



# **UPM** today

















#### **UPM BIOREFINING**

Pulp

Biofuels

Sawmills

Hydro-, nuclear-Plantations and condensing power (incl. shares in energy companies) Wood Sourcing Electricity production and Forestry and trading Optimisation services

**UPM** 

**ENERGY** 

#### **UPM RAFLATAC**

Label materials for product and information labelling

#### **UPM SPECIALTY PAPERS**

Fine and specialty papers in China and APAC

Labelling material globally

Packaging papers mainly in Europe

#### **UPM COMMUNI-CATION PAPERS**

Extensive product range of graphic papers for advertising and publishing as well as home and office uses

### **UPM PLYWOOD**

WISA® Plywood and veneer products UPM Grada® wood material

#### **UPM BIOCOMPOSITES**

UPM ProFi **UPM Formi** 

#### **UPM BIOCHEMICALS**

Chemical building blocks Biomedical products Lignin products

#### **UPM BIOMEDICALS**

Growdex

# Global businesses – local presence







54production plantsin 12 countries

19,100 employees in 46 countries

12,000 customers in 120 countries

90,000 shareholders in 35 countries

**25,000** b-to-b suppliers in **75** countries

# Sustainable forestry: This is how we do it



- Our own forests and plantations are 100% certified
- We know the origin of wood
- All fibre we use is certified by 2030 (2017: 85%)
- Unique partnership with FSC International
- Own long-term and global biodiversity programme
- Forests as carbon sinks

- No competing with food production
- No wood from tropical rainforests or plantations established by clearing rainforest
- No operations in areas where the rights of indigenous peoples are threatened















Dow Jones
Sustainability Indices
In Collaboration with RobecoSAM •

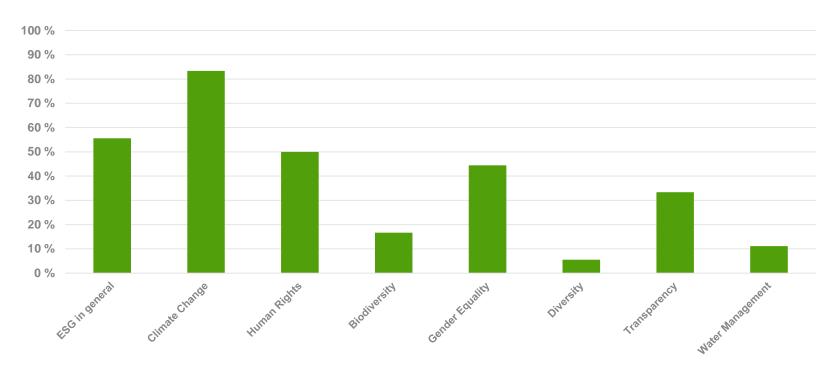






# Climate change is highlighted as a number one responsibility topic among selected investors\*





\*AMF, AP2, ASR Nederland N.V, Norway Government Pension Fund Global, Stichting Pensioenfonds ABP, Storebrand, NBIM, Blackrock, J.P. Morgan, Ilmarinen, Varma, Keva, Elo, Nordea IM, Swiss National Bank, OP, Skagen Global, Evli Fund Management

## Investors are taking concrete actions



- BlackRock (World's largest investment fund, assets USD 6 trillion)
  - "To prosper over time, every company must not only deliver financial performance, but also show how it makes a positive contribution to society," Larry Fink, CEO
  - Climate is a source of portfolio risk. Calculates GHG emissions as a percentage of a company's sales and estimates firms' exposures to income shocks from climate change.
- Norges Bank (World's largest sovereign wealth fund, assets 0.9 trillion)
  - "Companies should plan for relevant climate scenarios and incorporate material climate risks and opportunities in strategic planning, risk management and reporting."
  - Climate change is one of the three responsibility focus areas:
     publishes expectations to, analyses and engages with companies
- Ilmarinen (Finnish pension fund assets EUR 46 billion)
  - Aims for decreasing CO₂ intensity in its portfolio (2016: 354 t CO₂/1m€)
  - **Excludes** coal-dependent companies (30% of sales, or electricity generation)
  - Invests in companies that benefit from business opportunities related to climate change

# From voluntary disclosure to regulation...

Directive 2014/95/EU















DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

**MSCI** 























**GREENHOUSE** 

GAS PROTOCOL





























## EU sustainable finance proposal to define sustainable economic activities:

- ✓ Contribute substantively to at least one and not significantly harm any of the other environmental objectives;
- 1) climate change mitigation; (2019)
- 2) climate change adaptation; (2019)
- 3) sustainable use and protection of water and marine resources;
- 4) transition to a circular economy, waste prevention and recycling;
- 5) pollution prevention and control; and
- 6) protection of healthy ecosystems.
- √ Follow minimum social and governance safeguards;
- √ Fullfll specific technical screening criteria

#### To be used by:

- A) Member States or the Union when setting any requirements on market actors in respect of financial products or corporate bonds that are marketed or deemed as environmentally sustainable.
- B) Financial market participants offering financial products as environmentally sustainable investments or as investments having similar characteristics. They would have to disclose information on how and to what extent the criteria for environmentally sustainable economic activities are used to determine the environmental sustainability of the investment.

Taxonomy has no behavioral requirements

## What do we need to know and disclose?



- Impact of climate change on the pricing and availability of raw materials, for example:
  - Availability of wood;
  - Delivery problems due to extreme weather conditions;
  - Scarcity of other resources, eg. water.
- Business risk is the main point that investors expect to hear from us
- At least two alternative scenarios, for example:
  - Below 2 (or 1,5) degrees with effective policies: price of carbon, price of carbon sequestration etc;
  - About 4 degrees with increased and severe physical risks.

## What do we want to confirm and disclose?



- Our contribution to the forest carbon balance:
  - Effect of sustainable forest management
  - How we can improve (for example carbon stocks, biodiversity, peatlands)
  - Risks of not managing the forests

- Holistic approach taking into account not only the forest part, but the whole value chain:
  - Products and their alternatives
  - Alternative sources of wood

# Innovating a future beyond fossils

Resources are scarce globally – we need more renewable solutions and recycling. By increasing the forest growth and decreasing the use of fossil fuels we can mitigate the climate change and develop sustainable solutions for the future.



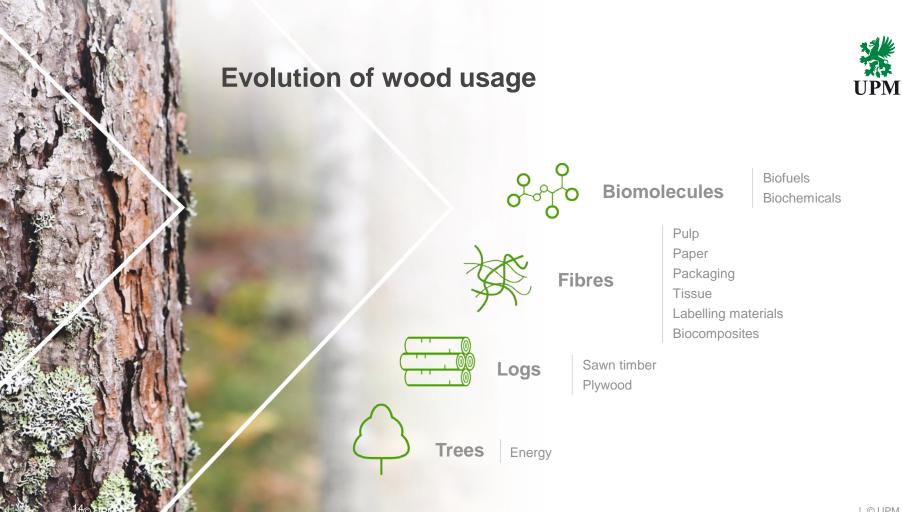
# Limitless opportunities with sustainable forest management



Forests can mitigate global warming while also yielding timber for various uses. Our approach is to increase the forest growth through sustainable harvesting and effective regeneration practices.

- We ensure that our most important resource, wood, grows in sustainably managed forests, which act as carbon sinks.
- We support the growth of highly biodiverse ecosystems that are less vulnerable to the effects of climate change.





# Responsible production

The use of fossil fuels is the main driver of climate change.

We reduce our fossil CO2 emissions by following actions:

- We continuously increase energy efficiency in our operations.
- We enhance resource efficiency by circular bioeconomy solutions.
- We constantly increase the use of renewable, low-emission energy in all our operations.

# Innovative, renewable, recyclable products and solutions



# As bioforest industry leader we are committed to contributing to a healthy, prosperous and balanced future beyond fossils:

- We replace non-renewable materials with renewables with lower emissions.
- We produce and develop products that genuinely act as carbon sinks.
- We innovate new products to meet future needs.



# UPMBIOFORE BEYOND FOSSILS