Contribution of the forest sector to innovation, growth and jobs

Lena Ek, Chairman of Södra 2019-04-25





Sweden – a forest nation









Net export value SEK 102 billion

World's 2nd largest exporter of pulp, paper and sawn timber

22 % of Swedens industrial investments

The Swedish forest industry invested for just over SEK 15 billion 2018.

330,000 private small and midsize enterprises

The backbone of countryside Economy

The most common form of female enterprise

Average forestry income 10,000 €/yr

70,000 direct employed

Plus 30,000 full time contractors

Plus considerable multipliers within construction industry, transport, service, consulting etc.



Forest restoration in Sweden – 1900







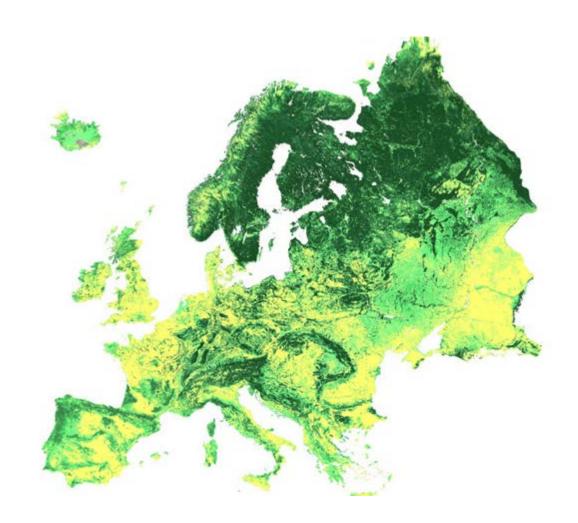
Current situation





European forest history

- 70% of Europe was covered by forests in prehistoric times
- Intensified land use pushed back the forests, culminating around the time of the big emigration in mid 1800
- A large reforestation campaign was launched in Sweden around 1900
- Today 70% of Sweden is again covered by forests, and 39 % of EU-countries. Both forest area and the standing forest volume is increasing in the EU.
- Europe's forests compensate for 12% of the emissions of green house gases. The potential is the double





The infrastructural backbone of sustainable forestry

- The Forest act of 1903
 - Regeneration becomes law
- The Swedish National Forest Inventory
 - Continuous monitoring forests since 1923
- The Forest act of 1993
 - Production and biodiversity of equal importance in forest management
 - Common values replace judicial details: Freedom and responsibility



The Swedish National Forest Inventory, at work since 1923.



Production and biodiversity - A success story from 1993

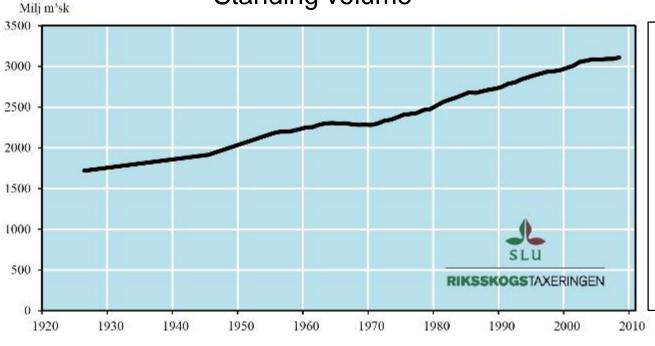
Production

Increased forest inventory Increased growth Increased harvesting

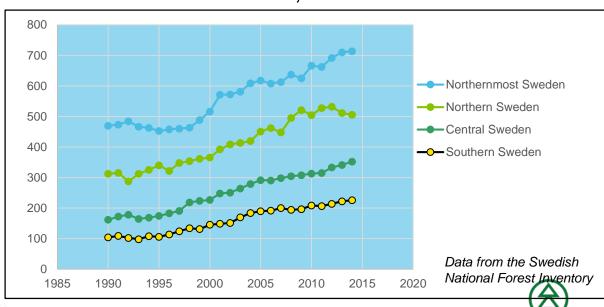
Biodiversity

Increase of old forests
Increase of broadleaves
Increase of dead wood





Old forests, 1000 ha

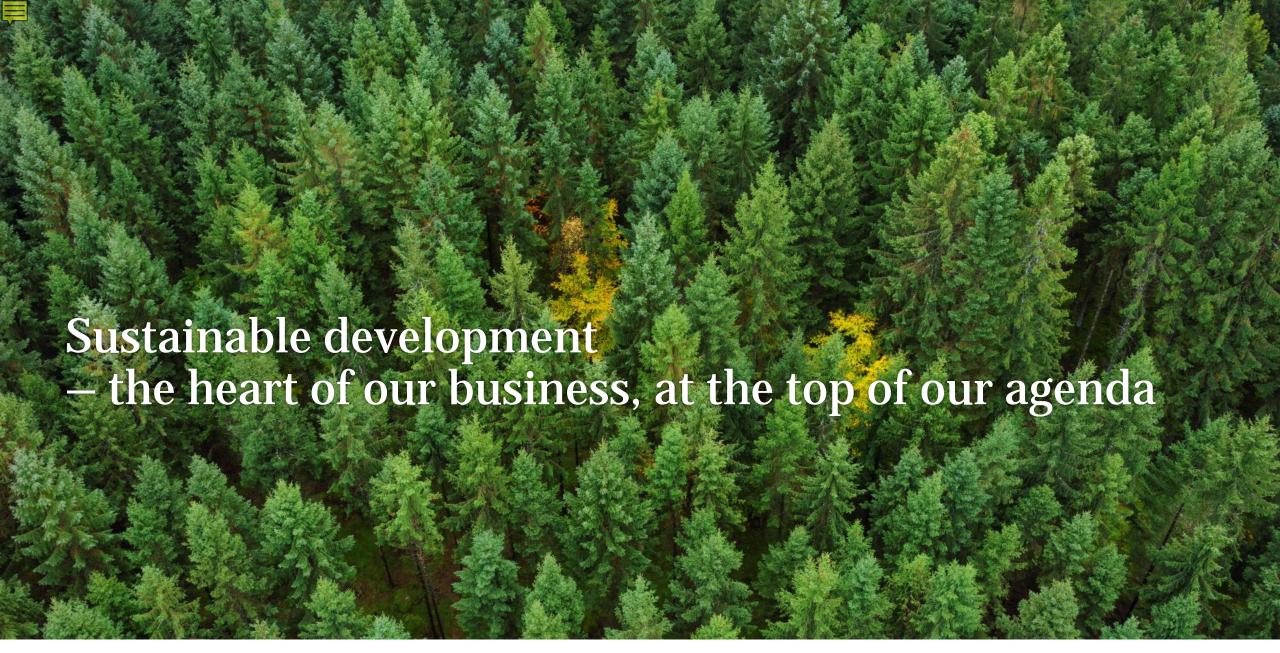




This is Södra













Three seedlings planted for each tree cut at final felling





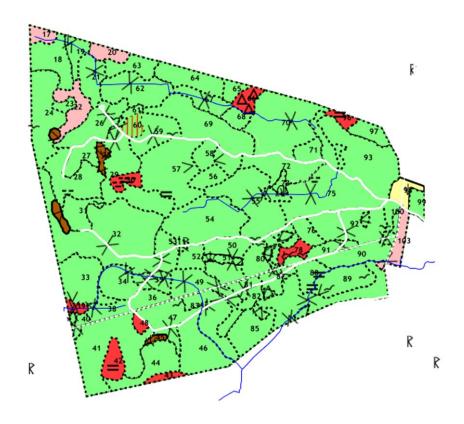
Södra's clearcuts have a mean area of 2,3 ha



Longterm target for each compartment

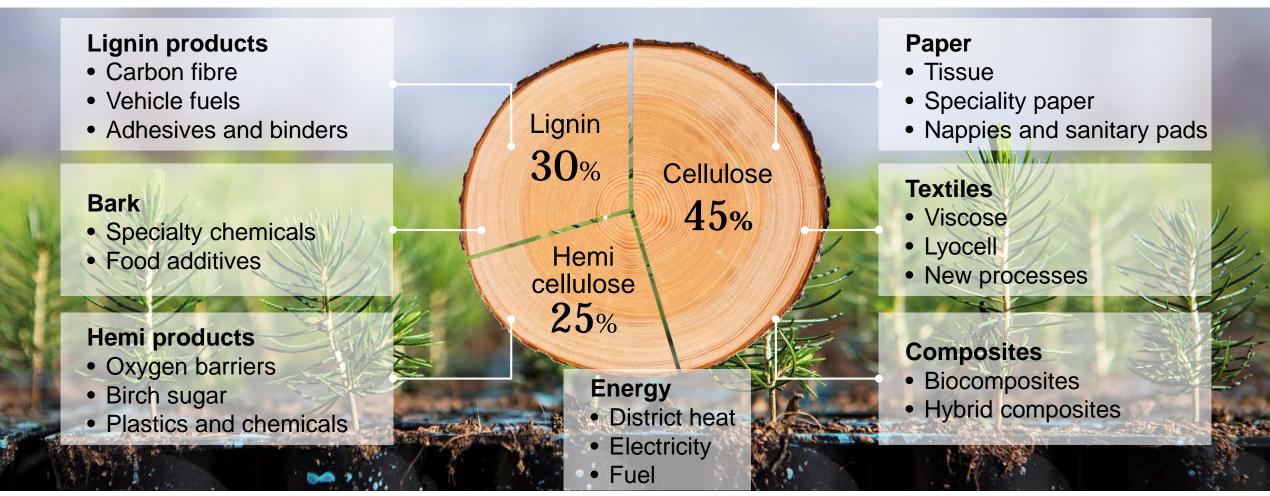
Four classes:

- PG Production with general environmental consideration
- K Combined targets (both production) and environmental consideration)
- NS Nature conservation requiring treatment
- NO Nature conservation untouched.





The invaluable raw material from the forest





The outside world needs drive innovation



More sustainable housing



More sustainable textiles



More sustainable packaging



More fossil-free fuels



Substitution











It is possible to build tall wooden buildings

One m³ wood substitute metal constructions 1000-1500 kilo CO₂







EU financed project FRESH



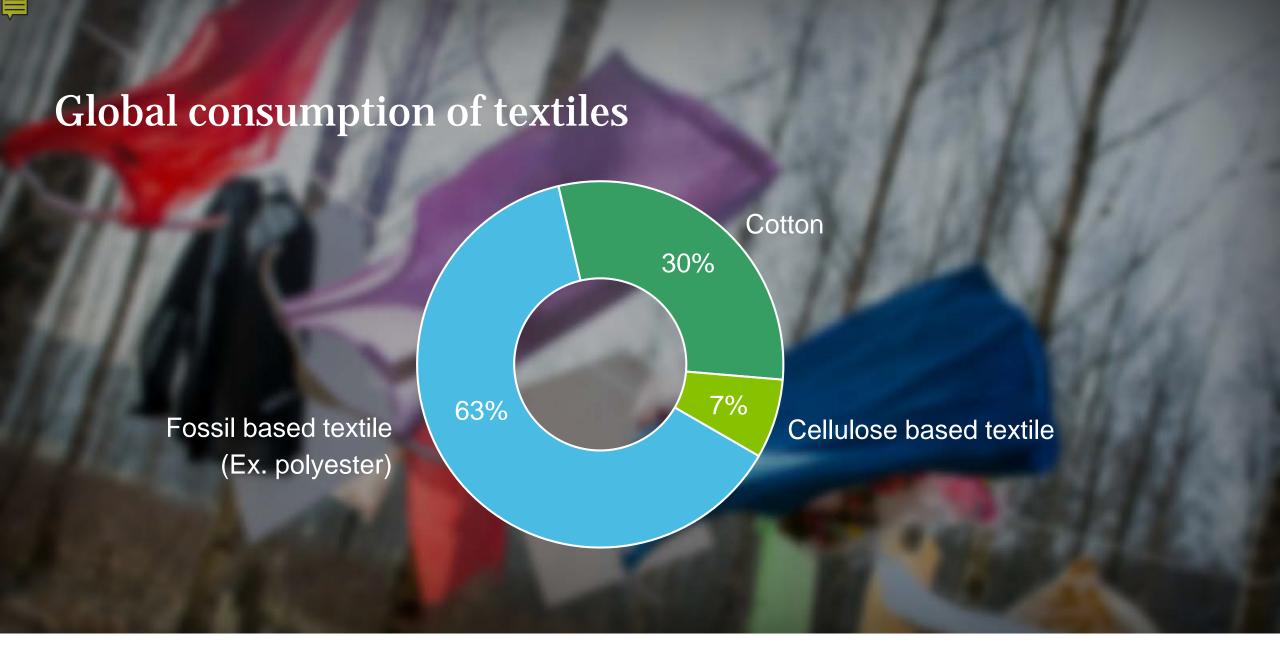
Biodegradable! Renewable! Same quality!





















Biofuels based on forest raw materials \rightarrow rest products





Purification of crude methanol



Produces biodiesel from tall oil residue from mill

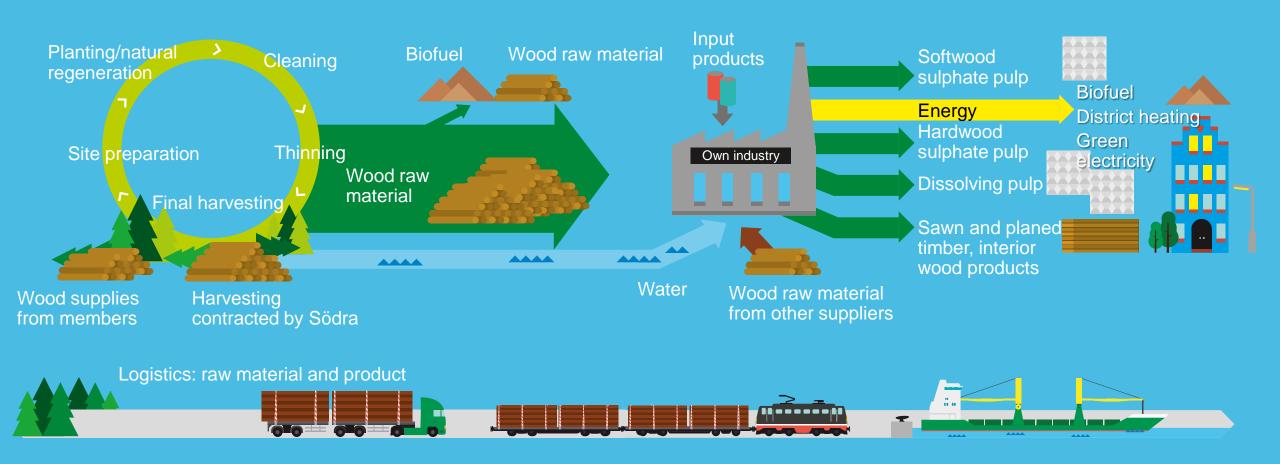
Södra invest to produce biomethanol residue from mill

Advanced technology for biofuels residue from mill





From seed to finish product and a positive electrical energy balance





A pulp mill is a biorefinery





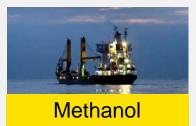


















15 sustainability targets including three equivalent to our financial targets

Fossil-fuel free

Rate of forest growth

Occupational injuries

Target: 0

Target: 20 %

Target: **0**



Södra's production will be fossilfree by 2020, and Södra's transportation will be fossil-free by 2030.



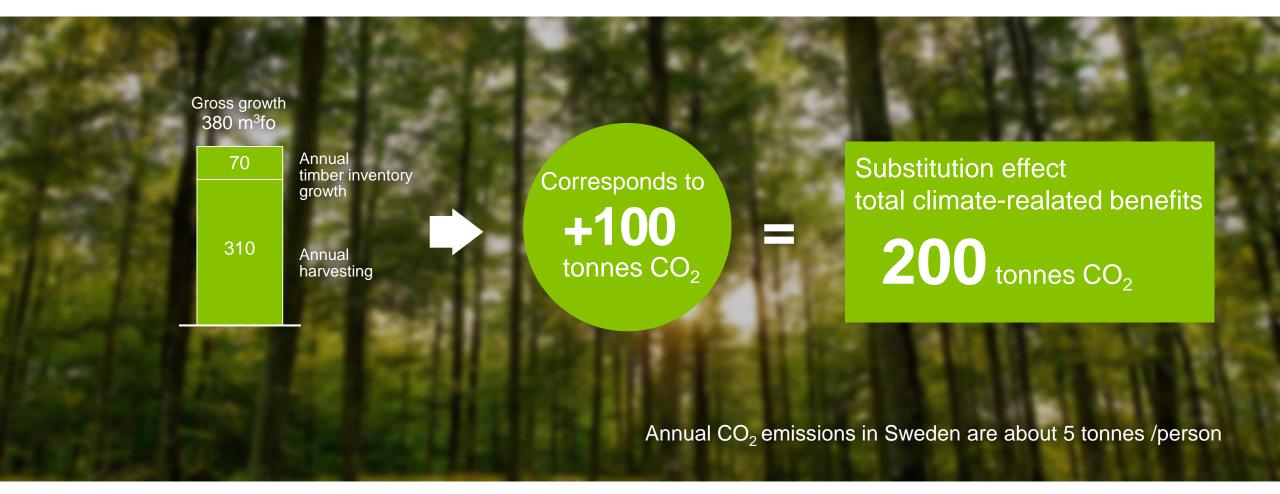
By 2050, the annual rate of forest growth will be 20 % higher than in 2015.



A zero accident vision and the lost time accident rate (LTAR) will decrease by 15 % per year until 2020.



An average member estate offsets the CO2 emissions of 40 Swedes – an area of 50 ha







Södra contributes to the UN Sustainable Development Goals







The forest is a renewable superpower and improves the climate in three main ways

