

BIOENERGY USE TO COMBAT CLIMATE CHANGE – WHAT ROLE FOR FSC?

FSC General Assembly

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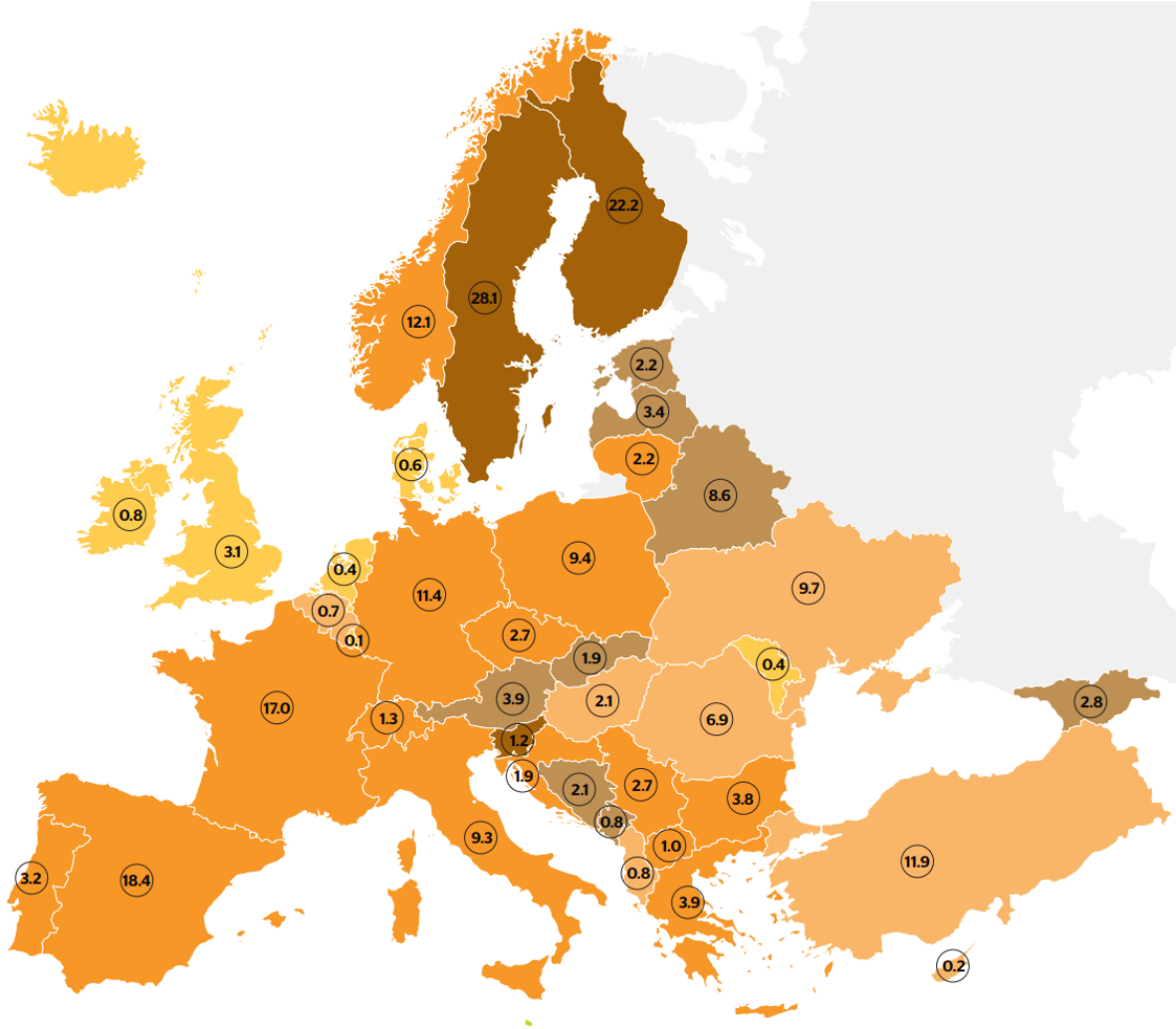


FINLAND IS MOST HEAVILY FORESTED COUNTRY IN EUROPE

Share of forest area (%)

- 0 - 15
- 16 - 30
- 31 - 45
- 46 - 60
- 61 - 100

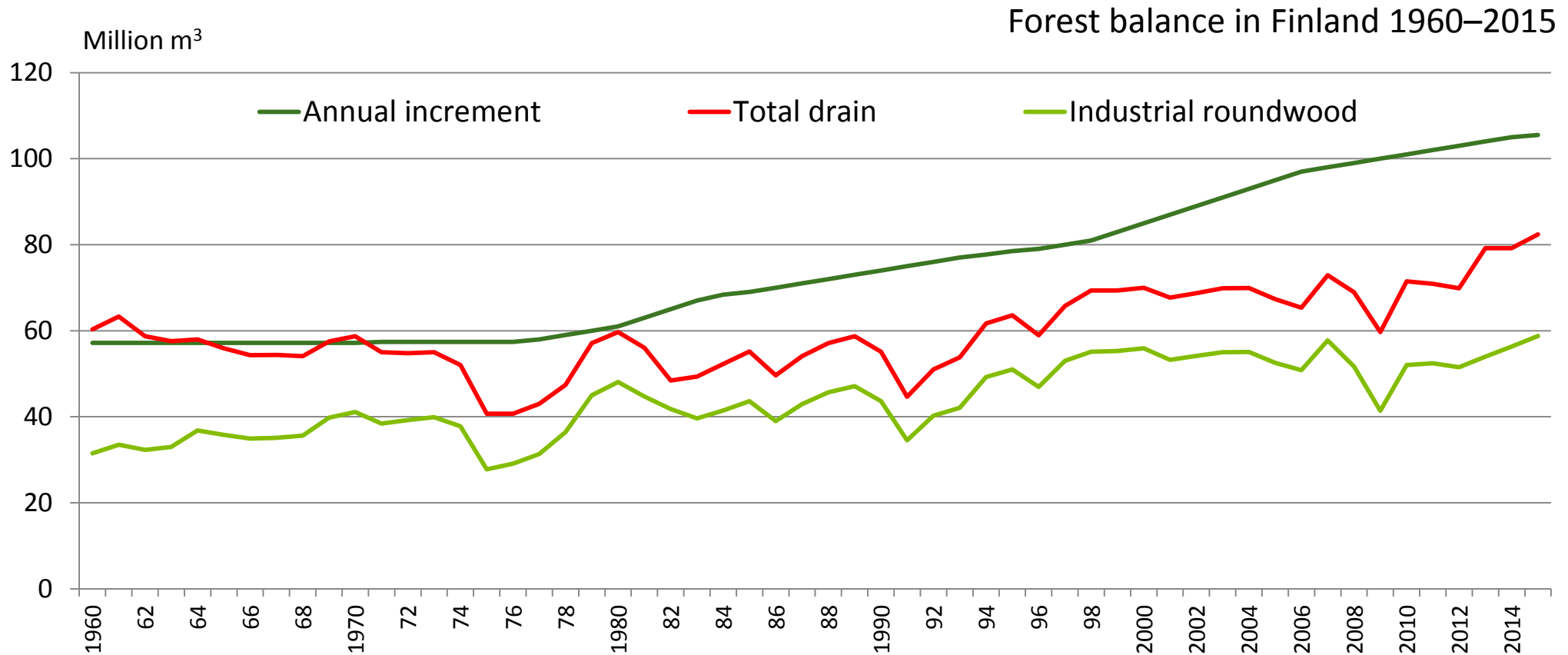
3.5 Forest area (million ha)



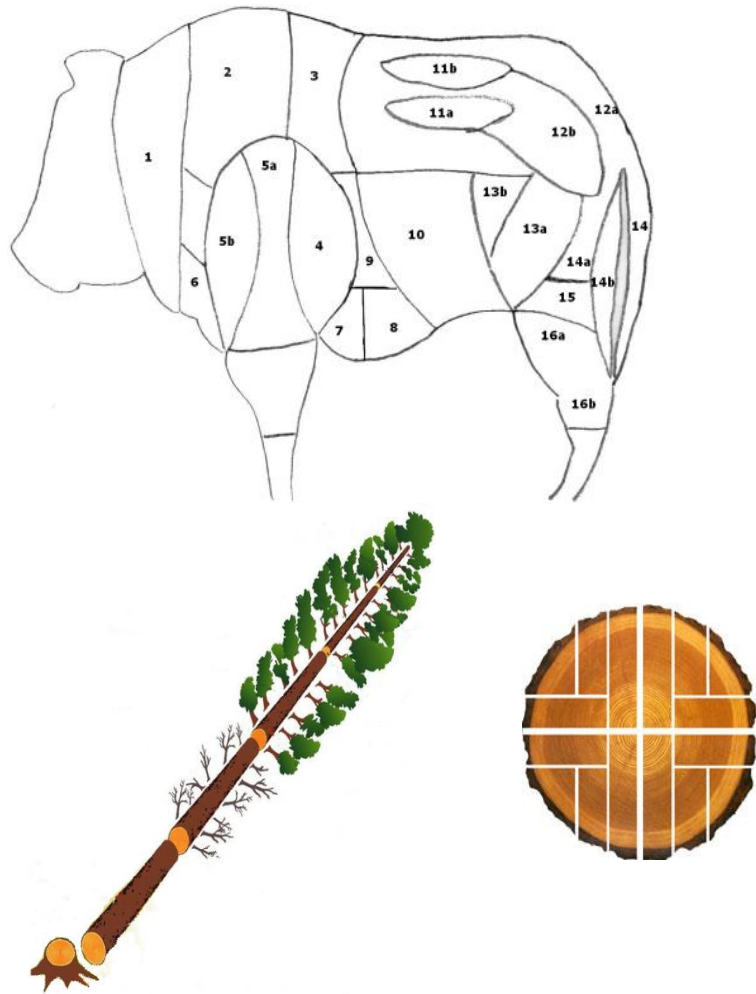
SOURCE: State of Europe's Forests 2015
11.10.2017

CONTINUOUS FOREST GROWTH SINCE MID 1970'S

- IN LAST 40 YEARS TOTAL GROWING STOCK HAS INCREASED FROM 1,5 TO 2,5 BILLION M³ WHILE PROVIDING 2,3 BILLION M³ WOOD FOR VARIOUS PURPOSES



OPTIMIZING THE USE OF WOOD IS BUSINESS AS USUAL WHO CAN AFFORD TO WASTE MATERIAL?



Buildings and interior design



Packaging



Wood and other materials together



New wood and paper products



Biopolymers and bio plastics



Medicine and wellness

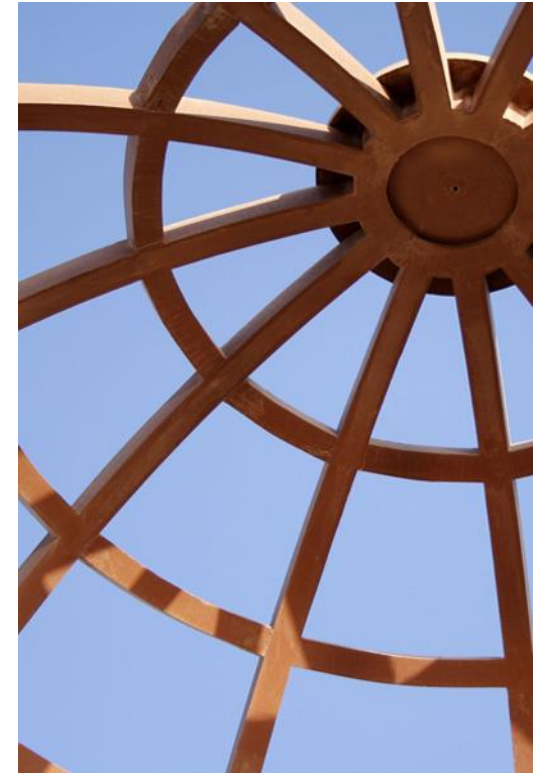


Bioenergy and biofuels

Bioenergy comes mainly as a by-product from industrial processes, also production of biofuels is increasing

FOREST INDUSTRY, CLIMATE AND BIOENERGY

- Wood-based products provide various benefits:
 - Closed circle of atmospheric carbon → bioeconomy
 - Replace non-renewable materials
 - Replace fossil-based energy
 - Recyclable → circular economy
- 60 % reduction of CO₂ emissions since 1990
- At the same time considerable increase of renewable energy
 - Bioenergy produced in our mills is *dependent* on manufacturing process
 - 83% of mill fuels is bioenergy, coming from side-streams of production
 - Cirka 2/3 of total renewable energy production in Finland is related to forest industry and its processes (black liquer share app. 50%)
- We see that wood processing and bioenergy are a natural pair also in the future

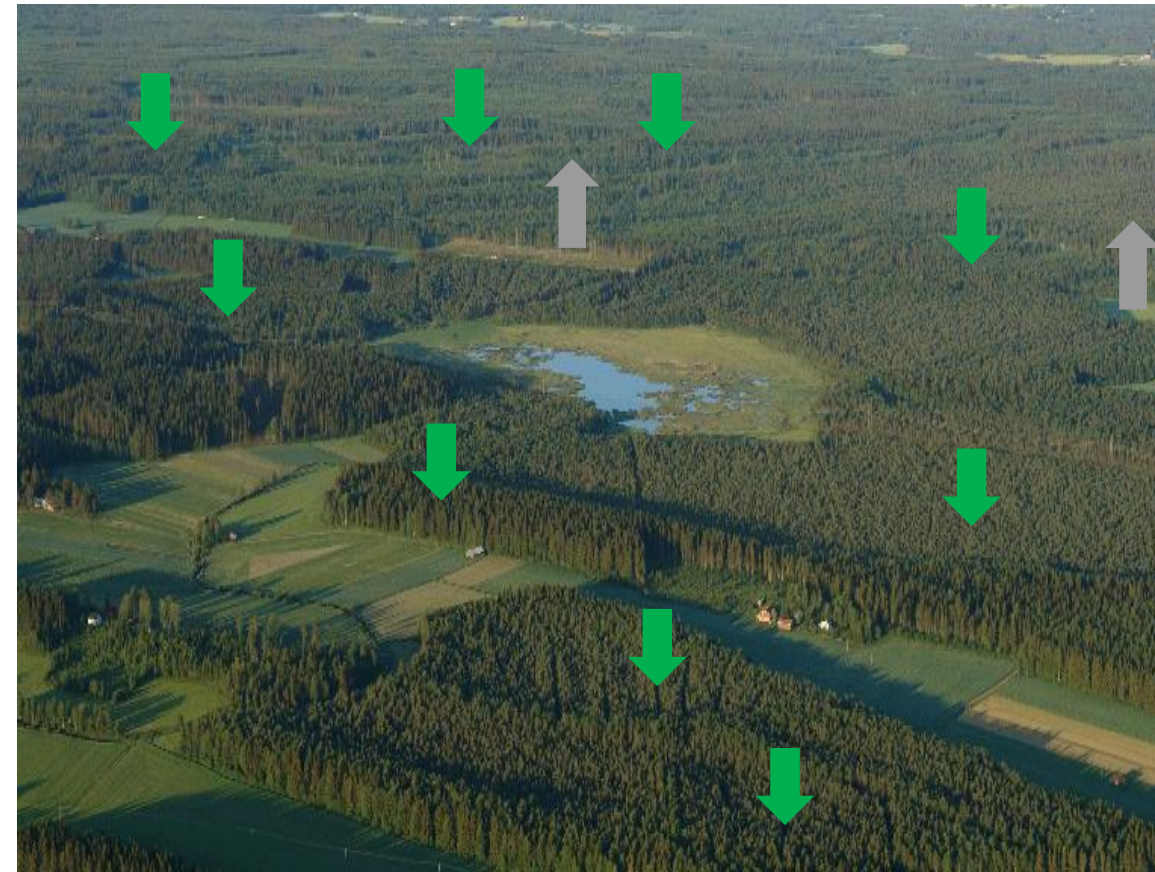


Issues to be considered in FSC's bioenergy and climate discussion

- Science, IPCC 5th Assessment Report
 - bioenergy is carbon neutral in bioenergy production
- Reporting practices → forest-based emissions are already calculated on LULUCF sector
- Time frame and scale → different studies provide different conclusions

- A complex question where:
 - ***FSC should neither start classifying nor promoting different products based on carbon arguments*** but
 - ***Secure that wood from FSC certified forests is from sustainable sources*** and
 - ***Advocate for positive climate role of FSC certified forests and wood products in general***

↓ Regrowing plots as carbon sinks ↑ Harvested plot as temporary carbon source





Evolving

Forest Industry

**PROSPEROUS
BIOECONOMY**