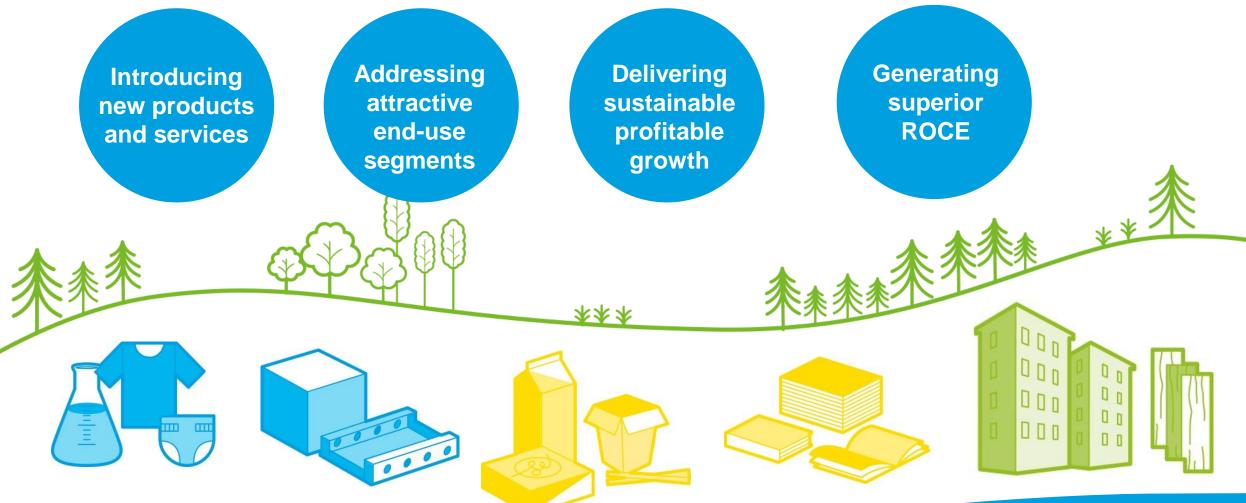


Consumer Board — Solid platform for profitable growth in the bioeconomy

**Annica Bresky EVP, Consumer Board division** 

#### Our road to success in the bioeconomy





## Solid platform for profitable growth in the bioeconomy Consumer Board, a strong global partner





70 countries2 342 MEUR sales 2016+6.7% Q3 YoY 2017

1 Innovation centre

2 R&D centres

6 new products since 2014

**40** joint customer projects

22 digitalization projects



Renewable material

from certified forests and plantations



5 mills Finland,

Sweden, China

3.1 Mt virgin board

**216 MEUR EBIT** Q1–Q3/17 **17.7% ROOC** Q3/2017



1 in 3
milk cartons
made from
Stora Enso board



**4 170** employees 26% are women



## High quality board for premium consumer applications A broad range of solutions to fit customer demands













### Strategic partnering across the value chain





### **Empowered consumers are driving change**



CREATE TRUST OF ORIGIN



**FUTURE GENERATIONS** 



JUST FOR ME



**EXPERIENCES IN THE CENTRE** 



**CONNECTIVITY EVERYWHERE** 



### The industry has ambitious environmental 2020 targets...





Cap climate impact across the value chain at 2010 levels, regardless of business growth



100% sustainably sourced paper and board



100% FSC labelled packs



95% renewable cups and bottles



25% CO<sub>2</sub> reduction



All PET bottles to be bio-based



Packaging from 100% certified fibre-based or recycled sources

Source: Company web sites

## ... and our partnerships lead to commercialised solutions 82 MEUR or 3% of sales in 2017 from new products



The new Pure-Pak® carton delivers on key values for Arla. It is renewable, recyclable, reduces climate impact and provides standout for the EKO brand to organic consumers.

Anna-Karin Modin Edman, Sustainability Manager ArlaFoods "



We are very proud of the **new Fibre cup** suitable for e.g. crème fraiche. We have grown the proportion of renewable materials and removed all aluminum, which **reduces climate impact** by just over 50%.

Helge Skog CEO Arta Plast "

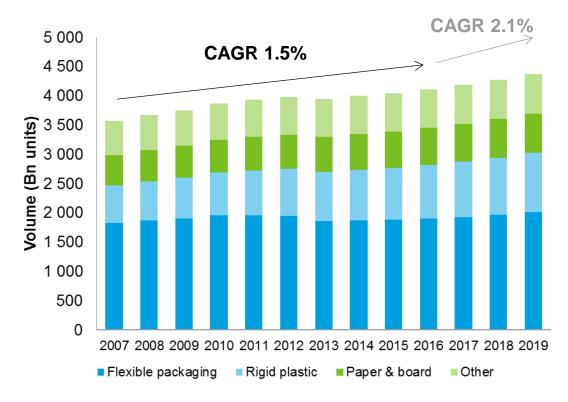


#### Packaging is growing by 2.1% CAGR by 2019...



- Drivers are the economic growth rate of a region
- Demographics favour small, re-sealable and convenient packaging
- Innovation in packaging materials and design is driven by:
  - reduction of total cost of ownership
  - renewability and recyclability
  - -ability to reduce food waste

#### Packaging development 2007–2019\*

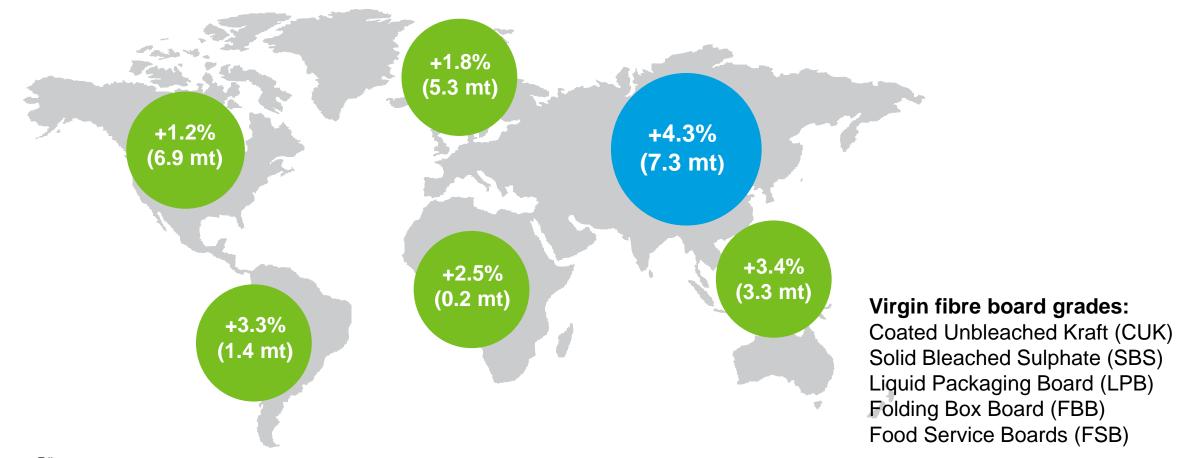


Note: \* Segments: food, beverages, beauty and personal care and tobacco.

Source: Euromonitor, 2017

### ... and 2.6% CAGR until 2030 for virgin fibre board grades

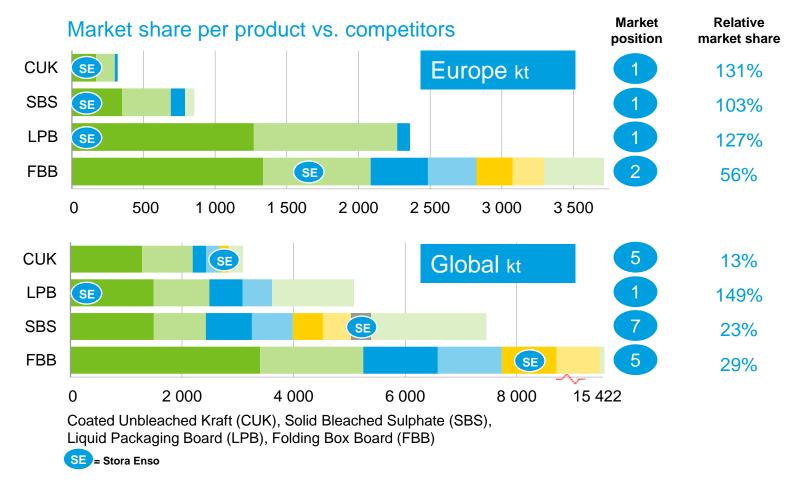




Source: Pöyry

## We have a strong position with global customers... Top 10 customers account for 53% of sales and 60% of EBITDA

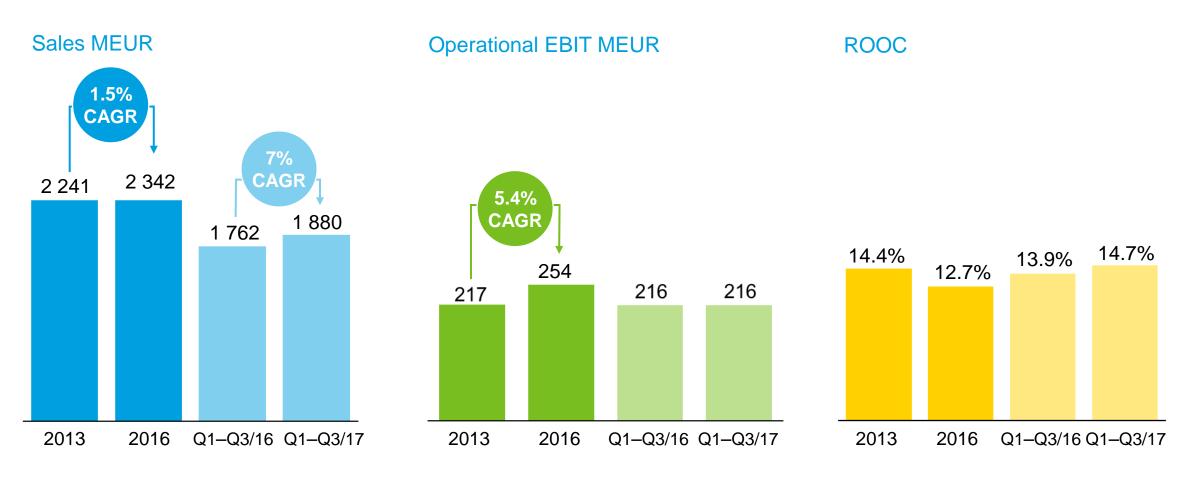




Source: Stora Enso, Pöyry

### ... generating profitable growth



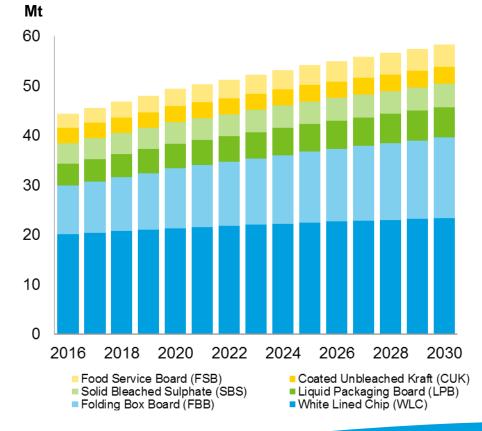


## Our growth opportunities are within LPB, FBB and CUK Beihai and the Nordic integrated mills are the growth engines



- LPB
  - Maintain strong market position in Europe
  - Grow in China and South East Asia
- FBB
  - Grow with the market in premium applications
- CUK
  - Global market making to challenge WLC
- Cost competitive mills
  - Integrated mills in Nordics with global reach
  - Current asset base can be further developed

#### Forecast per board grade CAGR 1–4%

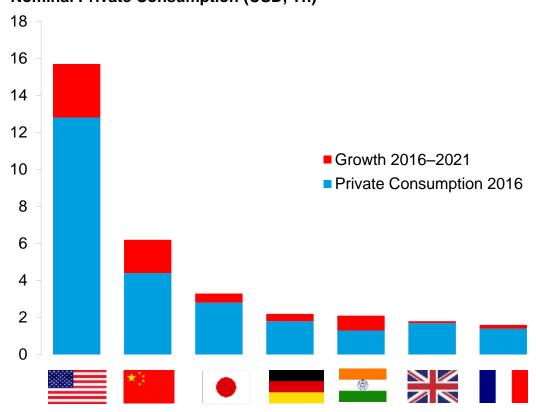


Source: Pöyry

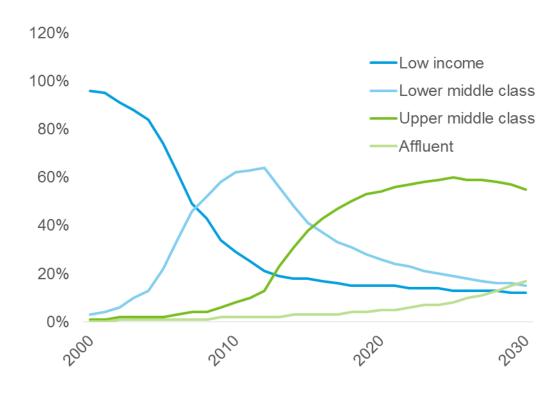
### China continues to be one of the fastest-growing markets...



#### Chinese consumption today matches US in 1920s Nominal Private Consumption (USD, Tn)



### Middle class and urbanisation driving the change Disposable income in China

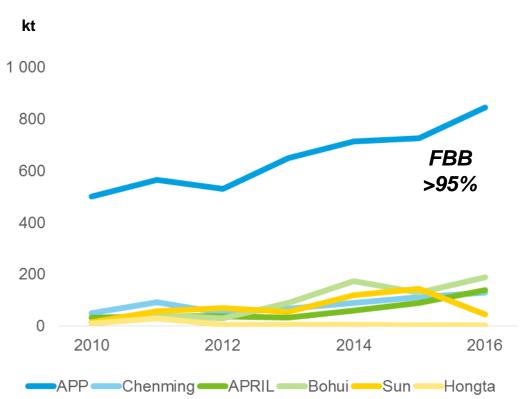


Source: McKinsey, as of Jan 2016

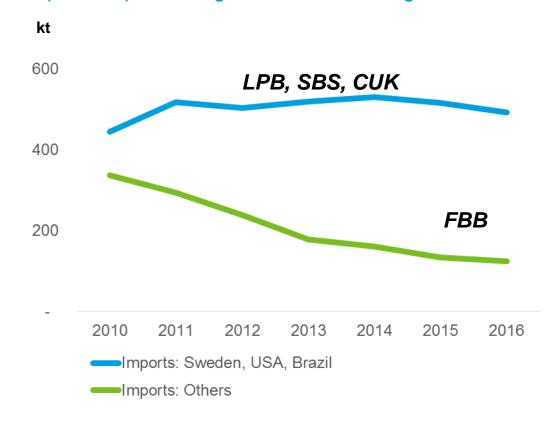
## ... with Beihai capturing premium positions in LPB, CUK and FBB







#### Imports of premium grades remain strong

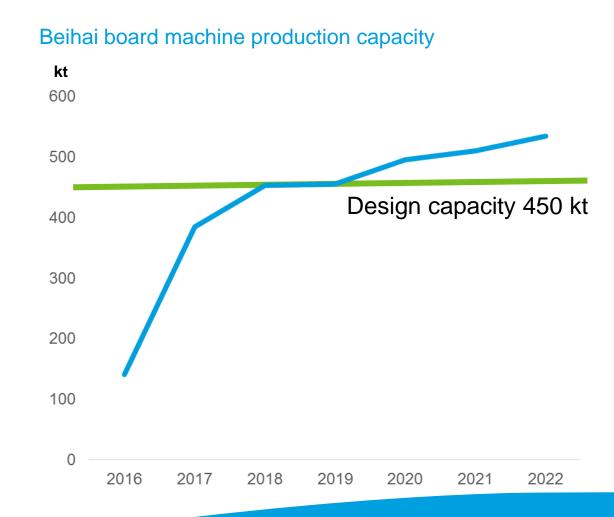


Sources: China customs and Stora Enso

#### Successful start-up of Beihai with EBITDA breakeven Q4 2017



- Commercial deliveries ongoing to LPB customers
- FBB quality on par with domestic producers
- Polyethylene (PE) plant for FSB in operation Q4/2017
- Board machine capacity can be increased without investments
- Focus is to establish premium market position and improve cost competitiveness



### Stepping up quality levels in virgin cartonboard grades



**Example: Healthcare segment** 



Source: McKinsey 8 November 2017 Stora Enso CMD

7–10%

6-8%

## Future growth is coming from innovations in renewable materials



Micro-fibrillated cellulose (MFC)

Bio-barriers based on MFC

Biocomposites

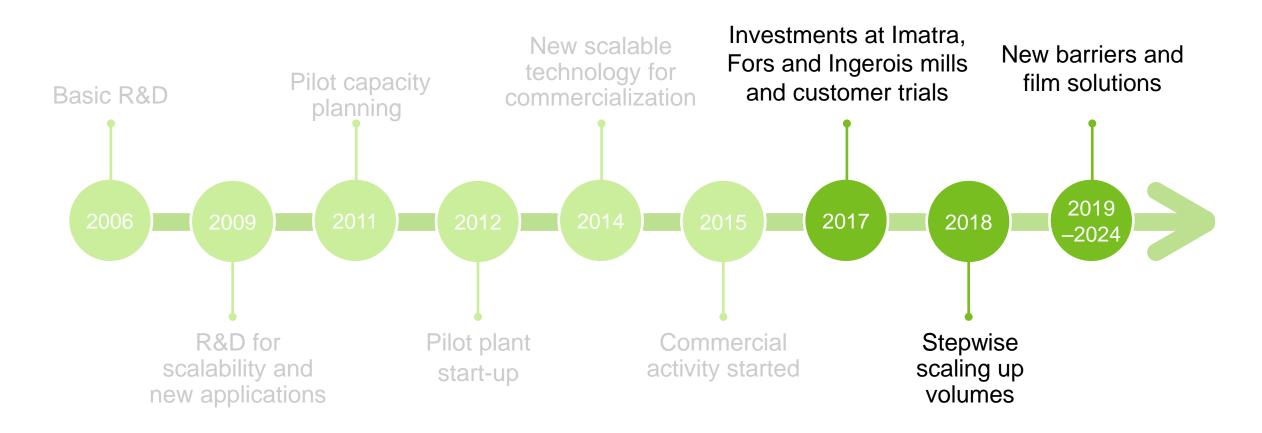




### We are scaling up MFC

#### Strength enhancement, source reduction and new barrier solutions





### Bio-barriers replacing fossil-based barriers







# Biocomposites replacing fossil-based materials Cooperation with accelerators and start-ups



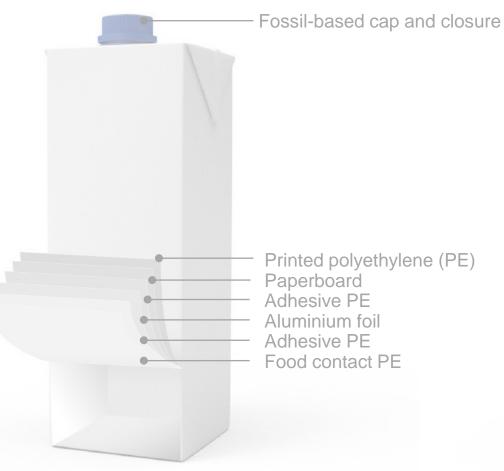


Image courtesy of Sulapac

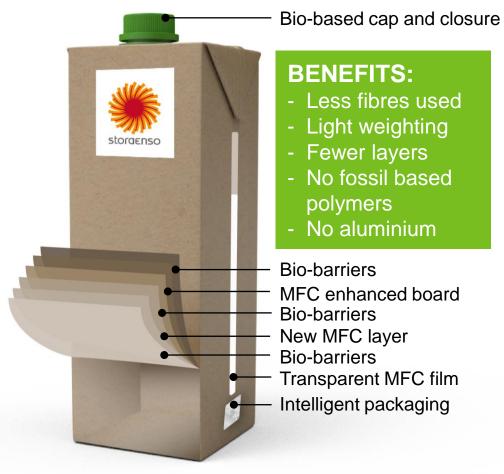
### Vision for a 100% renewable LPB packaging 2022–2025

#### Target is competitive packaging with reduced CO<sub>2</sub> emissions





Typical high barrier structure



### Solid platform for profitable growth in the bioeconomy



- Global leaders in our focus segments for the most challenging applications
- Long-term partnering with customers and brand owners across the value chain
- Customer-driven development projects based on consumer insights
- Strong and well-positioned assets that can be further developed
- State-of-the-art mill in Beihai securing future growth opportunities in China
- Innovations based on renewable materials







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