

# Integrated forest management – our competitive advantage

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# Creating additional value through supply, innovation and sustainable forest management...









**Competitive wood supply** 

**Innovation** 

Sustainable forest management

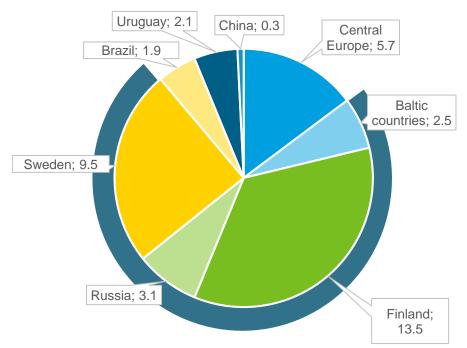
## ...controlling 30% of wood supply and a #1 Nordic position are competitive advantages...



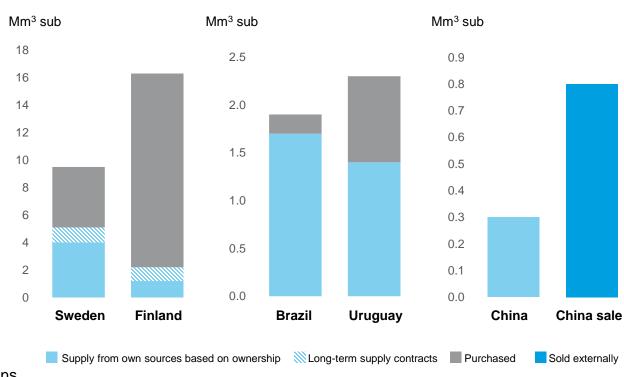
#### **#1 Nordic position**

Wood procurement by region

(million m<sup>3</sup> sub)



## We control ~30% of our wood raw material consumption (million m³ sub)

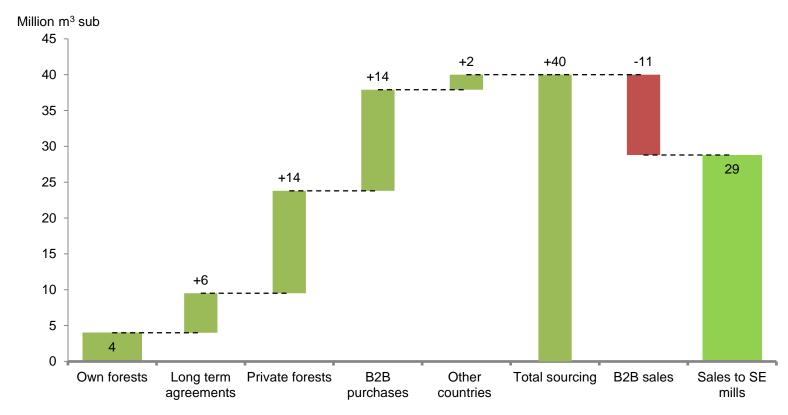


Central Europe, China, Uruguay and Brazil are integrated to business divisions.

# ...with our scale, we are the most efficient wood supplier in Northern Europe



### Broadest supplier base gives us price, flexibility and security



# Strong relationships with private forest owners are another competitive advantage



50% of our supply

**920 000** forest owners in Finland and Sweden

**24 000** wood purchasing agreements with private forest owners

**Advanced CRM and sales force management** 

#### Professional services to forest owners

- Harvesting and wood trade
- Silviculture and forest management
- Forestry planning
- Digital toolboxes for self management
- Advisory and consulting





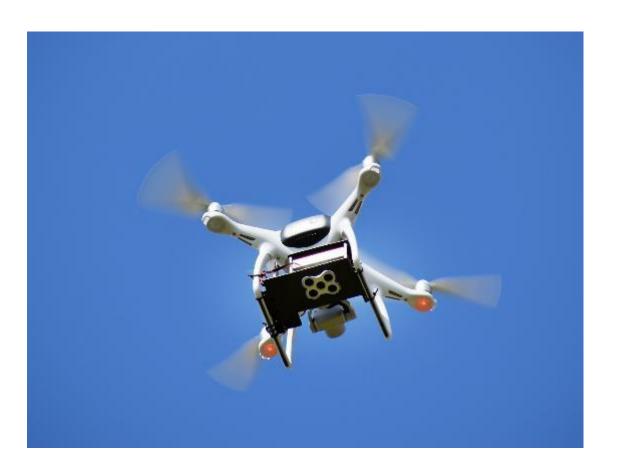




# We are building and globalising innovations to increase efficiency...



- Scale benefits in investing in digitalisation and new technologies
- In the digital world, marginal cost is zero
- Global approach in development and knowledge sharing



## ...and here are examples of innovation and digitalisation



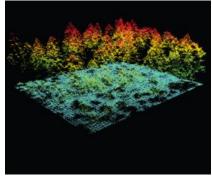
"Big Forest Data" and Precision Forestry

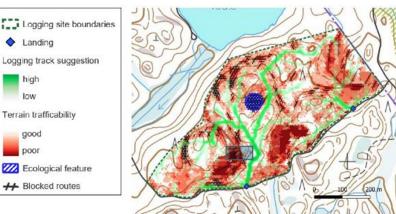
**Digitalising Forest Owner Service Channel** 

**Optimised Supply Chain** 

**Maximising raw material value** 







## Creating additional value from our own forests





## Today's consumers demand sustainable forestry Optimally managed sustainability is a competitive advantage



Forest growth Productivity



Growing forests good for the climate Protecting biodiversity
Limit impact on soil and water

**100%** of our wood from sustainable sources

**96%** of lands owned and managed by Stora Enso are covered by certification.



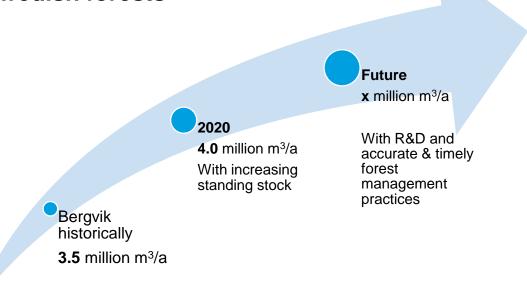


Jobs in rural areas
Dialogue with indigenous people
Recreation considerations

# We are increasing sustainable yield without compromising biodiversity



## Increased harvesting by 10–15% in our Swedish forests





## Additional yield initiatives with +10% potential



### Tree breeding and biotechnology

Increased yield, disease resistance, and improved wood properties

### Forestry practices – "Precision Forestry"

- Best practices world wide
- Accurate and timely operations
- Efficient use of digital opportunities

### Sustainability and biodiversity

- Developed forestry practices
- Development of biodiversity KPI's

### Life cycle analysis

- Substitution effects
- Carbon balances







Innovation does not happen in isolation



### **Disclaimer**



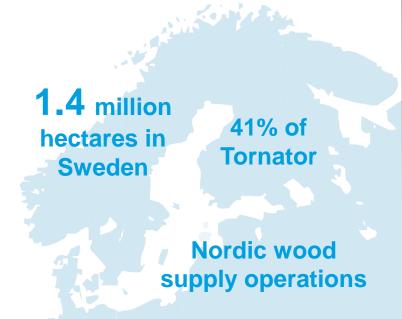
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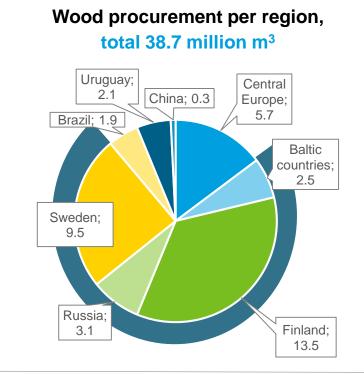


# Appendix

### Forest division in short







**100%** Wood from Sustainable sources

FSC/PEFC certified or FSC controlled



24 000

Wood Purchasing agreements with private forest owners

4.0 million m<sup>3</sup>

annual harvesting from own forests in Sweden

**Sales 2 285** MEUR in 2018

Growing Forests
have stored in average every
year 2008–2018

3 Mt CO<sup>2</sup>











Trees grow back

60–100 years rotation period in the Nordics Constantly new products

## Glossary – Area and volumes



- Productive forest areas, ha:
  - forest areas that from wood growth potential point of view qualify for active harvesting planning
  - includes productive areas that are set aside from the current harvesting plan
- Cubic metres, solid under bark (m³ sub):
  - commercial wood stem volume, excluding bark and low diameter tree tops
- Forest cubic metres (m<sup>3</sup>fo):
  - containing the whole tree stem volume with bark and top, but excluding branches

### **Statistics - Sweden**



Forests in Sweden	
Total land area	40.8 million ha
Total forest area	28 million ha
Share of land area	69%
Productive forest land	23.6 million ha
Certified forests (PEFC & FSC)	About 14-15 million ha (FSC 11,9 million ha productive forest land, PEFC 15,9 million ha forest land - many are double certified, about 60% certified productive forest land)
Family forests	48% of productive forests
State-owned	20% of productive forests
Industry-owned (e.g. private companies)	24% of productive forests
Other	6% of productive forests
Standing timber stock	3488 million m³ (3180 million m³ productive forest land)
Forest growth per year	124 million m³ (119 million m³ productive forest land)
Loggings per year	93 million m³
Harvested forest area	2% (including thinning)

Source: Skogsindustrierna, 2019

### **Statistics - Finland**



Forests in Finland		
Total area	33.8 million ha	
Total forest area	26.2 million ha	
Share of land area	86%	
Productive forest land	20.3 million ha	
Certified forests (PEFC & FSC)	19.1 million ha	
Private forests	60%	
State-owned	26%	
Companies	9%	
Others	5%	
Standing timber stock	2 356 million m <sup>3</sup>	
Forest growth per year	105.5 million m³	
Loggings per year	70 million m³	
Harvested forest area	3.0% (including thinning)	

Sources: Forest.fi and Finnish Forest industries

https://smy.fi/wp-content/uploads/2017/08/ff\_graph\_2017\_Finland\_and\_Her\_Forests\_in\_a\_Nutshell.pdf\_https://www.forestindustries.fi/statistics/forest-resources-and-wood-raw-material/