

2010

2015

2020

2025

2030

# NSG the Netherlands

We are small so we have to cooperate and interlink!

Willem Emmen



## The Dutch NSG consists of a core group of

- ▶ Willem Emmen, Chairman of the board of the Royal Dutch Association of papermakers in the Netherlands, chairman of the Dutch NSG (Pulp, Paper and Board)
- ▶ Sylvio Thijsen, CEO of Grontmij (Consultants in Forestry and Bio-Energy)
- ▶ Kees Faber, Chairman of the board of platform wood in the Netherlands covering wood, paper and board and electricity producing industry (Solid Wood)
- ▶ Arie Hooimeijer, Director of Centre of Competence Paper and Board, Secretary of the NSG

# The NSG consist of various groups of experts:

- ▶ Core Group
- ▶ Industry and industrial R&D: Staatsbosbeheer, Bosschap, Grontmij, Faber Halbertsma group, Smurfit Kappa, Sappi Europe R&D, SCA, Huthamaki and KCPK
- ▶ Public R&D (universities and Institutes): Alterra WUR, Agro & Food innovations WUR, TNO, SHR, Centrum Hout, Technical University Delft, Centre for Ecosystem Studies, WUR, Ecofys, Copernicus Instituut, Universiteit Utrecht, ECN Biomassa, Stichting Probos,
- ▶ Funding organisations: SenterNovem, EG-Liaison

## **In the FTP the Netherlands will focus on:**

- ▶ Landscape management and related environmental aspects
- ▶ Consumer focused solid wood products
- ▶ Wood Based (platform) chemicals
- ▶ Energy transition
- ▶ Recycling of Paper and Board

These are subjects of which we think we can make a real contribution to consortia to be formed

# Some examples of ongoing projects

- ▶ Multi purpose forests



- ▶ Solid wood -> Guardrail for highways



- ▶ Fuels from wet biomass



- ▶ Energy transition Paper and Board chain



A 100% timber guardrail for highway's, approved according to European standards





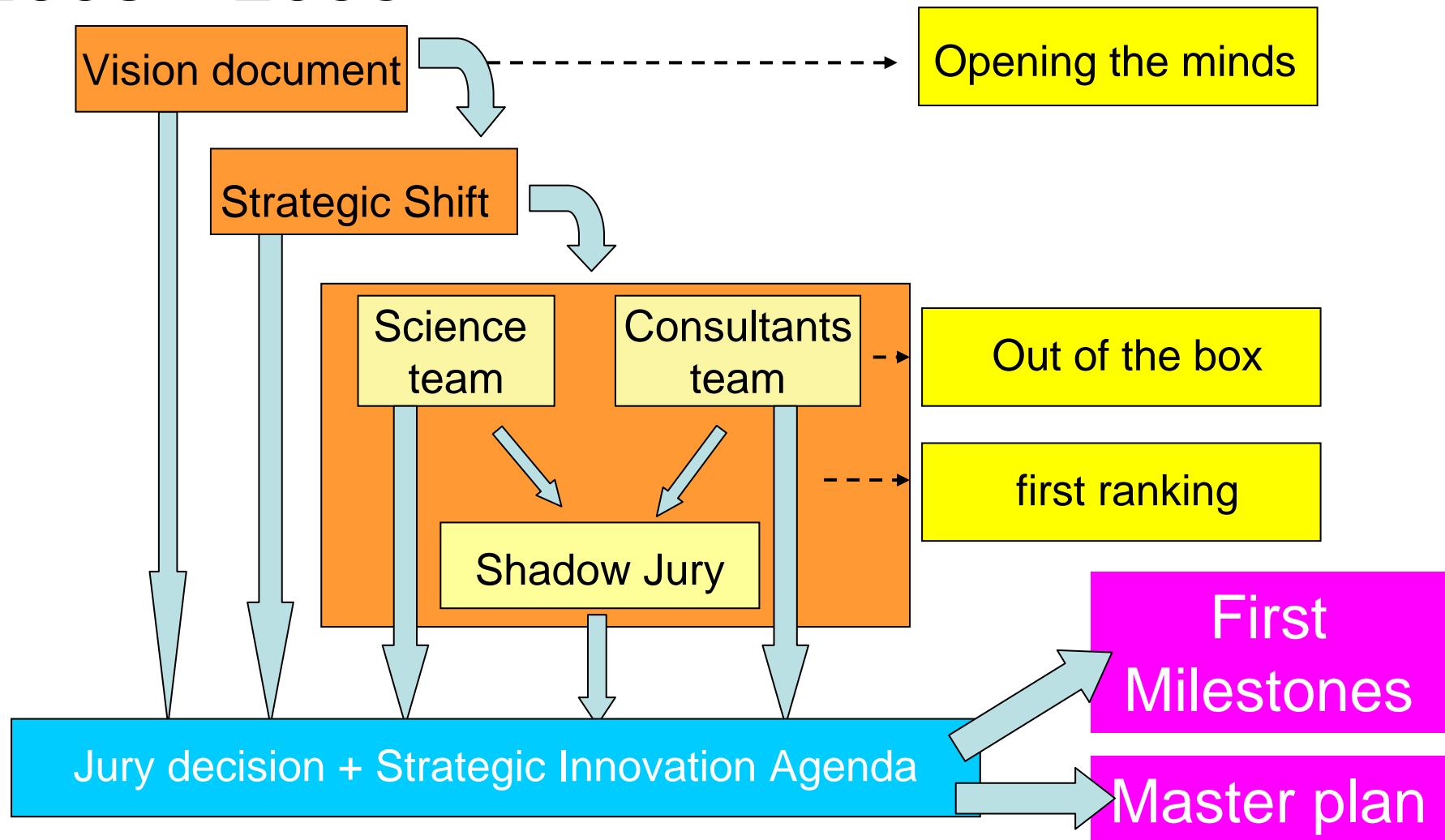
NSG the Netherlands, Willem Emmen

# Energy Transition Paper Chain

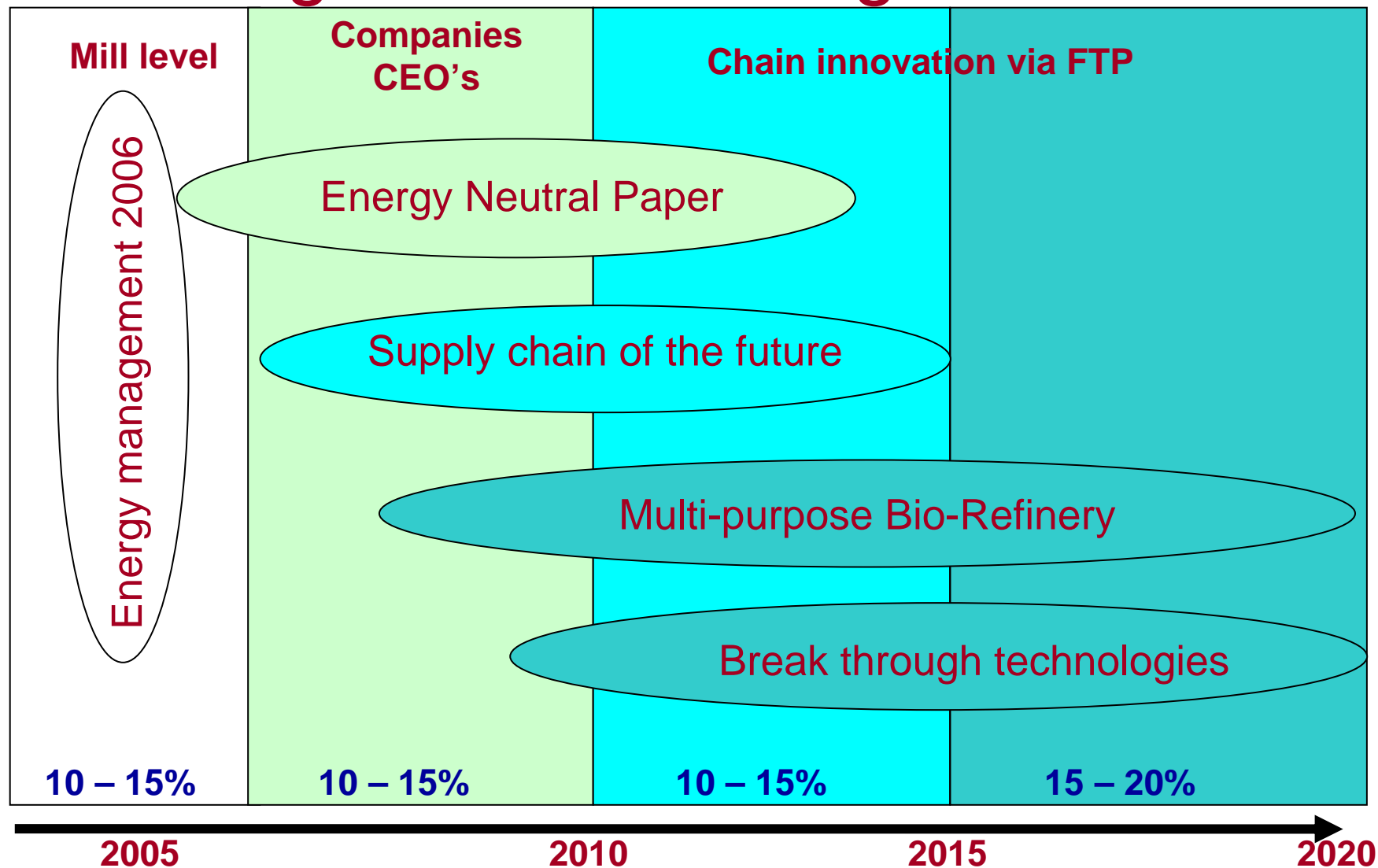
- ▶ Over a period of 15 to 20 years our industry will drastically change and we have to prepare ourselves for the future now
- ▶ The urgency has been met by the target of the transition which is to achieve a

50% energy reduction during the period 2005 - 2020

# Development of the Energy Transition 2003 - 2006



# Strategic Innovation Agenda



# Synergies between European SRA and national programmes

- ▶ Short term implementation projects in mills
  - > industry funded
- ▶ Medium term applied research by KCPK
  - > nationally funded
- ▶ Long term strategic project over entire value chains
  - > Performance via FTP

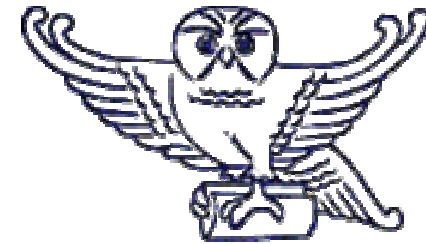
# Link between SRA and the SIA

Strong overlap in research area's between SRA and SIA

For the energy transition of the pulp and paper chain:

- ▶ Pulp & paper 1.8, 2.1, 2.2, 2.3 and 3.3
- ▶ Bio-energy 1.7, 1.8, 2.3 and 2.6
- ▶ Specialties 1.8 and 1.9

# Execution via KCPK



- ▶ Started in 1998
  - ▶ Funding by industry of > 0,5 M €/ year
- However supplemented by
- ▶ > 0,5 M €/ year from Knowledge Infrastructure and
  - ▶ Doubling of these funds by national government to > 2 M€

Examples of projects:

- ▶ Europress-Masterpress -> increase of dry content in the web after the press section
- ▶ Fibre raw materials programme -> Even with lower quality Recovered Paper more efficient production
- ▶ Compression Refining

# Further development of SRA on national level

- ▶ We defined the subjects
- ▶ Hopefully the Netherlands is going to acquire substantial European contributions
- ▶ European contributions should be matched on National level
- ▶ Knowledge infrastructure is also an important financial contributor

This is a real challenge which should apply for all countries

Matching on national level is a prerequisite for participation in projects