in areas like LCA/LCC, material passports, and green tendering. Existing offerings by public and private training institutions do not yet address the evolving needs sufficiently.

NEBA aims to train a wide range of professionals – from construction workers and engineers to urban planners and educators – through co-designed, stackable micro-credentials. Over the past 18 months, NEBA has launched a range of courses and workshops on bio-based materials, sustainable design, cultural heritage, and digitalisation. The NEBA open Call for Cascade Funding has been very successful. Out of 59 submitted proposals, 17 grants were awarded to a total of 25 organisations in 15 countries to support the development training courses and onboarding the NEBA Hubs. The NEBA team is developing quality assurance systems for its open platform, which will share open educational resources, ensuring recognition and portability and designed to catalyse and scale innovation within the existing landscape of academies and training institutions across Europe.

Furthermore, the NEB Academy has been vocal and visible on the policy level. Through the Wood4Bauhaus Alliance and the European Wood Policy Platform 'WoodPoP', the

NEB Academy was showcased in various high profile policy events and conferences, it is represented in WoodPoP's Technical Working Group on education, and it has delivered skills-relevant policy recommendations for the New European Bauhaus. The NEBA Outreach Hub has been actively initiating links with other key stakeholders and networks, such as the Architects' Council of Europe (ACE) and the European Bioeconomy University (EBU), and has started to reach out to potential international partners, for example in Ukraine, Japan, Brazil, and Canada, paving the way for new collaborations.

The EIT CC KIC has been identified by the JRC NEB unit as a strong new partner in the strategic design and lasting implementation of the NEB Academy. Following this indication NEBA Alliance has commenced a dialogue with the EIT CC KIC.

The NEBA Alliance project has successfully laid the groundwork for the NEB Academy through several foundational achievements:

- A robust governance structure has been established to ensure strategic direction and operational coherence.
- Pilot training programs have been launched, validating the relevance and effectiveness of the Academy's educational approach.
- The initial version of NEBA platform has been developed, providing a digital infrastructure for learning and collaboration.
- More institutions beyond the founding members engaging with the NEBA Alliance and initiating partnerships and collaboration to test and demonstrate the scalability and inclusiveness of the NEB Academy network.

These accomplishments have created a solid foundation for the NEB Academy's formal establishment. The collaborative potential of the NEBA Hubs has been clearly demonstrated, showing how a distributed network can work in unison toward shared goals. Building on this momentum, the following strategic next steps have been identified:

1. Establish a Strong NEB Academy Brand

Cultivate a recognizable and trusted brand by partnering with leading institutions and networks across Europe. This will ensure broad recognition of NEB Academy training programs and reinforce their value within the construction ecosystem.

2. Transform the NEBA Platform into a Premier Training Portfolio

Evolve the existing platform into a dynamic marketplace for high-quality, accredited training modules. This will position the NEB Academy as a central knowledge provider for lifelong learning, professional development, and innovation in sustainable construction, setting quality benchmarks and developing training materials for the European training ecosystem.

To realize the full potential of the NEB Academy and ensure the successful execution of the next strategic steps, it is essential to formally establish and operationalize its core structure. The following key actions must be financed over the next five years:

1. Strengthen Operational Capacity of NEBA Hubs

Allocate dedicated resources for personnel, specifically, at least one full-time equivalent (FTE) for the NEBA Managing Body and per each Hub. Their work focus is on brand development, Hub coordination, training design and delivery,

and strategic network expansion in both European and international partnerships.

2. Develop and Implement Rigorous Quality Assurance Frameworks

Establish and convene a Board of Reviewers to oversee the quality of training programs, adopting the NEB Academy Framework and additional acknowledged evaluation mechanisms. This will guarantee that all training offers meet high standards and are aligned with the NEB Academy's mission.

3. Enhance the NEBA Online Platform as a Central Course Portfolio

Elaborate the NEB Academy platform structure and its functions:

- a. Raise awareness about sustainable construction practices and the need for training and skilling across EU member states
- b. Facilitate access to a growing repository of recognized training materials for diverse stakeholders including dissemination and exploitation materials from NEB Horizon Europe research projects
- c. Offer certified learning pathways for obtaining microcredentials which assure the participant has acquired a specific expertise
- d. Facilitate exchange, knowledge sharing and networking amongst European institutions involved in training and skilling and related stakeholders of the construction ecosystem

4. Develop a Sustainable Business Model for Long-Term Viability

Build a resilient financial foundation by a diverse portfolio of revenue streams:

- a. Establish a core team dedicated to acquisition of funding
- b. Pursue national and European funding opportunities for development of trainings, up-/re-skilling pilots, and trainers' and trainees' mobility
- c. Design a donor engagement model to attract philanthropic support
- d. Create revenue streams from professional training services to ensure the NEB Academy's self-sufficient financial model

2. Exploitation of results and impact

The Life BEWood-EN project resulted in the following Key Exploitable Results (KERs):

- KER 1 – Comprehensive NEB-aligned Training Portfolio

A full suite of training materials has been developed, totaling ~47 hours of lectures and 4+ hours of podcasts.

The package includes:

- o 8 NEBinars on NEB and placemaking
- o 8 webinars on green and circular buildings
- o 8 webinars on wood and wood-based products in construction
- o 16 podcasts (8 Italian, 8 English) with leading European experts

Exploitable value: This portfolio can be integrated into professional development curricula, reused by training centers, and transferred to other regions as an open educational resource aligned with NEB Compass principles. The webinars are available on the NEB Academy platform (<https://neb.academy>) and DIGINEB platform (<https://digineb.eu>).

- KER 2 – High-Reach Digital Learning Platform for Wood Construction

The Italian learning platform recorded 1,383 unique participants across NEBinars and webinars, with:

- NEBinars of Task 1:
 - Total NEBinars followed and completed: 1071
 - Individual Users: 534
 - Among the users, 16 are public employees
- Webinars of Task 2 and Task 3:
 - Total webinars followed and completed: 2973
 - Individual Users: 849
 - Among the users, 49 are public employees
- 653 completed podcast views (533 ITA, 120 ENG)
- Participation rates show continuous daily growth, with new users enrolling daily.

Exploitable value: The digital platform demonstrates strong demand for wood-construction training and can be used beyond the project duration to support continuing education for professionals, companies, and public officers.

- **KER 3 – NEB-Integrated Winter School and Study Visit Model**

A complete Winter School programme and international study visit on wood for sustainable buildings has been delivered (D3.3–D3.4). These activities combine theoretical content, hands-on experience, and exposure to innovative wood construction solutions.

Exploitable value: The Winter School model can be replicated by universities, professional chambers, and training hubs. Materials and the methodology can be scaled for annual NEB-aligned professional schools across Europe.

- **KER 4 – Structured Certification Pathway for Professional Skills**

WP3 developed a certification mechanism allowing participants to: Obtain training credits or be selected for Innovation Labs.

Exploitable value: The certification pathway provides a foundation for long-term qualification schemes in sustainable and circular construction, supporting market-relevant skills development.

- **KER 5 – Podcast Series Featuring High-Level European Experts**

Instead of the expected 5 podcasts, the project produced 16 interviews featuring CEOs, presidents of national wood organisations, structural engineers, policymakers, and international researchers.

Exploitable value: This podcast series forms a unique knowledge asset capturing insights from leading voices in the wood sector. It can be used for dissemination, education, and as a long-term outreach tool.

- **KER 6 – Evidence of Market Demand and Transfer Potential**

Data show strong and growing user engagement (daily completions, continuous new users), indicating long-standing demand for accessible wood-construction training resources. Participation is expected to continue beyond the project end due to recent promotion efforts.

Exploitable value: This demonstrates the scalability of the training ecosystem and its ability to function as a long-term service for stakeholders, strengthening the justification for future NEB Academy hubs and expansion.

2.1 Communication activities

Building on the strong foundation established through the project website, social media channels, newsletters, podcasts, and partner dissemination networks, future communication activities will focus on maximizing the visibility and long-term uptake of LIFE Be-WoodEN results. Efforts will prioritize the continuous promotion of the training portfolio, the NEBinars/webinars, and the podcast series through targeted campaigns on LinkedIn and YouTube, supported by regular newsletters and coordinated partner reposting. Additional actions will strengthen networking with ongoing LIFE, Interreg and NEB initiatives to amplify cross-project visibility and ensure mutual promotion. In the final project phase, communication will highlight the outcomes of the regional events and the Brussels Final Conference, translating these into accessible stories, social cards, and short video clips. After project closure, communication will shift toward sustaining engagement with the professional community by keeping key materials accessible, promoting the creation of NEB-aligned training hubs, and encouraging partners to integrate project outputs into their own communication ecosystems

2.2 NEB SUD Hub's Sustainability

The NEB SUD Hub has been working on long term financial sustainability of the NEB SUD Hub and identified several paths:

1. Partnering with NEB Academy – becoming Associated Member of the NEBA South hub.

With this partnership it is aimed that NEB SUD Hub becomes active player.

2. Exploitation of Existing EU-Funded Projects

The EC could request that all relevant EU-funded projects, particularly those aligned with sustainability, digital transformation, and skills development, allocate a portion of their budgets (at least 1%) to collaborate with the NEB Academy and NEB SUD Hub. This would enable to transform project outcomes into high-quality, transferable training modules hosted and delivered through the NEB Academy platform.

3. Horizon Europe and Erasmus+ Synergies

Dedicated calls for the NEB Academy and requirements for complementary project activities to align Horizon Europe and Erasmus+ projects with the NEB Academy to co-finance training development, mobility programs, and innovation in education.

4. European Structural and Investment Funds (ESIF)

Tap into regional development funds to support training infrastructure, digital platforms, and capacity building at local NEBA Hubs, including NEB SUD Hub.

5. Public-Private Partnerships (PPPs)

Engage industry stakeholders, especially within the construction ecosystem, to co-invest in training programs that directly benefit their workforce and business models.

6. National and Regional Government Grants

Secure funding from Member States to support the localization of training content, translation efforts, and outreach to SMEs and microenterprises.

7. Philanthropic and Impact Investment Funds

Attract donations and mission-aligned investments from foundations and ESG-focused investors committed to climate action, education, and social inclusion.

8. European Digital Infrastructure Consortium (EDIC)

Explore the establishment of an EDIC to formalize multi-country collaboration, enable legal personality, and unlock blended funding mechanisms.

9. Revenue streams from professional training services

Explore income possibilities to the overall framework from financial contributions of NEBA-labelled training courses being operated in the Hubs (tuition fees, memberships, subscriptions, etc.).

3. NEB SUD Hub and NEB Academy

The NEB SUD Hub will be fully integrated into the emerging NEB Academy ecosystem as a regional training node contributing to the Academy's mission of upskilling Europe's construction sector towards a sustainable, circular and bio-based future. As outlined by the NEB Academy framework, regional and topical hubs act as matchmakers between learners and trainers, providing certified learning materials and supporting the transition to regenerative construction practices. In line with this model, the NEB SUD Hub will collaborate closely with existing Pioneer Hubs - NEBAP Hub at the University of Primorska and South NEB Academy Hub (NEB SUD Hub is in the process to become affiliated member of the South NEB Hub) to jointly develop business plans, share training content, and align curricula with NEB Academy focus areas including bio-based materials, circular design, and digital construction skills. Through this integration, the Hub will contribute to the NEB Academy's broader network by offering regionally relevant programmes, connecting local stakeholders with European learning pathways, and supporting the NEB Academy's goal of creating an accessible, high-quality training marketplace for the built environment.

The pilot actions of Life BE-WoodEN, a local sustainable wood supply chain in Emilia-Romagna and co-design process in Liguria are to be transferred to other regions and significantly enhance the exploitation of the Life BE-WoodEN project.

The Emilia-Romagna pilot action is a feasibility study on a local and sustainable wood supply chain with a focus on the construction sector and social housing. The action has put the basis for future policies by the Regional Government and

initiatives by the business. The study highlighted the obstacles and opportunities, defining the context and possible measures to overcome the barriers and exploit the opportunities. This activity is a starting point for future actions. In particular, ART-ER will support the Emilia-Romagna Regional Authority to deal with several issues:

- Fill knowledge gaps about different phases of the supply chain
- Promote the forestry planning
- Promote the forestry certification
- Promote the valorization of the increase of ecosystem services due to sustainable forest management and to the use of certified wooden materials in the building sector
- Support the use of Green Public Procurement to promote the use of wooden materials in the building sector
- Support the dialogue with companies of the supply chain
- Support the awareness raising on the topic of citizens, public officers, professionals and enterprises

The pilot action has a high transferability potential in terms of approach and stakeholders involvement, because defines a methodological path that can be applied in other regions that have the same objective.

In particular, the pilot action tested:

- A sequence of analysis useful to assess the supply chain conditions (forest resources and productive potential, features to consider to select forest varieties suitable for use in construction, supply chain consistency, building stock of the social housing)
- A methodology for the assessment of environmental performances of wooden buildings in social housing
- A path to develop a green business model able to increase the competitiveness of the supply chain based on environmental performances
- A mapping of key stakeholders (public bodies, building companies, forestry companies, professionals, social housing agencies, citizens) and engagement means (focus groups, workshops, interviews, surveys).

The Ligurian pilot action was focused on the regeneration and requalification of outdoor and indoor spaces of a social building located in Imperia city. The implementation activities have been carried out by the winning project of the Challenge Based Learning (CBL) path, an innovative approach that includes team building, drafting project proposals and discussion with Innovation Lab participants. The Technical CBL Commission, that has used NEB Compass as tool for the project proposal evaluation, has selected the winning project that has realized the action pilot.

The activities have been carried out through the self-construction workshop, that involved multiple subjects with different expertise and skills, ensuring not only collaboration and sharing of knowledge and skills, but also interaction between different generations and local actors (volunteers, students, local associations, neighbourhood residents, etc.), strengthening social links and promoting autonomous and participatory governance.

Through this methodology the winning group and other engaged actors (55), adopted and applied NEB values, working principles, and NEB Compass. The underutilized spaces, thanks to the regeneration process, are more usable and beautiful since they reflect the use of wood as a harmonious visual and tactile element and the choice of colours suitable even for the visually impaired. The use of wooden elements and of bio-based materials have guaranteed sustainability during the whole process and its sustainability in the long period, considering the strengthening of a new sense of belonging and of active maintenance in the long period by communities. The involvement of different local stakeholders, coming from several sectors (architecture, design, social, education) and several levels (local, regional, European), can witness the importance of social inclusion, multilevel engagement and transdisciplinary approach.

The NEB and CBL approaches to multidisciplinary and co-design with communities can also be applied in different territorial contexts:

1. in peri-urban areas, such as those with a tourist vocation and valuable natural areas where ecosystem services can be developed;
2. urban and coastal areas;
3. inland and rural areas, local contexts of cultural and historical value

3.1 NEB Academy platform

To make the trainings widely accessible, the NEBA Alliance is setting up an online space as a Single-Entry-Point to the educational contents and training offers of the Community of Practice. The platform will collect the results of the NEBA ecosystem mapping exercise, to display the competences and complementarities of the NEBA Hub members in the form of interactive canvases/dashboards and searchable databases. It comprises a collective directory/catalogue to training providers and offers, such as programmes courses, open materials, certificates, and a calendar of training events. It also includes an open gallery showcasing best practices in lifelong learning and NEB. The online space facilitates easy exchange of scientific expertise between academia, research centres, and companies such as innovative SMEs active in sustainable construction, notably from the bio-based industry sector. The contents will be carefully curated so that all essential target groups, countries, topics and formats are well covered, including both formal and non-formal education in VET and higher education. The user interface allows for multilingual searches for materials available in national languages.

The NEBA Alliance online platform is build on the digiNEB.eu project (Digital Europe Programme grant no. 101083743, 2022-2024, coordinated by TU Delft), which is currently establishing an open digital platform for the NEB community. The project develops a digital toolkit, an observatory and a set of eLearning courses, and leads various stakeholder actions, such as codesign workshops, webinars, and events to engage NEB lighthouses, NEB partners, and many supporters.

The trainings of Life BE-WoodEN project are already integrated to the NEB Academy platform, which is enabling broader visibility and sustainability beyond the duration of Life BE-WoodEN project.

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