

Forest Ecosystems and Wood Products – Consequenses for Net Carbon Budget



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Harvested wood products – IPCC methodology

- **HWP and AFOLU Sector**
- **Energy sector – biofuels**
- **Waste sector – wood disposal**
- **Import – Export of HWP**
- **Inherited emissions**

Sustainable Forestry Carbon Cycle

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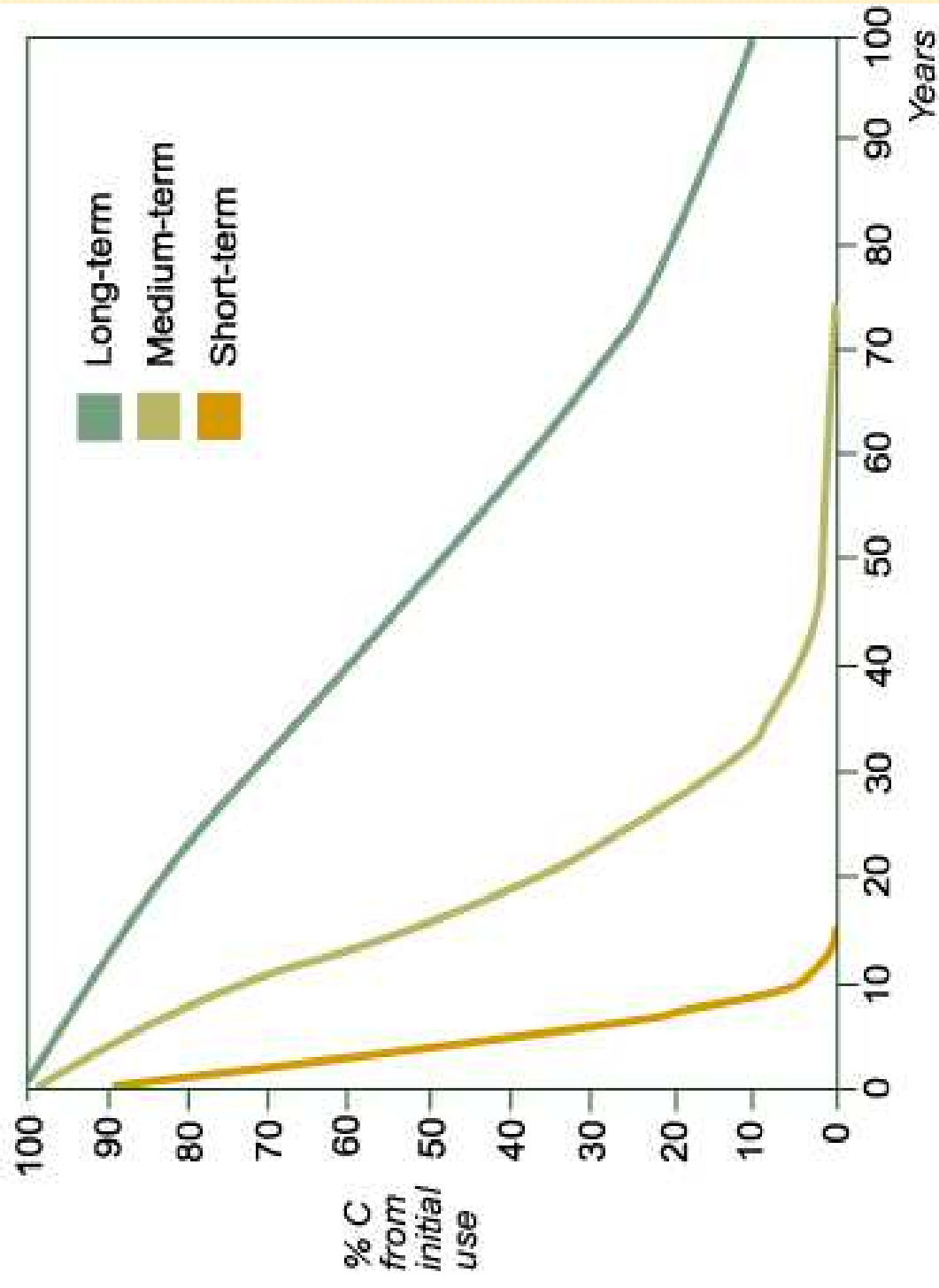
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Harvested wood products

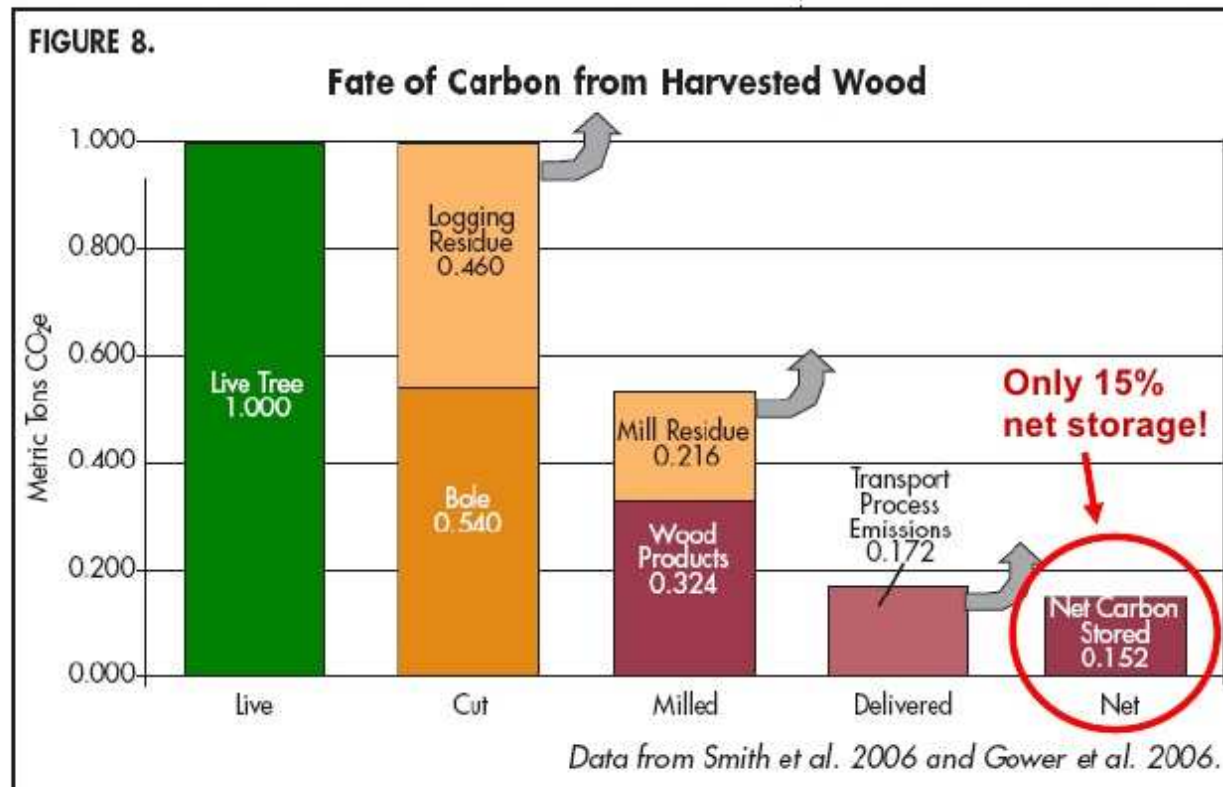
- IPCC methodology – 5 carbon pools
- HWP → Changes in Forest biomass stocks
- Basic assumption of IPCC methodology – Annual harvest in current year means direct CO₂ emissions in the current year, but it is not true due to carbon stored in HWP during the time
- Definitions – problems with the borders
- IPCC methodology allows to include the HWP into calculations

Carbon remaining as sink in wood based products
(Row, Phelps, 1990; Karjalainen et. al., 1994)



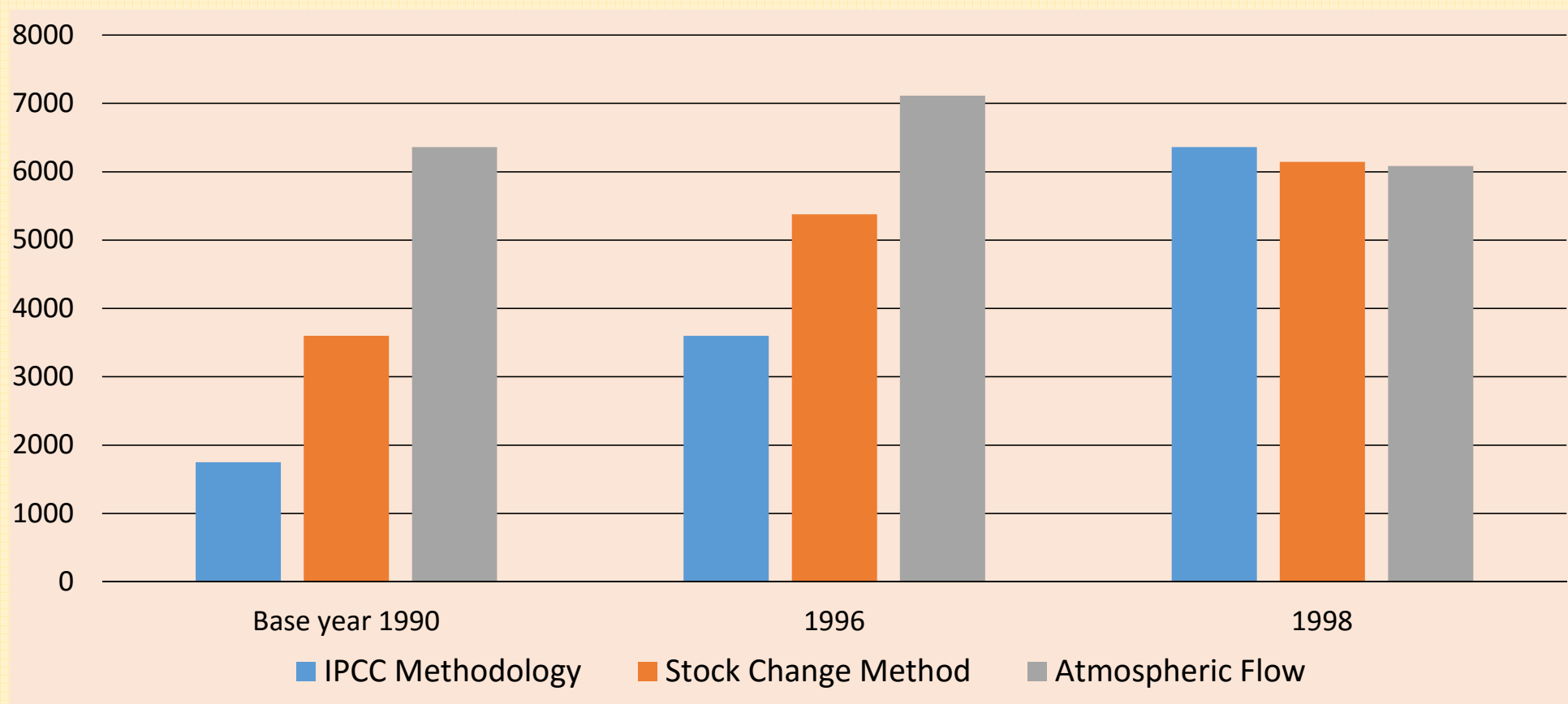
U.S. Study on Carbon in Harvested Wood products

Only a small fraction of forest carbon is stored in wood products.



Logging transfers most of the carbon in the forest to the atmosphere as logging slash, mill waste, and processing emissions.

HWP – results (Slovakia, data in Gg CO₂)





Thanks for your attention