



**Norske Skog**

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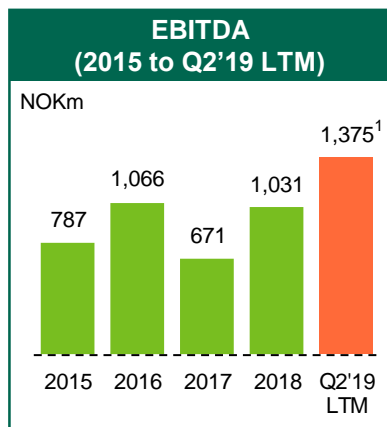
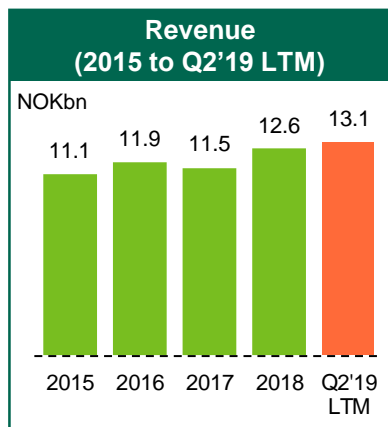
*Carnegie Forest Seminar*

16 September 2019

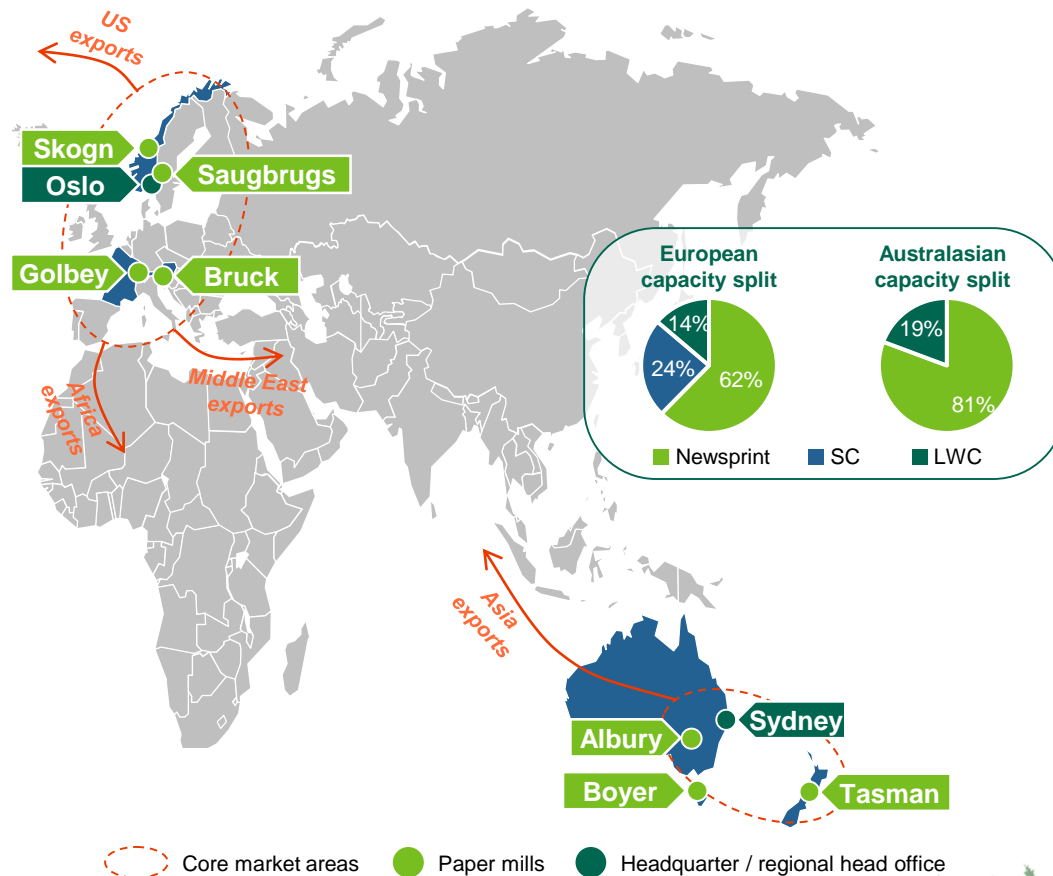
# Norske Skog – major producer of news and magazine paper

## Introduction to Norske Skog

- Norske Skog (the “Company”) is a **major producer of newsprint and magazine paper** (~2.6m tonnes capacity) with ~70 years of industry experience serving a diversified group of globally recognised and longstanding customers
- Oceanwood is the sole shareholder of Norske Skog



## Production capacity located in proximity to core markets





# Transformative restructuring and strong operational performance creating a balanced platform for the future

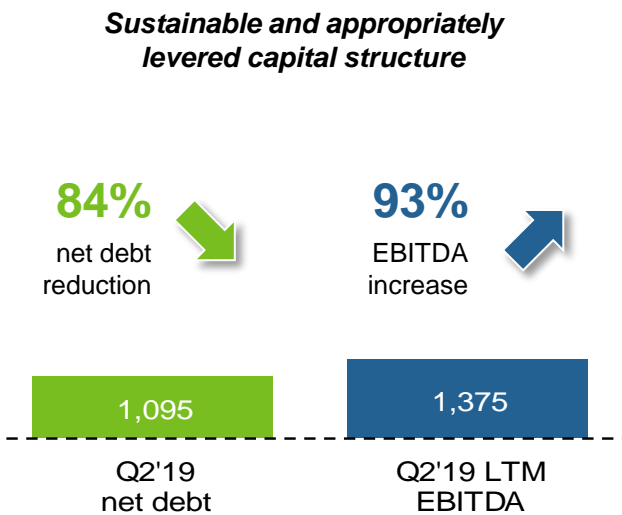
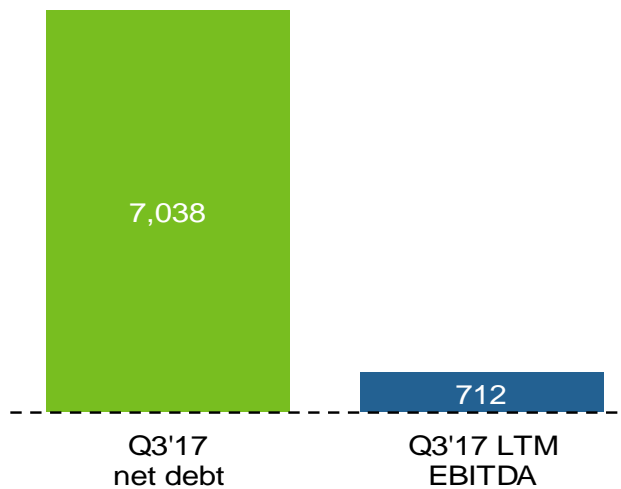
**Q3'17**  
Capital structure prior to bankruptcy

**Q2'19**  
Sustainable capital structure

NOKm

10x

0.8x



Norske Skogindustrier ASA  
(the previous ultimate parent)

Norske Skog ASA  
(the Issuer)

■ Net debt    
 ■ EBITDA    
 ● Net debt / EBITDA

# Norske Skog Strategy...

Long-term strategy remains

**Core  
Business**

**Improve the core business**

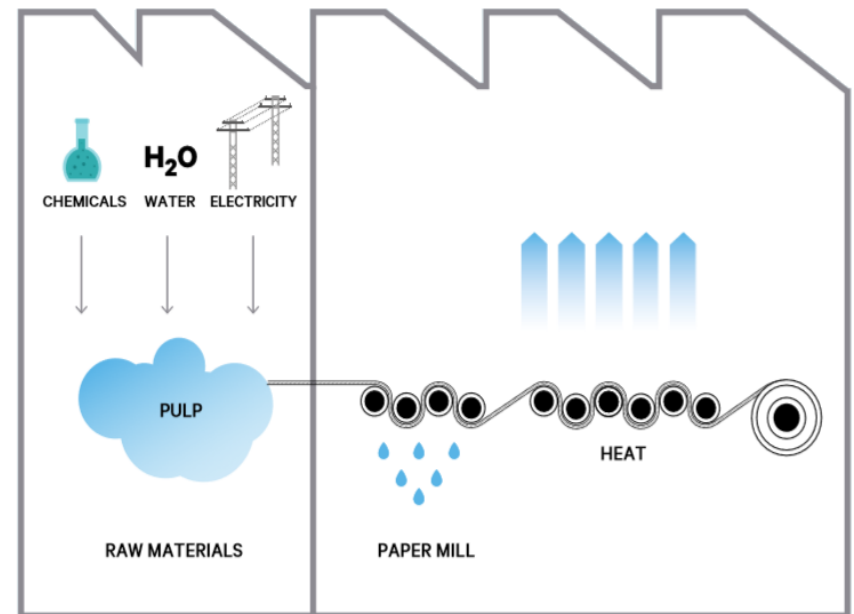
**Conversions**

**Convert certain of the Group's paper machines**

**Diversification**

**Diversify the business within bioenergy, fibre and biochemicals**

# Clearly defined position in the value chain



Electrical energy used to separate, process and transport fibre and water. Thermal energy used to provide process heat and to dry the paper

# Pure-play producer of high quality publication paper

## Newsprint



## Super calendered (SC)



## Lightweight coated (LWC)



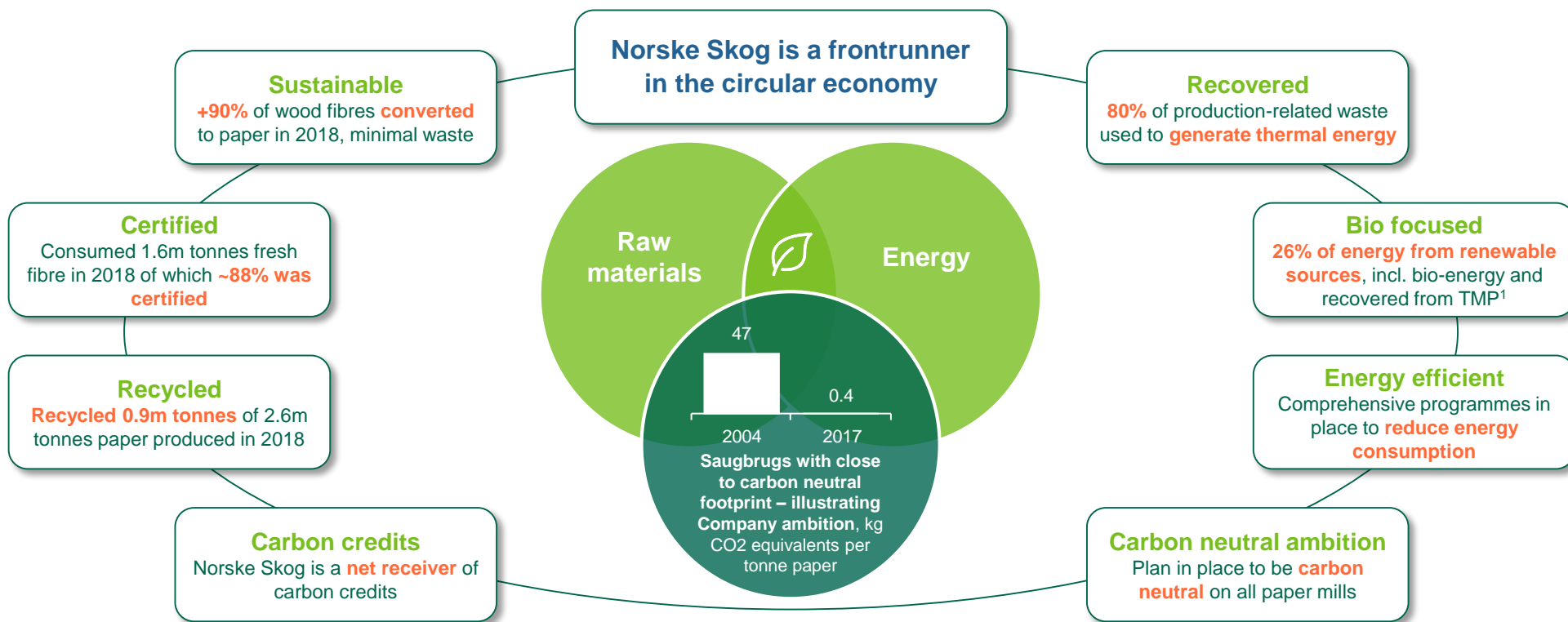
Share of capacity, tonnes



Share of revenue, Q2'19 LTM<sup>1</sup>



# Paper is renewable, degradable and environmentally friendly



# Norske Skog and the UN Sustainable Development Goals

## SDGs in one sentence



**Norske Skog shall create value for people and society in a responsible way, while maintaining a sustainable environment and use of natural resources.**



# Norske Skog and the UN Sustainable Development Goals

## Prioritized SDGs



**Norske Skog supports all 17 SDGs, but realize that some are more relevant to our business.**

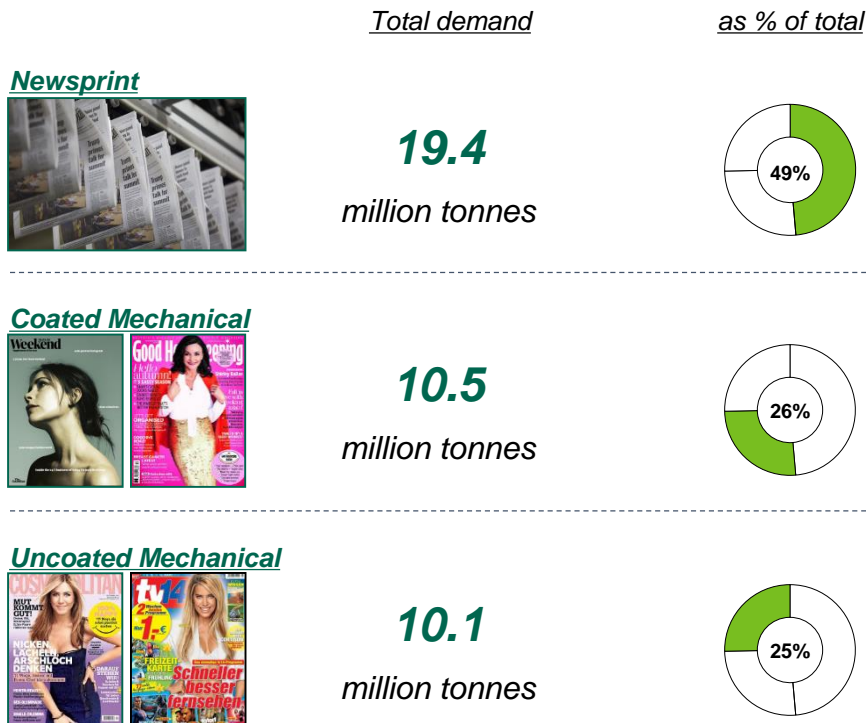


# Publication paper is a ~40m tonne industry supported by substantial global demand for newspapers and magazines

## Three main products within publication paper production

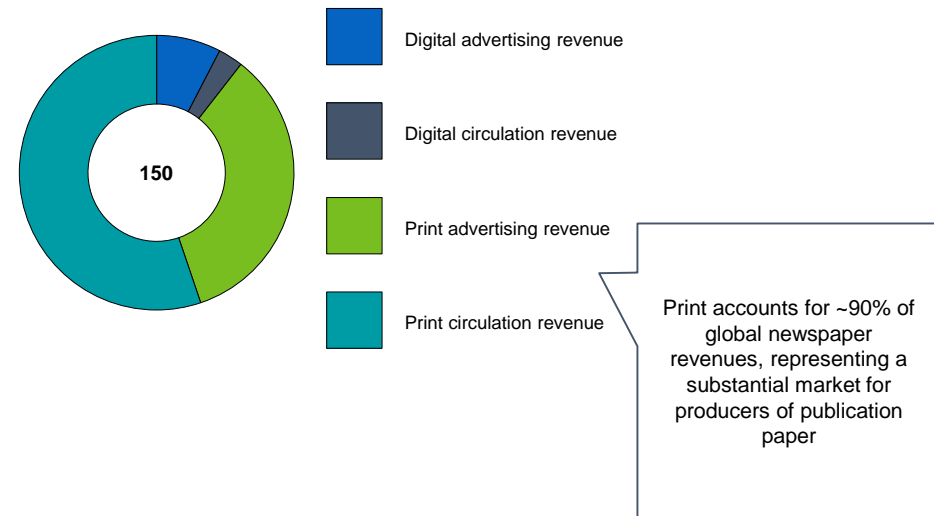
Breakdown of 2018 demand by product categories

### Global publication paper demand in 2018



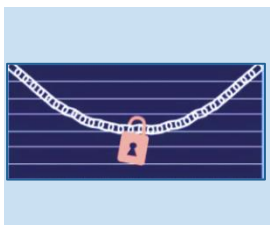
## Print remains the main newspaper revenue source globally

Breakdown of global newspaper revenue in 2017 (USD billion)

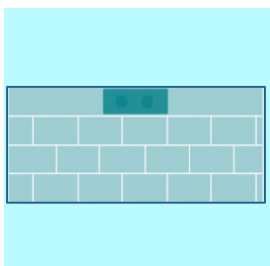
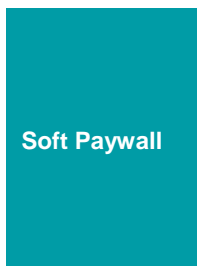


# Paywalls act as growth inhibitors for digital media revenues

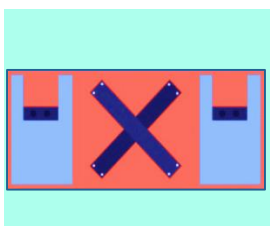
## Digital media paywalls



- Hard paywalls require users to pay for a subscription to access any and all content



- Includes:
  - Freemium
  - Metered

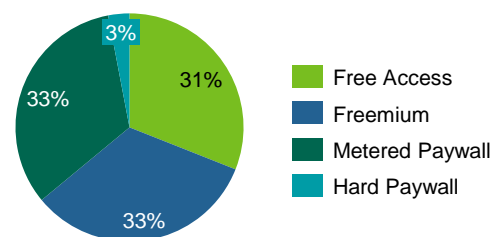


- A combination of hard and soft paywalls

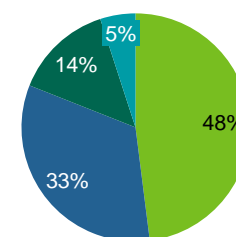
## Paywalls as growth inhibitors

- While most print newspapers globally are subscription based as of 2018, only 60% of digital news media operates some form of a paywall
- Paywalls act as growth inhibitors for digital media:
  - Introduction of paywalls enables “free” competitors to eat up traffic – e.g. 90% drop in online traffic after The Times introduced its paywall in 2010 and 60% after The Sun introduced its paywall in 2013

Newspaper paywalls 2018



Weekly magazine paywalls 2018



# Close to market production with local sales organisation serving a diversified customer base

## Norske Skog geographic footprint Europe

~90% of volume sold in Europe, remaining in North America, Africa and Asia



- Paper mill
- Sales offices

- Four production mills in Europe centred around core markets
- Marketing, sales and logistics efforts coordinated from sales offices in London, Augsburg, Paris and Milan.
- Supported by several smaller offices and agency agreements
- Long-standing customer relations with more than 450 customers in total, ranging from commercial printers and retailers to globally recognised publishers

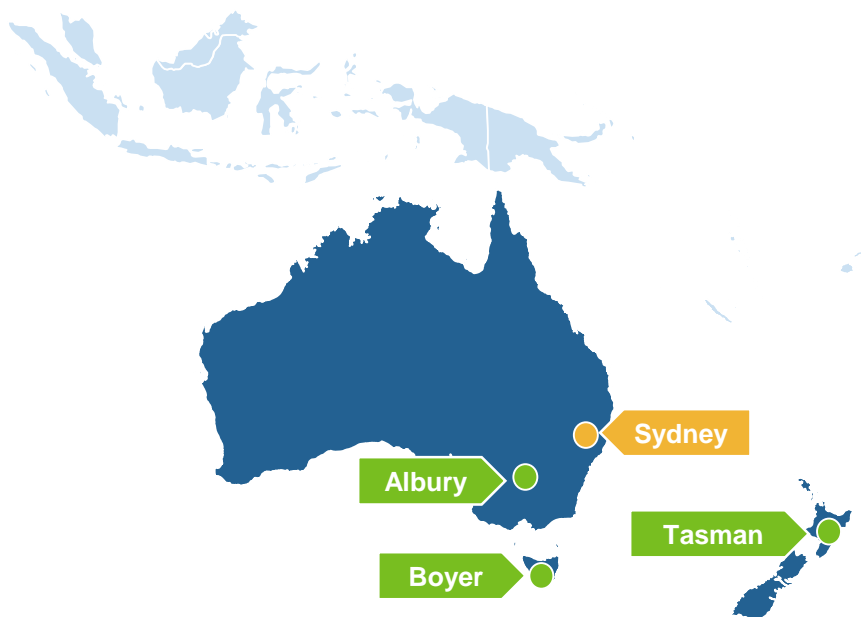




# Close to market production as only domestic producer

## Norske Skog geographic footprint Australasia

**Two thirds of Australasia volume sold domestically** and one third of volume to Asia



- Paper mill
- Sales offices

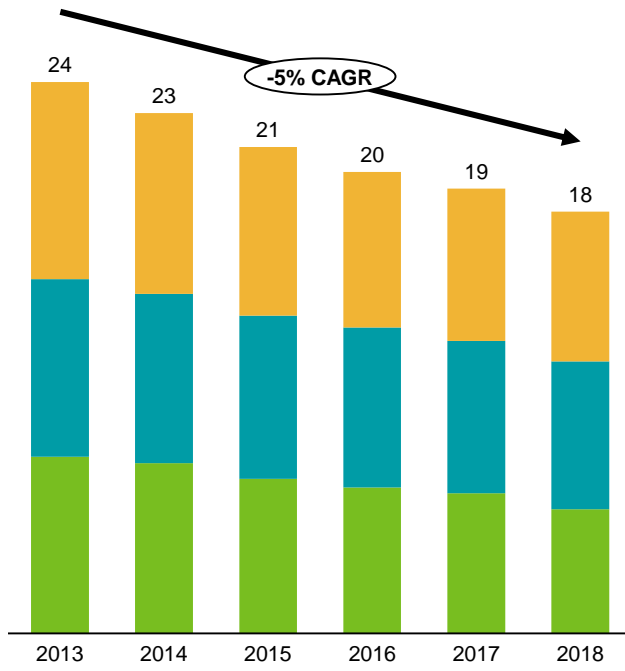
- Norske Skog has the only domestic paper production capacity in Australasia
- Marketing, sales and logistics efforts coordinated from sales offices in Sydney
- Long-standing customer relations with key publishers in the region



# The industry has shown ability to cut capacity to face demand decline resulting in stable high utilisation rates

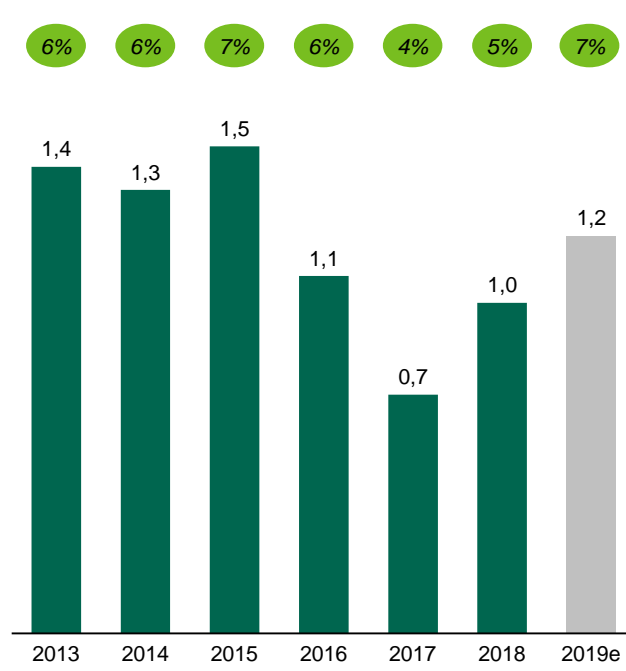
## Capacity continues to come down...

Western European production capacity, million tonnes



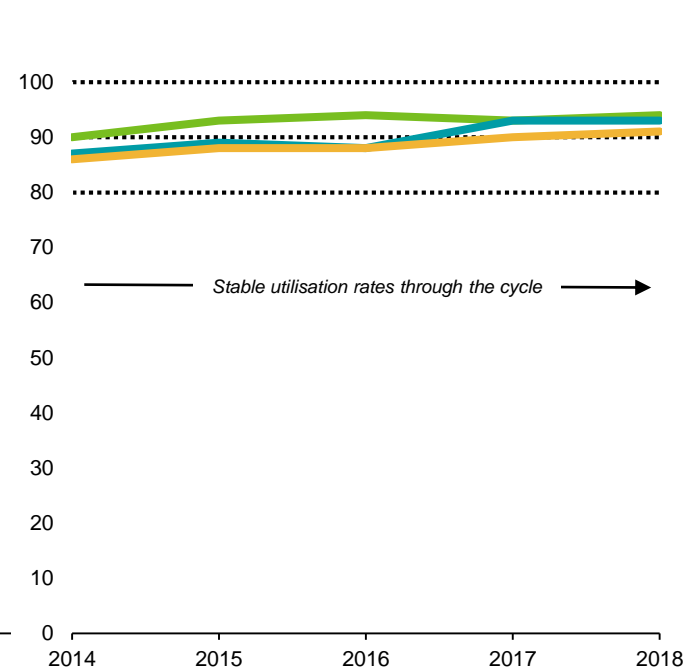
## ...with substantial closures every year...

Western European net capacity reduction, million tonnes



## ...maintaining a strong market balance

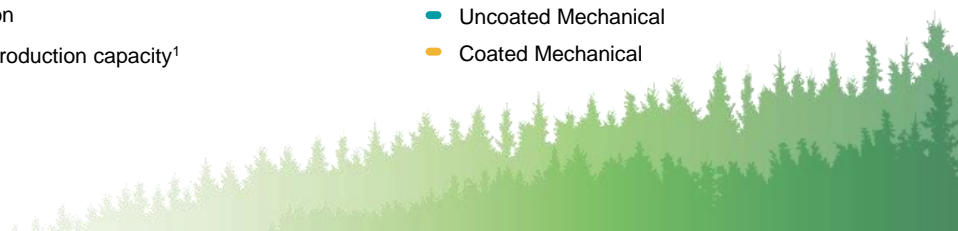
Utilisation rates, %<sup>1</sup>



Coated Mechanical  
Uncoated Mechanical  
Newsprint

Net capacity reductions  
Announced capacity reduction  
Capacity reduction as % of production capacity<sup>1</sup>

Newsprint  
Uncoated Mechanical  
Coated Mechanical



# Cost base management at the core of operations...

## Cost category descriptions

**Fibre**  
*(Wood, RCP and pulp)*

**Energy**

**Chemicals**

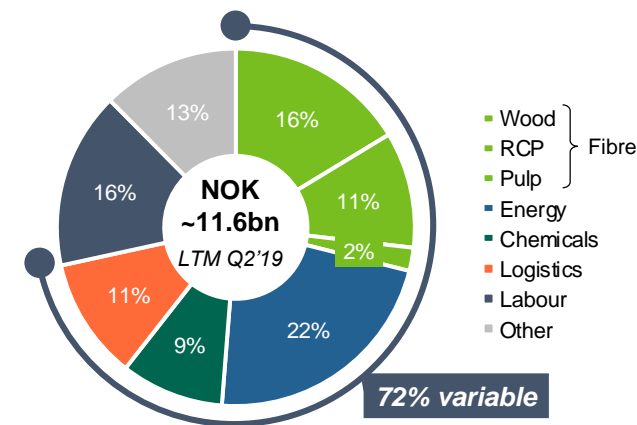
**Logistics**

**Labour**

**Significant effort towards optimising contracts and sourcing for fibre and energy, which together represent 51% of the cost base...**

**...but all cost are subject to review continuously**

## Fibre & Energy ~51% of cost base

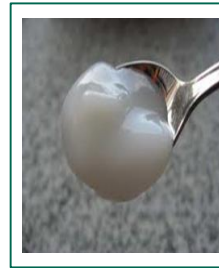


# New revenue streams being explored...

*Bio energy projects*

*Bio chemical products*

*Fibre products*



PELLETS

BIOGAS

WASTE-TO-ENERGY

CYRENE

NANOFIBRILS

CON-  
STRUCTION  
BOARDS

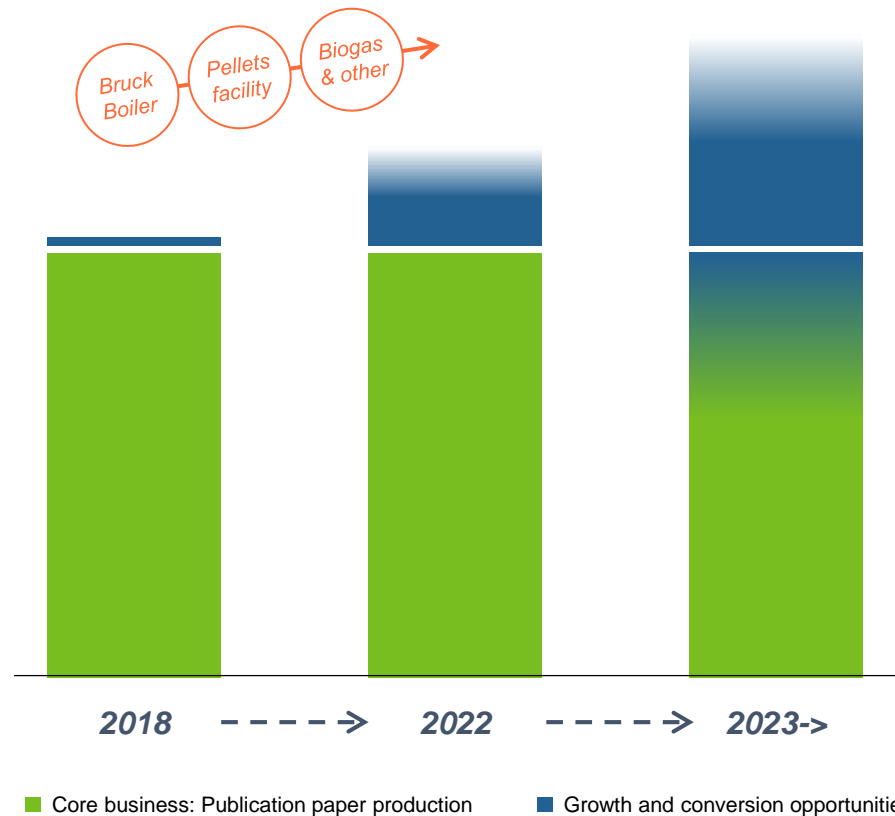
+25-30 OTHER  
INITIATIVES





# ... and expected to represent an increasing share of EBITDA going forward

Over the cycle EBITDA



# Q&A



