

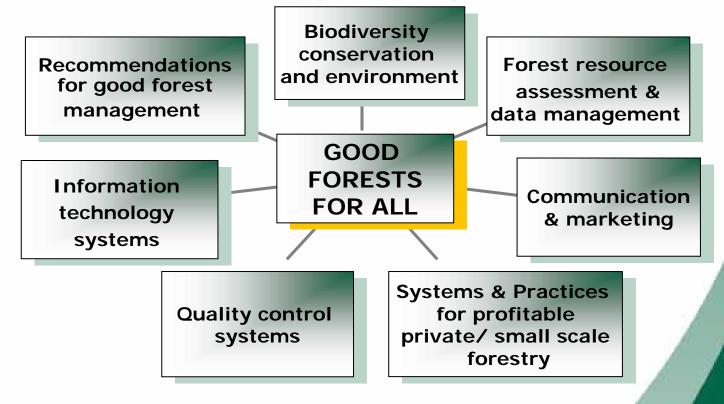
Forestry Development Centre Tapio

Potential areas for co-operation

Ritva Toivonen
Director General
TAPIO

Forestry Development Centre TAPIO

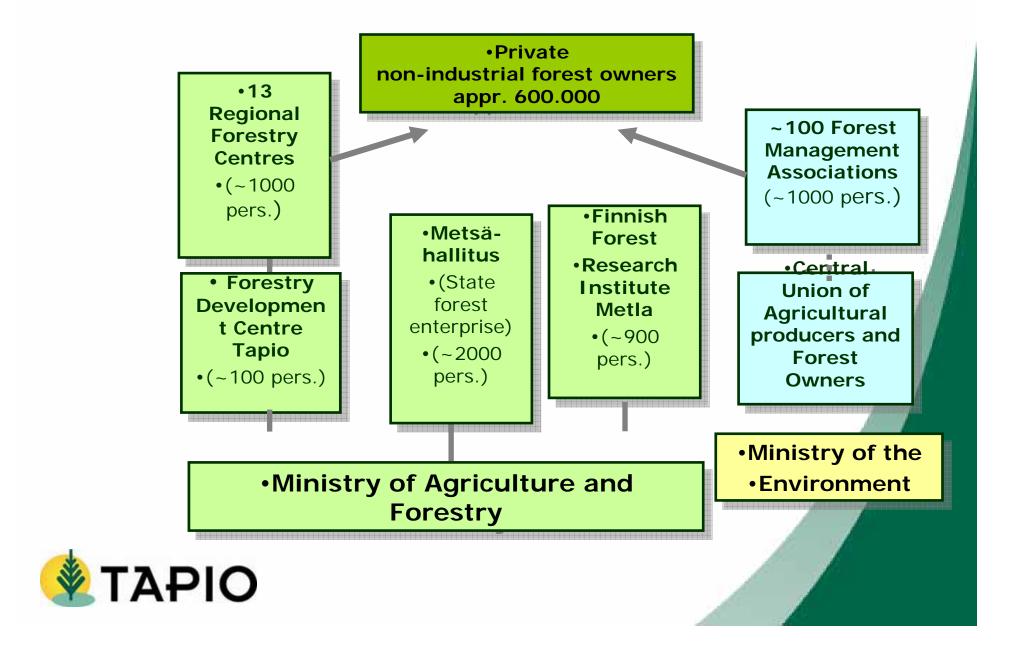
- Research Policy Practice Interface for 102 years: We refine research and the latest technology into best practices and systems for sustainable forestry. Tools and knowledge to achieve better forest management.
 - Turnover 16,5 million €, Personnel 100





- Forest Seedlings and Seeds (daughter companies)
 - Publishing Company

Private forestry administration and organizations

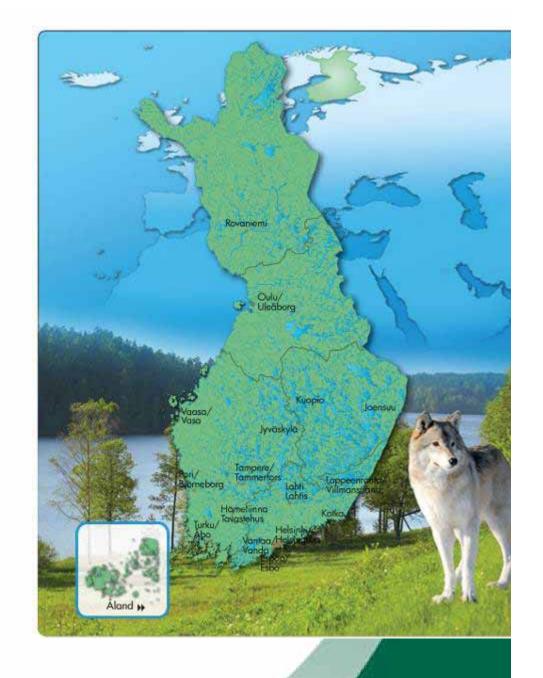


Forest has always been private property

Everyman's rights

Importance to NA

•~440 000 NIPF
"60
% of forest area





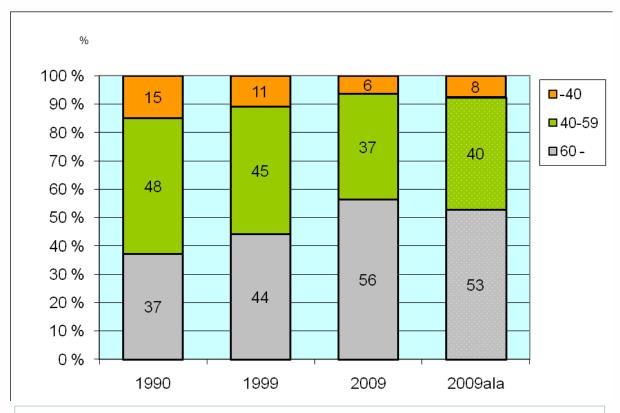
Potential areas of Co-operation 1

Trends in forest ownership

- Service development –
 internet and e-based education
 Development of organizations and management of organizations
- smaller holdings senior citizens higher
 age, urban (slowly) "distant ownership"
- higher education, higher incomes
- changing motives, more segments



Age of forest owners 2009 (Metla, Leppänen)



Forest property is family property
Male 75%, female 25%
Increasing level of education

1990 54 v. 1999 57 v. • 2009 60 v.

Profession (2000)

-30% wage earners
-6% entrepreneurs
-22% farmers
-37% on pension
-5% other



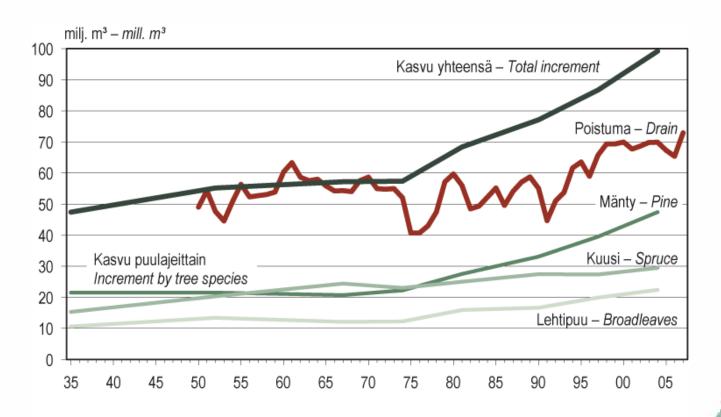
Potential areas of Co-operation 2

Trends in forest utilization and services provided from forests

- 1) Bioenergy
- 2) Climate change and related services and impacts, policy issues
- Changing forest industry and energy markets => demand and markets for forest products



The growth of trees and removal



Lähde: Metsäntutkimuslaitos – Source: Finnish Forest Research Institute

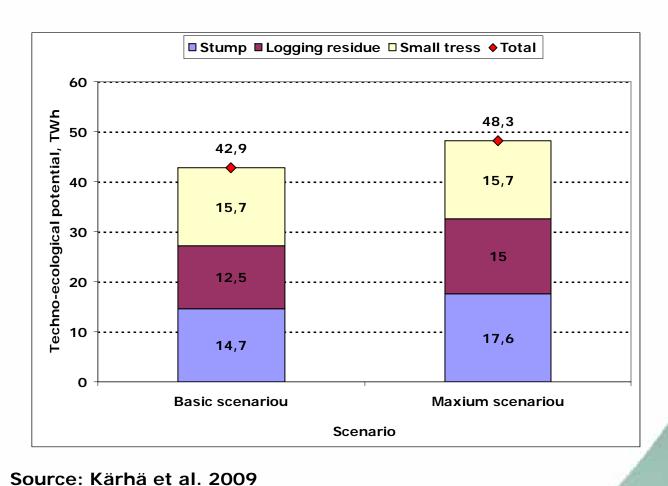
Puuston kasvu ja poistuma

Annual increment of growing stock and growing stock drain

Metsätilastollinen vuosikirja 2008



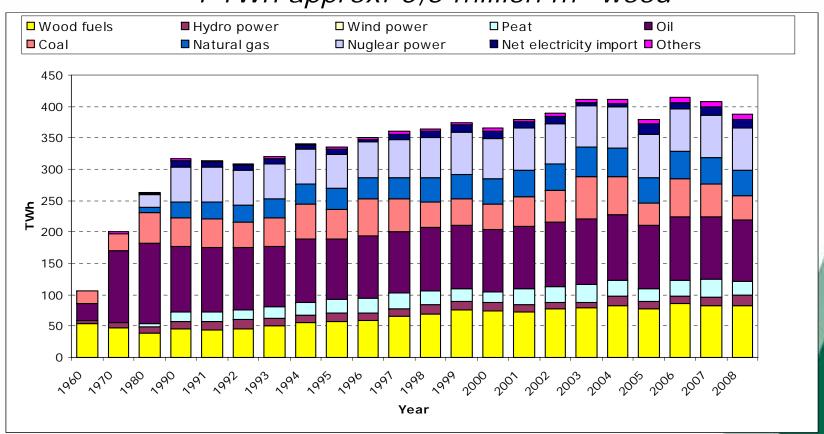
Energy wood potential





Total energy consumption in Finland 1960-2008

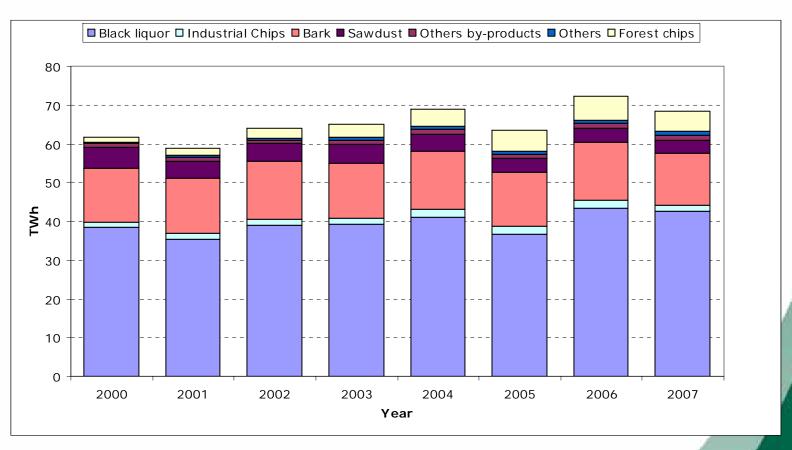
1 TWh approx. 0,5 million m³ wood



Source: Finnish Forest Research Institute



Consumption of wood fuels for energy production in 2000-2007



Source: Finnish Forest Research Institute



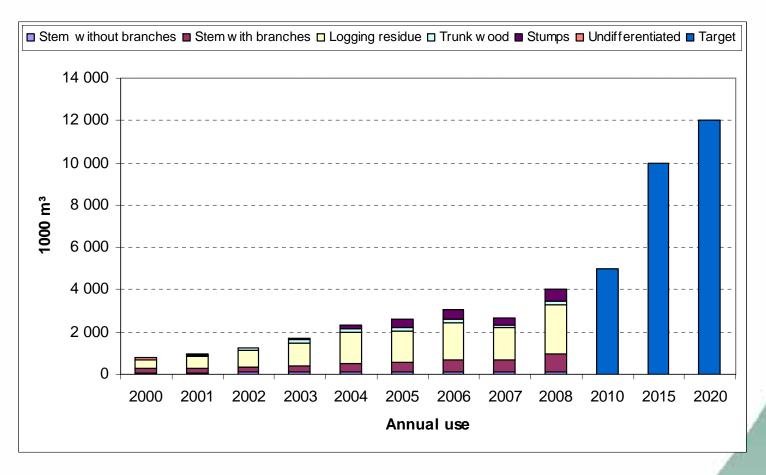
Use of renewable energy and target of 2020 (TWh)

	2005	2006 T	arget of 2020
Black liquor	36,7	43,3	38
Industrial chips	23,1	26,7	22
Hydro power	13,6	11,3	14
Recycled fuels and cheapest biogas	1,7	1,9	3
Forest chips	5,8	7,2	21
Energy wood small-scale use	13,4	13,6	13
Pellets and agriculture biomass	0,1	0,1	3
heat pumps	1,8	2,4	3
Others biogas	0	0	0,5
Liquid biofuels	0	0	6
wind and solar power	0,2	0,1	6
Total	96,4	106,6	129,5

Source: long-term energy and climate strategy



Forest chips use and targets



Source: Finnish Forest Research Institute



Potential areas of Co-operation 3

Trends in forest policy and development – internationalization, EU

1) Co-operation in international projects, EU-funded projects (in F&F, or outside Europe)
2) Co-operation in follow-up and analysis of EU-policies and impacts on policy implementation/service development
APIO

Thank you for excellent co-operation!

