

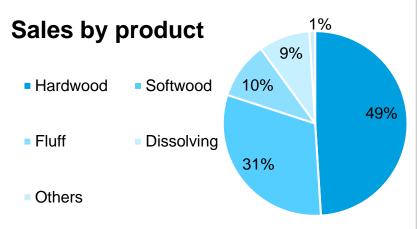
Continuing our successful journey

Markus Mannström EVP, Biomaterials division

Solid performance with increased focus on innovation...







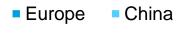




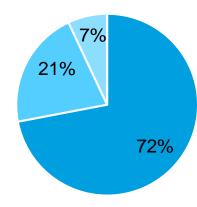


30.3% EBIT margin Q3/18 **20.9% ROOC** Q3/18

Sales by region



Others



Renewable material from certified forests and plantations

林矶

4 R&D Innovation centres

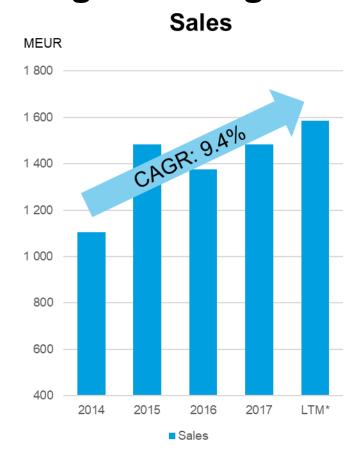
4 Growth platforms

16 Projects

An ambition to become the leading R&D innovator within the industry sector

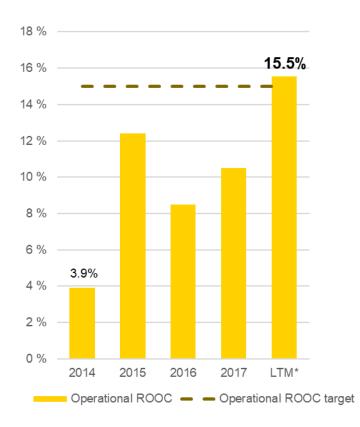
...and we are performing well in line with long term targets







Operational ROOC



We continue with our strategic focus areas









Maximise value from eucalyptus pulp

Continue to improve production efficiency

Constantly improve the cost competitiveness of Montes del Plata

Differentiate our Nordic pulp business

Reduce exposure in softwood

Grow in fluff and dissolving pulp

Continue to improve production efficiency

Innovate on pulp applications with current customers

Generate profitable growth from innovation platforms

Build and develop strong business on:

- Improved pulp properties
- Regenerated cellulose and MFC
- Lignin
- · Bio-based chemicals
- Extraction and separation technologies

Demand for all pulp grades is growing by 2.3%...



Textiles, nonwovens
107 Mt market, growing 3%/y
6.6 Mt market pulp (dissolving)

Carton board
47 Mt market, growing 2.0%/y
5.3 Mt market pulp

Tissue
36 Mt market, growing 3.2%/y
22 Mt market pulp

Hygiene

590 billions of converted unit, growing 3.5%/y 6.2 Mt market pulp (fluff)

P

Paper

Specialty: 29 Mt market, growing 2.0%/y 9 Mt market pulp

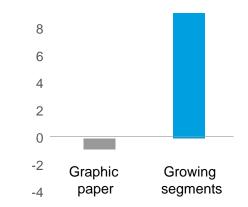
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Graphic: 101 Mt market, declining -1.0%/y

17 Mt market pulp

CO2

Pulp consumption increase (Mt)









Growing Global middle class warming



Eco awareness



Changing lifestyles

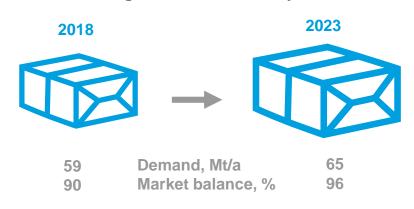


Growing population

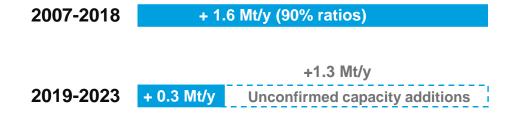
...and we expect a balanced market in pulp to continue



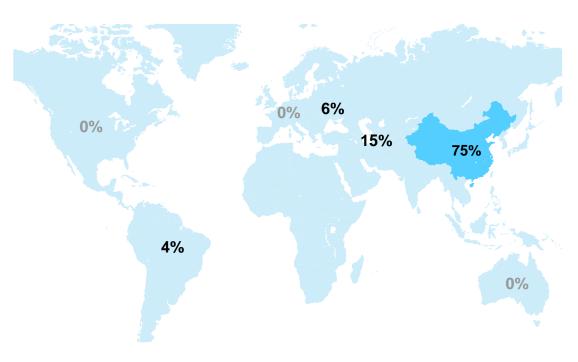
Pulp (hardwood and softwood) demand grows 2% CAGR by 2023



Pulp average capacity growth



Share in pulp demand growth

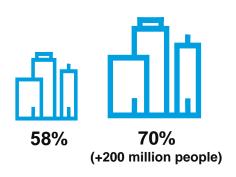


Megatrends support the demand for virgin pulp in China

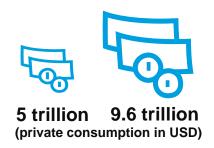


To 2030:

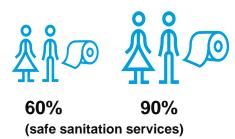
Urbanisation



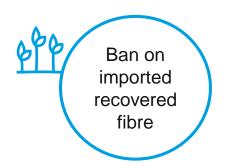
Growing middle class

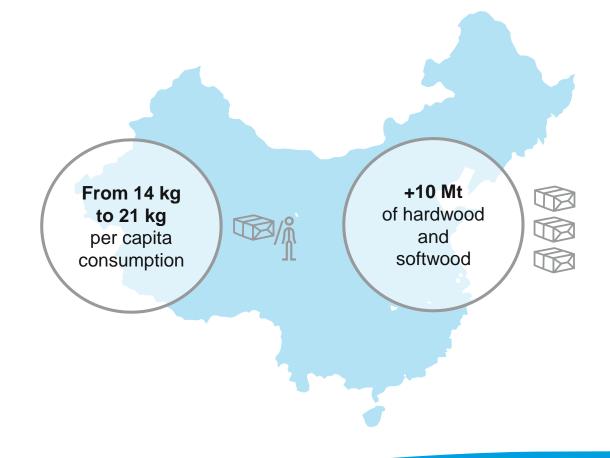


Changing lifestyles



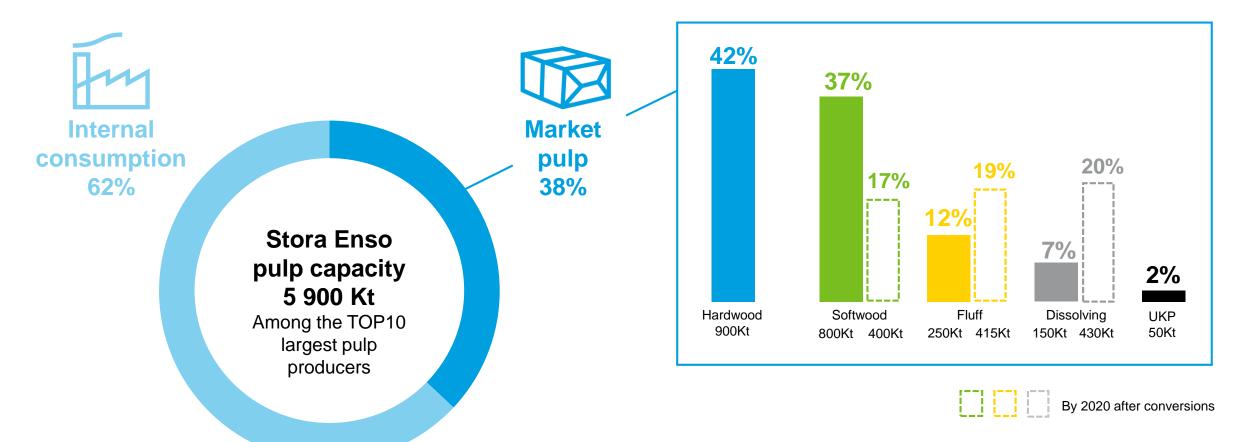
Eco awareness





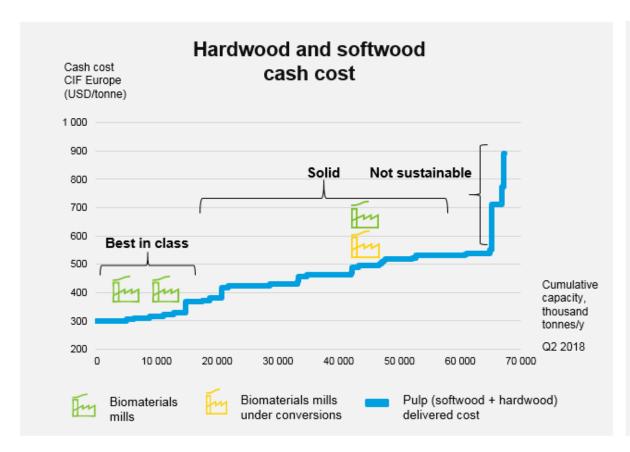
We are moving towards a more specialized pulp mix...

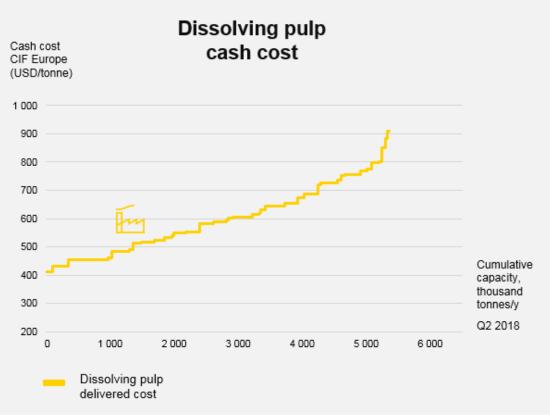




... with cost competitive assets







Innovation is key for sustainable profitable growth





Creating value from renewable, reusable and fossil free materials



Innovation Platforms	Value proposition -	End markets	Time to market	Market Potential: Size / value
Improved pulp properties	Increased material efficiency and performance	Specialty papers, hygiene fibre-based packaging	Continuous	2.6 Mt / 1.4 BEUR
Regenerated cellulose	Novel sustainable material from cellulose	Textile, and as film material in packaging	2020–2022	20 Mt / 35 BEUR
MFC	Increased material efficiency and performance	Specialty papers, coatings, cosmetics, and as film material in packaging	2019–2021	0.7 Mt / 1.6 BEUR
Lignin	Replace fossil-based materials	Resins and adhesives Carbon fibre Carbons for energy storage	2017–2023	1 Mt / 1.7 BEUR
Bio-based chemicals	Replace fossil-based materials for plastics	Packaging	2026–2027	2 Mt / 2.5 BEUR

Continuing our successful journey







Maximise value from eucalyptus pulp

Differentiate our Nordic pulp business

Profitable growth from innovation platforms



Delivering sustainable profitable growth



Disclaimer



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