

PUMA II PROJECT

UPDATE







The statements contained in this presentation are forward-looking projections. Such statements are exposed to known and unknown risks and uncertainties that may cause these expectations not to materialize or to differ materially from those anticipated.

These risks include, among others, alterations in the future demand for the Company's products, changes in the factors that impact the domestic and international prices of products, changes in cost structures, changes in the seasonality of markets, changes in the prices charged by competitors, exchange variations, changes in the political-economic scenario in Brazil, in emerging and international markets.

Klabin cannot give any certainty as to the fulfillment of the expectations presented.











→ PUMA II Project



1st phase of the project near to be completed and 2nd phase with higher value creation

1st Machine (PM 27)



Startup planned for JULY/21

OVERCOMING the pandemic challenges

and in a very
POSITIVE market
scenario

2nd Machine (PM 28)



Production change from kraftliner to COATED BOARD

with HIGHER shareholder value generation

PM: Paper Machine

1st Machine











Startup of the new machine in ideal market conditions

Expectation of a strong recovery in the global economic Global GDP Growth

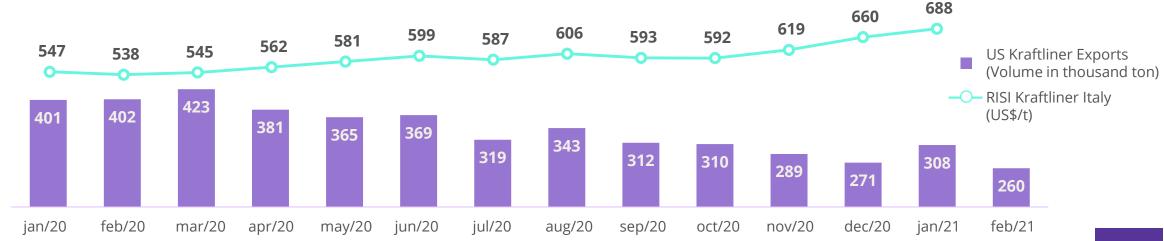


Heated demand for corrugated boxes

Brazil expedition - Volume (million ton)



Decrease in the US kraftliner exports driving the price increase





→ 1st Machine

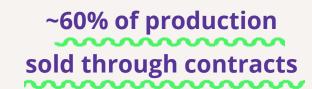
Hot market and most of the production allocated in contracts





Capacity: 450 thousand ton/year¹

Fibers: 100% Short Fiber



Type: Eukaliner® + Eukaliner® White (20% of the capacity) Low/Medium Grammage (90 to 200 g/m²)

→ Eukaliner® Differentials



Innovative product tested and approved by customers worldwide

First kraftliner made from 100% eucalyptus fiber



>10% of grammage reduction



Better printability



Eukaliner®

awarded in Packaging Innovation by the PPI Awards, Fastmarkets RISI





More sustainable



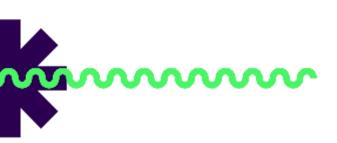
Stronger structure



Higher performance and energy and vapor savings

Tested and Approved

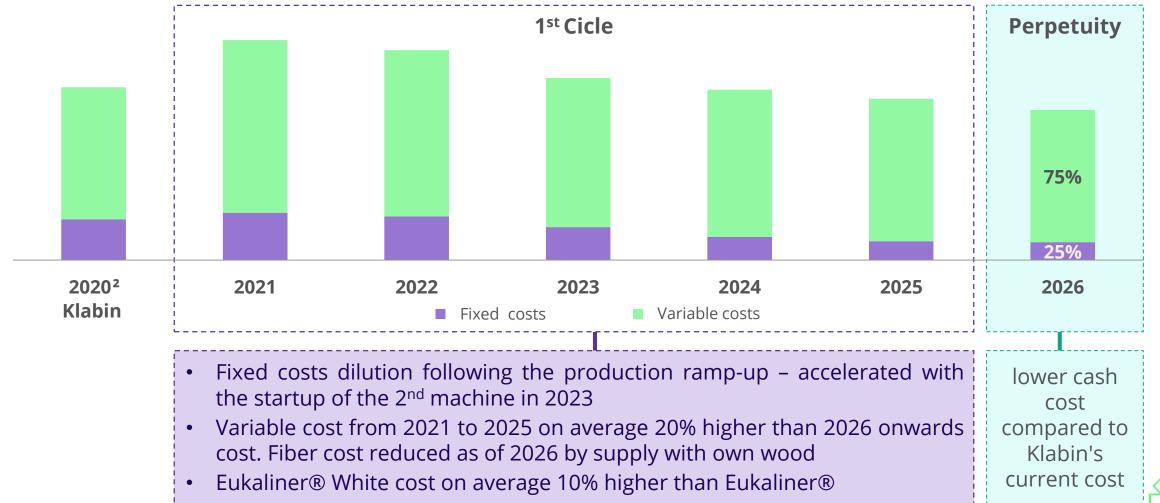
for customers worldwide structure, performance and grammage reduction



→ Eukaliner® Cash Cost (R\$/ton)¹



Lower production cost compared to Klabin's current assets



2nd Machine

From Kraftliner to Coated board







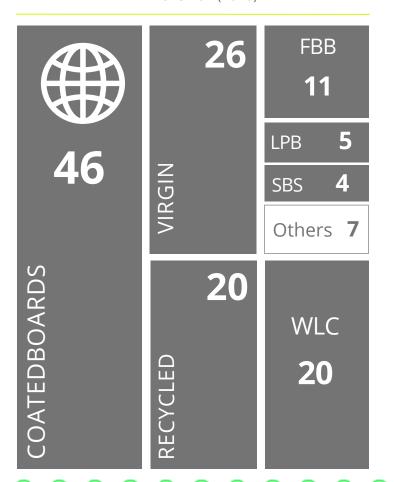
→ Coated board Market Worldwide



Strong growth expected in the main markets served by MP 28

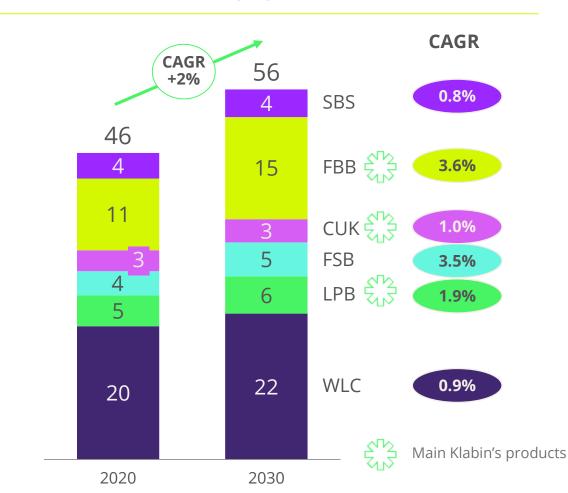
Fiber and Paper Breakdown

Millions Ton (2020)



Growth Projection

Million Ton



→ Coated board Market Growth Drivers



Several drivers support the strong growth expected for the coated board demand



Income increase



Urbanization, speed and praticity

Trend of increased consumption through delivery and to go food



Substitution of single-use plastic

Coated board as the main beneficiary of the movement to replace the use of plastic



Renewable and premium packaging

Growing concern with the consumption of sustainable products



Packaging as a marketing tool

First contact point between the client and the brand



Legislation

Recycled paper banned for use in food boxes

Coated board market requires more technology, processes and technical approval



LPB (Liquid Packaging Board): used in liquid packaging



FBB (Folding Boxboard): used in food packaging

→ High-quality virgin fiber coated board gaining market share



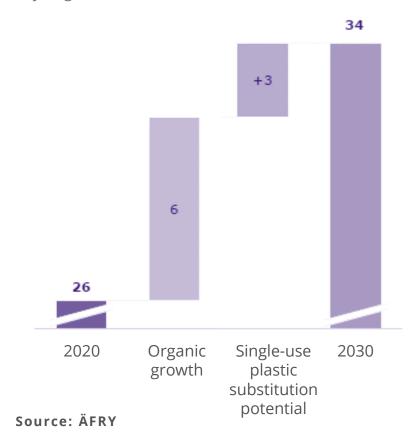
High potential for single-use plastic substitution

Several single-use plastic alternative ads



Single-use plastic substitution potential for global coated board demand

Only virgin fibers (Million ton)



→ 2nd Machine



Flexibility to produce Coated board and/or Kraftliner with higher value creation



PM 28

Capacity: **460** thousand ton/year¹

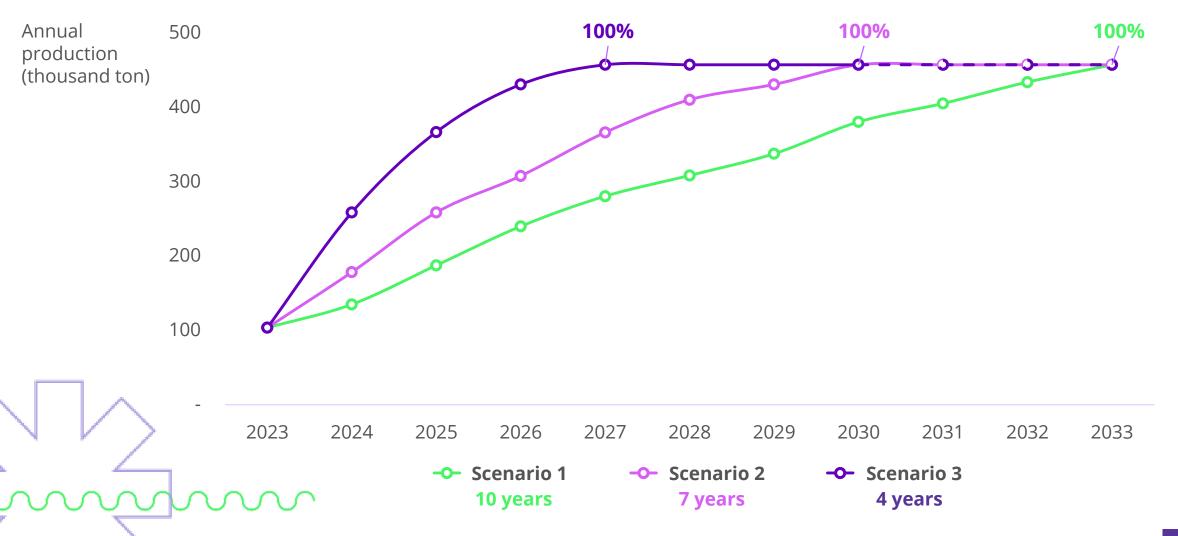
Type: Coated board (LPB²/Folding/Carrierboard) and/or Kraftliner Possibility to produce white coated board without considerable modifications in the unit Medium/High Grammage (150 to 350 g/m²)



→ Incremental Coated Board Production Scenarios



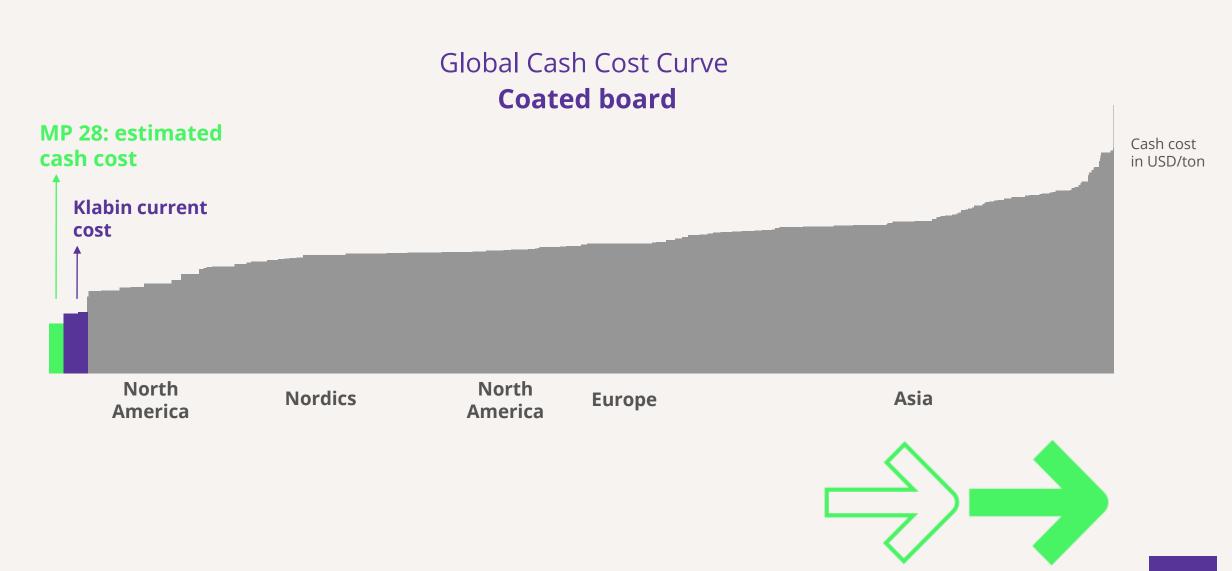
Coated board flexibility production ramp-up depending on market conditions



→ Coated board Cash Cost



High competitiveness and production cost efficiency



PUMA II Project



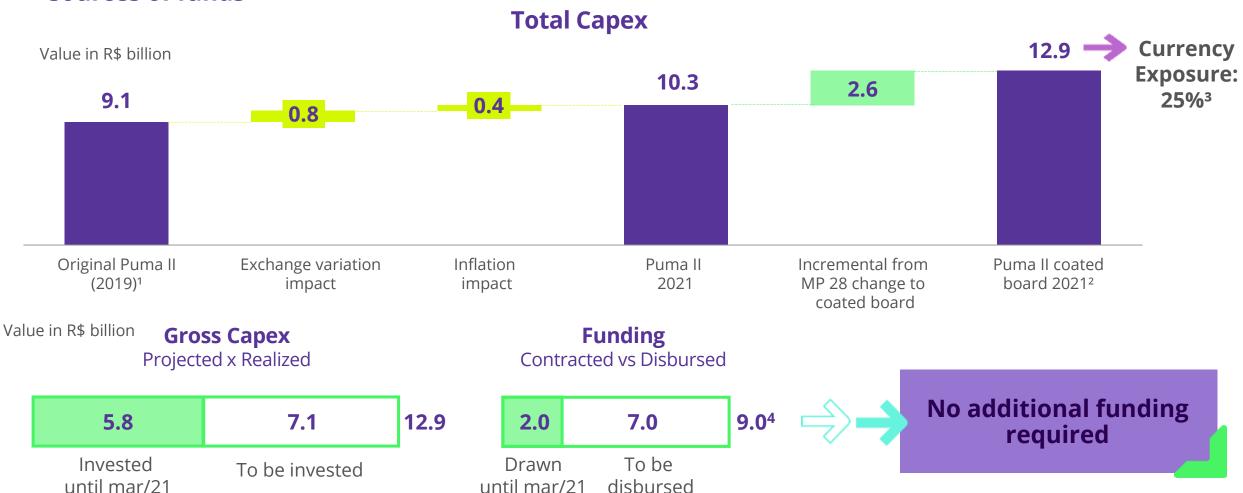




→ Investments & Resource Sources



Current cash position and cash generation from current business will be the main sources of funds

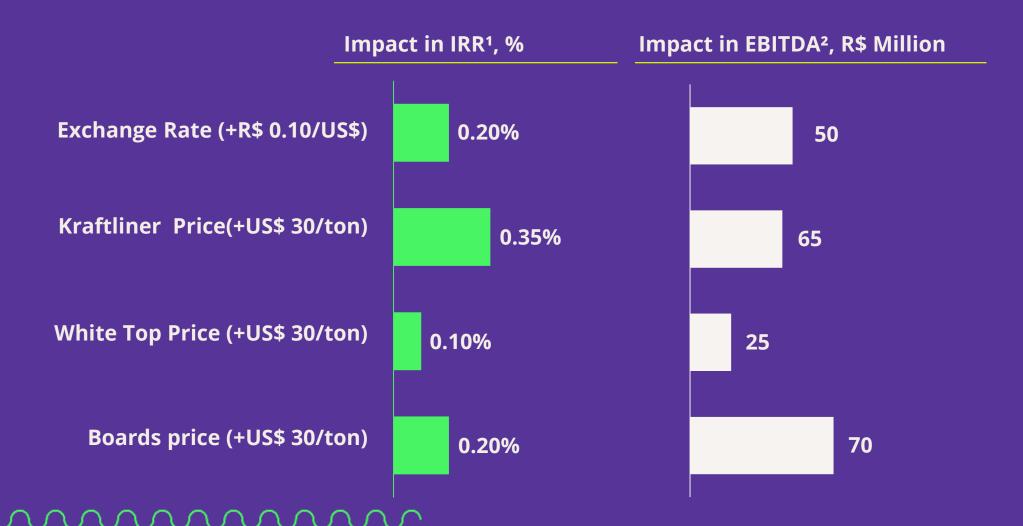


^{1 -} Original Capex in real terms base 2019 at RS\$/US\$ 3.66 readjusted to 2021 basis at RS\$/US\$ 4.90; 2 - Of this amount around R\$ 1.2 billion refers to tax credits; 3 - Referring to the complete project; 4 - Financing from BNDES (R\$ 3.0 bn), FINNVERA (R\$ 1.3 bn) and IDB INVEST/IFC/JICA (R\$ 4.2 bn) considering the US\$/R\$ rate at the end of the period.



Sensitivity Analysis (PM 27 + PM 28)





^{1 -} IRR refers to the whole project; 2 - Considering total capacity of the two machines without creep capacity, 1st machine producing 80% kraftliner and 20% White Top Liner and the 2nd machine with 100% of the coated board production volume and exchange rate of R\$ 4.93/US\$

→ Klabin after Puma II



Growth with the maintenance of the integrated, diversified and flexible business model

FIBERS TOTAL CAPACITY TOTAL 578 4.7 4.7 mn ton/y1 k ha k ton/y **BLEACHED PULP 1.6 mn** ton/y **PULP** 1.6 SHORT FIBER LONG FIBER/FLUFF 211 2 0.5 mn ton/y k ton/y 1.1 mn ton/y **PLANTED FORESTS** INTEGRATED PULP PAPER **3.1 mn** ton/y PACKAGING **1.2 mn** ton/y **EUCALYPTUS PINUS** 156 114 CORRUGATED **INDUSTRIAL** 2.7 COATED BOARDS BOXES **BAGS** k ha k ha 1.2 mn ton/y mn ton/y 175 1.1 mn ton/y k ton/y CONTAINERBOARD 1.9 mn ton/y OCC. **425** k ton/y

→ Puma II Project

Klabin

Project reinforces the Company's unique attributes

Value Creation

2nd Machine with coated board production ensures **growth** with greater **value creation** to shareholders

Innovation

Advances in **biobarriers** application for new uses of coated board and **Eukaliner®**, the world's first kraftliner produced with 100% eucalyptus fiber

Sustainability

Less land needed, substitute products for single-use plastic, reduced water consumption and energy from renewable sources

Resilience

Diversified product portfolio and integration ensures **flexibility** and less volatility of results









INVESTOR RELATIONS

www.klabin.com.br/ir
invest@klabin.com.br
+55 (11) 3046-8401



