

UPM's growth in pulp

Investor webcast

13 December 2022

Agenda

Pulp market and demand growth

UPM growth project in Uruguay

Commercial strategy driving growth





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UPMBIOFORE-BEYOND FOSSII

Growth outlook for pulp is based on solid, long-term megatrends



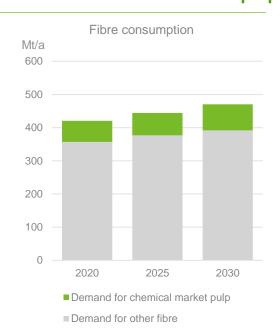
Global megatrends...

...will outlast transient disruptions and shocks...

...and drive the demand for pulp

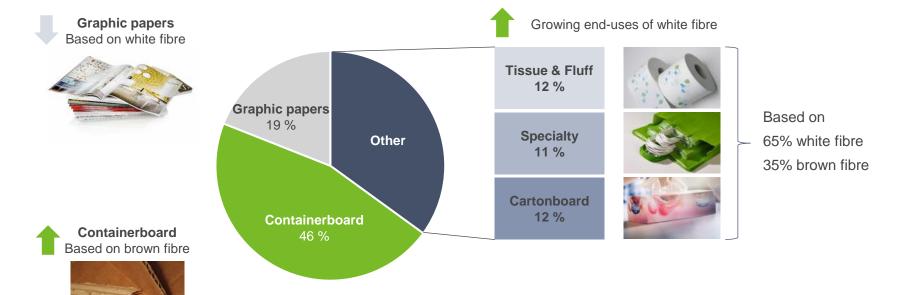






Market pulp consumed in growing end-uses – alternative white fibre demand overcoming graphical paper decline

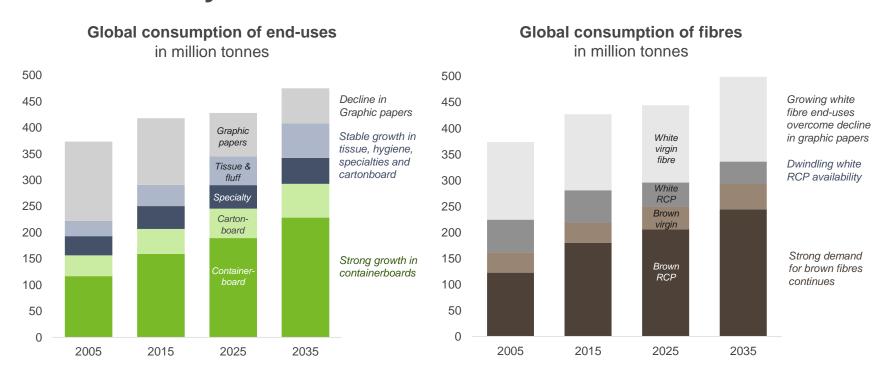




Total fibre consumption (2020): 421 million tonnes

COVID-19 shocked the world, but fibre consumption growth has resumed and will continue in years to come





Moderate numbers of decided projects in the short-term and expansion mainly in BHKP



Entry of bleached market pulp capacity

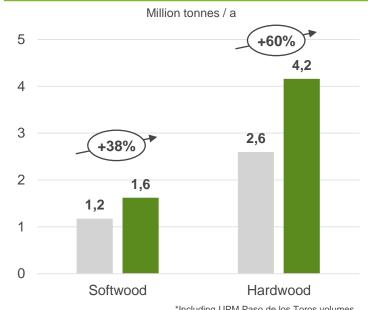




Product mix development

- Increased share of softwood in the Finnish pulp mills
- Demand for softwood is solid, driven by its performance in furnish and increasing overall demand for fibre-based products
 - Birch hardwood becoming specialty product for applications which benefit from its functionalities
- Hardwood capacity increase through the UPM Paso de los Toros mill

UPM Pulp operations product mix change*



*Including UPM Paso de los Toros volumes

UPM

Balanced production



FRAY BENTOS

- 1.3 million t/a Eucalyptus
- 8% of energy generation in Uruguay
- 800+ people working at mill



KAUKAS

- 700 000 t/a Nordic softwood
- Unique integrated bio-forestry unit consisting of pulp mill, sawmill, biorefinery and energy & paper production



PASO DE LOS TOROS

- 2.1 million t/a Eucalyptus
- Start-up Q1/2023
- State-of-the-art machinery and processes



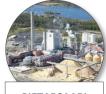
KYMI

- 870 000 t/a Nordic softwood and birch
- Modern integrated mill consisting of bleached pulp and fine paper production



FOREST OPERATIONS

- >500 000 ha of plantations In Uruguay
- 10-12 years per rotation
- 30 years experience of sustainable managed and productive plantations



PIETARSAARI

- 800 000 t/a Nordic softwood and birch
- Mill area houses pulp mill, sawmill and Alholmens Kraft power plant



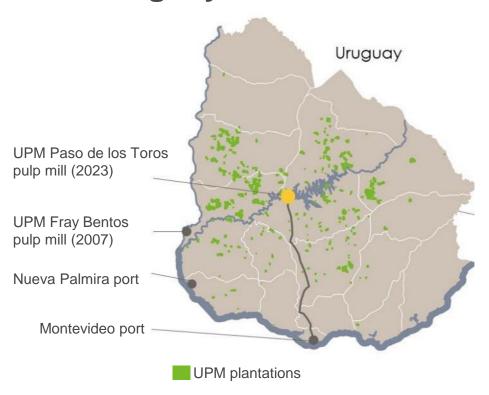
(UPM Paso de los Toros update video)

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UPM in Uruguay





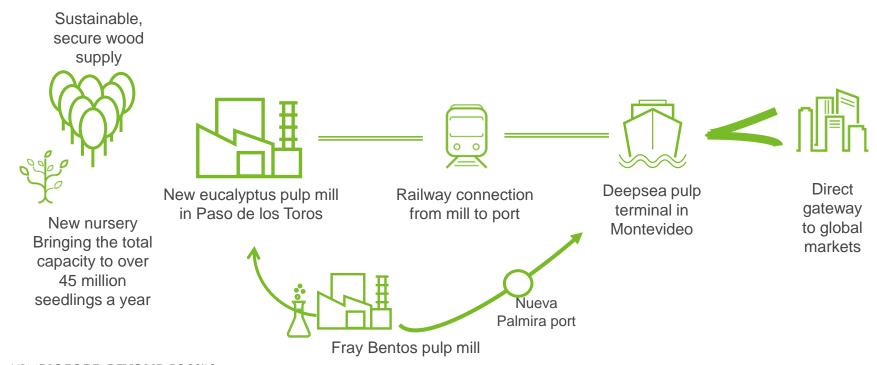
- UPM in Uruguay since 1997
- 4, 000 people*10,000 employed in total through the value chain**
- 1st pulp mill started in 2007 in Fray Bentos
- 2nd pulp mill scheduled to start up in Q1 2023 in Paso de los Toros
- > 3 eucalyptus tree nurseries
- >500,000 ha of plantations

^{*)} Direct employees of UPM and UPM contractors

**) After UPM Paso de los Toros start-up.

A new highly competitive industrial platform with secure wood supply and efficient logistics





Competitive wood supply



Eucalyptus availability secured through UPM's own and leased plantations and wood sourcing agreements with private partners

UPM's own and leased plantations in Uruguay cover over 500,000 hectares, supplying both UPM Fray Bentos and the new Paso de los Toros mill

30 years experience of sustainably managed and productive plantations



State of the art mill design



Initial production capacity of 2.1 million tonnes of eucalyptus pulp scheduled to start up in Q1 2023

World-class single line pulp mill and Best Available Techniques (BAT)

- Excellent safety
- Proven high environmental performance
- · High availability and maintainability
- High energy output, surplus renewable electricity
 110 MW
- Low costs



Efficient logistics set-up



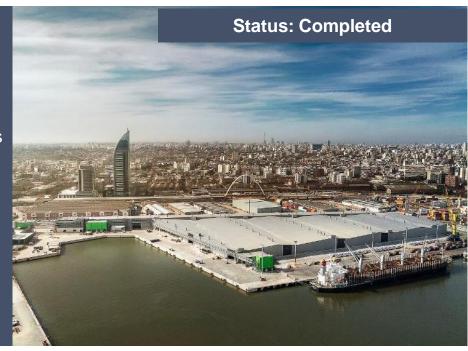
USD 280 million investment to a deep sea pulp terminal in Montevideo port

- Direct rail access from the mill with 4-6 trains/day + 1 chemical train/day to the mill
- Operating 24/7
- >50,000 m warehouse for ~2 million pulp tonnes
- Deep sea port with 100 pulp ships a year
- → Direct, efficient access to global markets

Railway modernisation

Public-private-partnership agreement by the government and the construction company

Road improvements



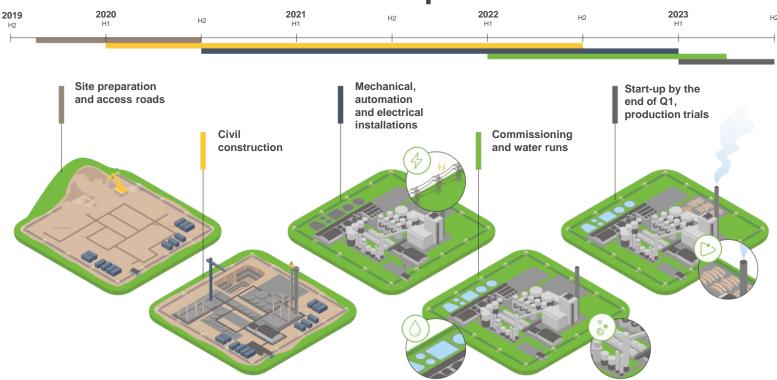


(Pulp terminal video with the first ships)

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UPM Paso de los Toros mill: Commissioning proceeds at intense pace while construction works taper down



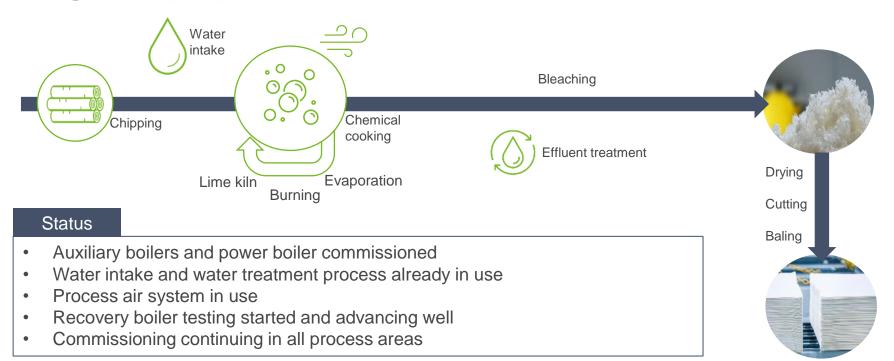






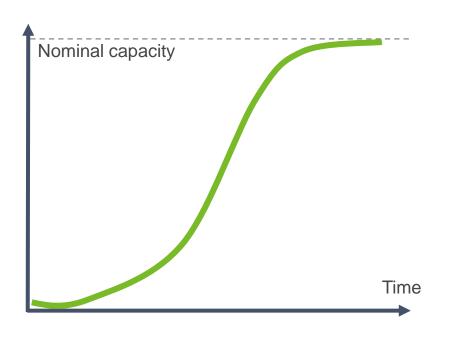
Commissioning process tests and secures all stages of pulp production before the start-up







Start-up phase has a solid foundation



- Pulp production process creates a steep ramp-up curve
- Key objective is to achieve stable production and quality
- Successful start-up supported by
 - Experienced team
 - Known technology and supplier
 - Proven raw material base

World class cost competitiveness with expected cash cost level of \$280



Cash cost structure*

Indicative cost structure of new pulp mill, delivered to Shanghai, China



- Average yield by hectare
- Distance/transportation cost to mill



- · Economies of scale
- Sourcing
- Energy cost and revenue
- Long-term contracts



- Direct train connection
- Deep sea port
- Long-term contracts

Wood cost

Production and logistics costs

*per delivered tonne of pulp, including variable and fixed costs of plantation operations, wood sourcing, mill operations and logistics delivered to the main markets Source: UPM



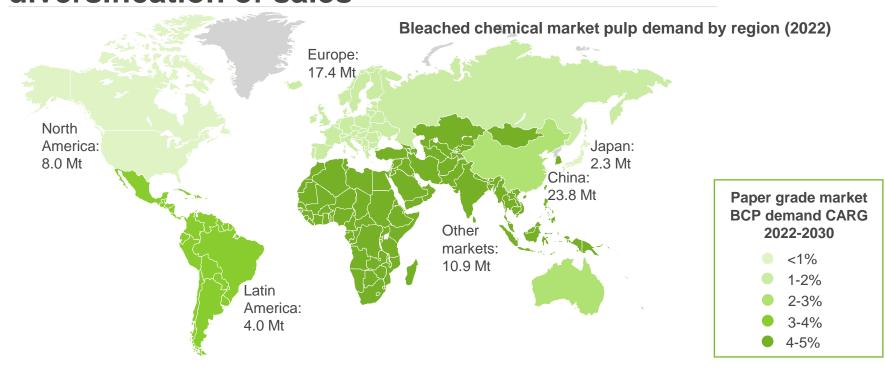
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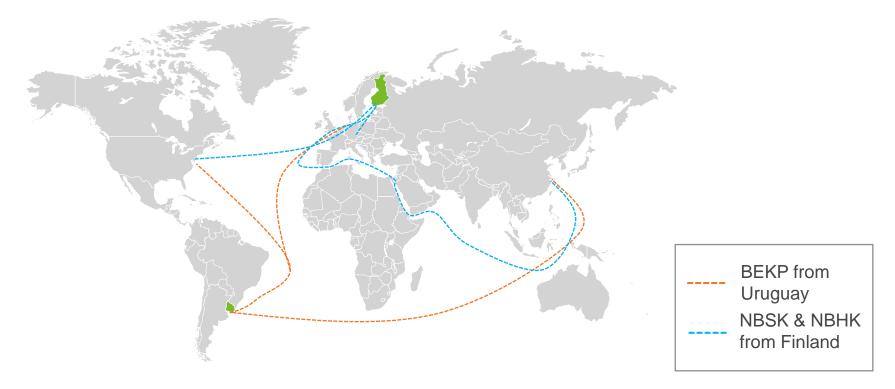
The global south is the engine for pulp demand growth -rise of other APAC enables diversification of sales





UPM has built a world-class global pulp supply network originating from Uruguay and Finland







SOLID VALUE PROPOSITION

SERVING FUTURE WINNERS

STRONG VALUE CREATION

QUALITY TO TRUST

SERVING MULTIPLE END-USE SEGMENTS

GLOBAL APPROACH WITH FOCUS ON APAC, EUROPE & NA

READINESS FOR 6MT SALES

LONG TERM
PROFITABILITY

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