



THE RENEWABLE MATERIALS COMPANY

Do you know?



We have the widest pulp grades portfolio in the market

Only 18% of our external market pulp sales are geared to the graphic paper market

We are fully contracted in dissolving pulp for next three years

We are the largest fluff pulp producer in Europe



Biomaterials – strengthening current business and creating new profitable growth







Global trends enhance the demand for sustainable pulp fibres







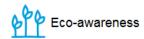
population













Textiles, non-wovens +4.4%/y (dissolving)



Hygiene +3.6%/y (fluff)

To 2025....



Tissue +2.9%/y



Cartonboard +2.1%/y

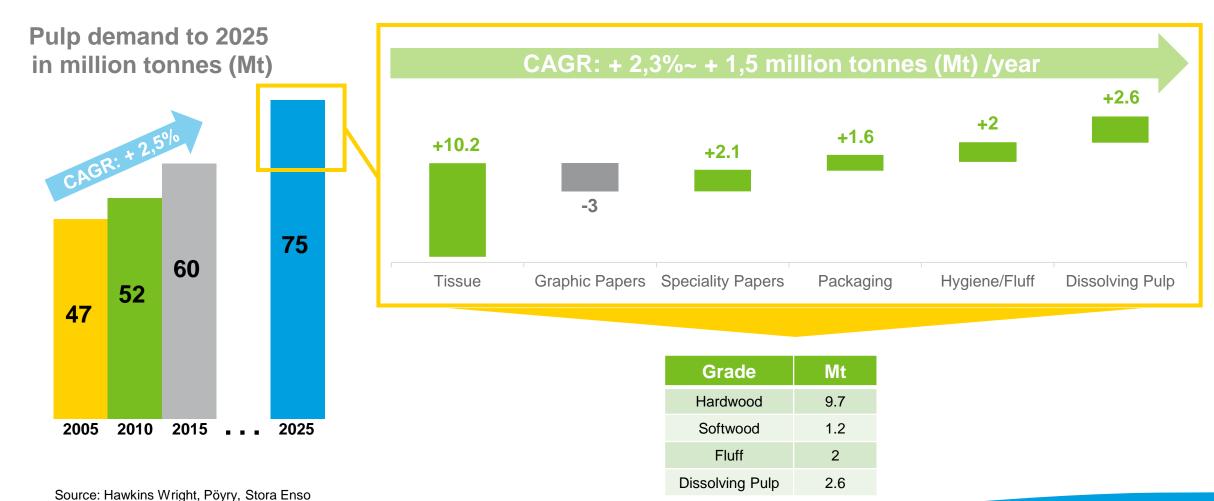


Paper -3%/y

Source: Pöyry Consulting Group, Hawkins Wright, Smithers Pira

Pulp demand keeps growing, especially in segments selected in Stora Enso strategy

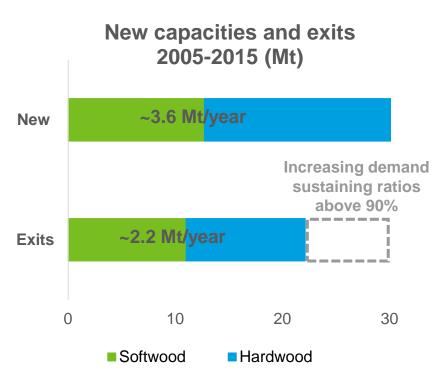


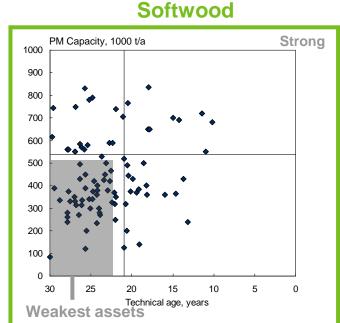


5 17 November 2016 Stora Enso CMD

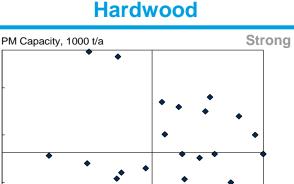
Pulp market expected to remain balanced – new capacity added, old disappearing







12Mt



New capacity growth 2016-2020*: 11Mt (2.2 Mt/year)

Weakest assets Technical age, years

8Mt

2000

1500

1000

3Mt 7,9Mt

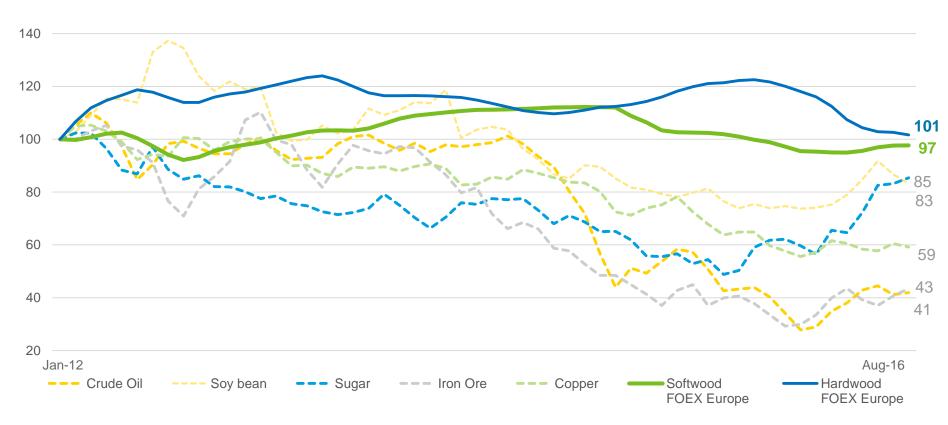
Source: Pöyry, Hawkins Wright, RISI

^{*} Based upon existing capacity announcements

Pulp outperforming other commodities – even with new capacity





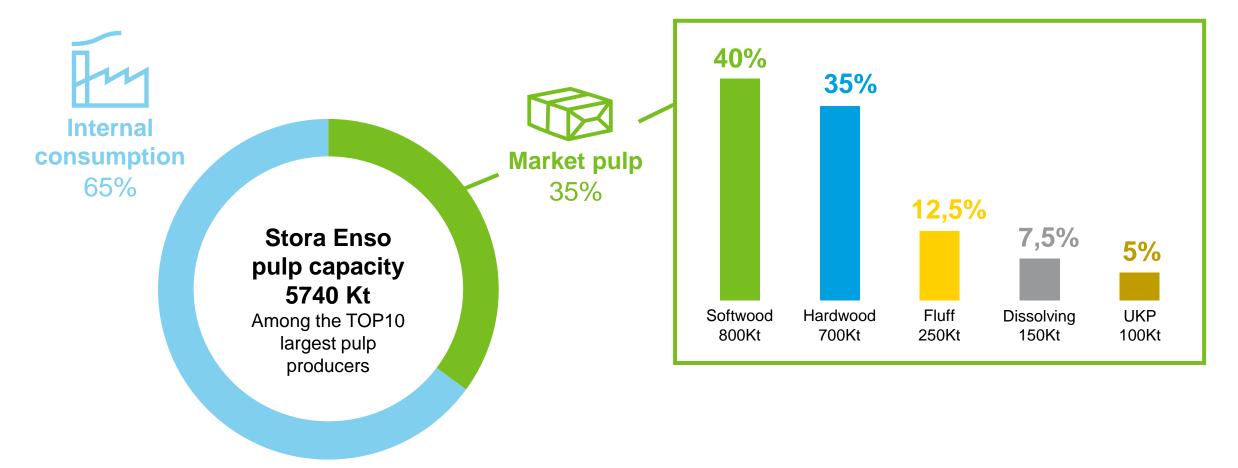


Source: World Bank, FOEX, Pöyry

7 17 November 2016 Stora Enso CMD

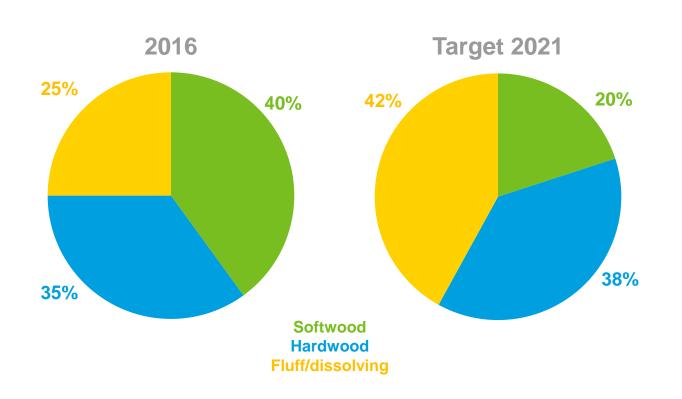
Stora Enso offers the widest pulp portfolio in the market





Strategic direction: Improving our pulp mix to differentiate business and improve margins







Reduce exposure in the softwood segment



Grow in the **fluff** and **dissolving** pulp segments through conversions



value from hardwood

From wood to bio-chemicals





Extraction and and separation technologies







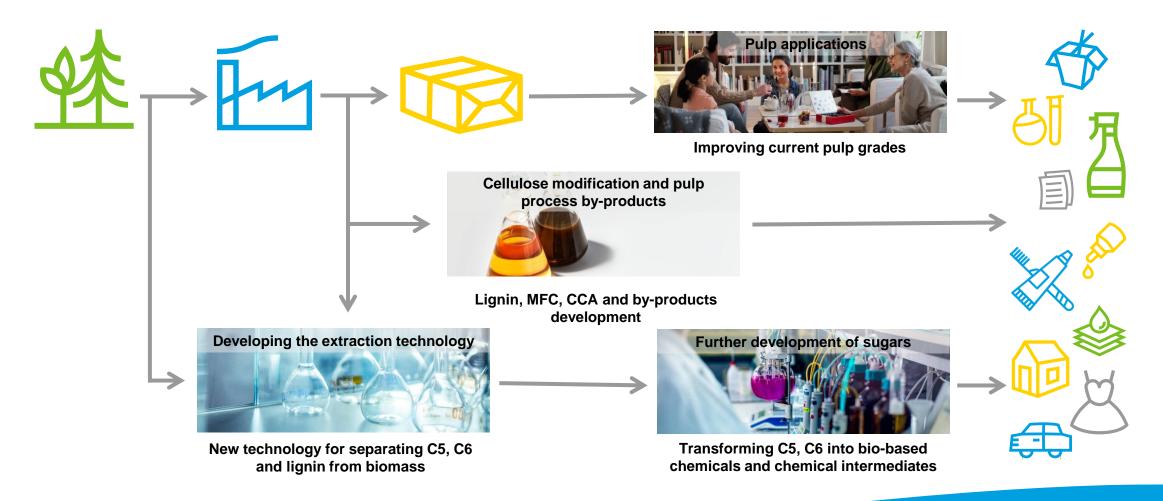




Polymers, chemicals, coatings, adhesives, textiles and food ingredients

Biomaterials division focuses on four clusters in its innovation work



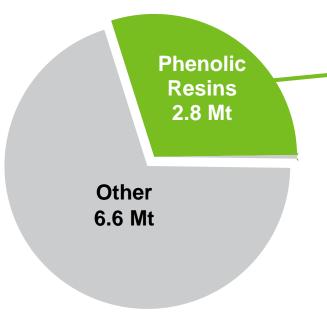


Lignin as phenol replacement offers us big potential with attractive margins

Example from cellulose modification and pulp process by-products cluster



Total market for phenols: 9.4 Mt





LVL by Stora Enso

Key value proposition:

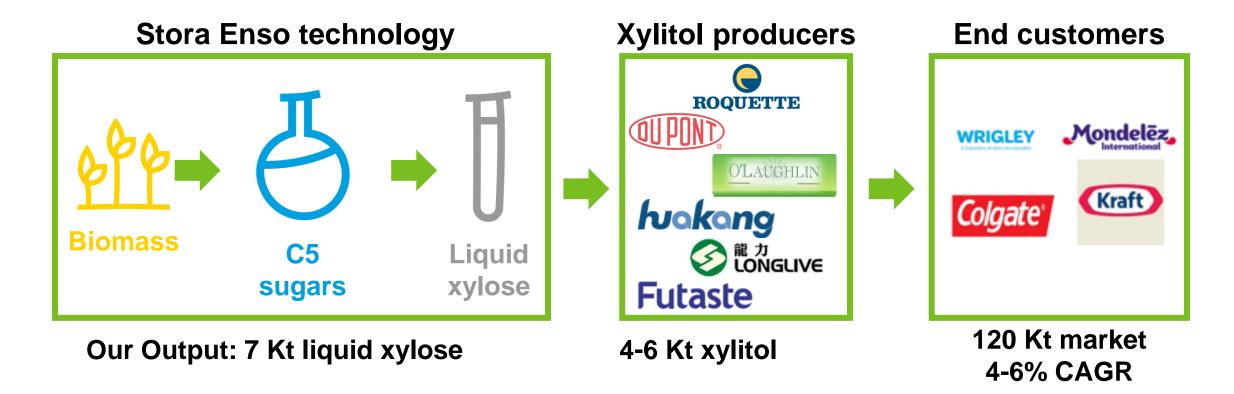
- Environmental
- Reduction of hazardous material
- Cost stability

Source: ADL (Arthur D'Little), IHB, Mckinsey, Stora Enso Experts

From C5 sugars to xylitol market showing 4-6% CAGR



Example from clusters for extraction technology development and further development of sugars

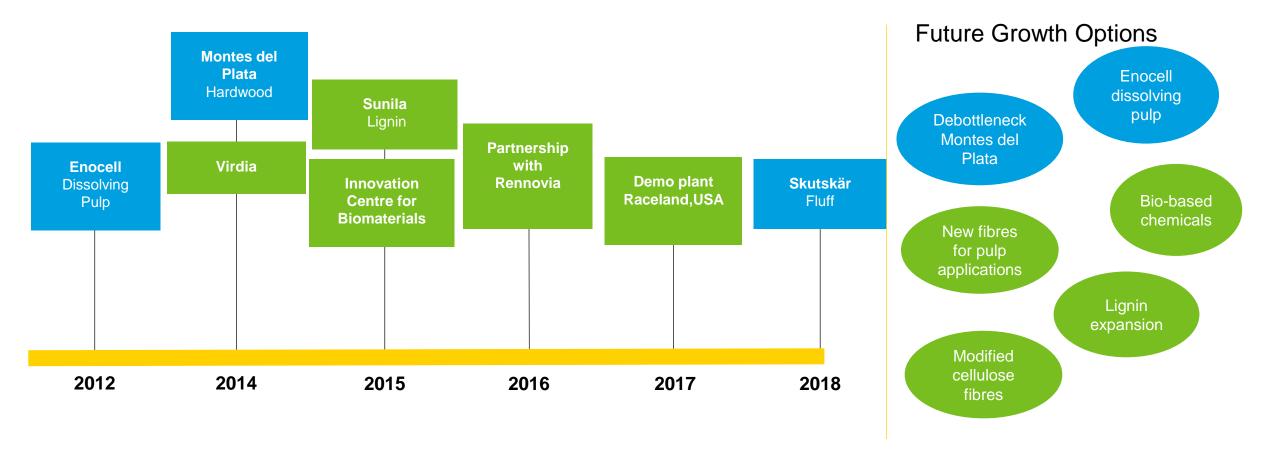


Sources PwC, Kline and Industry experts.

Biomaterials strategic actions from 2012

Differentiate our pulp business - Create new platforms for growth





Biomaterials – strengthening current business and creating new profitable growth







Disclaimer



It should be noted that Stora Enso and its business are exposed to various risks and uncertainties and certain statements herein which are not historical facts, including, without limitation those regarding expectations for market growth and developments; expectations for growth and profitability; and statements preceded by "believes", "expects", "anticipates", "foresees", or similar expressions, are forward-looking statements. Since these statements are based on current plans, estimates and projections, they involve risks and uncertainties which may cause actual results to materially differ from those expressed in such forward-looking statements. Such factors include, but are not limited to: (1) operating factors such as continued success of manufacturing activities and the achievement of efficiencies therein. continued success of product development, acceptance of new products or services by the group's targeted customers, success of the existing and future collaboration arrangements, changes in business strategy or development plans or targets, changes in the degree of protection created by the group's patents and other intellectual property rights, the availability of capital on acceptable terms; (2) industry conditions, such as strength of product demand, intensity of competition, prevailing and future global market prices for the group's products and the pricing pressures thereto, price fluctuations in raw materials, financial condition of the customers and the competitors of the group, the potential introduction of competing products and technologies by competitors; and (3) general economic conditions, such as rates of economic growth in the group's principal geographic markets or fluctuations in exchange and interest rates. All statements are based on management's best assumptions and beliefs in light of the information currently available to it and Stora Enso assumes no obligation to publicly update or revise any forward-looking statement except to the extent legally required.



Thank you!