

# Forest industries contributions for greener future

Maija Rantamäki,  
Manager, International and EU Forest Affairs

21.9.2023



# The Success of the Forest Industry is Important for Finland

Mills

**170**

Everywhere in  
Finland

Direct  
investments

**1,6 bil**

euros annually

Forest industry  
constitutes

**18 %**

Finland's exported  
goods

Tax Revenue:

**2,7 bil**

euros



# The enablers are well growing and healthy forests

More than

**75 %**

of Finland's land area is covered by forests

Forest resources in Finland:

**2,5 bil**

cubic meters

Certificated forests:

**93 %**

of commercial forests

About

**13 %**

of the forests are protected



# Biodiversity Roadmap for the wood processing industry published in 12.9.

- Biodiverse nature is the foundation of the forest bioeconomy
- As a large land use sector, we know our responsibility
- The roadmap is based on an extensive research project that surveyed:
  - The current state of forest nature
  - Effects of the biodiversity work done
  - Future development of the state of forest nature with scenarios
  - Opportunities provided by technology in measuring and monitoring biodiversity



Finnish Forest Industries



finnish sawmills



Luke  
NATURAL RESOURCES  
INSTITUTE FINLAND



UNIVERSITY OF  
EASTERN FINLAND



UNITE  
FOREST-HUMAN-MACHINE INTERPLAY



Metsäteho



NLS  
NATIONAL  
LAND SURVEY  
OF FINLAND

TAPIO



Finnish Forest Industries



finnish sawmills

21.9.2023

# State of forest nature today – decades of work pays off

- The volume of trees on forest land has increased by 50 percent over the past 40 years
- Positive development in important structural features



Volume of broad-leaved trees  
 Live wood spared on clearcut sites  
 Trees with high diameter  
 Decaying stemwood, southern Finland

- Positive development of subshrub plants

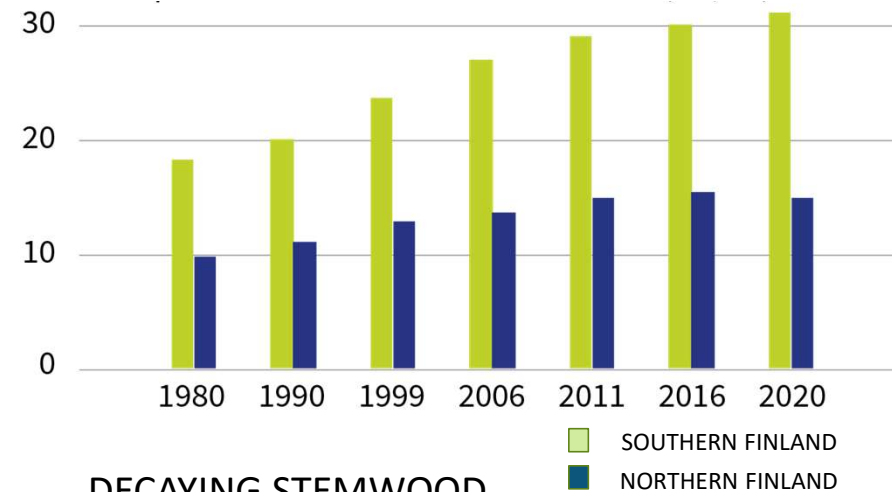


Bilberries  
 Lingonberries  
 Crowberries  
 Glittering wood moss



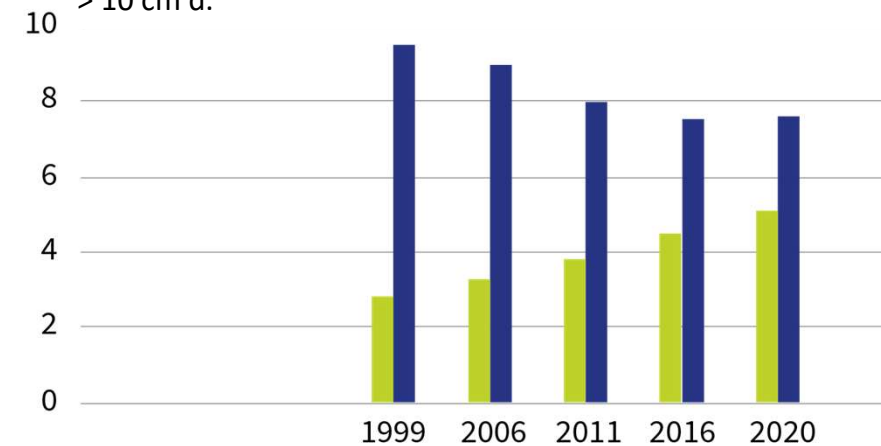
## BROAD-LEAVED TREES

The average volume of broad-leaved trees on forest land (m<sup>3</sup>/ha)



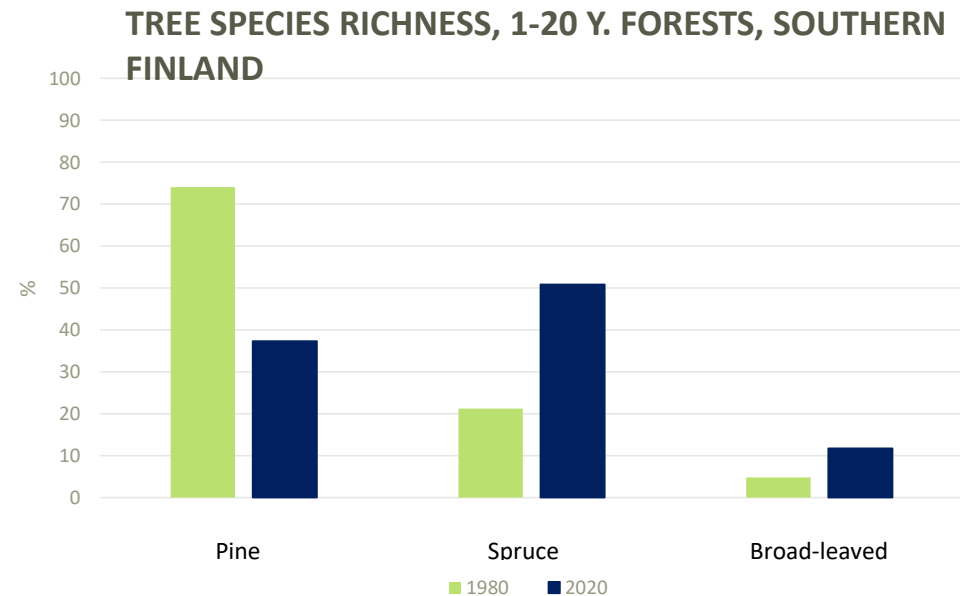
## DECAYING STEMWOOD

The amount of decaying stemwood on forest land (m<sup>3</sup>/ha) > 10 cm d.

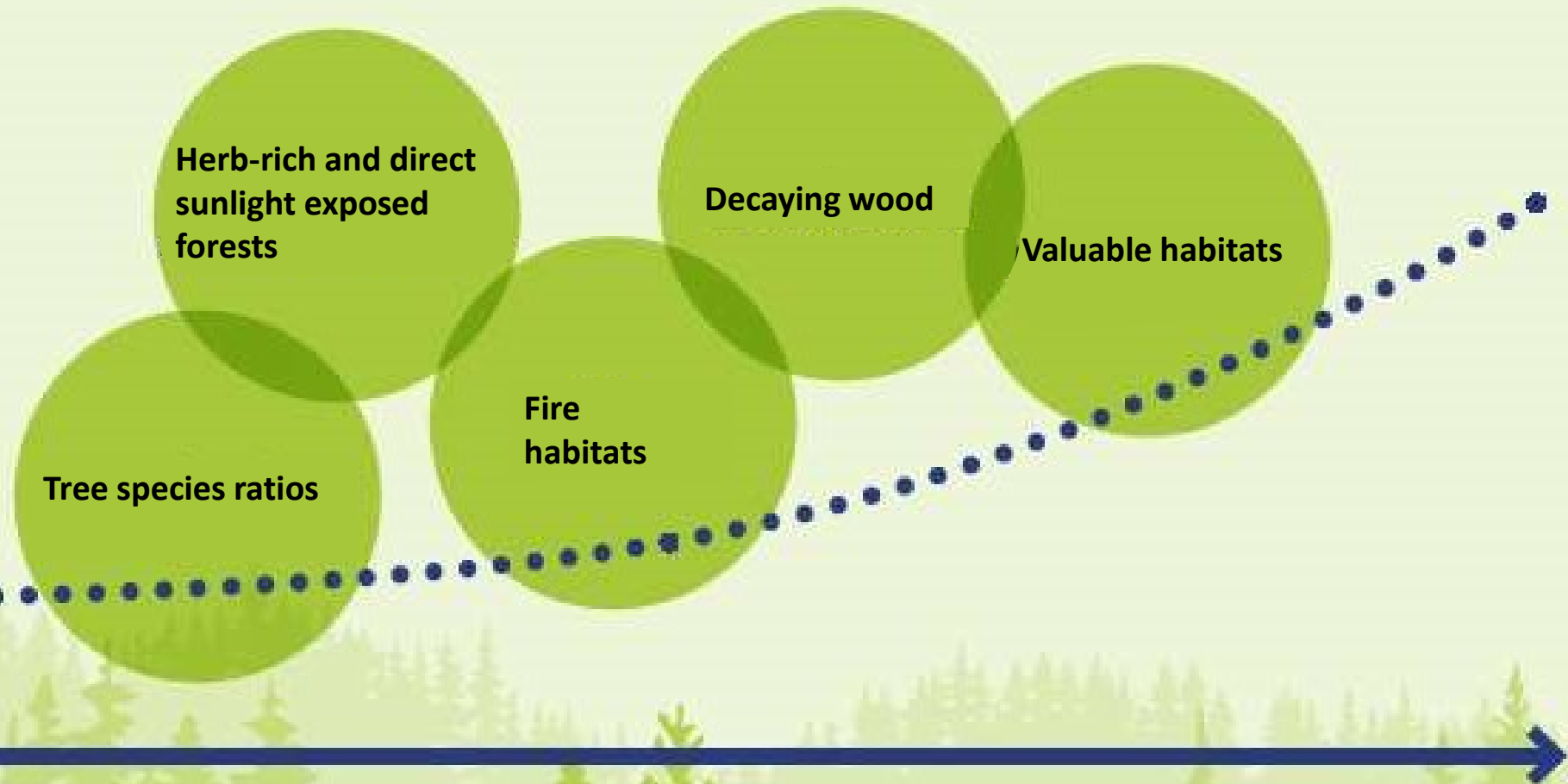


## There are also challenges in the current state

- The young forests of southern Finland have become dominated by spruce
  - Increased risk for future forests
- Despite the increase in volume of broad-leaf trees, the mixed forest cover has not increased
- The cover of certain wetland species have declined because the areas drained in the last century have dried up and turned into heathland rich in peat.



Instead of looking at the past decisions must be made for the future and use locally adapted solutions



Growth of forest resources, use of forests and biodiversity can be reconciled

# Tomorrow is made of wood - Wood-based materials can replace fossil raw materials in almost any branch of technology





# Future of Forest Industry: Megatrends Support Growth for Wood-Based Products

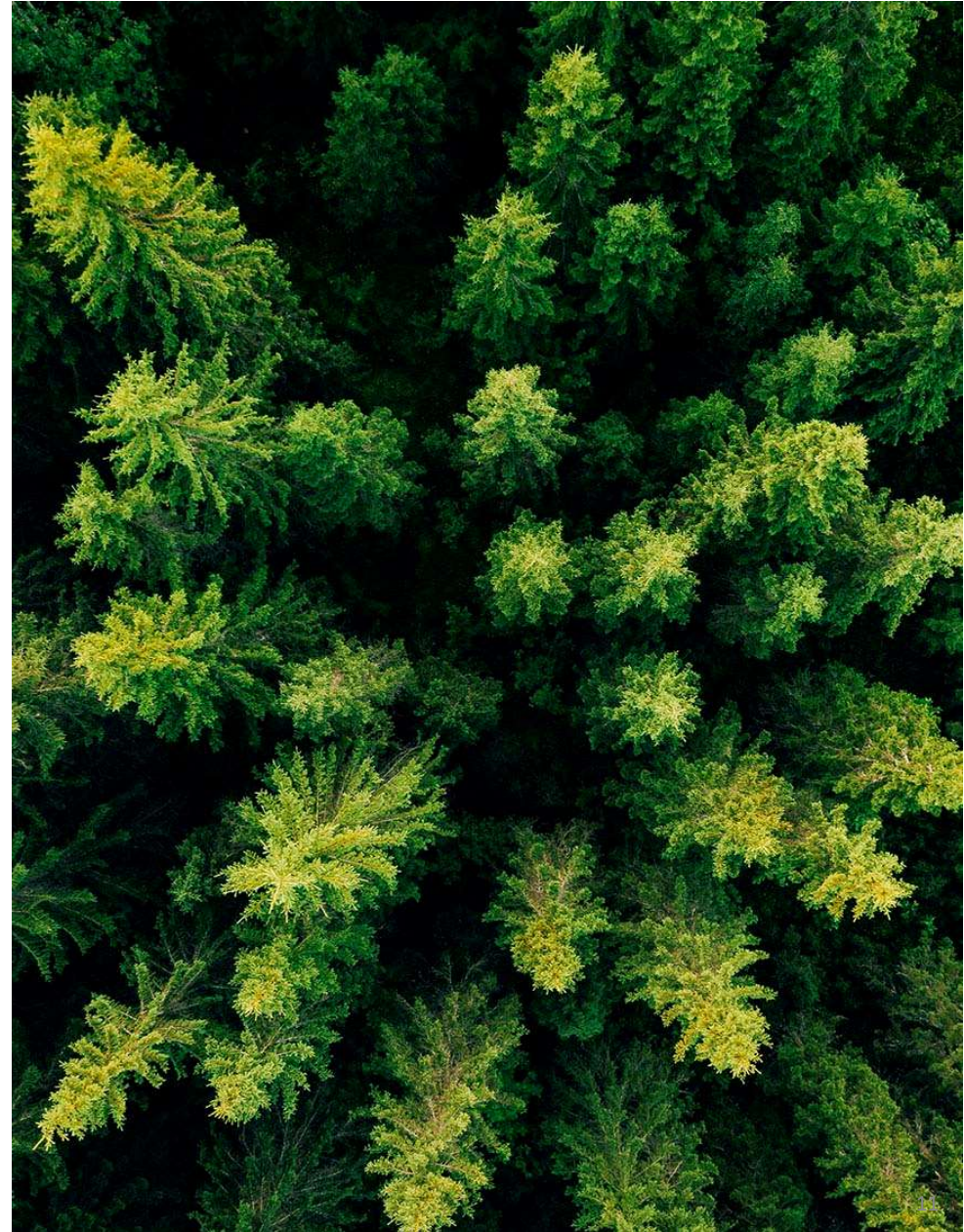




**Evolving  
Forest Industry**

**RESPONSIBLE SOLUTIONS  
AND WELL-BEING WITH  
WOOD-BASED PRODUCTS**

# Extra slides



# Forest industry's solutions for Green Deal targets and carbon neutral Finland 2035

## Fossil phase-out at the mills



2020: 3 MtCO<sub>2</sub>    2035: 0,3 MtCO<sub>2</sub>

## How?

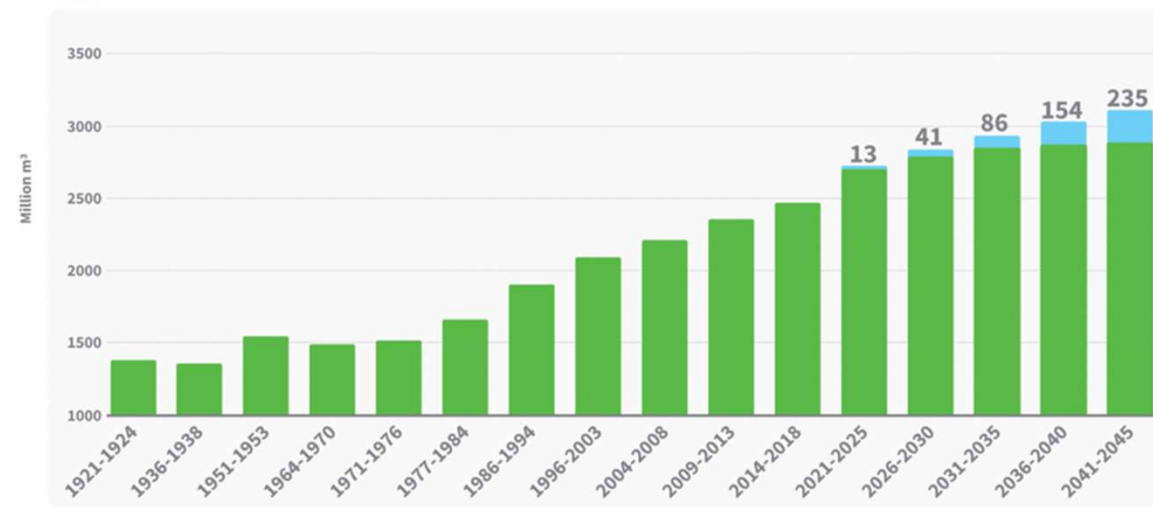
-  **Electrification and energy efficiency measures**
-  **Replacing peat**
-  **Replacing natural gas**
-  **Replacing fossil oil**

The positive annual climate impact of products

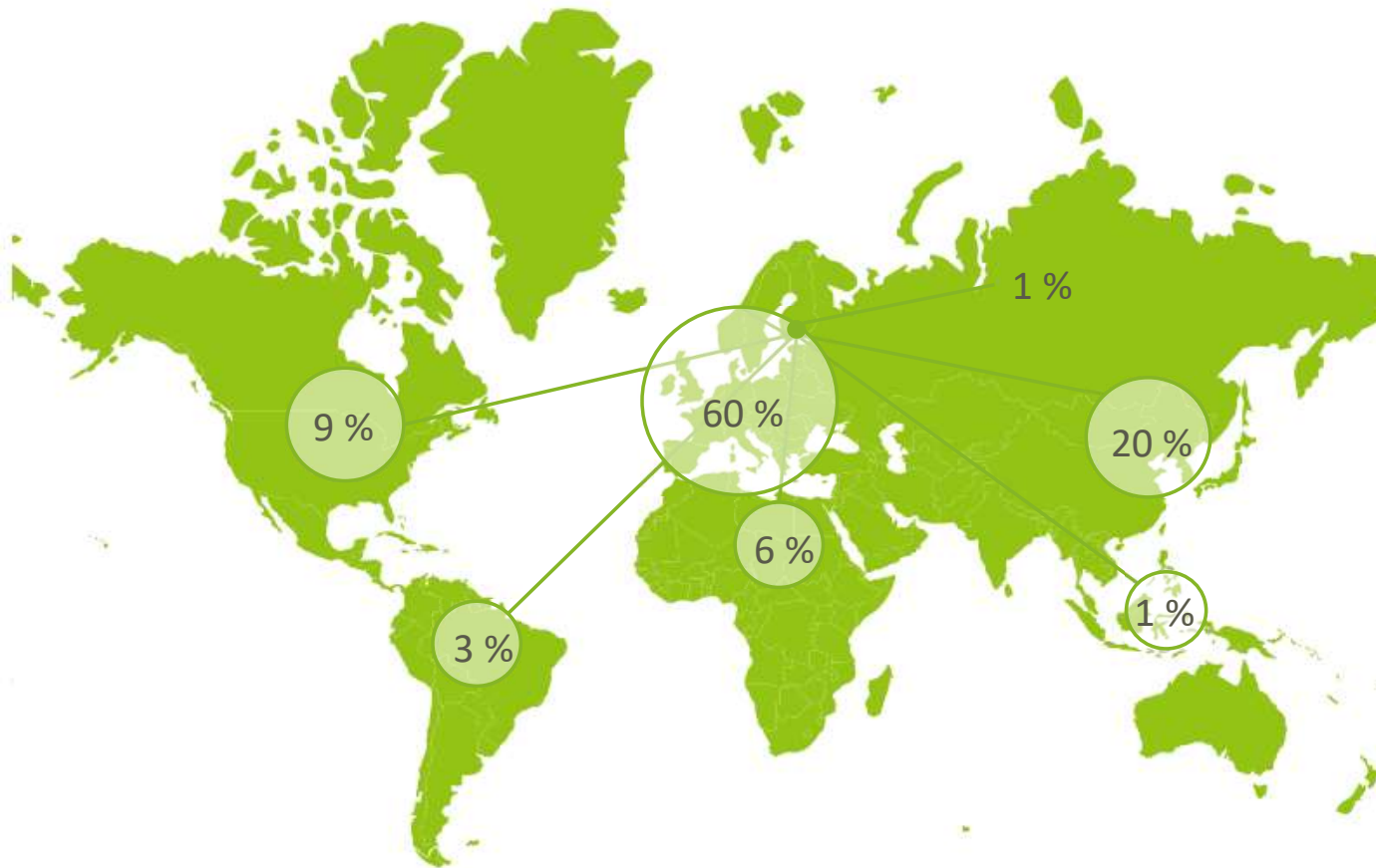
> 16MtCO<sub>2</sub>/a  
(2020–2035)



## Volume of growing stock



# Distribution of export market for Finnish forest industry products in 2022

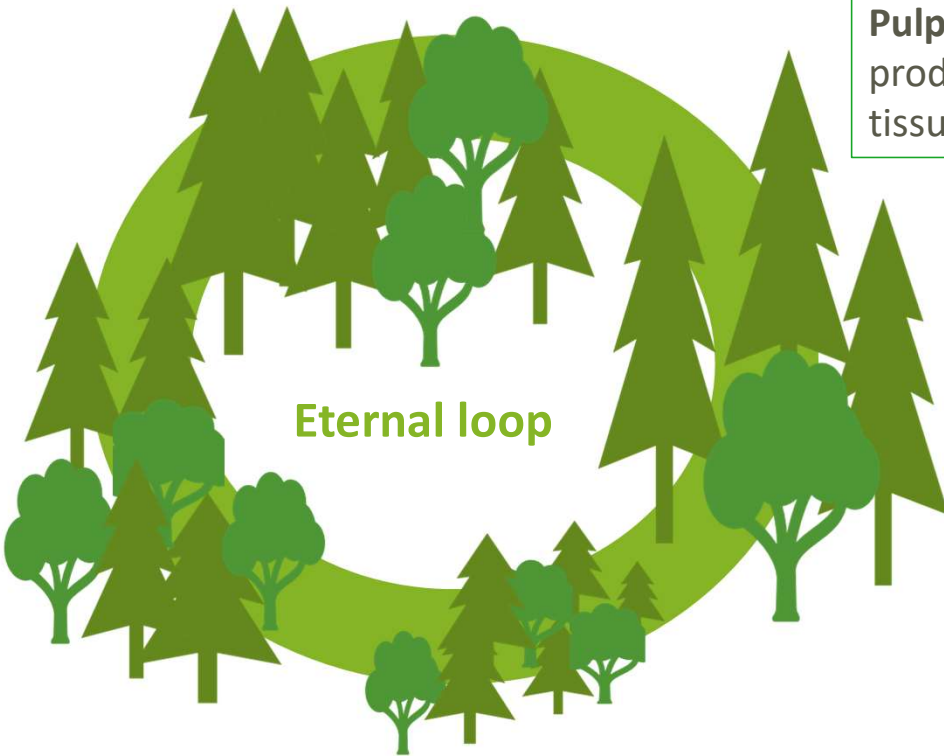


|  |        |
|--|--------|
| Finnish forest industry export value (2022)              |        |
| <b>14,3 billion €</b>                                    |        |
| Share of the total Finnish export of goods <b>17,5 %</b> |        |
| Main export markets:                                     |        |
| Germany  | 11,9 % |
| China  | 9,4 %  |
| United States  | 8,7 %  |
| Great Britain  | 6,9 %  |
| Sweden   | 4,7 %  |

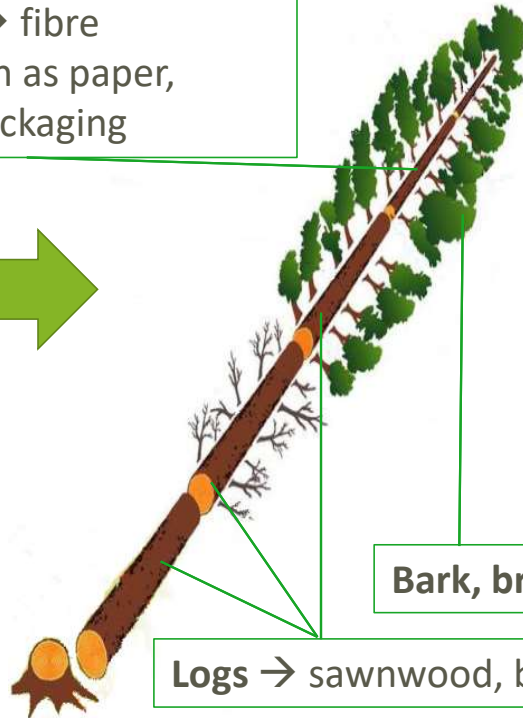
# Wood use is a model example circular bioeconomy & resource efficiency

*Different stages of forest succession*

*Different parts of a single tree*



Pulp wood → fibre products such as paper, tissue and packaging



Bark, branches etc. → bioenergy

Logs → sawnwood, buildings, furniture

