

All hands on deck for the rise of wood construction in Europe

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Interactive webinar on wood in Ukraine's green recovery and development
«European initiatives for green building with wood:
experience and lessons for Ukraine»

Online – 14 November 2024

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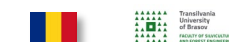


InnovaWood

The European Network
for **Wood** Research,
Innovation and Education



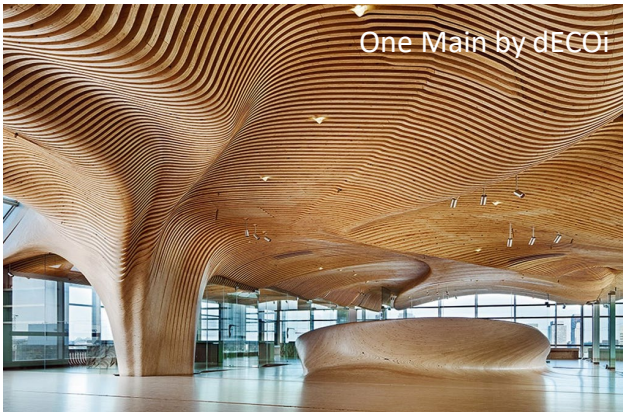
Membership map 2024



Sara Kulturhuset
by Whitearkitekter.com



One Main by dECOi



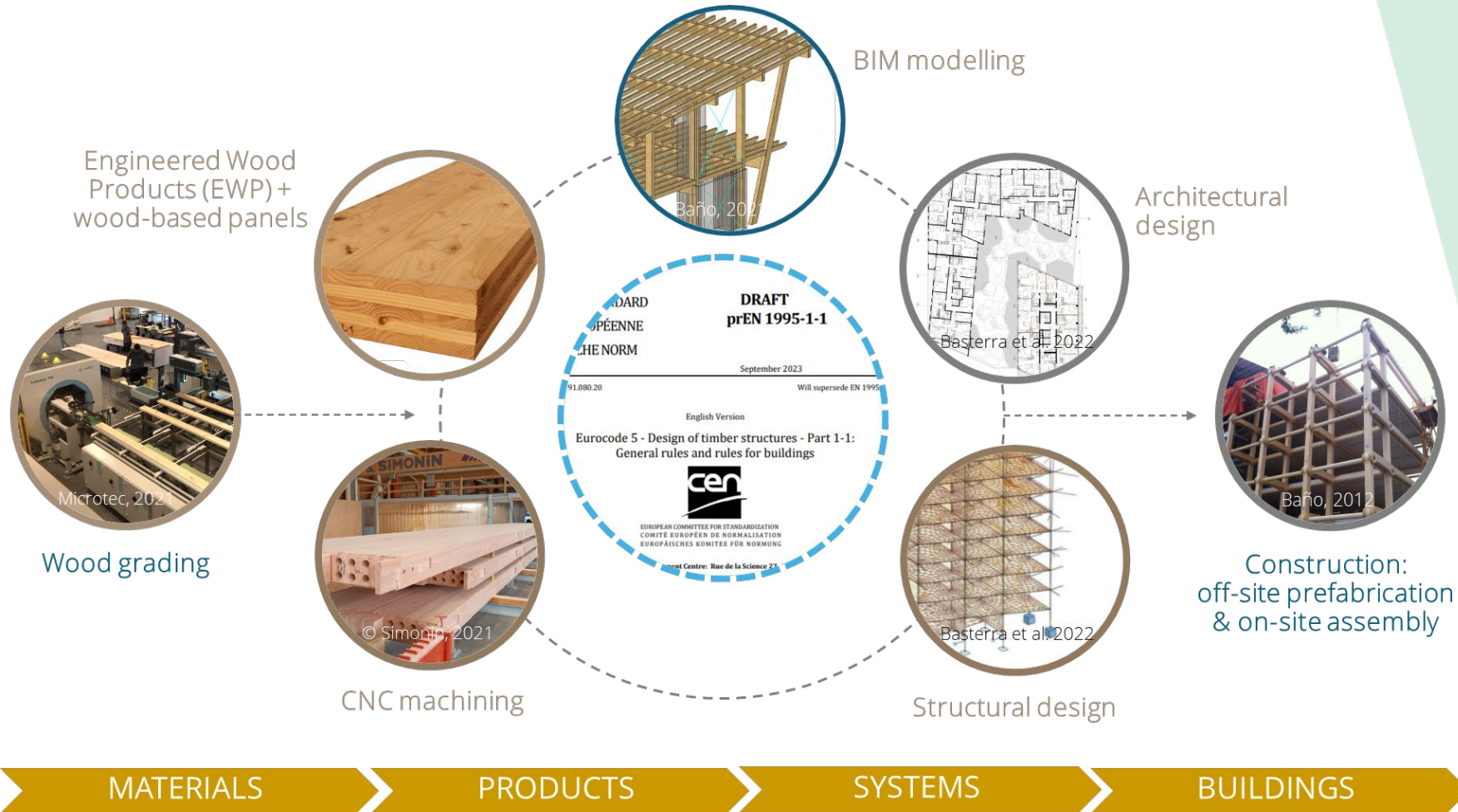
Blumer Lehmann



WHAT?



WHAT?



WHAT?

Trending now

- Circular design for deconstruction and reuse
- Resawmills (from old/used to new construction elements)
- Large scale industrial production
- Parametric design
- New innovative materials (biobased, carbon negative)
- Lighthouse demonstrators
- Wood construction across all continents
- New European Bauhaus
- ...

WHAT?

Key factors for the rise of wood construction during the last 30 years



All hands on deck for the rise of wood construction in Europe

Picture: [Allan Villiers](#)

HOW?

Key factors for the rise of wood construction during the last 30 years

- Major competitiveness shifts across Europe following the cold war era and the rise of new global players e.g. China
- Pioneering work and joint efforts of business, research and education
- International dialogue and exchange
- Focus on quality and solving technical issues
- Major innovations in Engineered Wood Products EWP, e.g. Cross Laminated Timber CLT
- Industrialised off-site production
- Digitalisation, e.g. CAD, CNC, BIM, DT
- New European Bauhaus
- Sustainable Forest Management SFM
- Money ;)



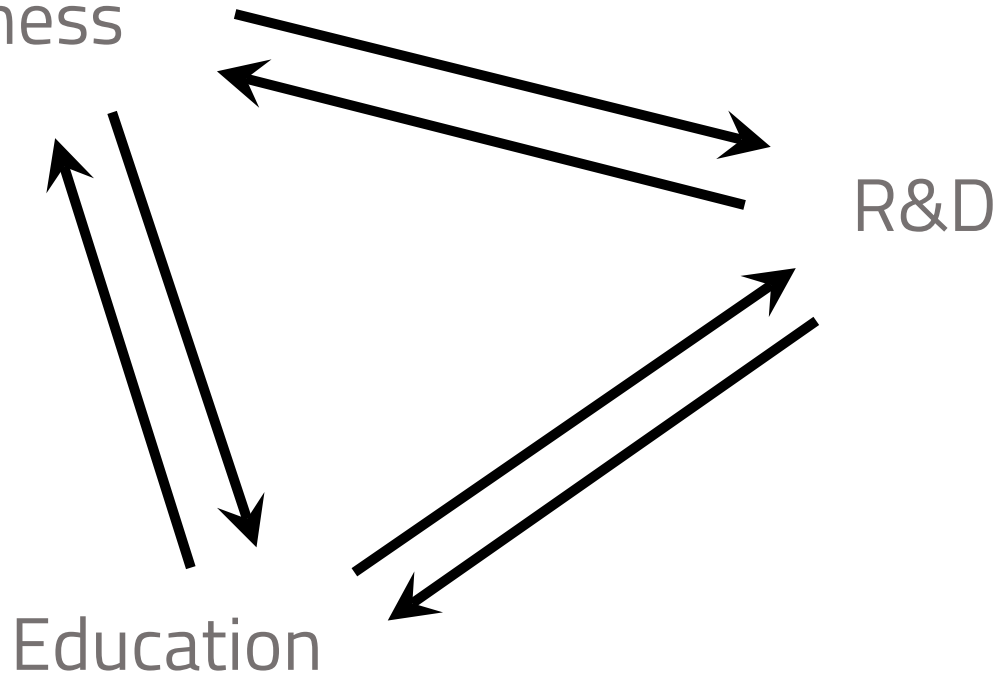
All hands on deck for the rise of wood construction in Europe

Picture: [Allan Villiers](#)

Key factors during the last 30 years

- Pioneering work and joint efforts of business, research and education
- International dialogue and exchange

Business



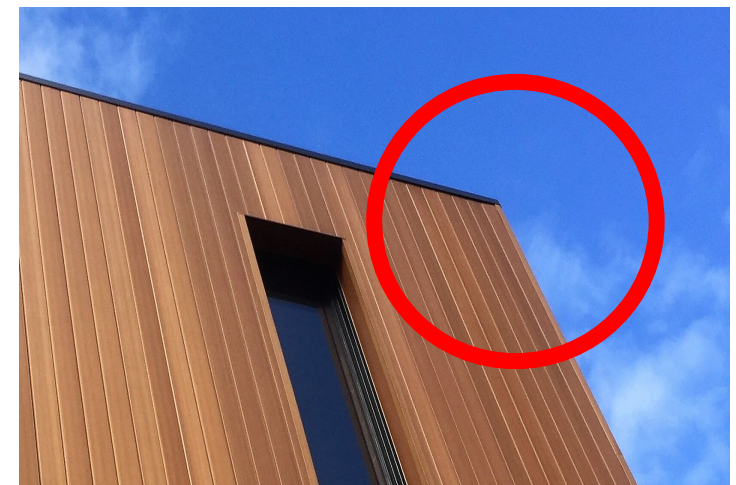
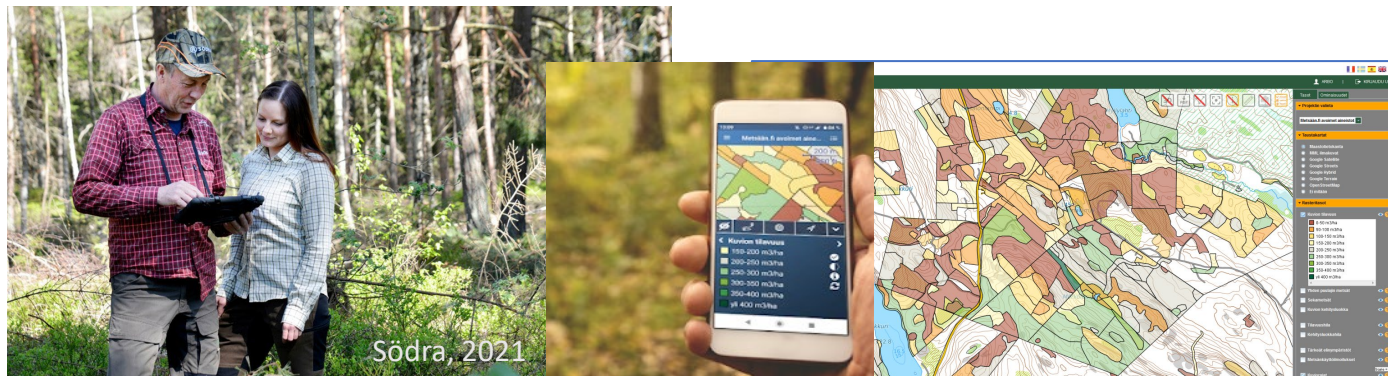
FORUM
HOLZBAU
INTERNATIONAL



Key factors during the last 30 years

Focus on quality and solving technical issues

- Water and humidity (condensation, roof, moist rooms)
- Fire
- Thermal insulation
- Sound insulation
- ...
- Sustainable Forest Management SFM



New European Bauhaus

A call for bio-materials and nature-based solutions



*"We know that the construction sector can even be turned from a carbon source into a sink, if **organic building materials** like wood and smart technologies like AI are applied."*

Ursula von der Leyen

President of the European Commission

State of the Union Address, Brussels, 16 September 2020



*"**Reforesting the planet, retimbering the cities:** timber construction is a true silver bullet for climate change."*

Prof. John Schellnhuber

Director Emeritus of the Potsdam Institute for Climate Impact Research

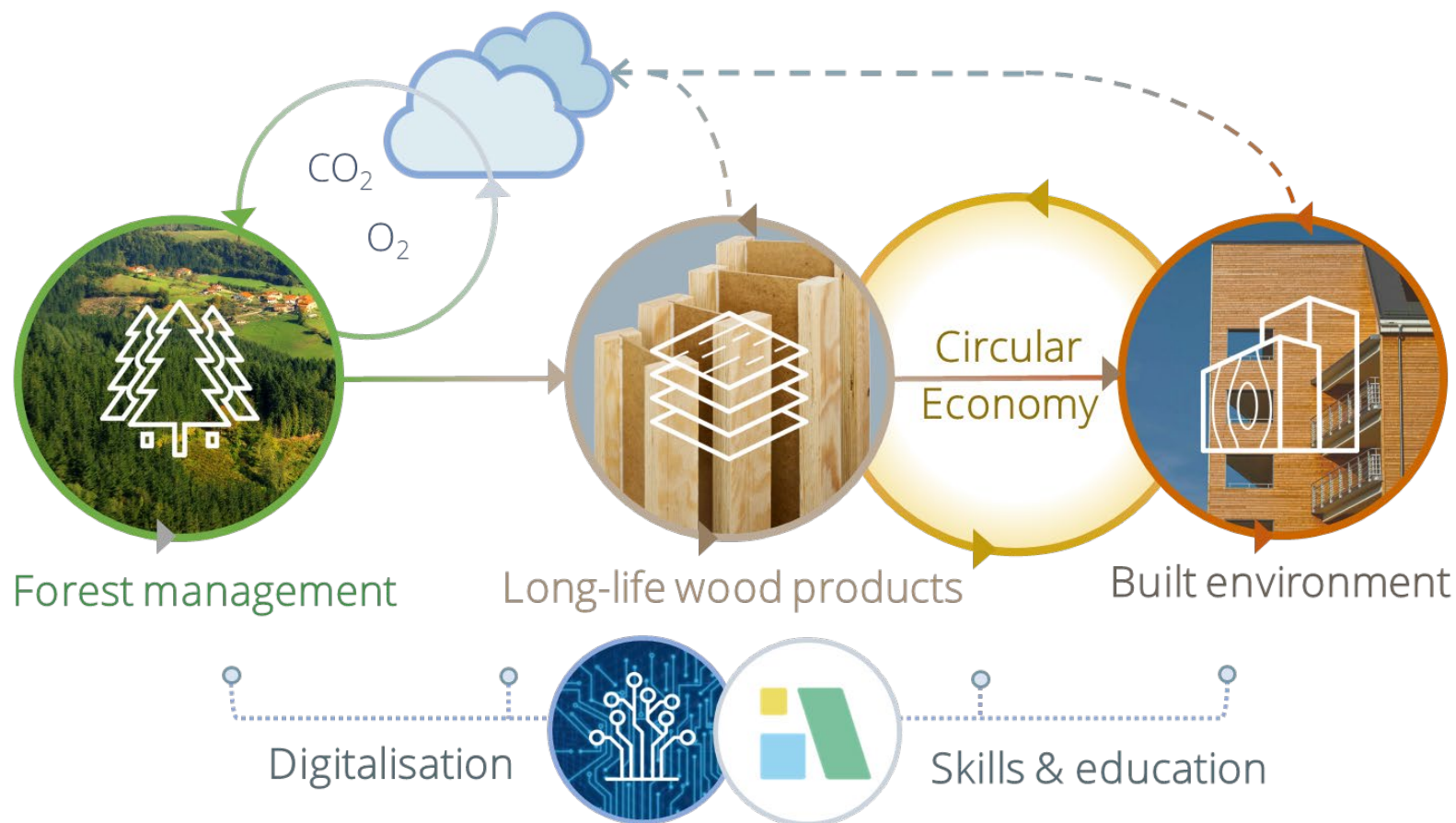
Director General of International Institute for Applied Systems Analysis (IIASA)

Wood4Bauhaus Conference, 8 April 2021



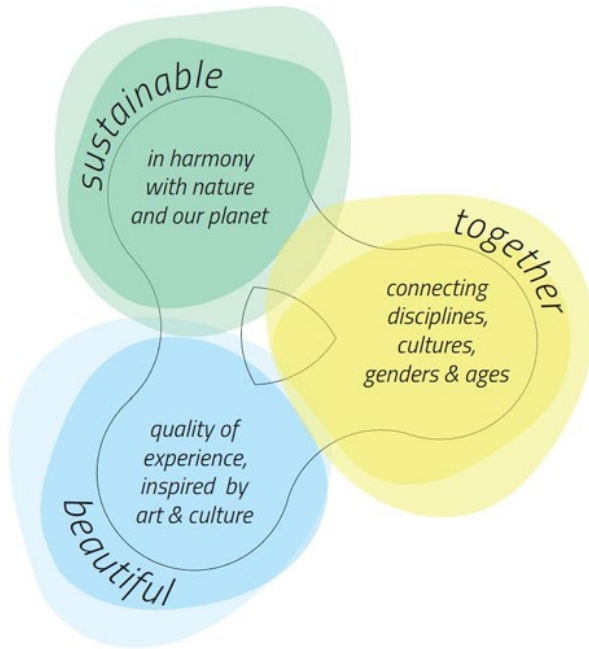
The narrative part 1:

Cities as carbon sinks – upscaling long-life wood construction



The Narrative part 2:

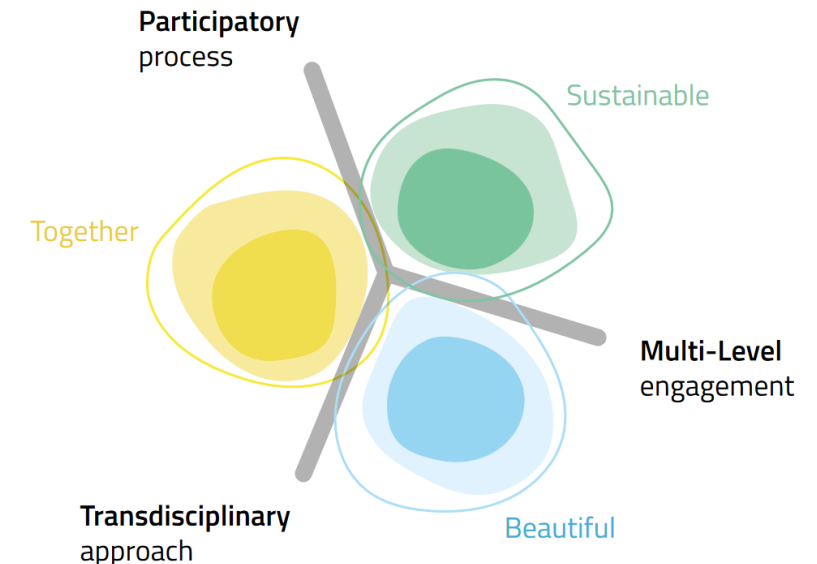
Compelling values, methodologies and tools to connect stakeholders and policy makers



Co-creation

- Onboarding relevant stakeholders
- Identify holistic solutions accounting for all stakeholder needs
- Convince and reduce risk for funding agencies

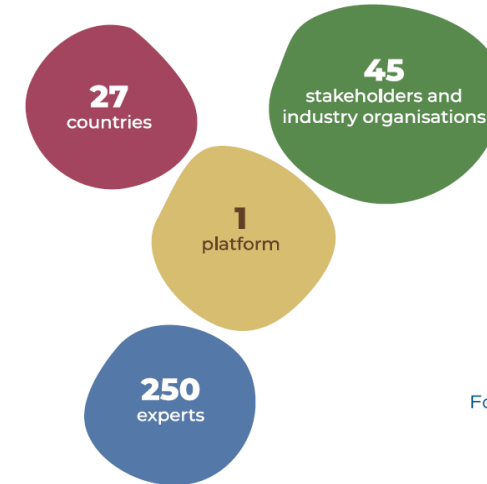
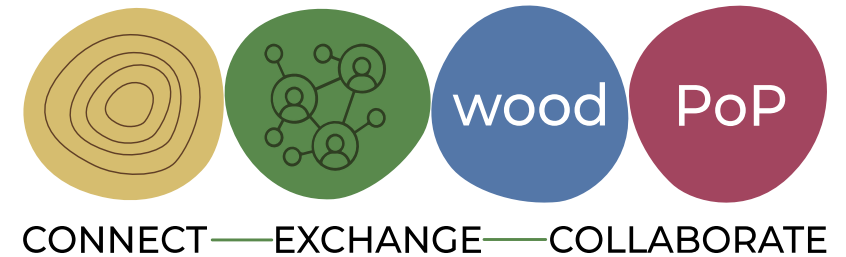
- NEB Values
- NEB Compass
- NEB Toolbox
- NEB Self-Assessment Tool
- NEB Investment Guidelines
- NEB Lab (NEB Partners)
- ...



Building sector alliances to connect stakeholders and policy makers

wood4bauhaus

Wood Sector Alliance for the New European Bauhaus

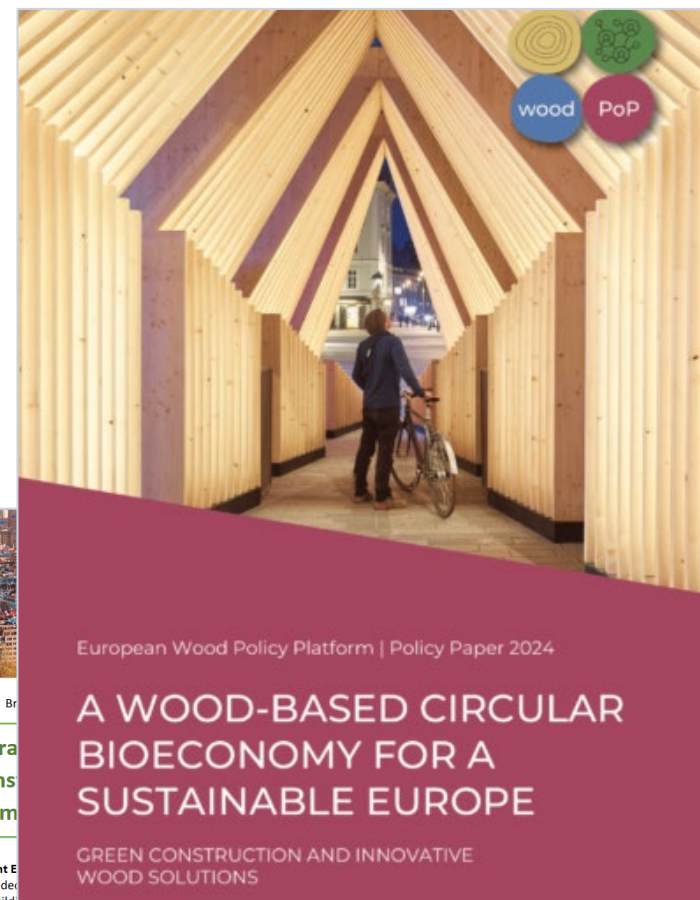
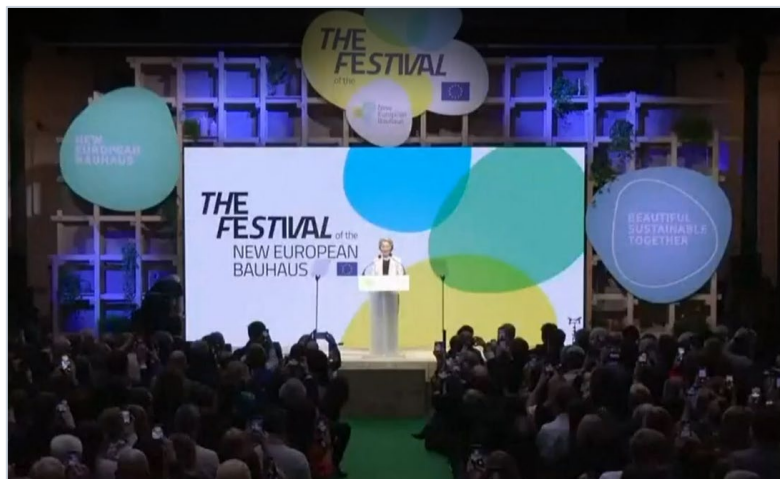


 Forest Fund
Republic of Austria

An initiative by the Federal Ministry
of Agriculture, Forestry, Regions
and Water Management



Building sector alliances to connect stakeholders and policy makers





EU policies affecting sustainable building

European Commission

- **European Green Deal (2020)**
- New European Bauhaus (NEB, 2020)
- Renovation wave (2020)
- Circular Economy Action Plan (CEAP, 2020)
- Carbon Removals Certification Regulation (CRC, 2022)
- EU Taxonomy Environmental Delegated Act (Taxonomy, 2023)
- Energy Performance of Buildings Directive (EPBD, 2018/2023)
- Construction Products Regulation (CPR revision, 2024)
- EU Carbon Removals and Carbon Farming Certification Regulation (CRCF, 2024)
- ...

**The first climate-
neutral continent**
by 2050

At least 55% less
net greenhouse gas emissions by
2030, compared to 1990 levels

3 billion
additional trees to be planted in the
EU by 2030



New European Bauhaus
beautiful | sustainable | together



National and regional initiatives promoting wood construction

- **Slovenia:** Green Public Procurement GPP requires 30% wood-based construction materials in public buildings
- **Austria:** CO₂ bonus of 1€ per kg of wood used in buildings
- **Styria AT:** committed to using 20% timber construction in social housing
- **Galicia ES:** 20% of regional government buildings to use wood in their structure
- **Estonia:** renovation using prefabricated wooden elements are eligible for a 50% subsidy
- **Amsterdam NL:** goal of 20% of new residential builds made from wood by 2025
- ...



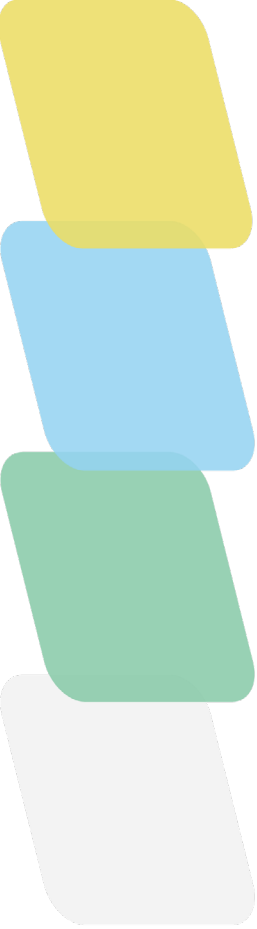
The New European Bauhaus Academy #NEBA is a flagship initiative of the European Commission on skills for sustainable construction.

NEBA aims **unlocking the potential of the construction ecosystem in decarbonising & transforming the built environment.**



Creation of a NEB Academy Hub in Ukraine





**Focus on quality and
build alliances of different actors on
regional, national and international level**

Advocate a compelling narrative

**Use powerful methods and tools
such as co-creation**

**Access funding for research, education and
building projects**

**→ Funding providers want long term low risk
and high impact, so they go for anything that is
high QUALITY and SUSTAINABLE**

All hands on deck