



Metsä



***A sustainable and circular bioeconomy
business model of the forest based
industries – climate change mitigation
potential***

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VP, Corporate Affairs
Metsä Group**

METSÄ GROUP | Sales* EUR 5.7 billion | Personnel 9,300 | Renewable energy 28,4 TWh

METSÄLIITTO COOPERATIVE | Group's parent company | Owned by 103,000 Finnish forest owners



METSÄ FOREST
Wood supply and
forest services

Sales:
EUR 2.0 billion
Personnel:
840



METSÄ WOOD
Wood products

Sales:
EUR 0.4 billion
Personnel:
1,500



METSÄ FIBRE
Pulp and
Sawn Timber

Sales:
EUR 2.5 billion
Personnel:
1,200



METSÄ BOARD**
Paperboard

Sales:
EUR 1.9 billion
Personnel:
2,400



METSÄ TISSUE
Tissue and
Greaseproof Papers

Sales:
EUR 1.0 billion
Personnel:
2,800

METSÄ SPRING | Innovation Company

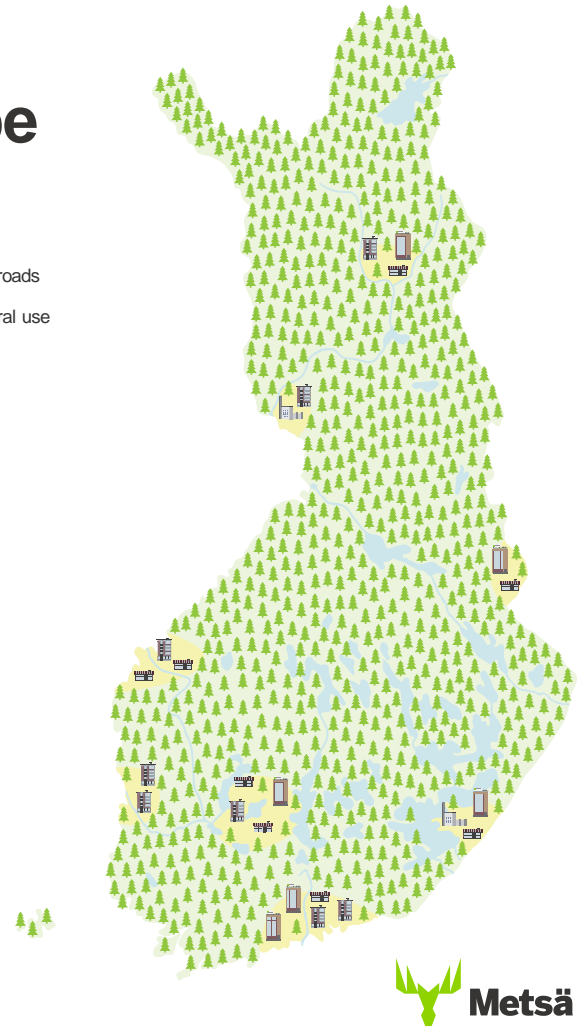
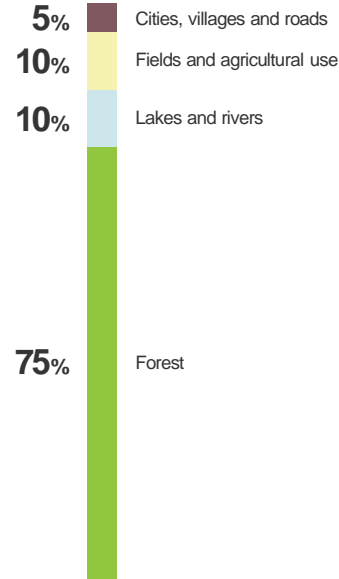
Finland – the largest forest cover in Europe

100+
MILLION M³

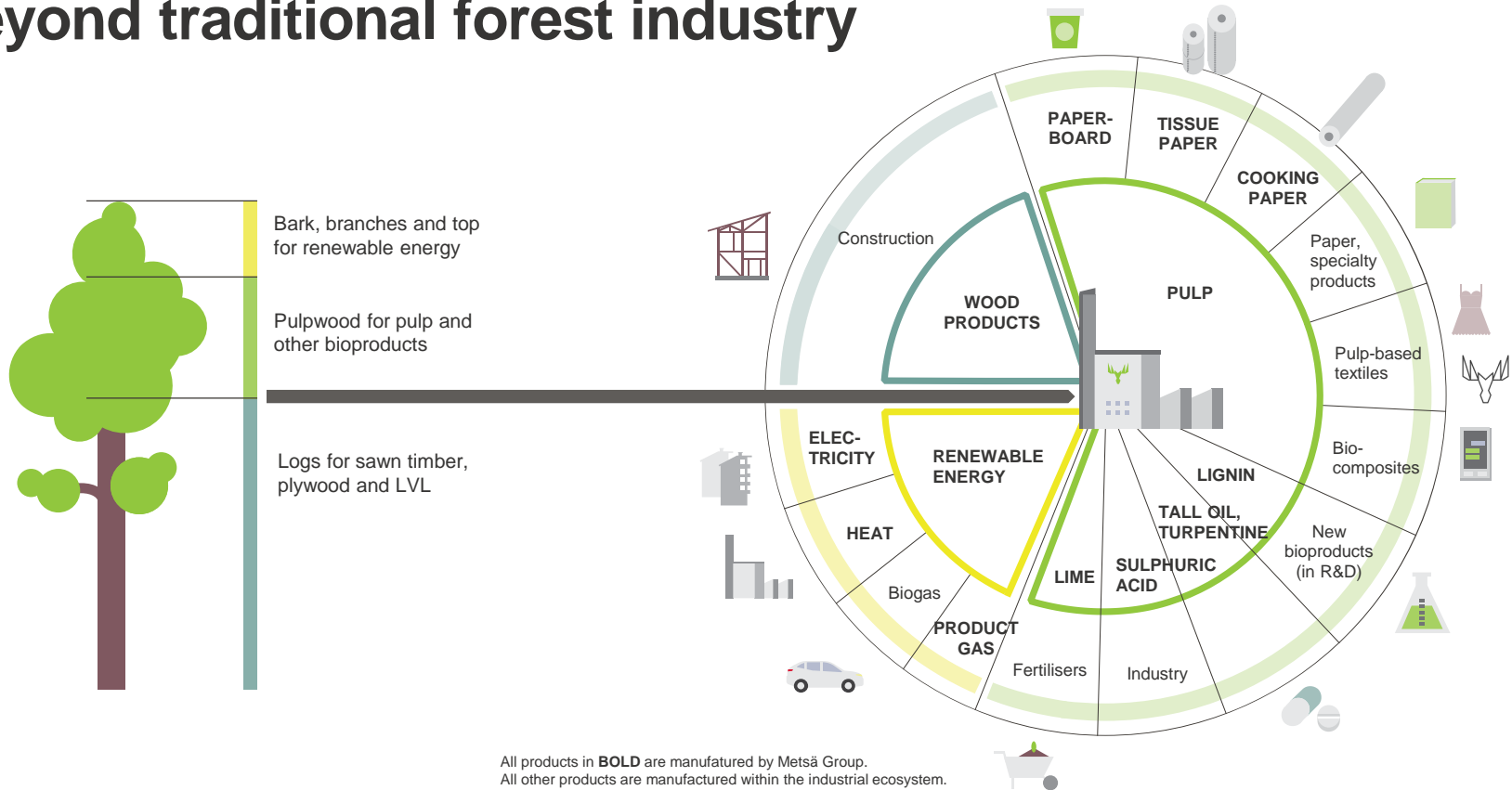
- Finland is the most forested country in Europe. Our forests grow more than they are used
- More than 50% of Finland's forests are owned by private forest owners
- Metsäliitto Cooperative members own nearly half of the private forest area in Finland
- Sustainable forest management safeguards biodiversity and enables versatile use of forests



The area of Finland

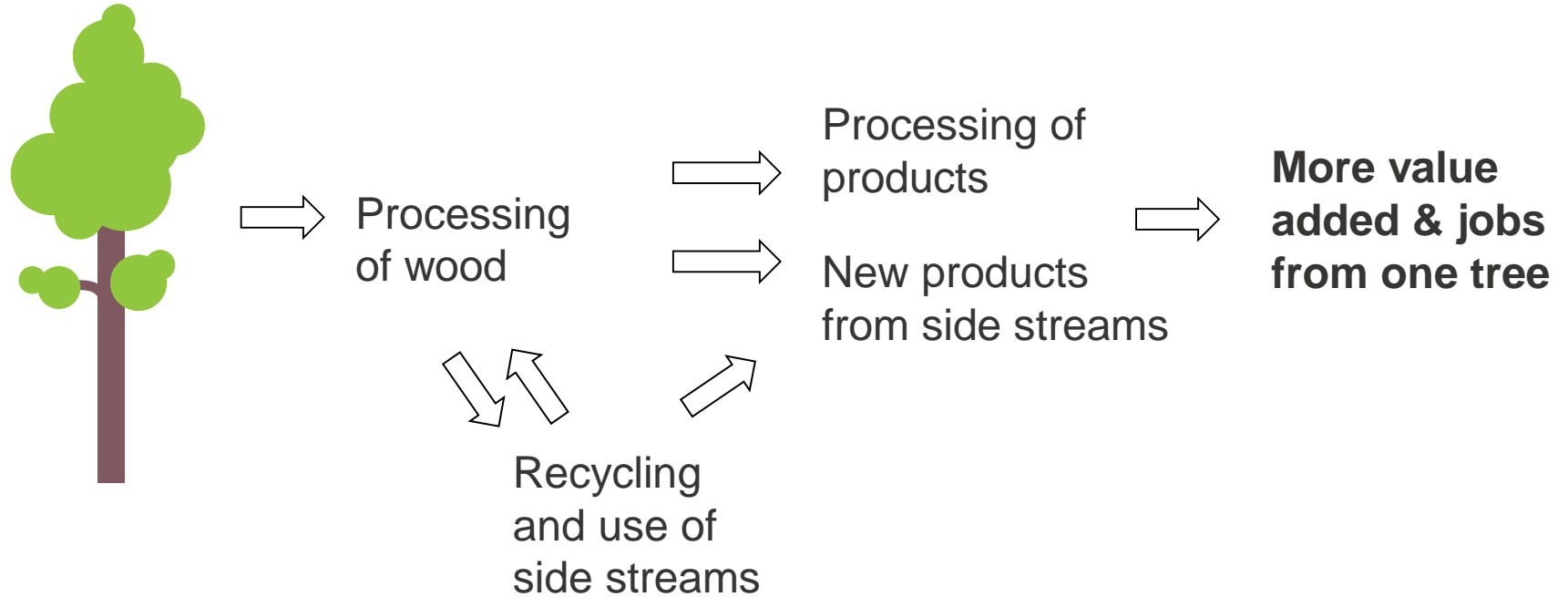


Beyond traditional forest industry



All products in **BOLD** are manufactured by Metsä Group.
 All other products are manufactured within the industrial ecosystem.

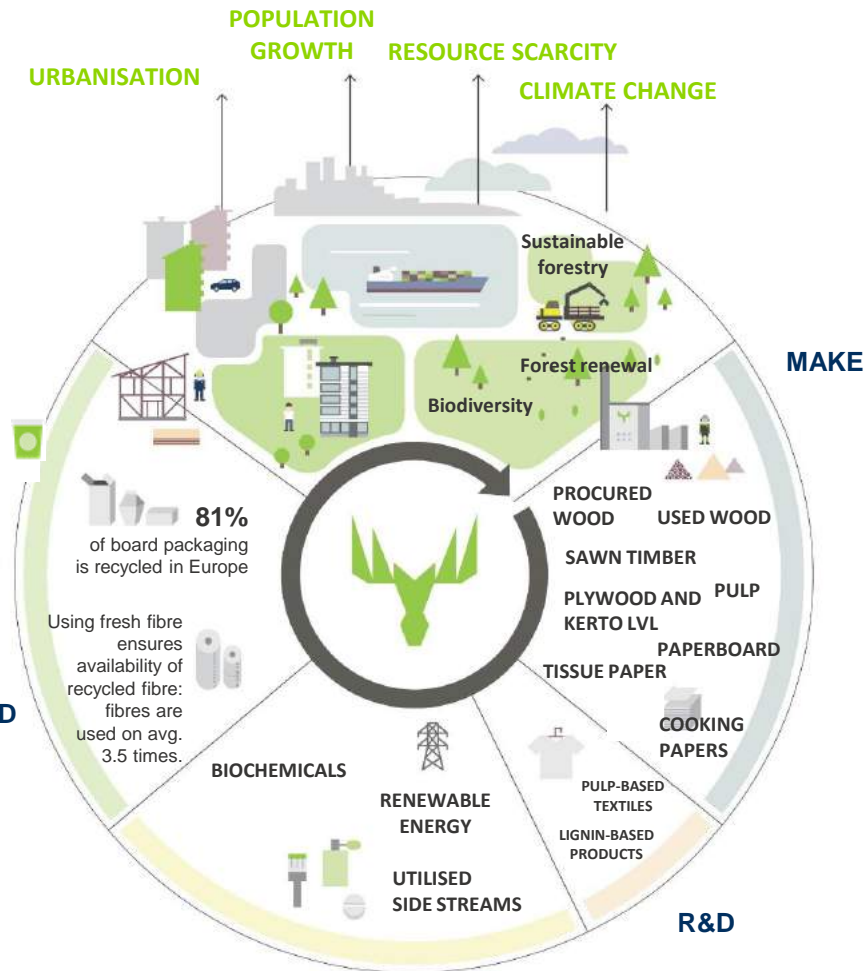
New bioproducts improve existing value chains and create jobs



Climate change mitigation – potential of the forest-based industries

Mitigation actions

- Sustainable forest management
- Production: energy & resource efficiency and breakthrough technologies
- Recyclable and long-term use products
- Renewable energy from side streams

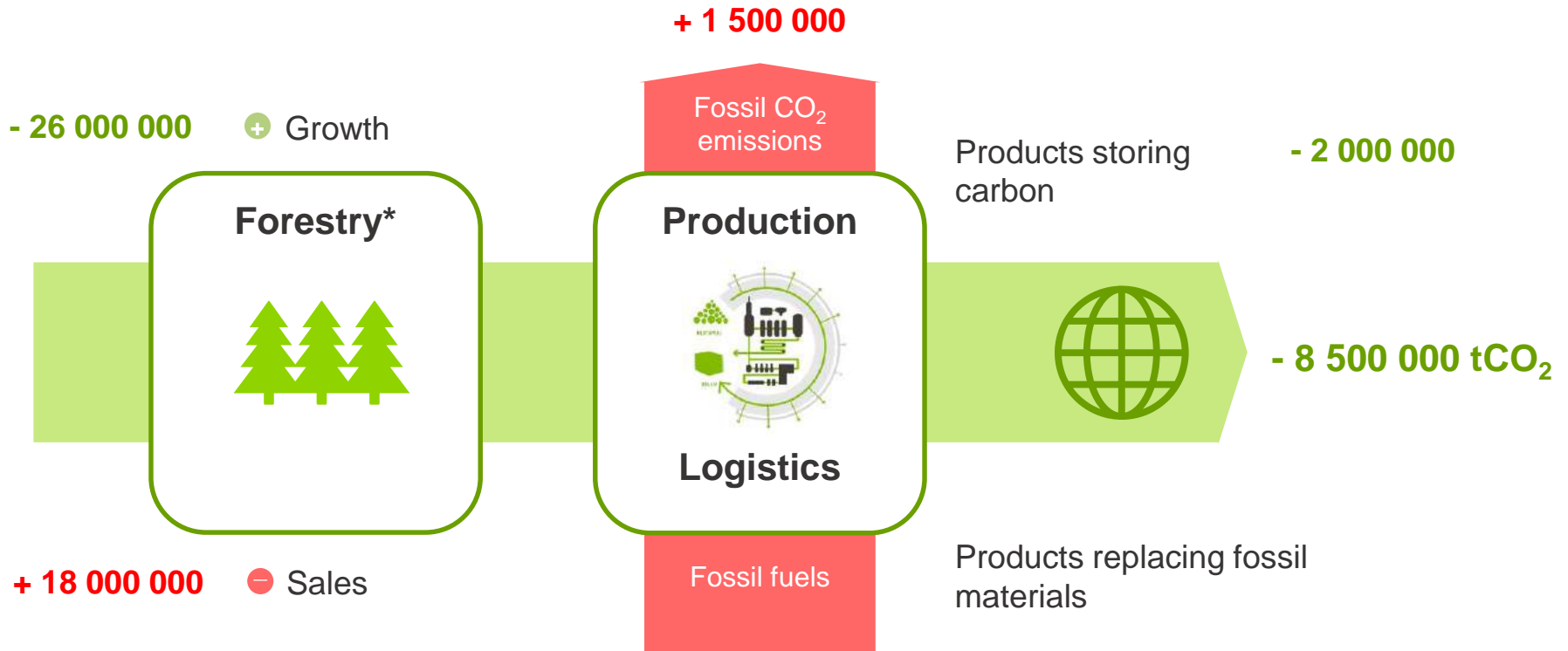


Metsä Group's 2030 sustainability objectives

Supporting UN Sustainable Development Goals (SDG's)



Metsä Group is a significant carbon sink



* Forests owned by the members of Metsäliitto Cooperative

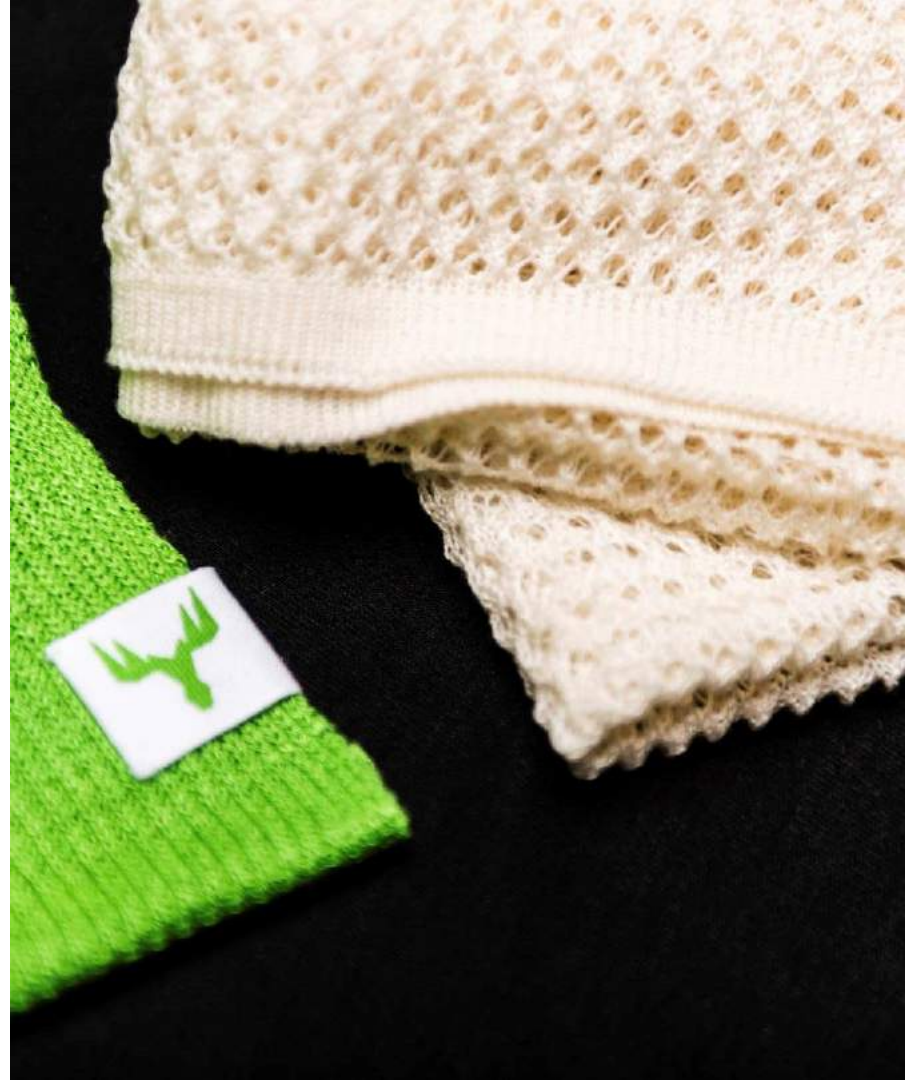
Investments to support low-carbon circular bioeconomy

- In 2015-2018 Metsä Group invested **2 billion EUR** in the European bioeconomy
 - New bioproduct mill in Äänekoski, Finland (1.2 billion EUR)
- In 2018 Metsä Group established a new innovation company **Metsä Spring Ltd**
 - Identifies and develops new business opportunities in sustainable forest-based bioeconomy and circular economy
 - Textile fibre demo plant investment
- Metsä Group is planning three new investments worth **2 billion EUR**
 - New bioproduct mill in Kemi, Finland
 - New pine sawmill in Rauma, Finland
 - First phase in renewing the Husum pulp mill, Sweden
 - Implementation in 2019 - 2023



Successful market-based and resource-wise bioeconomy

- Competitive forest industry means upgrading each part of the wood to its highest value
- Our products succeed in international market and have great growth potential without regulatory subsidies
- Healthy established businesses enable investing into new innovations
- Public co-funding of R&D&I accelerates the development of new high-risk technologies



Make the most of Metsä

