



# **Overview of Structures, Resources and On-going Activities**

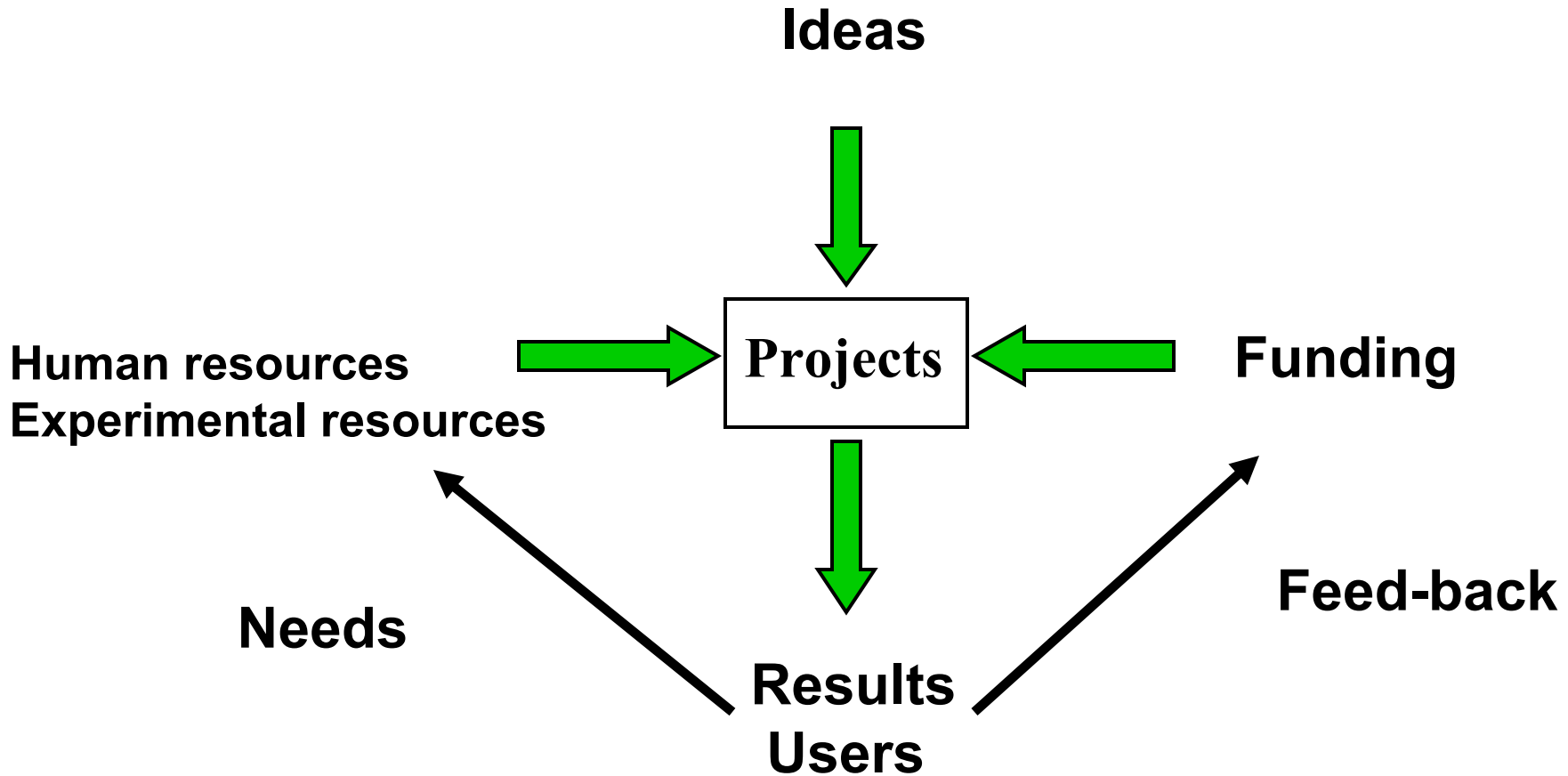
**Lennart Eriksson, STFI-Packforsk**

**The European Forest-based Sector Research Forum 2005**

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# The R&D arena

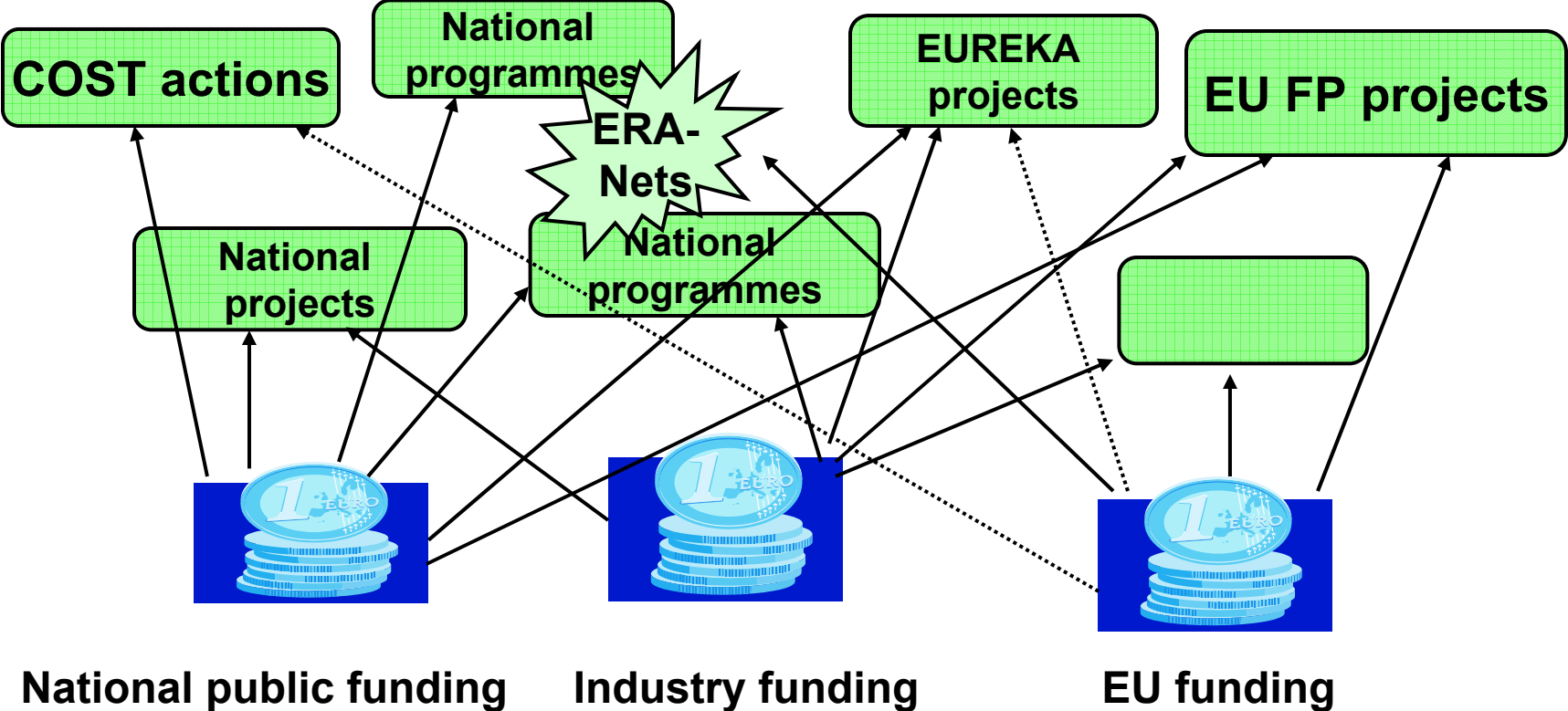




# **This contribution covers:**

- Funding mechanisms
- Networks and organisational structures
- Research capabilities  
(outside companies)  
  
-on EU level

# Funding mechanisms



Original source: Christine Hagström-Näsi



# EU-funding instruments for R&D (FP7)

- Joint Technology Initiatives (JETIs) ,  
**New**
- "Individual research projects" (frontier research), **New**
- Collaborative research (earlier IPs, STREPs)
- Networks of Excellence (NoEs)

cont.



# EU-funding instruments for R&D (FP7)

- ERA-NET schemes (ERA-NET + , **New**)
- Research for the benefit of SMEs (CRAFT)
- Training of researchers (mobility)
- Support to research infrastructures



# Examples of large EU FP6 research projects (IPs and NoEs)

- **EFORWOOD (IP)** (whole sector)
- **FIREPARADOX (IP)** (forestry)
- **CARBOEUROPE (IP)** (forestry)
- **EvolTree (NoE)** (forestry)

cont.



# Examples of large EU FP6 research projects (IPs and NoEs)

- **ECOTARGET (IP)** (pulp & paper)
- **SUSTAINPACK (IP)** (pulp & paper)
- **Renew (IP)** (biofuels)
- **Chrisgas (IP)** (biofuels)
- **Bioenergy (NoE)** (bioenergy in general)



# Funding mechanism ERA NET

- **Partners are ministries and research councils**, in some cases programme management organizations or coordination bodies
- The idea is to step up the cooperation and **coordination of national or regional research activities through networking** of programmes



# ERA NET schemes in the forest-based sector

- ERA Wood Wisdom NET
- ERA NET Bioenergy
- ERA Build NET (not only wood)



WoodWisdom-Net

# **ERA WoodWisdom-Net**

Competitiveness from sustainable and innovative forest-based products, processes and services

**ERA WoodWisdom-Net **presently** consists of 18 partners from 8 countries**

- FINLAND
- DENMARK
- GERMANY
- NORWAY
- SWEDEN
- AUSTRIA
- UK
- FRANCE

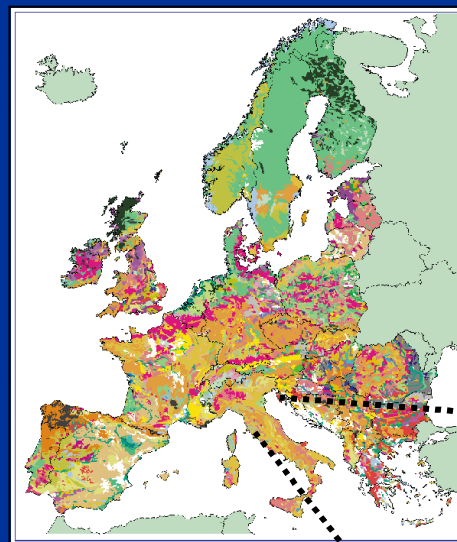


# Funding mechanism Large-Scale European Infrastructures

Only (?) one example in the forest-based sector, EUROFACE (FP 6)

# Main features of EUROFACE

(Large European Infrastructure)



- 10 ha SRIC poplar plantation (1x1m<sup>2</sup> in plots, 2x1m<sup>2</sup> buffer plantation), drip irrigated, located in EU (central Italy)
- 3 plots (350 m<sup>2</sup>) at elevated [CO<sub>2</sub>] @ 550 μmol mol<sup>-1</sup> and 3 control plots, N-treatment (subplots)
- 3 year rotations (presently, at 2nd rotation)
- experimental material:
  - *P. x euramericana* (I214)
  - *P. nigra* (J.Pourtet)
  - *P. alba* (Italian selection)





## The COST – system

COST= European Cooperation in the field of Scientific and Technical Research

- Co-ordination of nationally funded research through COST Actions
- 35 member countries, over 200 running COST Actions
- COST's profile: non-competitive research, pre-normative cooperation, "bottom-up"
- A COST Action runs for typically 4 years.



## **COST Technical Committee for Forests and Forestry products (TCFFP)**

- 3 Sector Groups: forests, wood technology, pulp & paper
- In existence for some 10 years
- **About 28 running COST Actions**

# Examples of on-going COST-actions

- Forests for recreation and nature tourism (E33)
- Reliability of timber structures (E24)
- Modelling and simulation in pulp and paper (E36)



## Funding mechanism EUREKA

### Eureka is a European network for innovation

- Strengthening European competitiveness
- Running high quality 'market-oriented' projects
- Involving industry and research institutions
- Co-operating across European national borders - and beyond
- Leading to world-class products, processes and services

- **All of these funding mechanisms need to be used when implementing the SRA**



# A reflexion

The EU FPs and the COST-system have been of decisive importance in establishing research networks in Europe over the last 20 years.



# Organisational Research Structures Forestry

- COST TC FFP, Sector Group Forestry
- NFRI, National Forest Research Institutes
- EFI, European Forest Institute

All three bodies have members in essentially all EU countries.



# Research Capabilities Forestry

(outside companies)

NFRI                      ca 3200 manyears

Universities            about the same

Total                    some 7000 manyears

Very little research in companies.



# Organisational Research Structures Wood Technology

- COST TC FFP, Sector Group Wood Technology
- CEI-Bois RTD Group, forming industrial research needs
- ERA-Wood, an industry driven activity between 6 countries for initiating research projects

cont.



# Organisational Research Structures

## Wood Technology

- Innovawood (73 members from institutes and universities in 24 countries, links to forestry and includes furniture)
- Woodism project, to promote SME participation in FP6



# Research Capabilities Wood Technology

(outside companies)

- No recent estimate exists
- Rough guess: 1500 manyears



# Organisational Research Structures Pulp & Paper

- COST TCFFP, Sector Group Pulp and Paper
- CEPI Research Group  
(two members per CEPI country can be elected by national industry associations, represents industrial research needs)

cont.



# Organisational Research Structures Pulp & Paper

- European Fibre and Paper Research Organisation (EFPRO)

(Under establishment and open to all interested institutes and universities within the EU. Presently some 30 organisations have expressed interest.)



# Research Capabilities

# Pulp and Paper

(outside companies)

- 1200 scientists
- 500 PhD- students
- 500 technical staff

Ca 2200 manyears in total

Some 52 % in institutes and some  
48 % in universities



# Research capabilities outside companies – sum up

Forestry: > 7000 manyears

Wood Technology: 1500 (?) manyears

Pulp and Paper: ca 2200 manyears

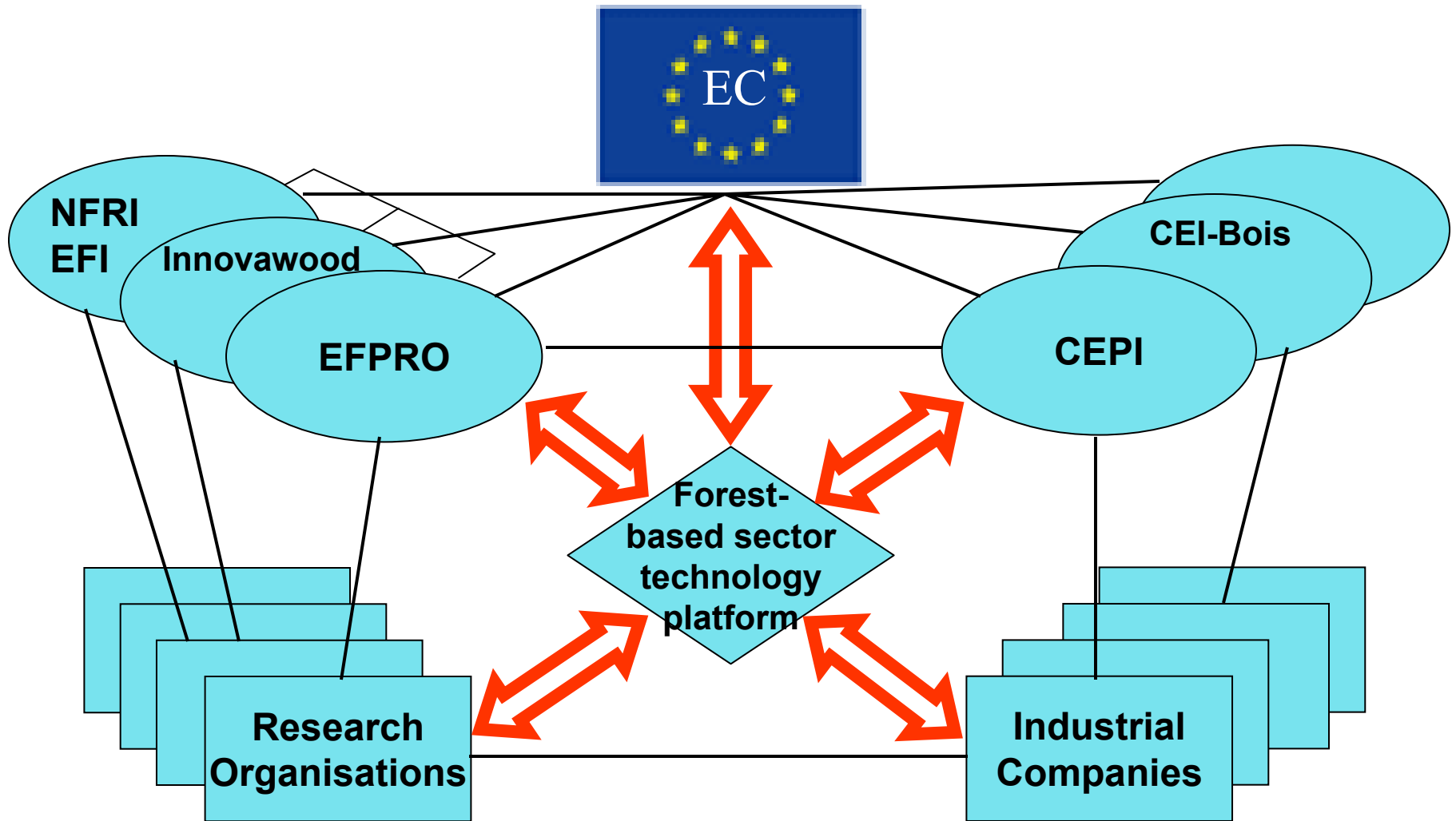
Bioenergy: ?



# Remarks on company R&D

- R&D in companies is, with very few exceptions, mainly development work.
- For research, companies more and more rely on institutes and universities (globally).
- Difficult to estimate total investment in R&D by companies.

# Relations between actors



Source: EFPRO



**The Forest-based Sector  
Technology Platform is  
now emerging  
as the major driver and  
meeting point  
for the sector's research**



**A more extensive version can be found on :**

**[www.fbs-research.com](http://www.fbs-research.com)**

**Thank you!**