



UPM

UPM the Biofore Company

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VP, Public Affairs

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PRESENT

FUTURE

PAST



**The climate is
changing**



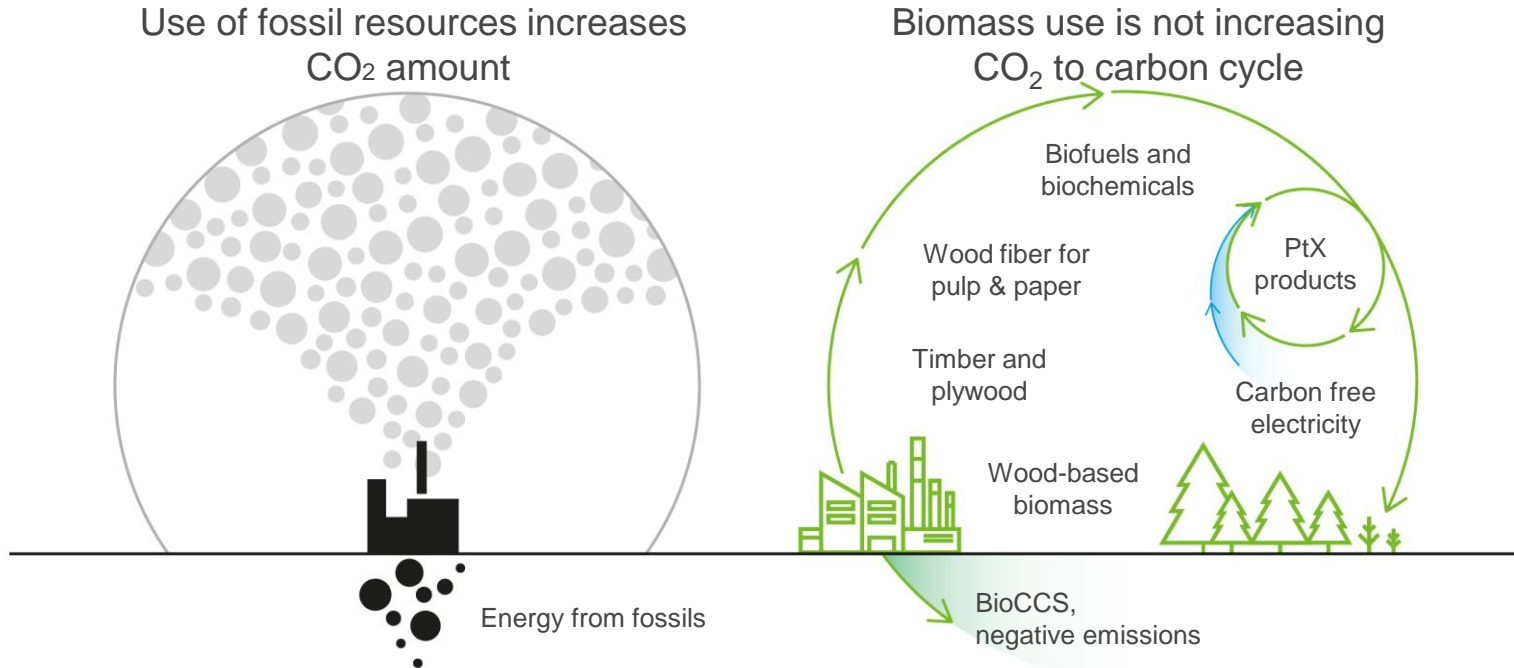
**We need more
materials**



**Resources are
running out**



Bioeconomy offers a sustainable alternative to fossil-based economy



**OUR BUSINESS IS BASED ON THE
CONTINUOUS GROWTH OF FORESTS,**



**ONE OF
EARTH'S MOST
VALUABLE
RESOURCES**

Our businesses



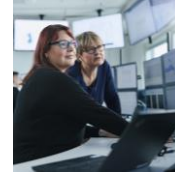
UPM Pulp
A versatile range of chemical pulp for many growing end uses



UPM Timber
Certified sawn timber for joinery, packaging, furniture, planing and construction



UPM Forest
Sourcing wood raw material for sustainable and recyclable products



UPM Energy
Carbon-free electricity generation of hydro, nuclear and thermal power



UPM Raflatac
Self-adhesive paper and film products incl. label materials, graphics solutions and removable self-adhesive products.



UPM Specialty Papers
Labelling materials, release base papers, flexible packaging papers, office and graphic papers



UPM Communication Papers
Magazine papers, newsprint and fine papers for a wide range of end uses



UPM Plywood
Plywood and veneer products for construction, vehicle flooring and LNG shipbuilding



UPM Biofuels
Wood-based renewable diesel and naphtha



UPM Biochemicals
Glycols, lignin products, renewable functional fillers

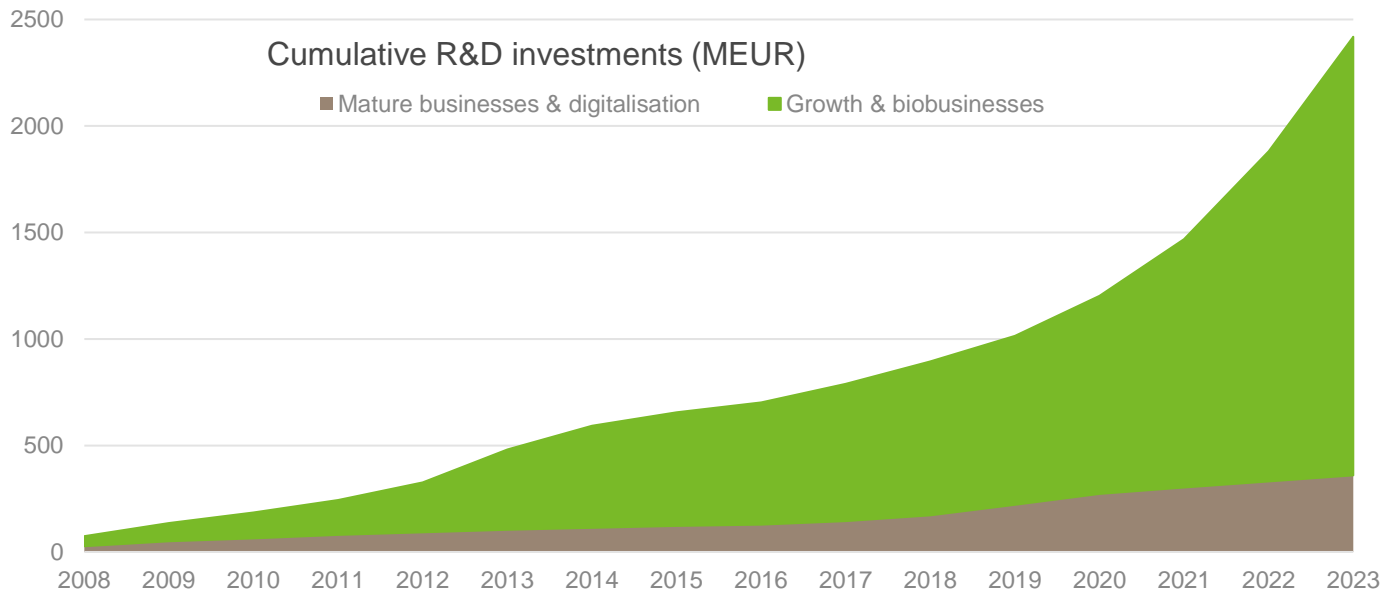


UPM Biomedicals
Wood-based biomedical products for clinical and life science applications



UPM Biocomposites
Composite decking materials and wood-based biocomposites

Consistent R&D investments have led to commercialisation of several new innovations



UPMBIOCOMPOSITES >
UPMBIOFUELS >
UPMBIOCHEMICALS >
UPMBIOMEDICALS >

UPMPROFI® **UPM** Formi EcoAce

UPM BioVerno
UPM BioPiva

UPM BioVerno naphtha
WISA BioBond

UPM Raflotac™
Forest Film™

GrowInk™ **FibDex®**

* Käytetyt pääomat + negatiiviset rahavirrat | © UPM

Renewable product range



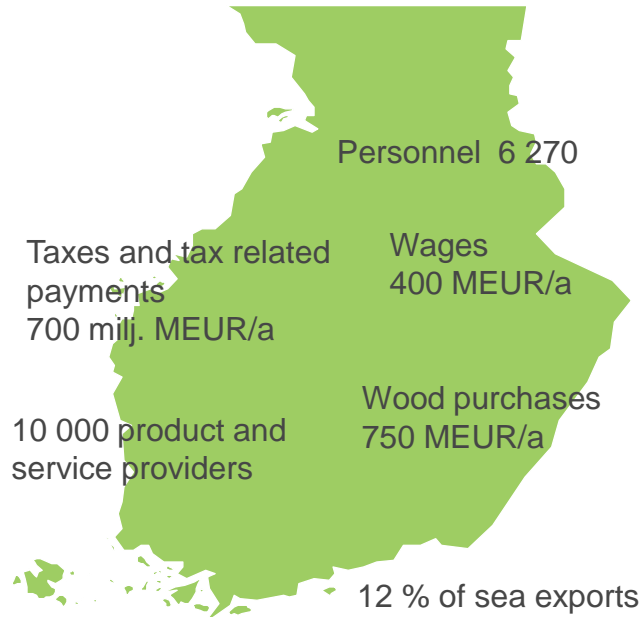
- **Bio-monoethylene glycol (bMEG)**
for textiles, PET bottles, packaging, deicing fluids
- **Renewable functional fillers**
for rubber applications as a sustainable, light-weight and high-purity alternative to carbon black and silica
- **Bio-monopropylene glycol (bMPG)**
for composites, pharma, cosmetics, detergents
- **Industrial sugars**
for various applications in chemicals industry



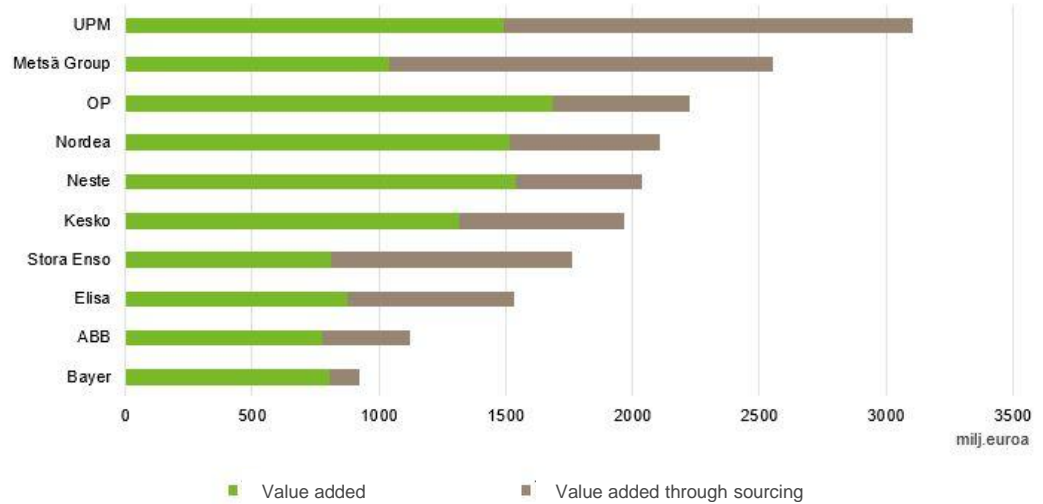
UPM has a major economic impact in Finland with 24 production units and 522 000 hectares of forests



UPM in Finland



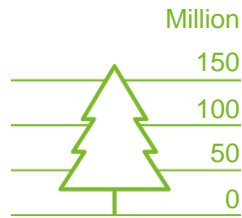
Finnish enterprises ranked by value added impact in Finland



Source: ETLA, 2021

Sustainable forestry ensures forest growth

Facts on forest growth



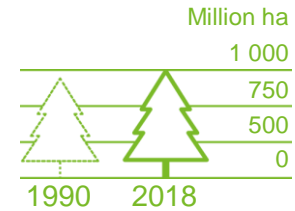
**In Finland alone
150 million
new trees
grow every year**

=



**Doubled growth
in 50 years**

**In Europe, forest
area has grown
17.5 million ha
in 25 years**

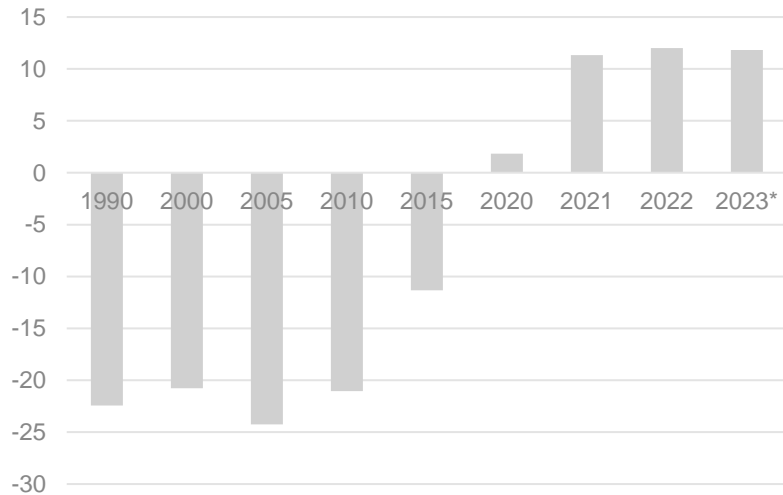


Climate Policy

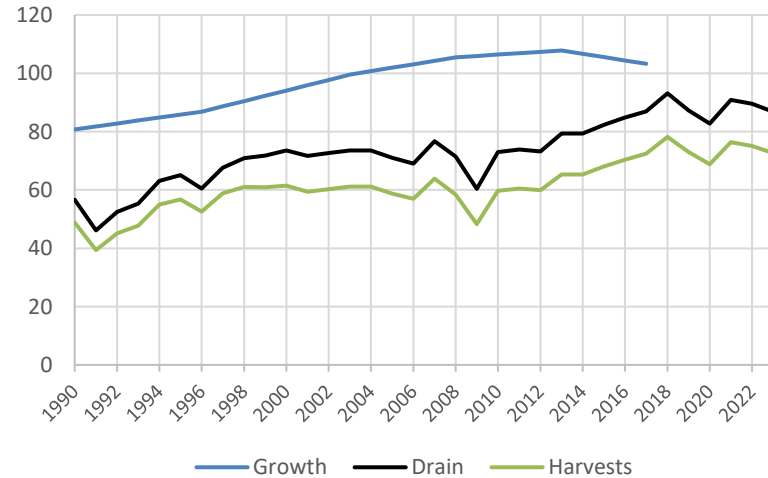
Carbon sinks and harvesting levels in Finland



LULUCF
million tons of CO₂ eq



Forest growth, drain and harvests
in Finland (million m³)



Sources: National statistics authority, Natural resources institute statistics

Efficient use of wood – nothing goes to waste



Fibres to **pulp and paper**

Fibres to **biofibrils and biocomposites**

Logs for **sawn goods and plywood**

Lignin, cellulose and hemicellulose to **biochemicals**

Extractives to **renewable diesel and naphtha or biochemicals**

Bark and branches to **energy**

Our climate commitment



WE ACT THROUGH FORESTS

Committed to climate-positive forestry and enhancing biodiversity



WE ACT THROUGH EMISSION REDUCTIONS

-65% from own CO₂ emissions
-30% from CO₂ emissions of supply chain



WE ACT THROUGH PRODUCTS

Innovative products
Scientifically verifying the climate impact of all our products



SCIENCE
BASED
TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

BUSINESS AMBITION FOR 1.5°C   **OUR ONLY FUTURE**

**THE Paris...
CLIMATE 10 years
PLEDGE Early**

UPM **BIOFORE**
BEYOND FOSSILS

