

UPM 2021:

17 000 employees 9.8 billion EUR sales





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



UPM Timber Certified sawn timber



UPM Forest Sourcing wood raw material for sustainable and recyclable products



UPM Energy Low-emission electricity generation of hydro, nuclear and thermal power



UPM Raflatac Self-adhesive label materials for promotion, information and functional labelling



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



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

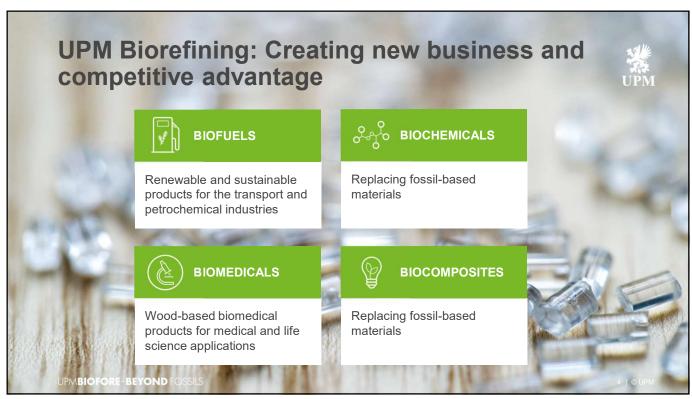


UPM Plywood Plywood and veneer products for construction, vehicle flooring and LNG shipbuilding

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Strong financial position Comparable EBIT Comparable ROE Net debt EURm EURm Net debt Net debt/ EBITDA (x) and leverage 1.600 14 4.500 3,0 1.400 Target: EBIT growth 2,5 3.750 Target: 10% 1.200 10 3.000 2.0 1.000 Policy: ≤ 2x 800 2.250 1,5 600 1.500 1,0 400 750 0,5 200 0,0 2009 2011 2013 2016 2010 2012 2014 2016 2018 2020 UPMBIOFORE-BEYOND FOSSILS 6 | © UPM



It's a material world



WHAT WE OFFER



A sustainable and healthy lifestyle – Meeting daily consumer needs



Innovation for a better future – Replacing fossil fuels and materials



Building better – Lowcarbon construction



Driving the transition – low-emission energy

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Sustainable choices



HOW WE MAKE A POSITIVE IMPACT



Enabling sustainable Consumer choices



Mitigating climate change



Improving biodiversity



Advancing a circular Bioeconomy

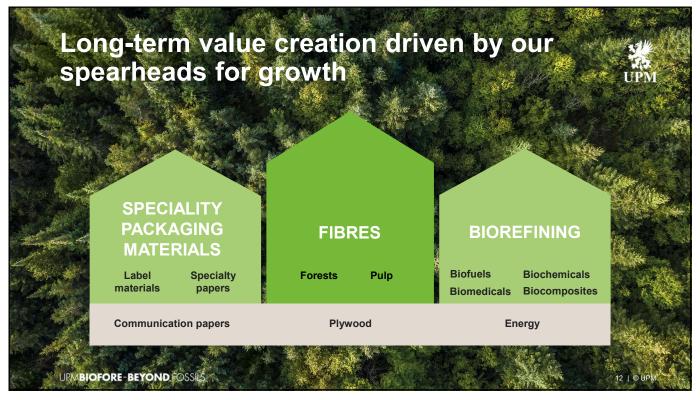
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Implementing biorefineries at different maturity levels



Mature Businesses



UPM Pulp known feedstock, known technology, known markets

Cost leadership Economies-of-Scale



UPM Biofuels new feedstock, known technology, known markets

Increasing capacity



UPM Biochemicals new feedstock, new technology, new markets

Market/Technological risk mitigation



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UPM Paso de los TorosWorld-class pulp mill

USD 3.47 billion investment in Uruguay





Pulp mill and deep seaport terminal in Montevideo Jobs and other opportunities for the residents of the region



Pulp is used in tissue, specialty and packaging papers, for example



Total annual capacity of 2.1 million tonnes of eucalyptus pulp



Scheduled to start up in Q1 2023

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Progress in UPM Paso de los Toros and the Montevideo port















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Moving forward with biofuels growth plans

Basic engineering phase of a next generation biorefinery



Potential industrial scale biofuels biorefinery



Products would significantly reduce carbon footprint in the road transport and aviation

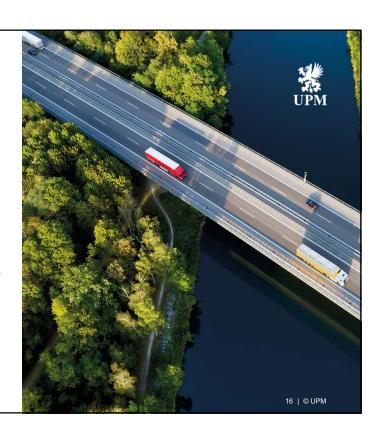


Capacity would be 500,000t of renewable fuels incl. sustainable jet fuel



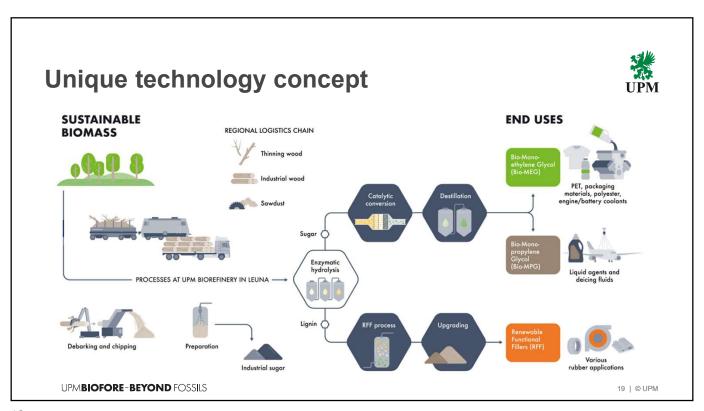
Potential investment in Rotterdam, the Netherlands.

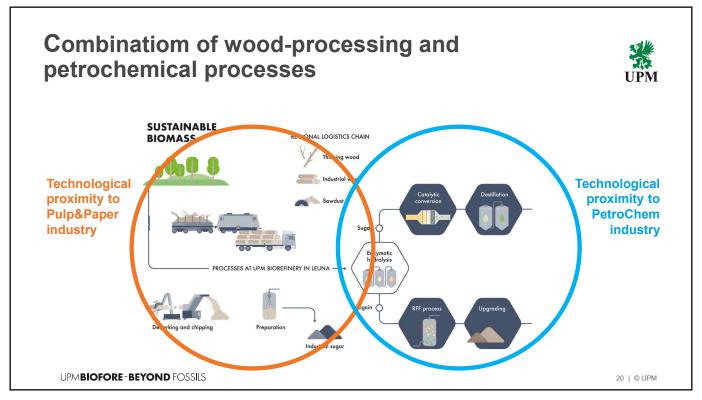
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Large volume renewable chemicals for commodity markets





Functional Fillers (RFF)



"Drop-in" chemical

Approx. 60% CO₂ reduction

Market demand: 30 Million tons/a

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New product alternative for carbon black

Approx. 90% CO₂ reduction

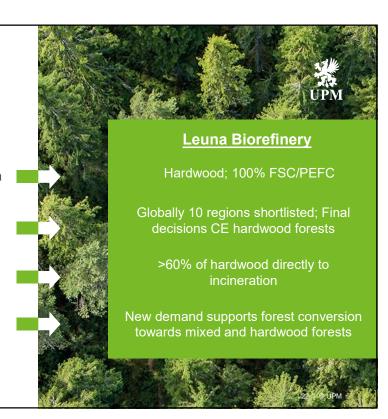
Market demand: 14 Million tons/a

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Simplified biomass checklist

- Define suitable type of biomass (technical limitations) and required sustainability criteria (e.g., FSC/PEFC)
- Screen areas providing long-term enough of the selected biomass (logistic and economic limitations)
- How is the biomass used today? Which end use will be replaced?
- What is the long-term ecological impact on changing that use?



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Attractive location and efficient value chain



- CO₂-light energy supply concept
- Total site costs and expansion possibilities
- Utility integration costs
- On-site synergies, e.g., side-stream integration
- Logistics flexibility
- Biomass/Customer proximity
- Country/Regional risk mitigation
- Funding opportunities



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