



The Biofore Company **UPM**

# Biodiversity is our business

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# UPM today

## UPM BIOREFINING



pulp, plantations,  
biofuels, timber

## UPM ENERGY



## UPM RAFLATAC



self-adhesive labels

## UPM PAPER ASIA



## UPM PAPER ENA



## UPM PLYWOOD



**TURNOVER** EUR 10 BILLION • **PERSONNEL** 20,000 • **SHAREHOLDERS** 86,000

## UPM and forests

**50M** Tree seedlings planted annually

**27Mm<sup>3</sup>** Wood delivered globally to UPM mills annually

**30,000** Wood trade transactions with private forest owners in Finland annually

**80%** Of wood used in UPM products certified

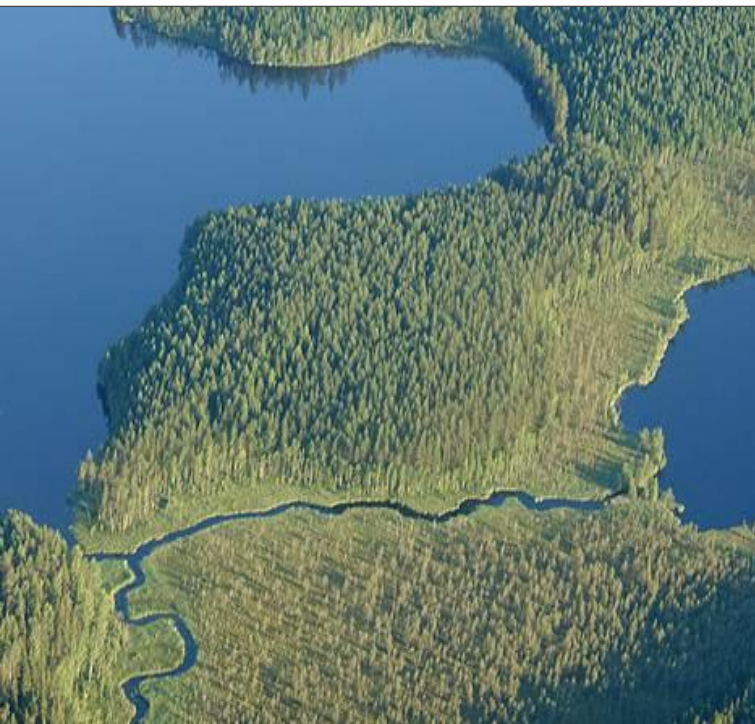
**100%** Of wood and wood fibre from sustainable sources



# Two responsible ways to use land

Semi-natural forests

Tree plantations



Wood

Climate

Water

Biodiversity

People



# UPM forestry fundamentals



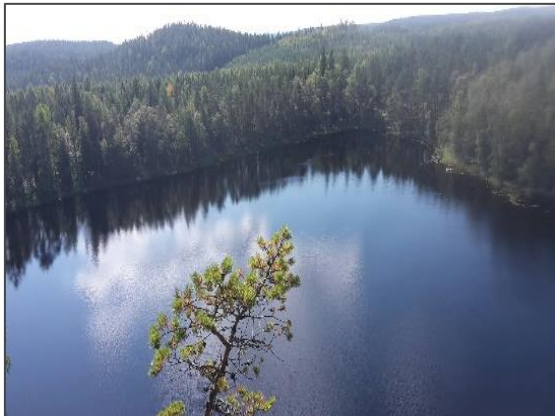
No tropical hardwood



Ensure wood supply



Maintain carbon sinks



Protect waters



Enhance biodiversity



Respect stakeholders

# Biodiversity actions



# The Economist - 20 years of development



WATER CONSUMPTION\*

**-35%**



PRODUCTION WASTE\*

**-90%**



CARBON EMISSIONS\*

**-90%**



CERTIFIED WOOD FIBRE

**+100%**

\* Per tonne of paper

UPM Paper / Environmental footprint





The Biofore Company UPM

# UPM BioVerno – a sustainable fuel from forest to tank

Wood sourcing and forestry



Certified raw material

CTO from pulp production



Residue from own operations

Lappeenranta biorefinery



175 MEUR investment  
100 000 t production

Comprehensive supply chain



Creating  
200 jobs

BioVerno distribution



Suitable for all diesel engines  
without blending limits

80% less emissions in transport



Environmental benefits

## New innovations from sustainably managed forests create opportunities

- Advanced biofuels, biochemicals and biocomposites can reduce dependency on fossil alternatives, and reduce GHG emissions considerably
- UPM BioVerno renewable diesel offers a high quality solution that helps to decarbonize the transport sector and lower the tail pipe emissions



# THE FOREST OF NEW OPPORTUNITIES

## **The world is changing**

Resource scarcity  
Change in  
economic gravity  
Climate change  
Digitalisation



## **Biofore – growth and competitive advantage**

Material and energy efficiency  
Renewable and  
recyclable products  
Innovations and new businesses



**UPM**

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