

A national strategic research agenda (NRA)

for the Swedish forest-based sector



www.nra-sweden.se

3rd January 2011



NRA – Why?

- The forest-based industry is of the utmost importance for the Swedish economy.
- The Swedish forests represent significant financial, ecological and social values.
- In the long run, it will not be economically justifiable to manufacture other than higher value-added products in Sweden.
- Rising energy prices make changes necessary.



NRA – unique initiative

- For the first time, all parties concerned have been involved from the beginning: industry, forest owners, authorities and the research community.



What products and services are covered by the NRA?

- Wood products (buildings, furniture, etc.).
- Pulp and paper (packaging, media, hygiene).
- Energy carriers.
- Bio-composites and “green” chemicals.
- “Soft” forest values.



The objectives of the NRA

- Create a prosperous future for Sweden's forest-based sector.
- Promote sustainable forestry.
- Contribute to more efficient research.
- Improve the level of innovation.
- Stimulate increased research funding.
- Utilise the possibilities of EU FP7.



FTP – Vision 2030

- The vision of FTP – the European Forest-based sector Technology Platform - is for the European forest-based sector to play a key role in a more sustainable society.



NRA – Vision and Aims

- The Swedish forest-based sector unreservedly backs the FPT vision.
- The NRA supports the development and transformation of the forest-based sector.
in Sweden and also in Europe.



NRA – Timetable

- Work has been going on since late 2005.
- A research agenda was presented mid November 2006.
- Implementation started December 2006.



NRA - Organisation

- NRA Council and four “process groups” with associated reference groups.
- The process groups are: Forestry, Wood, Pulp & Paper and Bio-energy.
- Programme secretary.
- Process leaders.
- The NRA Council acts as the Swedish FTP National Support Group.



NRA Council

Industry: Karin Emilsson, Södra (Research Committee)
Ann-Britt Edfast, Sveaskog
Jan Lagerström, Swedish Forest Industries Federation
Wood

Authorities: Lars Wärngård, Peter Åslund, VINNOVA (Swedish Governmental Agency for Innovation Systems)
Anders Lewald, Alice Kempe, Energimyndigheten (the Swedish Energy Agency)
Hans-Örjan Nohrstedt, Formas (the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning)
Britt-Inger Andersson, Mistra (the Foundation for Strategic Environmental Research)

Chairman: Greta Fossum, Swedish Forest Industries Federation, (convener)



NRA - Process leaders

- Forest:** Kaj Rosén, Skogforsk (Forestry Research Institute of Sweden)
- Wood:** Charlotte Bengtsson, SP Träteknik
- Pulp & Paper:** Pia Wågberg, Innventia
- Bio-energy:** Nippe Hylander, ÅF



NRA - Reference groups

- Each process group is supported by a reference group comprising representatives of the sector, government funding authorities and the research community.



Reference group - Forestry

Tomas Lundmark	Skogsfakulteten, SLU
Stig Larsson	NL-fakulteten, SLU
Lars-Olof Rask	Växjö university
Jan-Åke Lundén	LRF-Skogsägarna (The Swedish Federation of Forest Owners)
Mårten Larsson	Skogsindustrierna
Herman Sundqvist/ Ann-Britt Edfast	Sveaskog
Göran Örlander	Södra
Anna Lundborg, Jan Svensson	The Swedish Energy Agency
Erik Sollander	Formas
	Skogsstyrelsen (The Swedish Forest Agency)
Kaj Rosén	Skogforsk, process leader



Reference group - Wood

Mikael Eliasson

Fredrik von Platen

Staffan Brege

Anders Rosenkilde

Anders Grönlund

Sören Edmark

Carl Hellström

Hans Andersson

Setra Group

Boverket

Linköpings universitet

TMF

Luleå Tekniska
Universitet, Skellefteå

SCA Timber

ELE Trävaru AB

Eksjö industrier

Cont.d.



Reference group - Wood

Tomas Bengtsson
Mattias Brännström
Sven Thelandersson
Eva Esping
Roger Roser
Pontus Friberg
Leif Gustavsson
Marie Johansson
Lars Martinsson

Södra Timber
Stora Enso Timber
Lunds Tekniska högskola
VINNOVA
Moelven Töreboda
Setra Group
Mittuniversitetet
Växjö universitet
Martinssons

Cont.d.



Reference group - Wood

Hans-Eric Johansson

Peter Nilsson

Olle Hagman

Florian Witt

Carl-Johan Johansson

Göran Fahlén

Jan Lagerström

Charlotte Bengtsson

Träbyggnadskansliet

Södra Timber

TCN

CBBT

SP Trätekt

SP

Skogsindustrierna

SP Trätekt, process leader



Reference group – Pulp&Paper

Anders Brolin
Peter Åslund
Hans Höglund
Camilla Rööst
Olle Steffner
Gunnar Svedberg
Lars Vallander
Lars Wiklund
Eva Sötting
Folke Österberg
Mikael Lindström
Agne Swerin

Stora Enso
VINNOVA
MittUniversitetet
Södra Cell
Korsnäs
Innventia
Energimyndigheten
Holmen
Billerud
SCA
Innventia
YKI

Catharina Ottestam

Innventia, process leader



Reference group – Bio-energy

Peter Axegård

Göran Hedman

Johan Saltin

Patrik Klintbom

Eva-Katrine Lindman

Ann-Britt Edfast

Roine Morin

Sven Risberg

Sune Wännström

Folke Österberg

Anders Snell

Tore Persson

Innventia

Naturbränsle

VEAB

Volvo

Fortum

Sveaskog

Södra

Energimyndigheten

Sekab BioFuel Industries

SCA

Billerud

Smurfitkappa

Nippe Hylander

ÅF, process leader



Research Platforms



The NRA research areas correspond closely to those of FTP/SRA.

BFP, which has its own budget, is active in certain areas of the NRA.



The NRA Platform

- NRA identifies high-priority areas for Sweden.
- NRA has no financing “on top”.



The relation NRA – FTP/SRA

- Large similarities in structure and content
- Differences on activity level.
- Close links.



Funding mechanisms NRA



The realisation phase consists of projects and programmes with varying partnerships, budgets, types of financing and time-frames.



The NRA research structure

- The NRA is made up of 14 National Focus Areas.
- They address the same research-oriented Strategic Objectives as those of the FTP/SRA.



NRA Strategic Objectives

- Development of innovative products and services.
- Development of manufacturing processes, including efficient utilisation of energy.
- Enhanced availability of forest-based raw materials for products and energy.
- Sustainable and multi-functional forestry.
- The sector in a social perspective.



The National Focus Areas

are described under the following headings:

1. Vision.
2. Strategic importance.
3. Research fields.
4. Important research activities.
5. Expected effects.
6. General assessment.



National Focus Areas

- NS-1 Building and living with wood.
- NS-2 Service life of wood products and life-cycle costs.
- NS-3 More efficient wood processing.
- NS-4 Fibre-based packaging.
- NS-5 Paper in the media society.

Cont.d.



National Focus Areas

- NS-6 New product areas for wood fibre industry.
- NS-7 Processes and process systems for pulp and paper production.
- NS-8 Energy from forest raw materials.
- NS-9 Trees for the future.
- NS-10 Forestry with multiple objectives.

Cont.d.



National Focus Areas

- NS-11 Improved knowledge of forest eco-system.
- NS-12 Commercialisation of soft forest values.
- NS-13 Customer-adapted supply of wood-based raw materials.
- NS-14 The forest-based sector from a social perspective.

Cont.d



Swedish Support Office for Forest-based Sector EU-research



www.fbsresearchsupport.se

www.nra-sweden.se





EU Support office

- Preparation (calls, lobbying, etc.).
- Proposal planning and submission.
- Project management and reporting.

**SWEDISH
GOVERNMENT AND
AUTHORITIES
Contacts**

NRA/BFP

Other actors
Cooperation and support

Customers

**EUROPEAN
COMMISSION
Contacts**

FTP/SRA

Innovawood
Cooperation and support

EFPRO
Cooperation and support

EFI
Cooperation and support

EU Support Office

Manager: Kennert Johansson, Innventia

Co-operating organisations:

- Innventia
- Skogforsk
- SP Träteknik

