

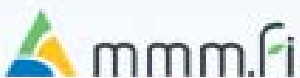
Finland's national adaptation strategy to climate change – progress made and lessons learned

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Adaptation strategy - background

- Context – the update of the national energy and climate strategy 2004-2006
- Need to deal with adaptation was raised at the political level
- Ministries cooperate in climate policy
- Climate impacts assessments were available
- FINADAPT study on adaptation was on-going



Adaptation strategy - preparation

- An interministerial effort coordinated by the Ministry of Agriculture and Forestry
- Everybody wrote their own chapter
- Existing scientific information was used
- New scenarios for economic development
- Top-down approach, an overview with suggested actions
- Seminars, hearings



Adaptation strategy - aim

- The aim is to increase the adaptive capacity of the Finnish society



The Adaptation Strategy includes key sectors

- Natural resources: agriculture and food production, forestry, fisheries, game husbandry, reindeer husbandry, water resources
- Biodiversity
- Industry, energy
- Transport
- Land use, buildings
- Health
- Tourism, recreation
- Insurance



Impacts of climate change on sectors

Disadvantages	Direction of the impact unclear or simultaneous disadvantage and advantage ^a	Advantages

6



Strategies, actions and measures by sectors

Means	Proactive	Reactive
Public: <ul style="list-style-type: none"> ▪ Regulatory framework ▪ Normative ▪ Economic ▪ Information 		
Private		

Timeframes: Immediate 2005 – 2010/2015; Short-term 2010/2015 – 2030; Medium and long-term 2030 - 2080



Cross-sectoral priorities for implementation 2006 - 2015

- Mainstreaming adaptation into sectoral planning, implementation and evaluation
- Extreme weather events
- Long-term investments
- Observation and monitoring systems
- Research and development
- International linkages and dev't cooperation





also in Swedish and in English in:
www.mmm.fi/sopeutumisstrategia



Implementation of the strategy (1)

- Present-day weather-related issues are a key driver in several sectors
- Long term investments need to be considered in a warming climate
- The issue is new for some sectors
- *Implementation of the strategy will be a challenge* (a statement in 2005)



Implementation of the strategy (2)

- Many Government ministries have started to implement the strategy
- Several stakeholders are also taking an interest in adaptation and starting their own activities



Ministry of the Environment has prepared a draft adaptation program : spatial planning, buildings, biodiversity, water quality issues, waste management



picture: Ministry of the Environment



Ministry of Transport
and Communications
took a practical case-
study –approach



picture: Finland's road administration



Ministry of Foreign Affairs is
looking into how climate
proof development
cooperation

global.finland

**kehityskysymykset
ja globaalikasvatus**



<http://global.finland.fi>



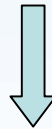
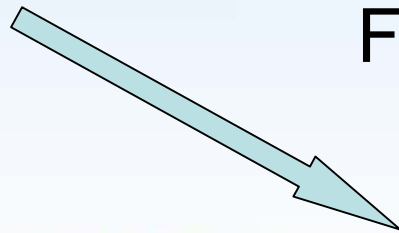
Ministry of Agriculture and Forestry is mainstreaming adaptation in several natural resource issues

Coordination of a new research programme

Risks and opportunities in plant production

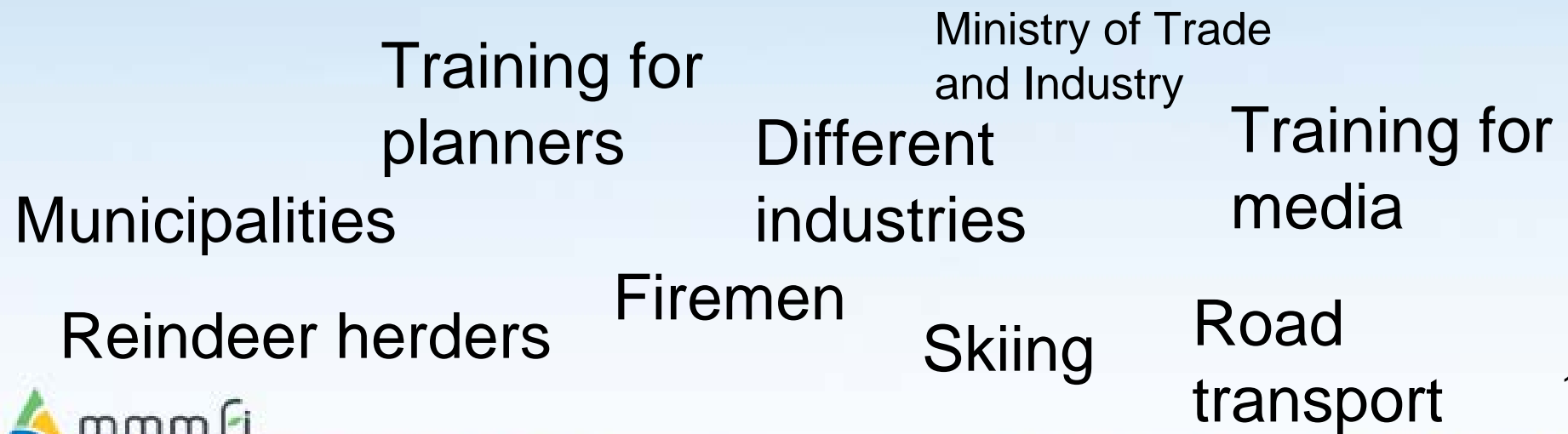
Adaptation and the national forestry programme

Flood risks



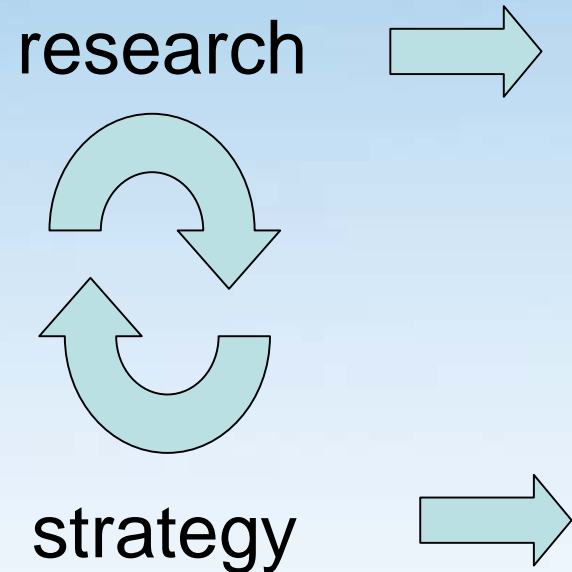
Stakeholder action

- Several stakeholders have organised seminars and discussions on adaptation
- Interaction with researchers has been useful



ISTO research programme on adaptation to climate change

aims to reinforce
adaptive capacity and
help build a sufficient
knowledge base to
support practical
adaptation measures



ISTO 2006-2010

- funding from three ministries
- 0,5 mill € / year and 15 projects 2006-2008
- other adaptation projects and programs in research institutions
- policy relevance, cooperation, mainstreaming, outreach



ISTO projects

Climate (1)

extreme events,
scenarios

Hydrological changes (4)

Floods and droughts

Spatial planning and buildings(2)

Case studies, extreme events

risk assessments, economic
impacts, case studies

Agriculture (1)

Scoping of risks and
opportunities

Forestry (5)

Forest genetics

Pests

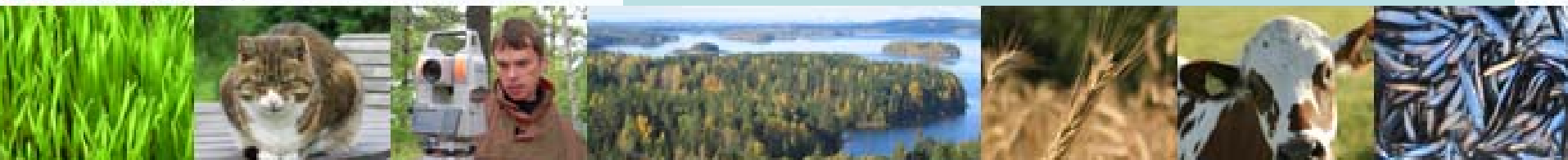
Growth and yield

Biodiversity (1)

scoping study

Finland and global impacts(1)

scoping study



Lessons learned: background



Awareness of climate change is increasing

The mild 2006 winter and IPCC reports have had an influence

Climate change was a big issue in the policy debate during March 2007 elections



Lessons learned (1)

- The political framework gives support
- A comprehensive strategy is useful
- Broad participation and transparency build confidence
- The role of research information and expert assessments in the strategy work is crucial
- Need for further research
- Research can support the implementation of the strategy



Lessons learned (2)

- Integration of background scenarios into sectoral analysis was a challenge
- Key elements;
 - addressing both disadvantages and advantages
 - work through specific sectors
 - integration of mitigation and adaptation at strategic level



Lessons learned (3)

- Sectors are different => mainstreaming
- Interlinkages between sectors are important
- Mutual learning is taking place
- The strategy is meant to be useful to sectors
- Global impacts can be the most important ones in the long run



Lessons learned (4)

- Long-term perspective and early start of key activities (win-win)
- Monitoring needs to be put in place
- Review of the adaptation strategy within 6-8 years
- Adaptation is in the new government program
- Implementation is a challenge!!!



Adaptation strategy

Ministries

Stakeholders

International cooperation



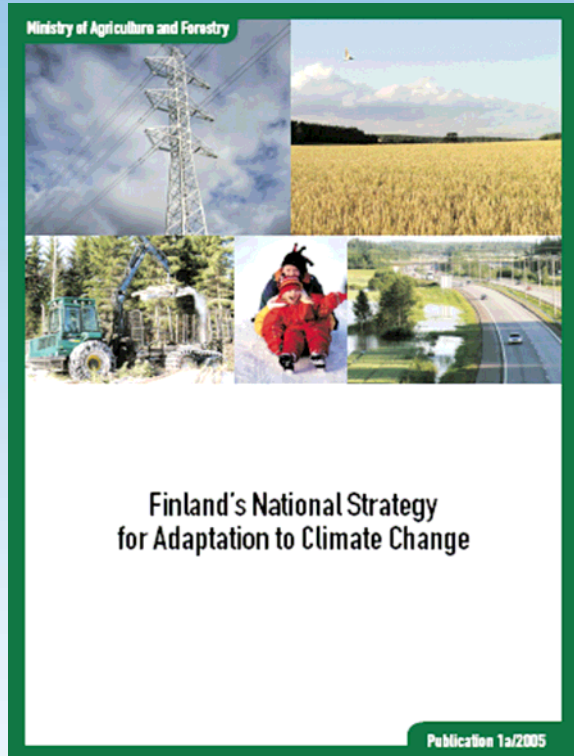
Scientific information

Expert advice

Further efforts in mainstreaming adaptation are needed



Further information



<http://www.mmm.fi/>

