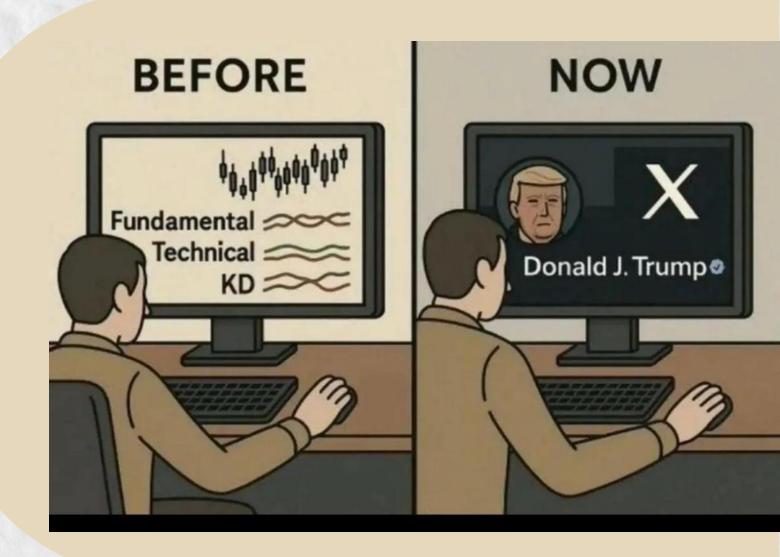
# Structural Changes in the Market Pulp Landscape Milan Pulp Week

## TTO BMA

May 2025

### **Analysis at TTOBMA**

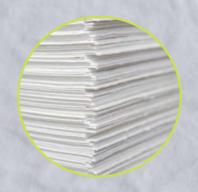


BREAKING: Vatican to be remodeled after American pope selected



#### TTO BMA

### Themes



1. Global fiber furnishes are changing



2. Industry is consolidating, and power centers are shifting



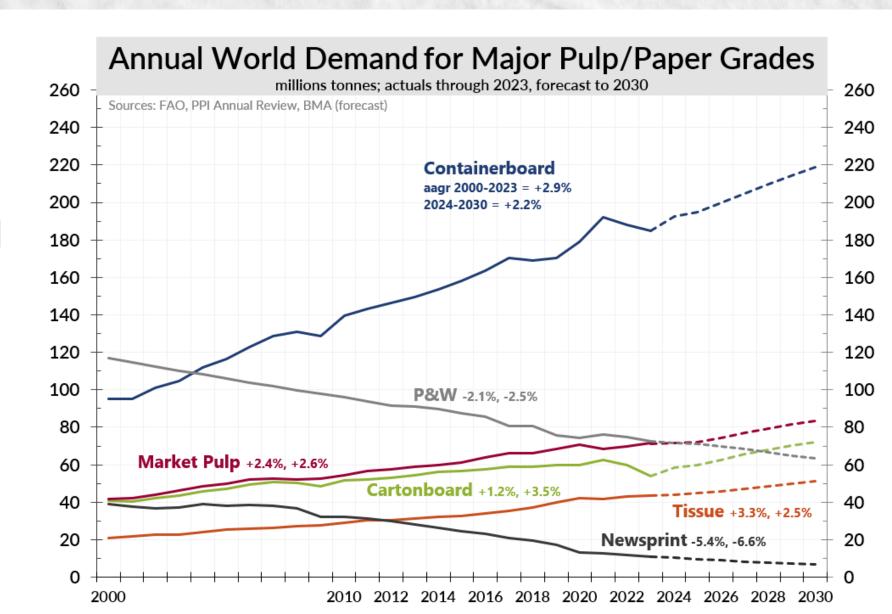
3. Hardwood pulp is increasingly dominating share of paper furnish

### **P&W Consumption**



#### **Paper Demand Growth**

- P&W has shrunk
- Containerboard and tissue have grown
- Market pulp has continued to grow

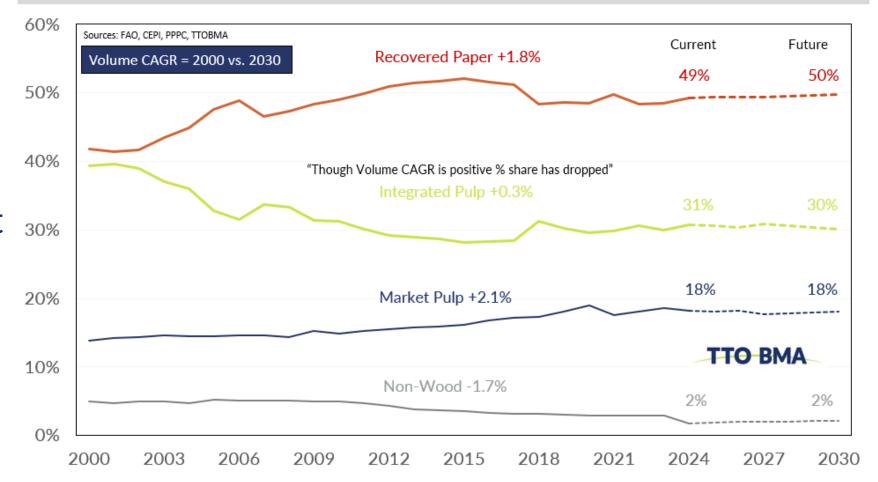


#### Paper Furnish

- Recovered paper shrank after China ban
- Integrated pulp started increasing but likely to slow as wood supply becomes constraint

#### World Paper & Paperboard % Share of Fiber Furnish

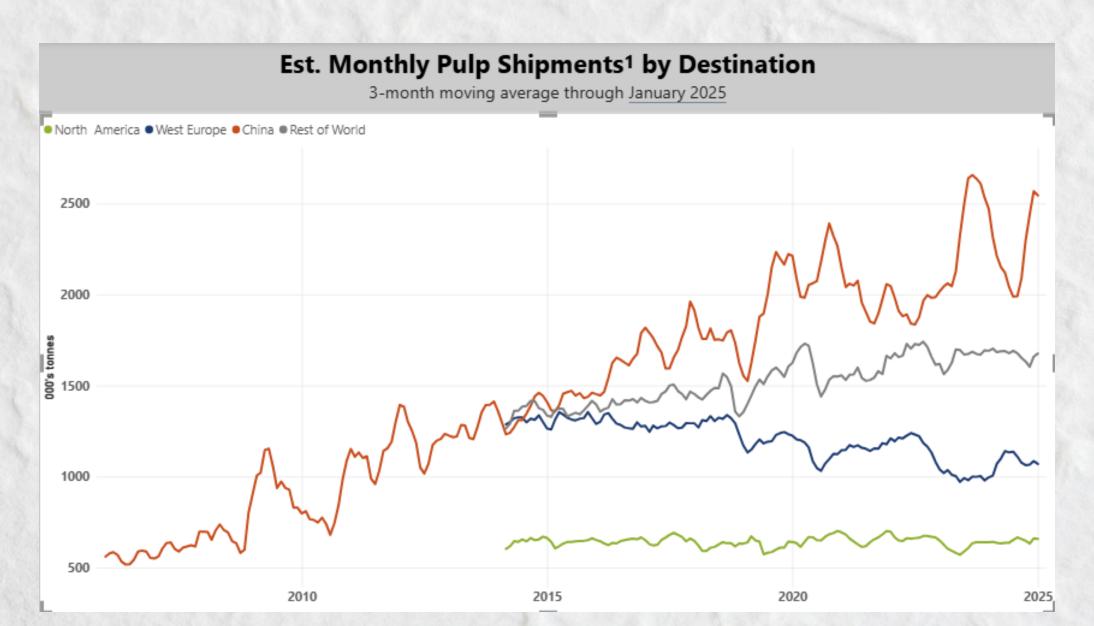
Million MT, 2000 to 2030





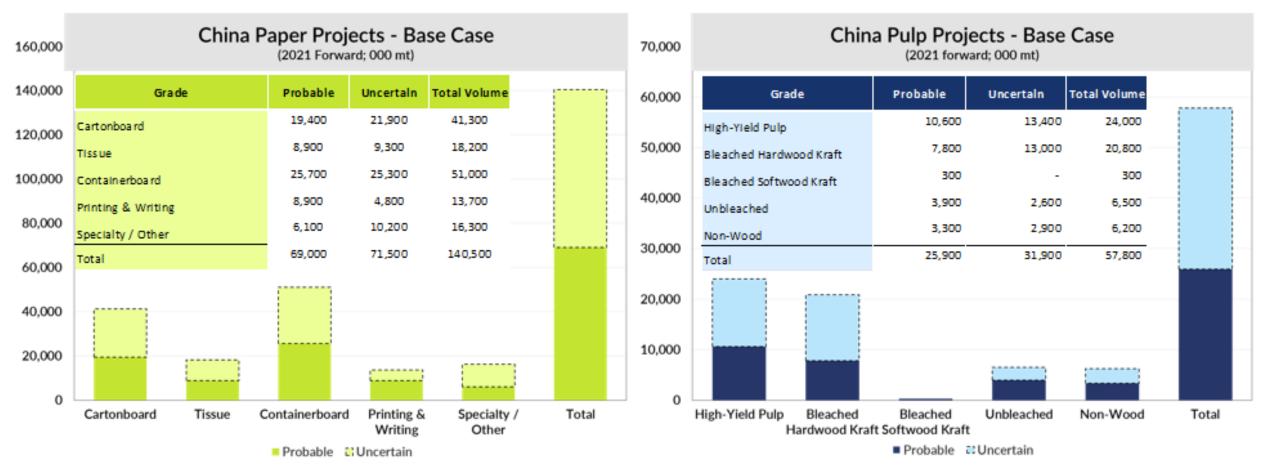
#### TTO BMA

### China's market pulp growth



#### China Pulp & Paper Growth

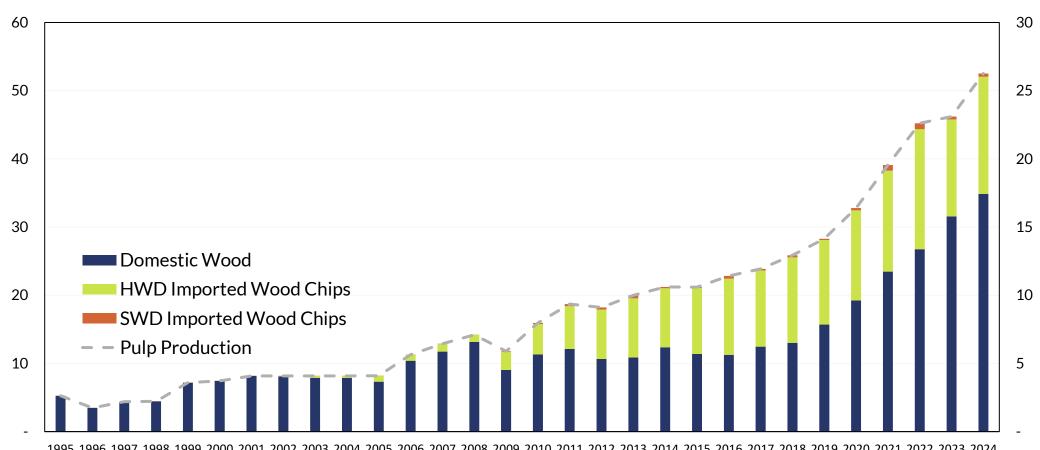
China has been building out a significant amount of new pulp & paper projects. Wood availability for domestic pulp production will determine market pulp growth



#### China Pulp & Paper Growth

#### **Historical China Pulp Production & Wood Usage**

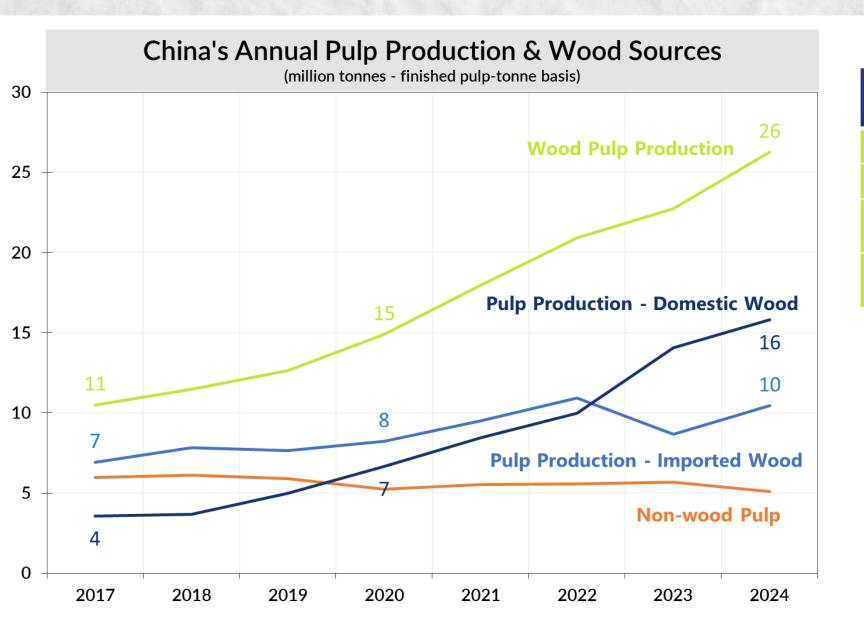
Million BDMT/Y, 1995 to 2024



1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024

#### TTO BMA

### China Pulp & Paper Growth



MM mt	2020	2024	2027 B	2027 H
Wood Pulp	15	26	27	32
Non-Wood	5	5	6	6
Imported Wood	13	18	18	20
Domestic Wood	11	27	28	35

Wood availability will drive ultimate production volumes in China.

11 MM mt incremental growth, 15% CAGR since 2020

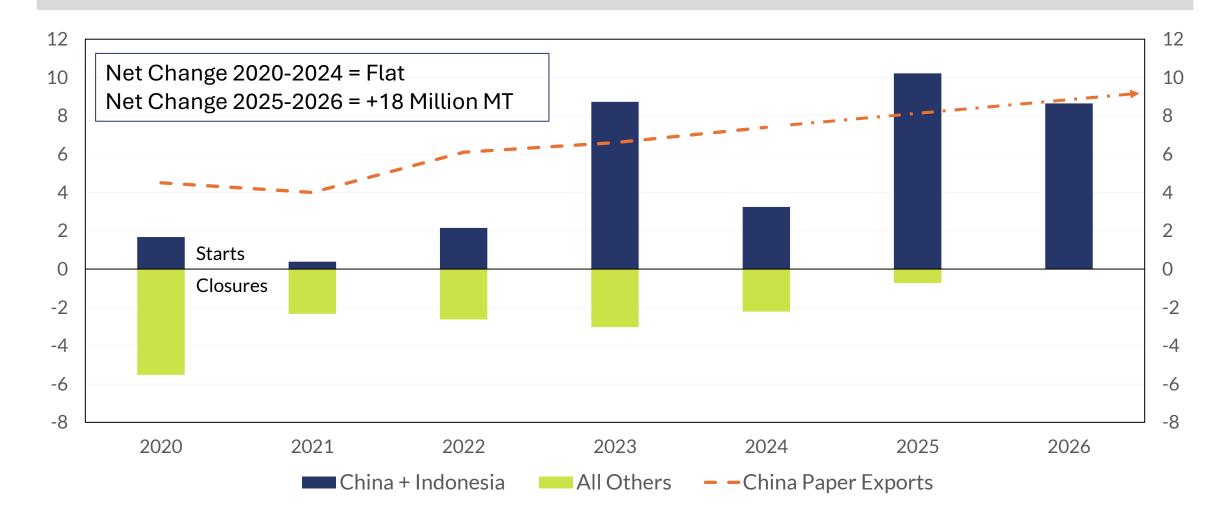
2024 had 3 MM mt increase, driven in part by:

- Poor construction markets in both China and Vietnam
- Pulp prices above \$550/mt

### Integrated Pulp Growth

Net Balance Integrated Pulp -> China + Indonesia vs. Rest of World

Million MT (Both Axes), 2020-2026



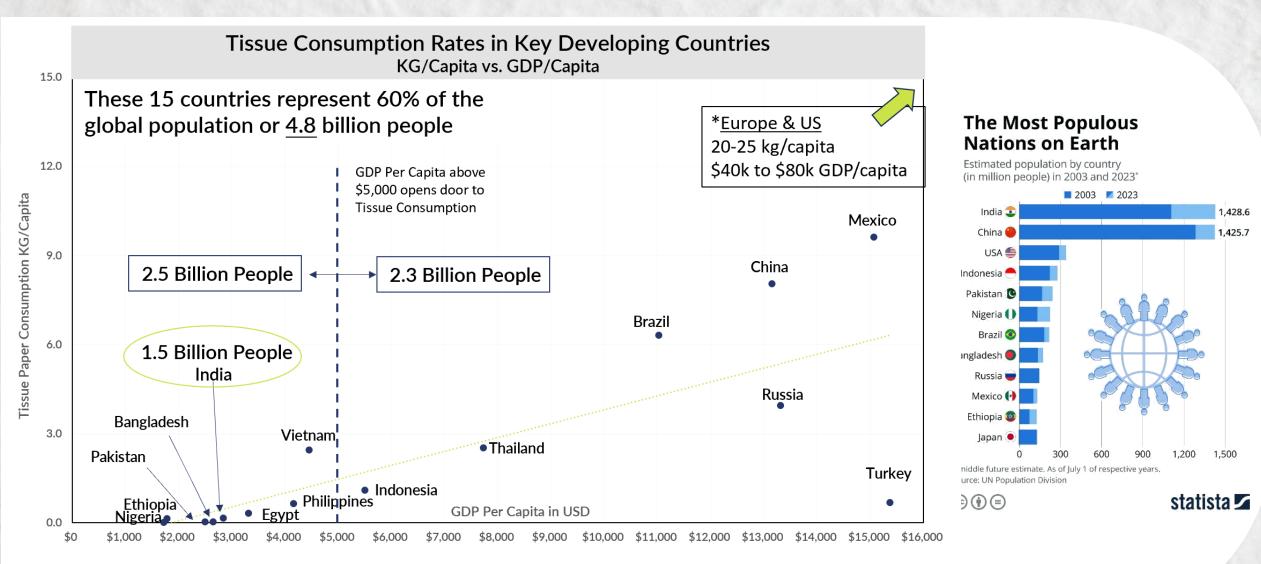
### Capital Requirements?

#### TTO BMA



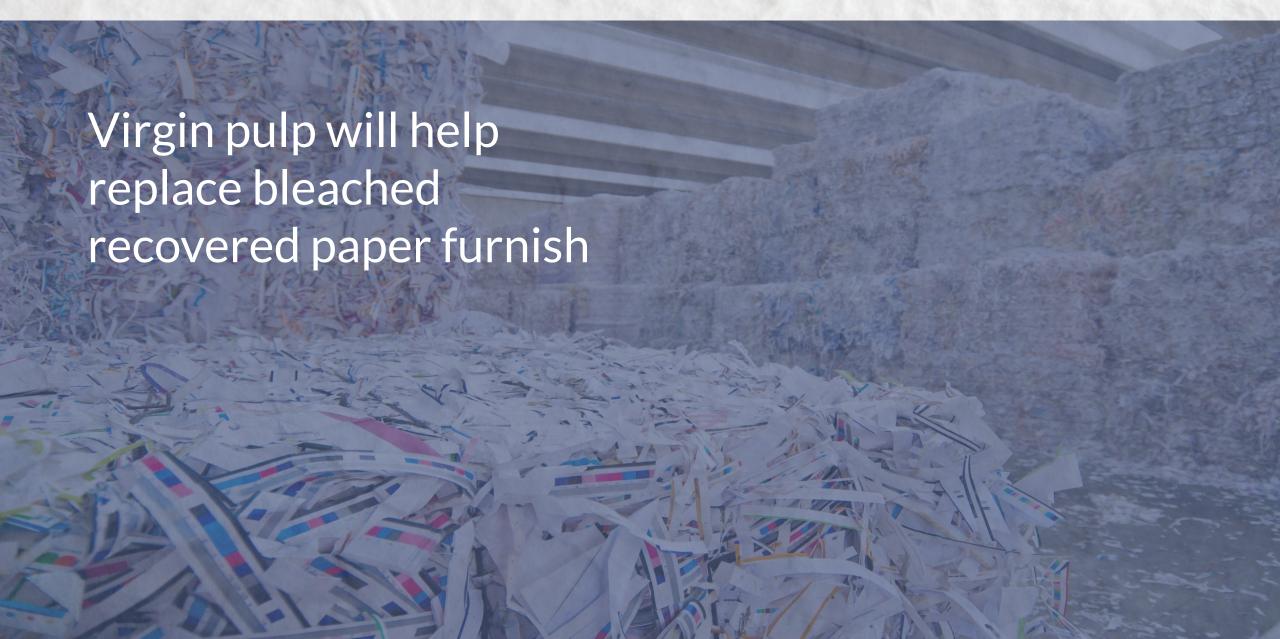
#### **Population Growth**

#### TTO BMA



Nearly 40% of the global population does not use Tissue/Hygiene products
Tissue at high penetration could grow from 40 Mmt to 100+, TTOBMA base case is 60 Mmt

### Less P&W Recovery



#### Consolidation

- The largest companies are getting larger
- More of them are based in the Asia or Latin America
- Many of the largest have recently started new mills or have projects in the pipeline



### **Industry Consolidation**

- Smurfit / WestRock
- IP / DS Smith
- RGE / Vinda
- Suzano / Pactiv
- KC International?
- IP Pulp?



#### Demographics

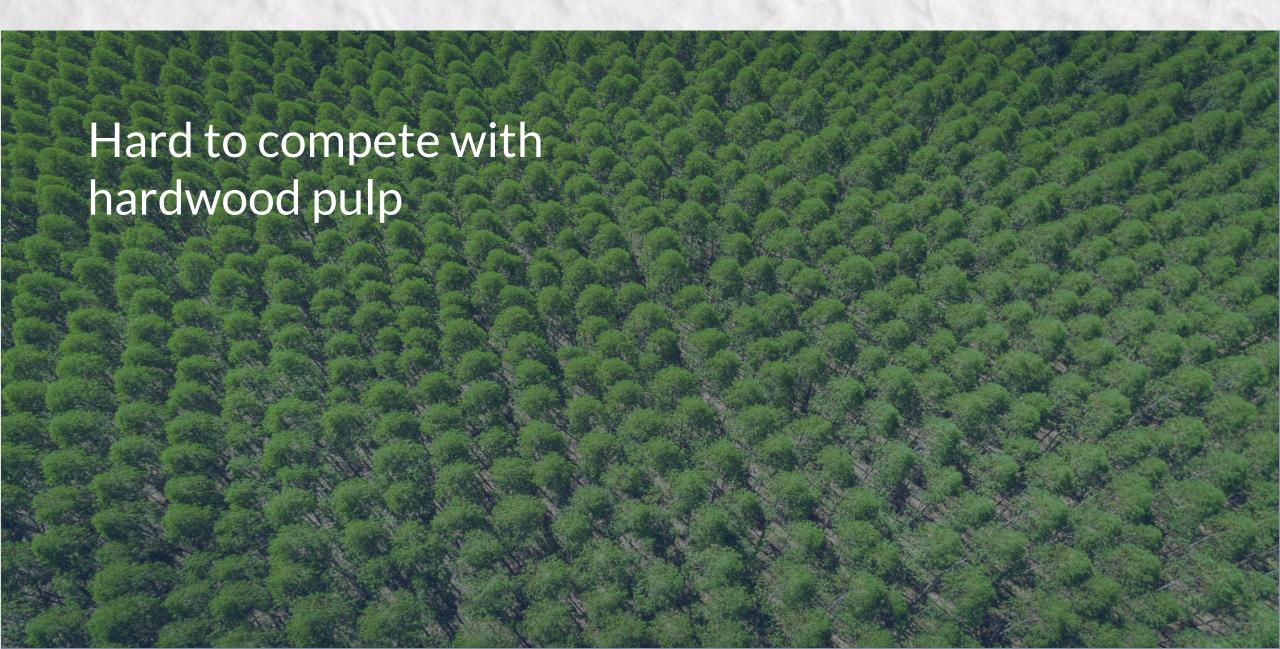
#### Predicted demographics

May 6, 2025 - May 8, 2025 • Excludes Apple MPP



Developing talent is major issue







Yield (M³/ha/yr)

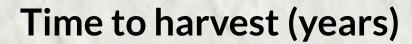






















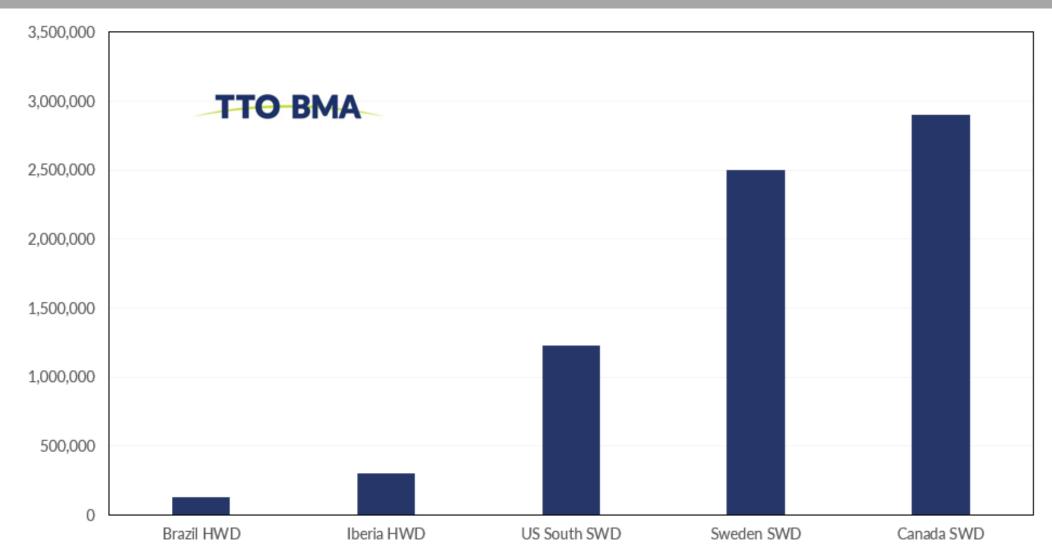




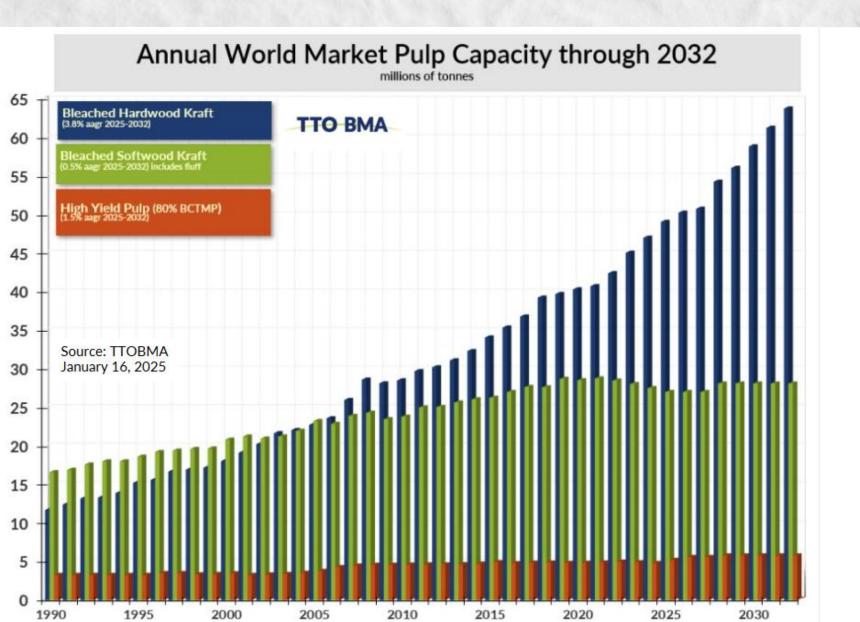


#### Scale of Mills

#### Exponential Difference in Land Area Required between Hardwood & Softwood



### **BHK Expansion**

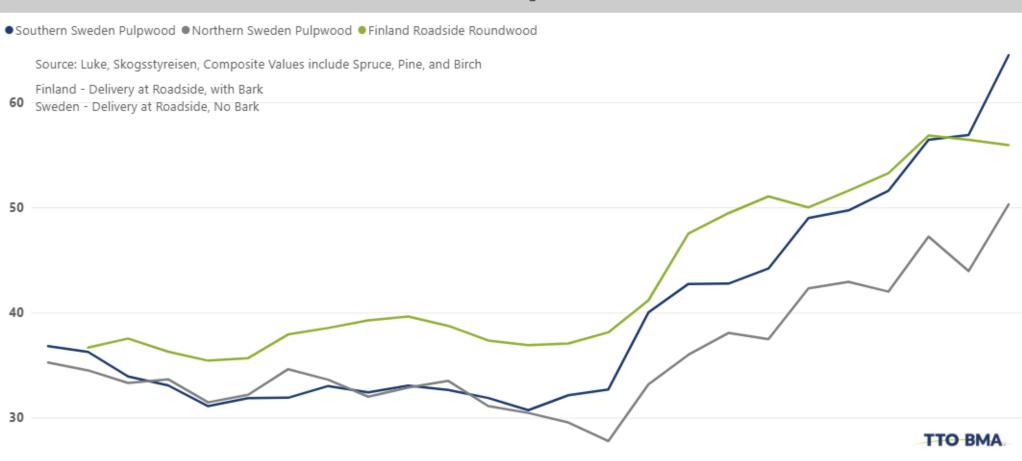


BHK has
 accounted for
 nearly all the
 market pulp
 growth since 2005

#### **SWD Cost Structure**

#### **Composite Pulpwood Prices - Nordic Countries**

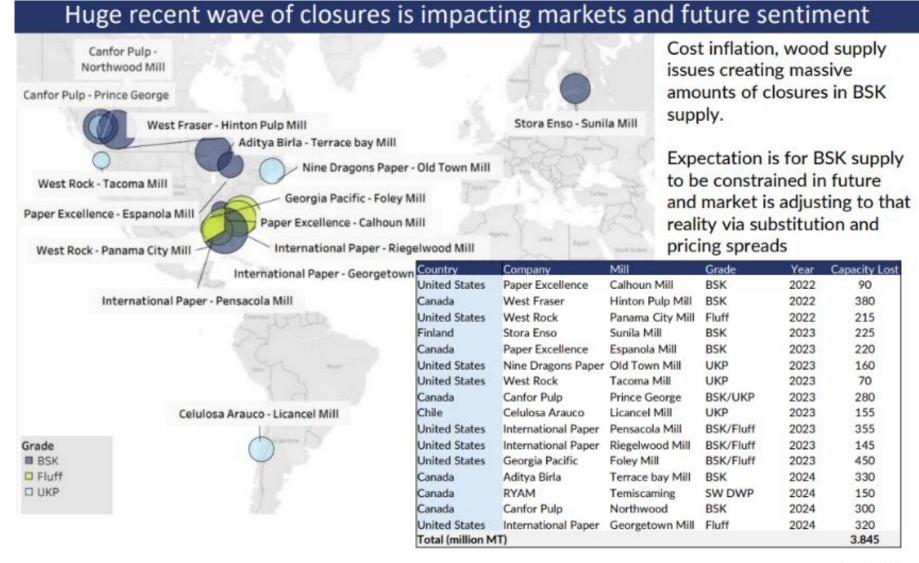
USD/m<sup>3</sup>, through Q1 2025



### **BSK/BHKSpread**

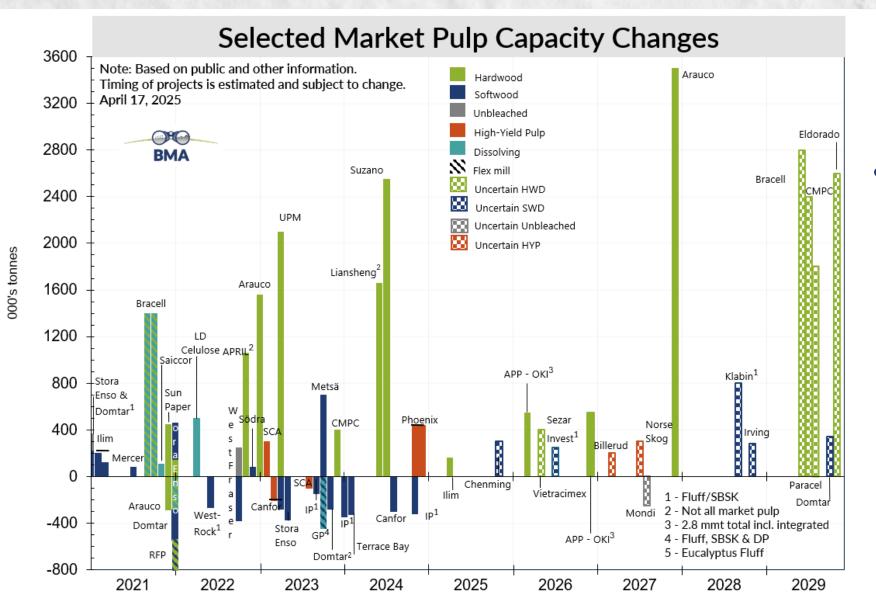


#### **BSK Closures**



Source: TTOBMA

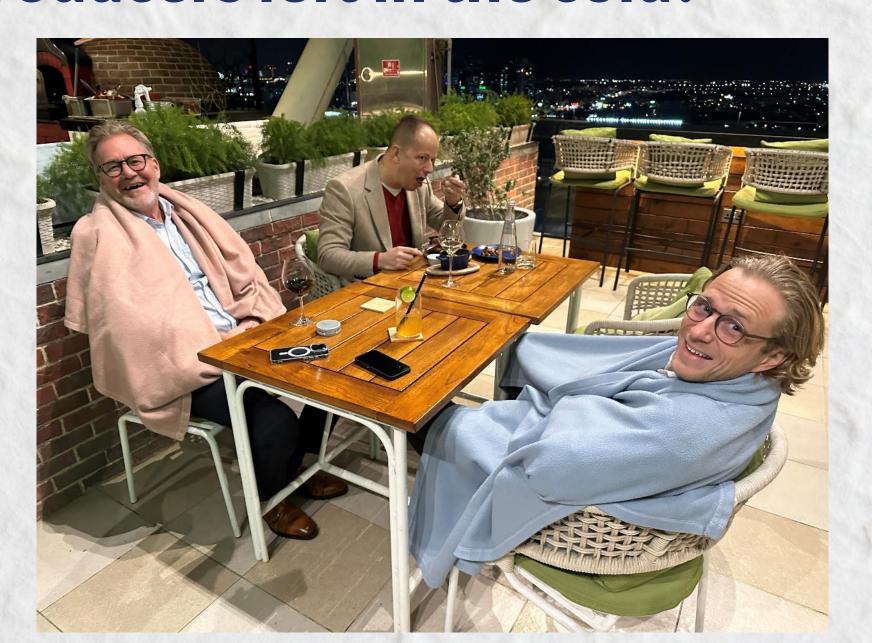
### **Market Pulp Investment**



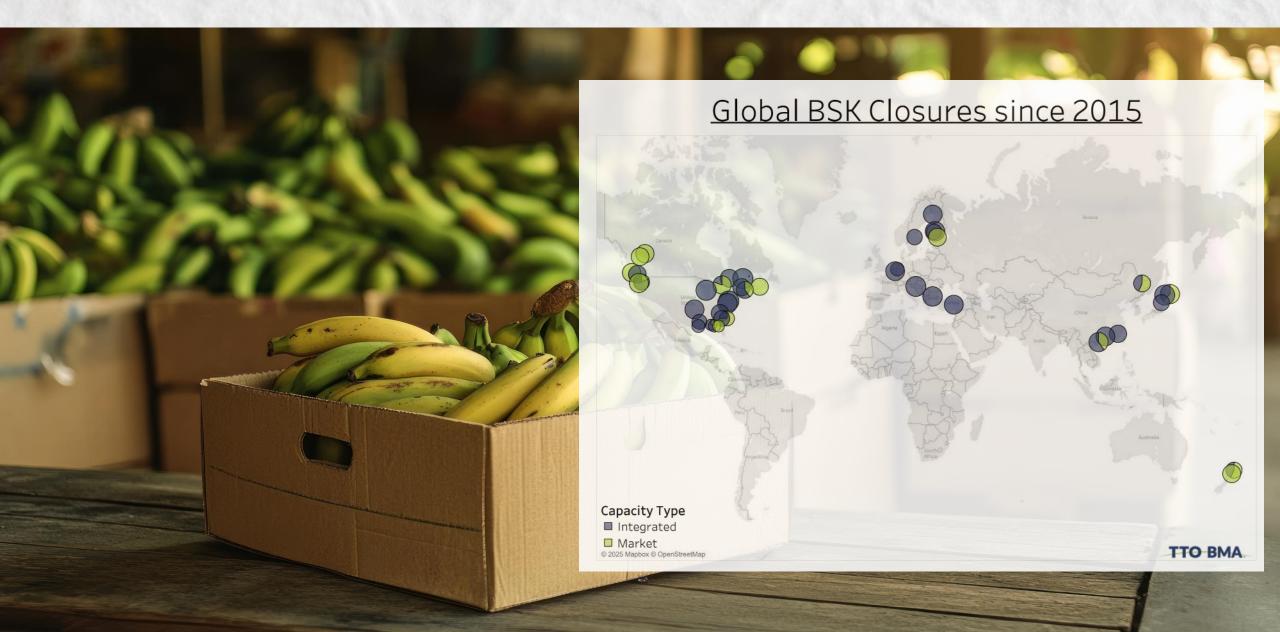
 Most of the new market pulp investments are in Latin America based on modern Eucalyptus plantations

#### **BSK Producers left in the cold?**

#### TTO BMA



#### **BSK Still Needed**



#### **BSK Survivors**

- BSK increasingly niche grade
- Suppliers who
   maximize strength
   performance and help
   their customers use
   more HWD will have
   advantage
- Cost competitive



### **American Pope**

#### TTO BMA

"It's called soccer now."



### Pulp & Paper Industry





### THANK YOU!

### TTO BMA.



#### TTO BMA

#### Market Intelligence, Analysis, & Consulting

- Monthly reports and commentary covering the market pulp, recovered paper, and tissue markets
- Price forecasts and long-term outlook work
- Market presentations, infographics, and videos
- Market intelligence tools and database
- Management consulting including market research, strategy, and investment analysis

#### **Net Pricing Indices**

- Open-market net-price indices
- Pulp price indices include: NBSK, BHK, SBSK, UKP, Fluff pulp, BCTMP and Dissolving pulp
- Recovered Paper North America including: OCC, SOP, Hard White, Light Print, and Mixed Paper
- Tissue North America including: Virgin Bath, Virgin Towel, Recycled Bath and Recycled Towel
- Downstream Tissue North America including: Ultra bath, premium bath, ultra towel, premium towel
- TTO Now real-time pricing China, Latam, and Japan pulp and paper prices (more grades/regions being added!)

