

EU FOREST-BASED INDUSTRIES 2050:

A vision of sustainable choices for a climate-friendly future

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STRATEGIC FRAMEWORK OF

OUR VISION 2050

TODAY

Current state of the European Forest-Based Industry

TOMORROW

Objective: our vision for 2050

To be the most competitive, innovative and sustainable provider of net-zero carbon solutions

Society in 2050 and the role of the Forest-Based industries

Where do we live?
How do we shop?
What do we eat?
What do we wear?
How do we stay healthy?
How do we power our way of life?
How to we spend our leisure time?
How do we create jobs?

GOALS

Help decarbonise Europe 2050 by substituting critical or CO₂-intensive raw materials and fossil energy with forest-based alternatives

Eradicate waste in the circular economy by closing material loops with a sector target of at least 90% material collection and 70% recycling rate

Drive resource-efficiency in the FBI industrial value chain by enhancing productivity in all areas (including materials, manufacturing and logistics)

Meet the increasing demand for raw materials by maximising new secondary streams and ensuring primary raw material supply from sustainably managed forests

Satisfy the growing demand for climate-friendly products by increasing the use of wood and wood-based products in our daily lives

RECOMMENDATIONS

Develop Markets

- 1 Boost market uptake of existing and new sustainable Forest-based products
- **2** Ensure the competitiveness compared to third countries

Ensure sustainable supply of raw material

- 1 Increase secondary raw material supply from wood-based products
- 2 Provide sufficient woody biomass from sustainably managed forests

Innovate with Technology

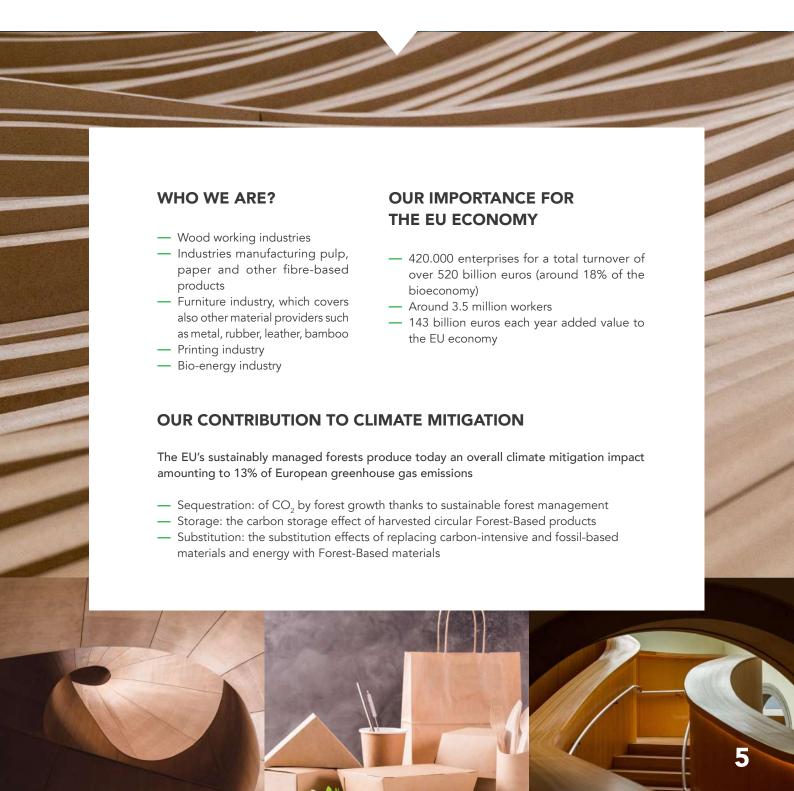
- 1 Establish the best framework conditions for the sector's strategic research and innovation agenda
- 2 Focus on the strategic innovation challenges identified by the The Forest-based Sector Technology Platform

Cross-Cutting Partnerships

- 1 Data availability
- 2 People, skills and sector attractiveness

THE EU FOREST-BASED INDUSTRIES TODAY:

STATE OF PLAY



WHAT COULD BE OUR ROLE IN THE EUROPEAN SOCIETY & ECONOMY IN 2050?





We provide resilient, reusable and recyclable products that can be disassembled from building systems at end of life.

Using wood-based products from sustainably managed forests instead of fossil-based or GHG-intensive materials, reduces fossil-based emissions.

WHAT DO WE EAT?



We reinvent food packaging and the food industry thanks to Forest-Based flavourings, stabilisers, wood-based packaging materials, Forest-Based biomass converted into edible proteins and other nutrients.

Sustainable production of food and food packaging is essential to a climate friendly lifestyle.

HOW DO WE SHOP?



We provide smart, resistant, compostable, light weight, reusable and recyclable packaging.

Paper and board will continue raising the bar and fibre-based packaging recycling rates are over 90%.

WHAT DO WE WEAR?



We produce textiles made from wood fibre with little environmental impact.

Wood-based textiles is the area where material substitution is expected to deliver most benefits.

HOW DO WE STAY HEALTHY?



We make groundbreaking advancements in nanocellulose-, lignin-, and biochemicals-based material for new applications in the health and hygiene areas.

Forest-Based products provide the building blocks for novel health and care technologies.

HOW DO WE POWER OUR WAY OF LIFE?



as secondary heat supplied to other users, products, side-streams and low quality biomass from sustainably managed forests as a source of bioenergy.

Renewable energy sources and energy efficiency applied to heat to minimise our emissions and for a 100% renewable based European economy.

HOW DO WE SPEND OUR LEISURE TIME?



We offer continued use of printed materials

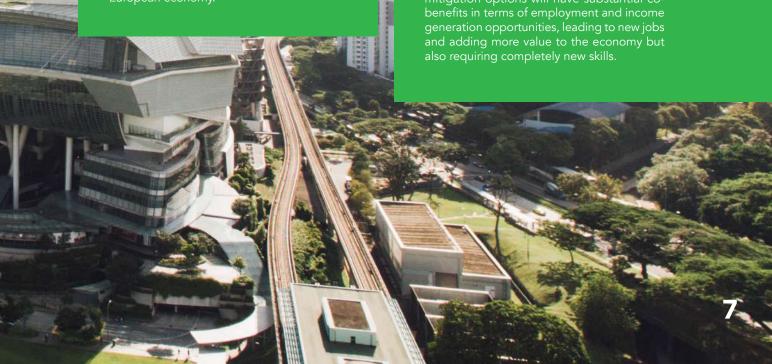
circularity is maximized thanks to boosting of recycling and collection.

HOW DO WE CREATE JOBS?



The Forest-Based Industries and their value chains are a green and attractive sector, with the potential to create sustainable and decent

Properly designed and implemented climate mitigation options will have substantial co-



2050 INDUSTRY GOALS AND

CONTRIBUTION TO EU PRIORITIES

Help decarbonise Europe 2050 by substituting critical or CO₂-intensive raw materials and fossil energy with forest-based alternatives

1

We boost markets for innovative fibre-based products, both in traditional and new market segments, so that they can replace fossil fuel based products. We also decarbonise by using green chemicals, composites and renewable energy carriers as well as enhancing the energy efficiency of our processes.

Drive resource-efficiency in the FBI industrial value chain by enhancing productivity in all areas (including materials, manufacturing and logistics)

3

We will significantly reduce our carbon footprint and make a significantly more efficient use of natural resources in our processes, as well as responsible sourcing by precise and publicly approved traceability (chain-of-custody) throughout the value-chain, including recovery of materials.

Satisfy the growing demand for climate-friendly products by increasing the use of wood and wood-based products in our daily lives

5

Building further on the current trend of using sustainable wood-based products in our daily activities and by developing innovative, high-added value products, we will grow the FBI markets by 3% annually!

Eradicate waste in the circular economy by closing material loops with a sector target of at least 90% material collection and 70% recycling rate

Paper for recycling and recovered wood will go hand in hand with primary raw materials in the circular bioeconomy and will be an even more important part of the Forest-Based Industries raw-materials supply.

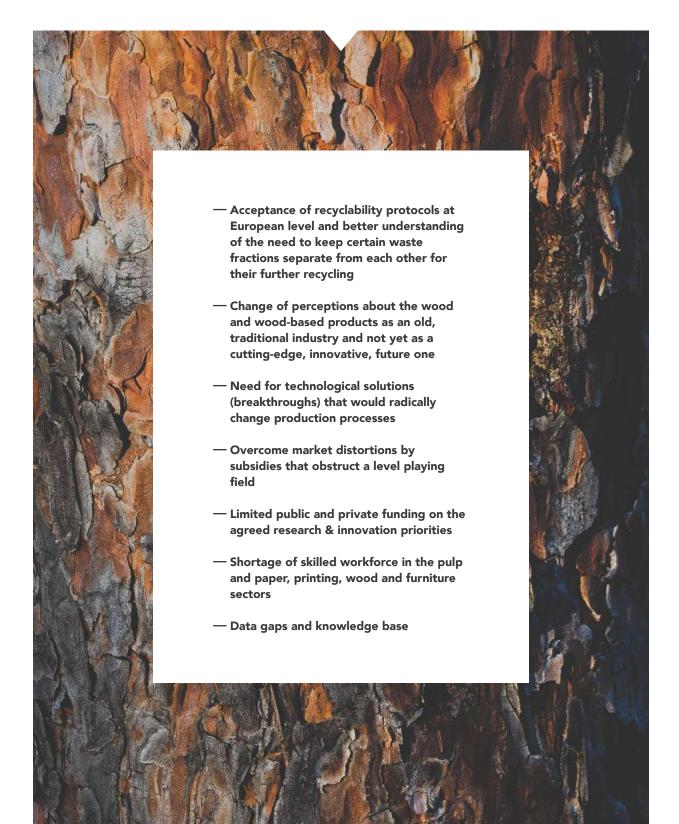
70% would be the average for all wood used, but the recycling rate of paper is already 71.6% today!

We will also make sure that waste is minimised wherever possible, and that valuable natural resources are used in the most efficient and economic fashion possible.

Meet the increasing demand for raw materials by maximising new secondary streams and ensuring primary raw material supply from sustainably managed forests

With support from research and innovation, an increase in the sustainable harvesting possibilities in Europe by at least 30% from today's levels is envisaged.

TO MAKE OUR VISION BECOME REALITY, WE WILL NEED TO OVERCOME SOME CHALLENGES



PATHWAYS & SOLUTION AREAS

DEVELOP MARKETS

- Consumption of FBI products will grow thanks to a mix of increased consumer awareness and supportive product policies, based on robust assessment of GHG product footprint over the entire lifecycle.
- On the supply side, the competitiveness of the industry will be preserved by the combination of industry-led innovation and global level playing fields.

ENSURE SUSTAINABLE SUPPLY OF RAW MATERIAL

- Provide woody biomass from sustainably managed forests in the right quantity and quality by optimizing woody biomass growth and ensuring sufficient provision of woody biomass to the markets.
- Increase secondary raw material supply from wood-based products.

BOOST INNOVATION

- The Forest-based Sector Technology Platform in its 2040 Vision and the 2030 Strategic Research & Innovation Agenda providing the first 10-year scheme towards the realisation of the FBI Vision for 2050.
- Need of a framework on research, innovation and development of the sector, including the need to assess the potential for strategic investment projects across Europe and additional funding required to de-risk and deploy investments.

CROSS-CUTTING PARTNERSHIPS

- A set of horizontal issues are cross-cutting the three pathways on markets, resources and technology and will need to be addressed by each.
- These include the availability or further development of science-based data and methodologies, the social dimension and skills agenda for the workforce as well as awareness-raising and communication in the value chain.

PARTIES INVOLVED

SIGNATORIES



Confederation of European Paper Industries (CEPI)



SUPPORTERS



Confederation of European Forest Owners (CEPF)



The European Confederation of Woodworking Industries (CEI-Bois)



The European State Forest Association (EUSTAFOR)



The European Panel Federation (EPF)



Federation of the European Parquet industry



The European Furniture Industries Confederation (EFIC)



European Organisation of Agricultural, Rural and Forestry Contractors (CEETAR)



Bioenergy Europe



The united voice of farmers and their cooperatives in the European Union



The Forest-based Sector Technology Platform (FTP) The European Forest Institute (EFI) provided a science-based contribution to this report.



Intergraf

