Which forest resources do we have globally to realize the bioeconomy?

Peter Csoka, Forestry Department, FAO

Young Leadership Programme Eurasia 11-15 March 2019, Joensuu, Finland

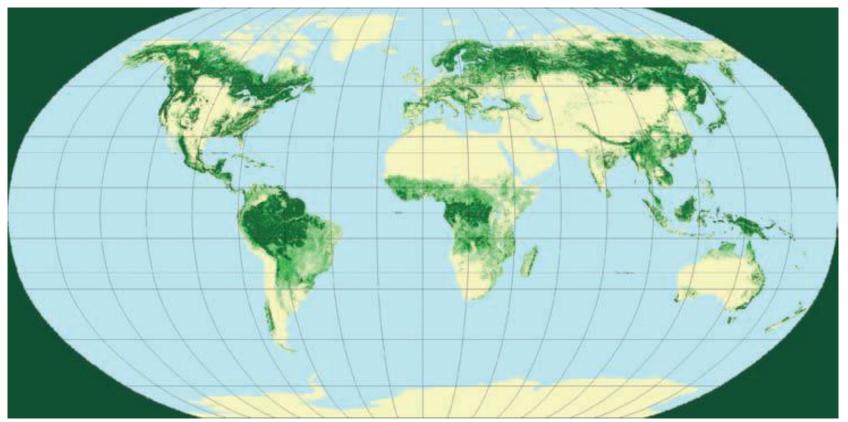


The World's forest resources, 2015



Forests: 3.999 billion ha

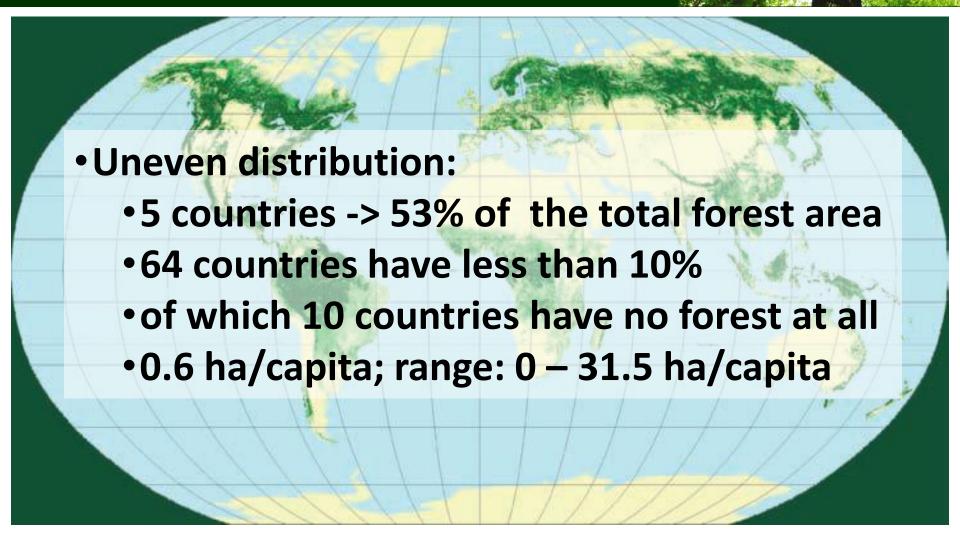
Other wooded land: 1.2 billion ha



About 1/3 of land area, ~ agriculture, decreasing

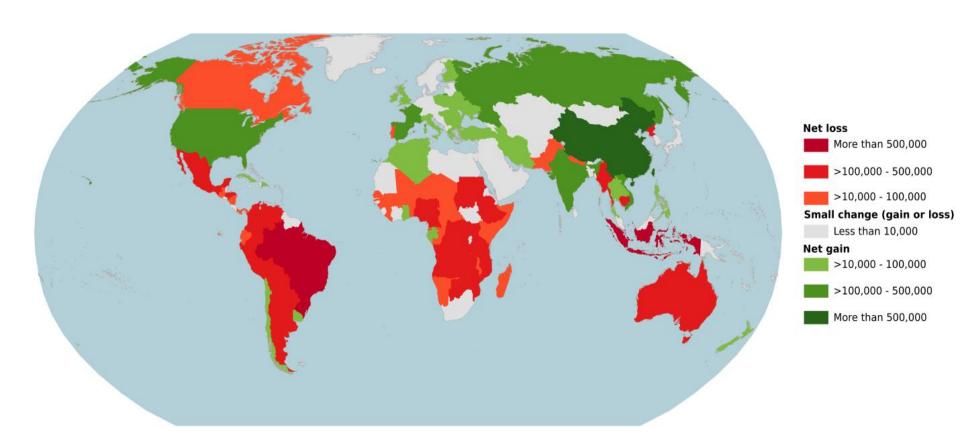


The World's forest resources





Forest area change 1990-2015

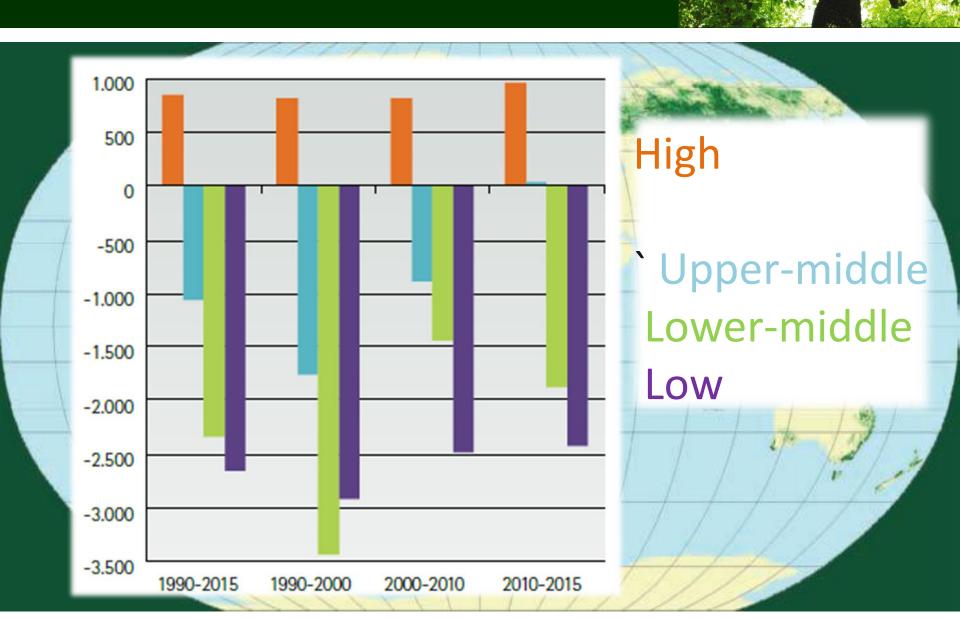


1990-2000: -7,267 2000-2005: -4,752 2005-2010: -3,414

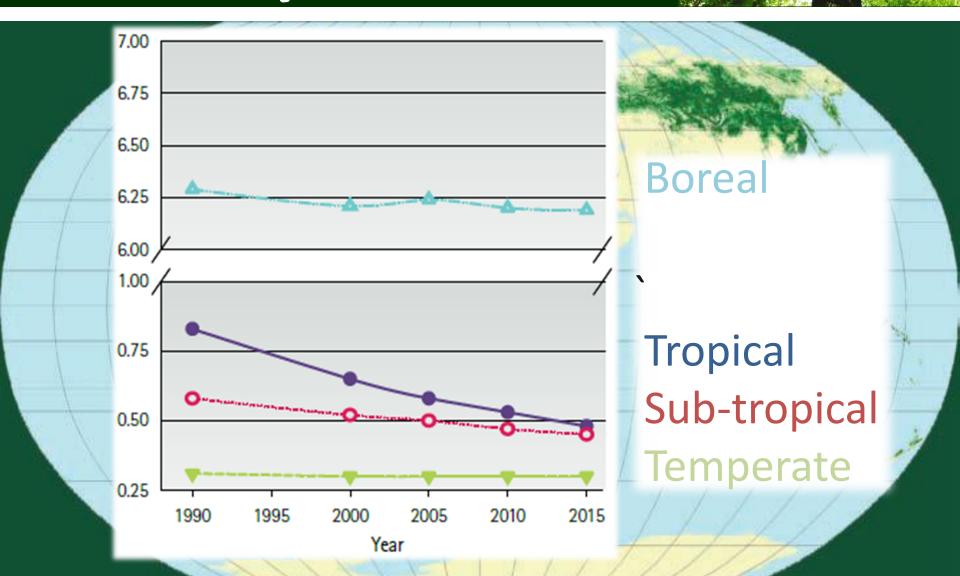
2010-2015: -3,308 2015-2020: ????



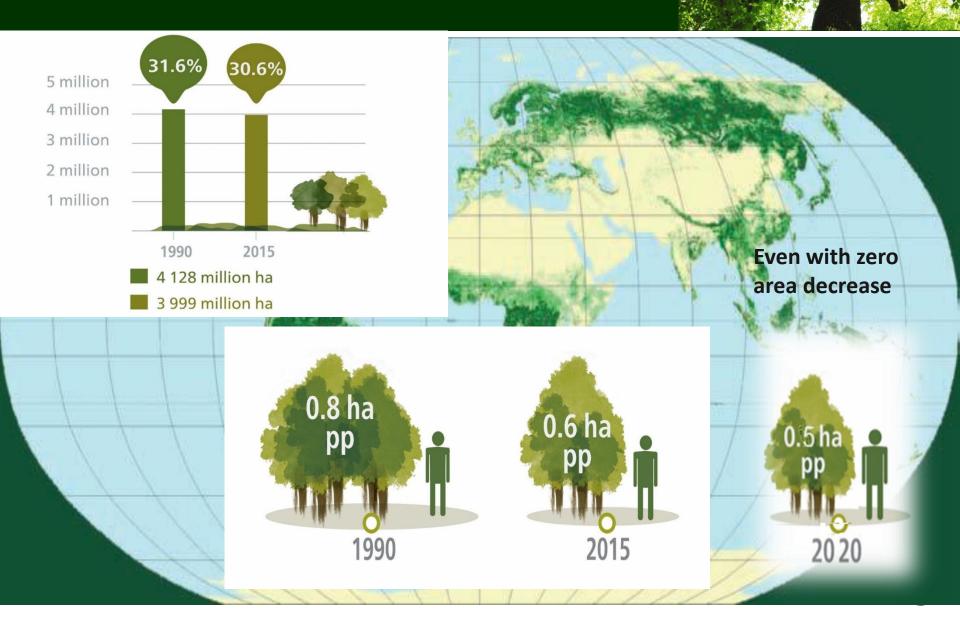
Forest area change by income category



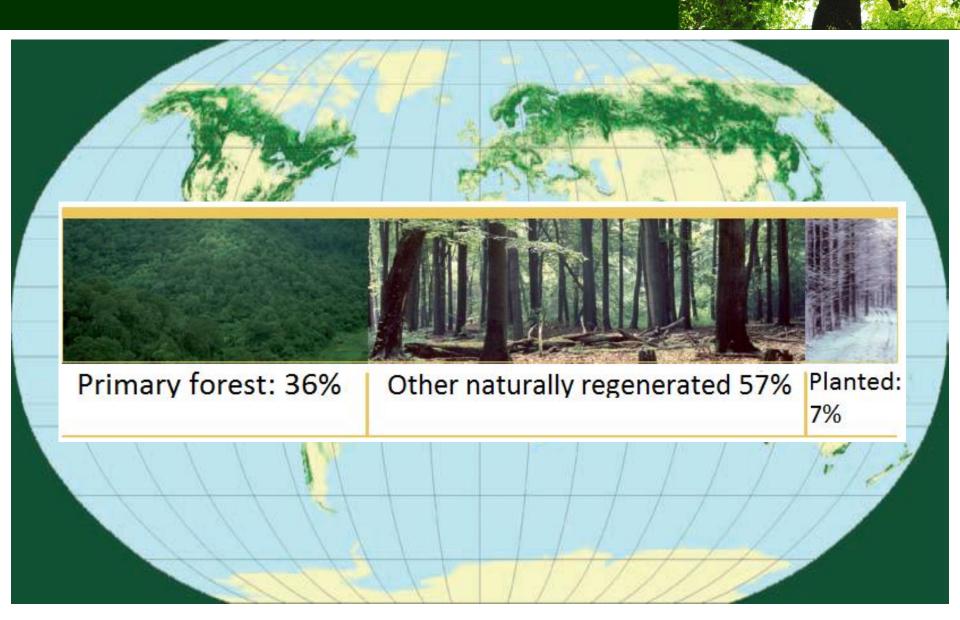
The World's forest resources - per capita area f(area; population)



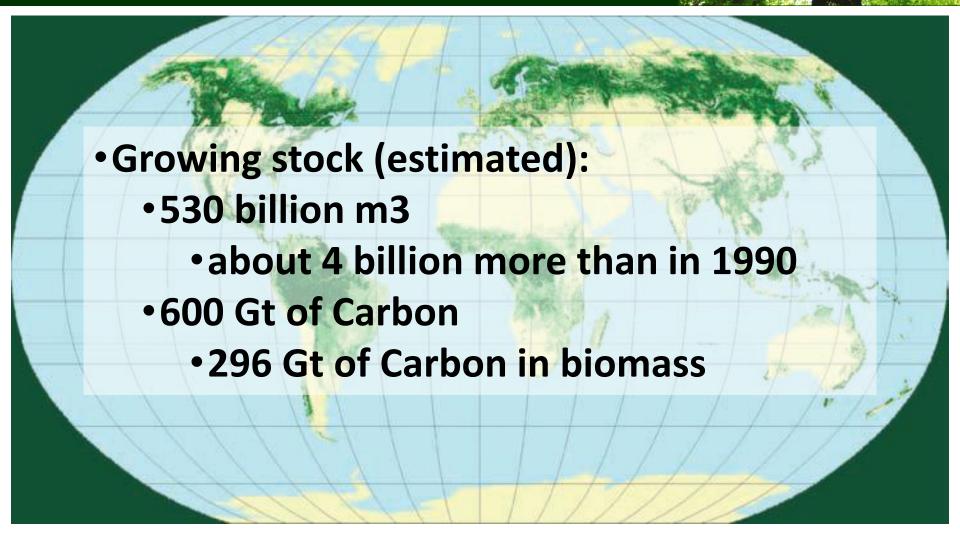
The impact of population growth



The World's forest resources - natutalness

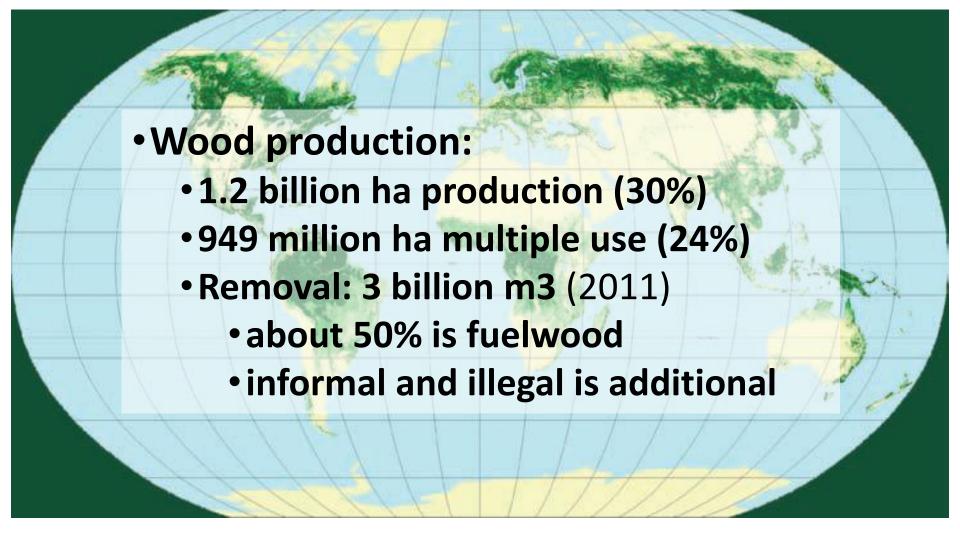


The World's forest resources – growing stock



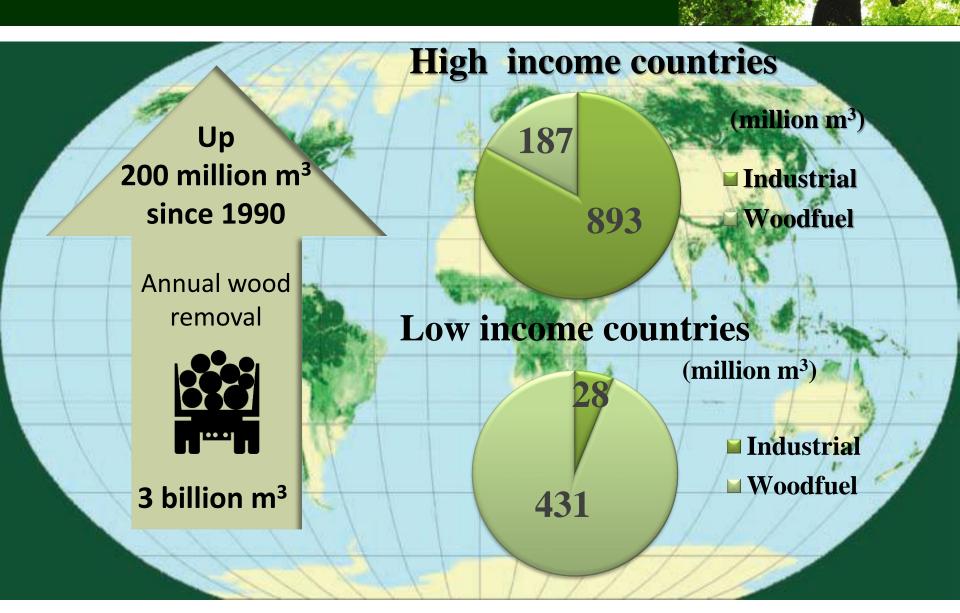


The World's forest resources

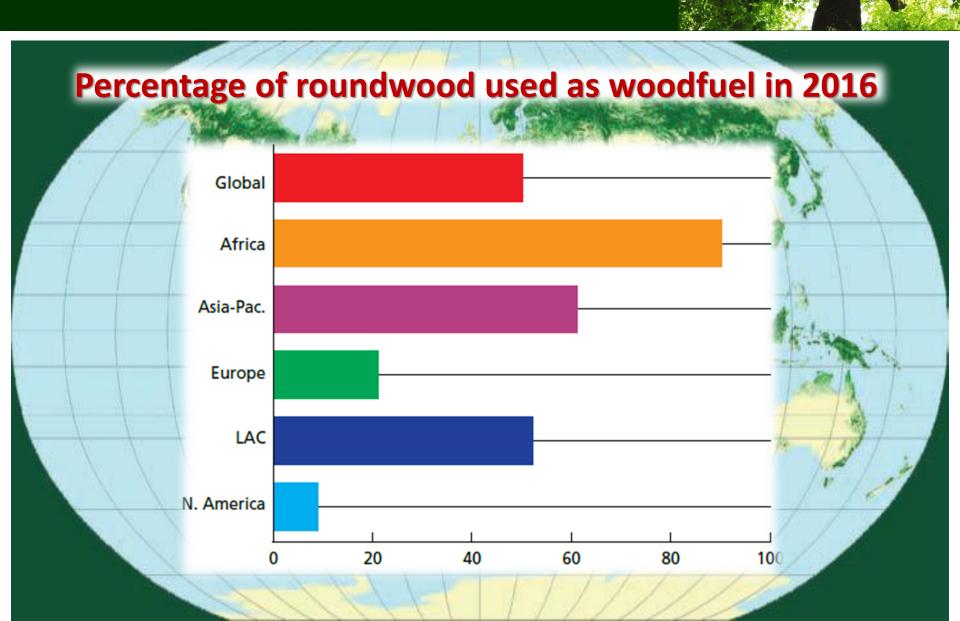




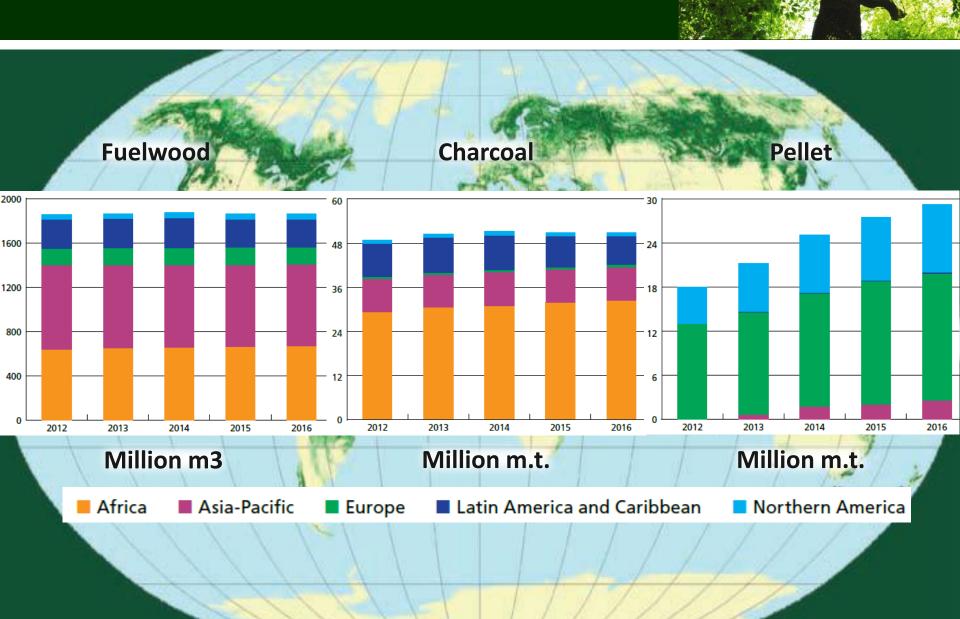
What is the wood used for?



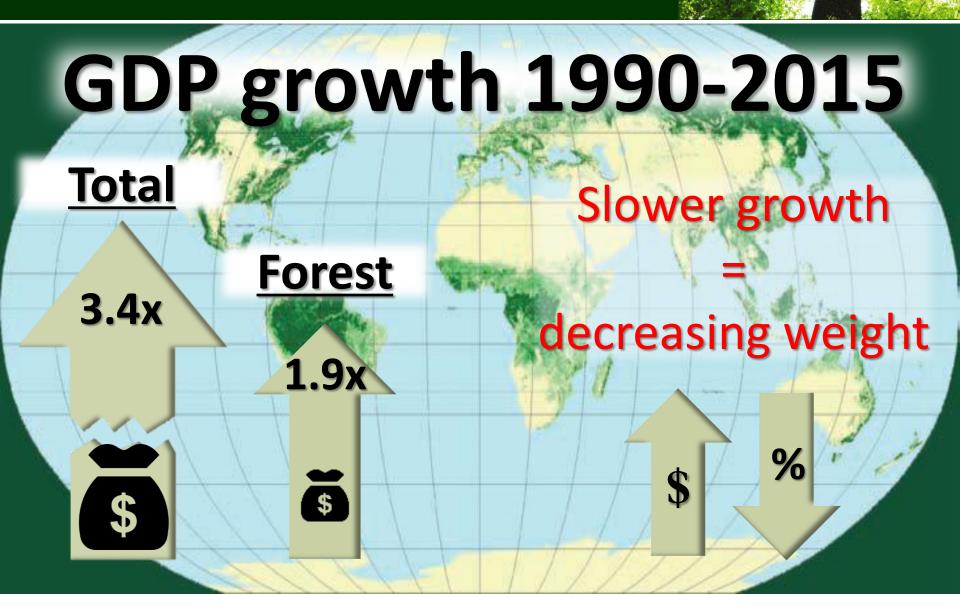
What is the wood used for?



What is the wood used for?



What else has changed?



Forests' socioeconomic benefits (SOFO2014)

- \$600 billion (0.9 of the global GDP) in the formal sector
- \$88 billion in the informal sector
 - a conservative estimate
- Employment for 13.2 million (0.4%)
- 41 million employed in the informal sector
 - another conservative estimate
- 880 million produces woodfuel and charcoal
 - part-time activity, estimated at 5%

Forests' socioeconomic benefits



Consumption benefits:

- Energy: 772 MTOE or 6% of the global total TPES
 - 27% in Africa, 2% in North America
 - 90% in 15 countries
 - 2.4 billion cook with wood/charcoal
- Housing: 1.3 billion (very conservative estimate)
- Health:
 - up to 80% of the population rely on traditional remedies
 - 765 million sterilize water with wood/charcoal
- Food: 76 million tonnes (0.6%)







Challenges

- Major drivers come from outside the sector
- The true value of forest is often unknown/disregarded
- Forest is often:
 - outcompeted by other economic activities
 - weakly recognized in developmental policies



Opportunities



- Convert political relevance to tangible results:
 - Aichi Biodiversity Targets
 - 2030 Agenda for Sustainable Development
 - Paris Agreement on Climate Change
 - UNSPF 2017-2030



Opportunities (SOFO2016)



- Food security can be achieved without destroying forests:
 - Improved coordination
 - Regulation of change
 - Integrated land-use planning
 - Agricultural intensification
 - Poverty alleviation



Opportunities (SOFO2018)



- Forests contribute to all SDGs
 - Good policies require evidence
 - Secure access and tenure rights for all
 - Enabling environment for the private sector
 - Stakeholder engagement in good governance
 - Cross-sectoral coordination at all levels



