

Expected Climate cHange and Options for European Silviculture

COST Action FP0703 ECHOES

Brussels, November 2009 18th

Jean-Luc Peyron

ECHOES Objectives

✚ Main objective:

- ✚ to mobilize and integrate existing scientific knowledge on expected climate change for European forest policy makers and managers (→ forest management and policy)

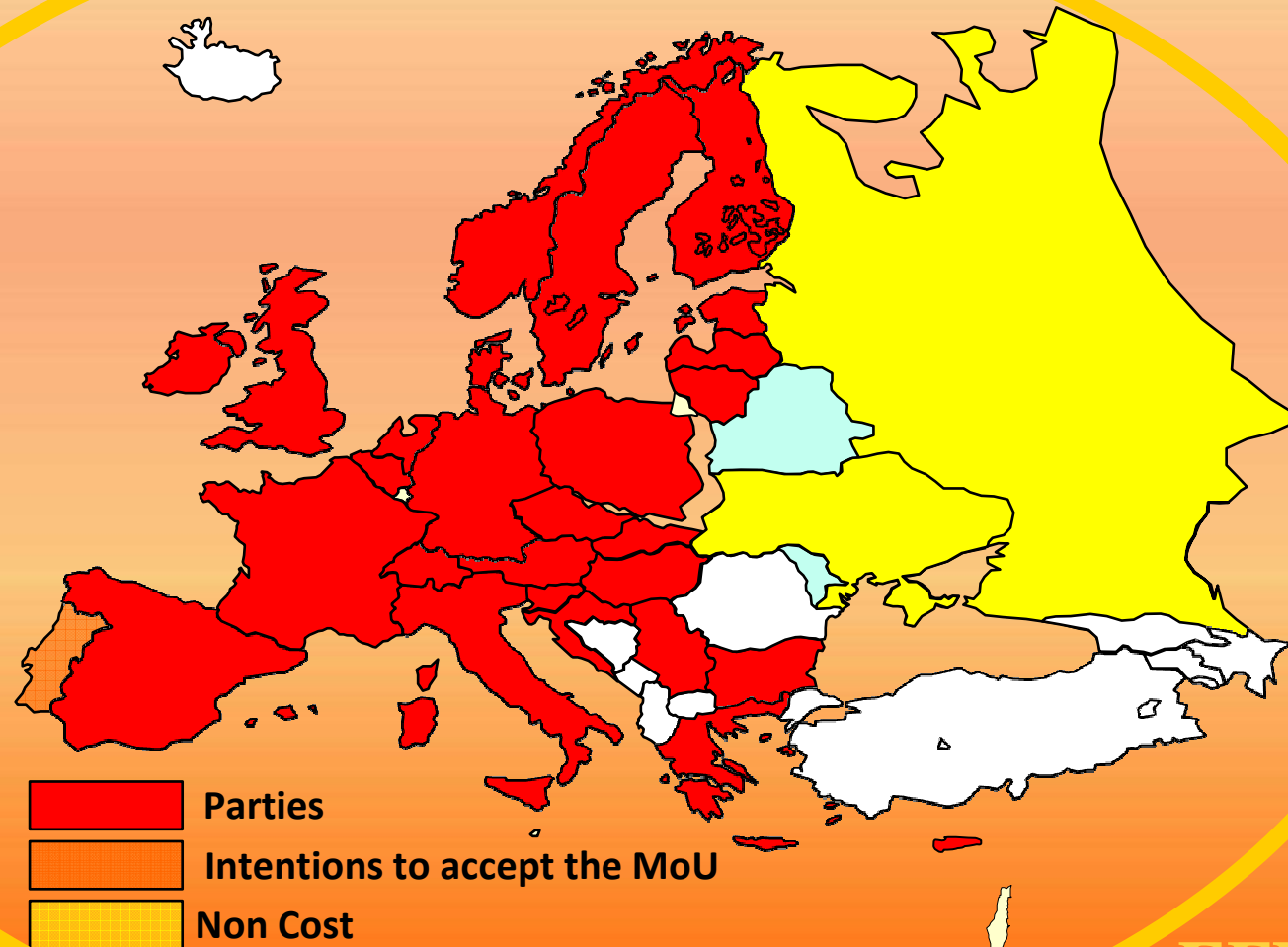
✚ Secondary objective:

- ✚ to identify future research & development needs (→ monitoring and research)

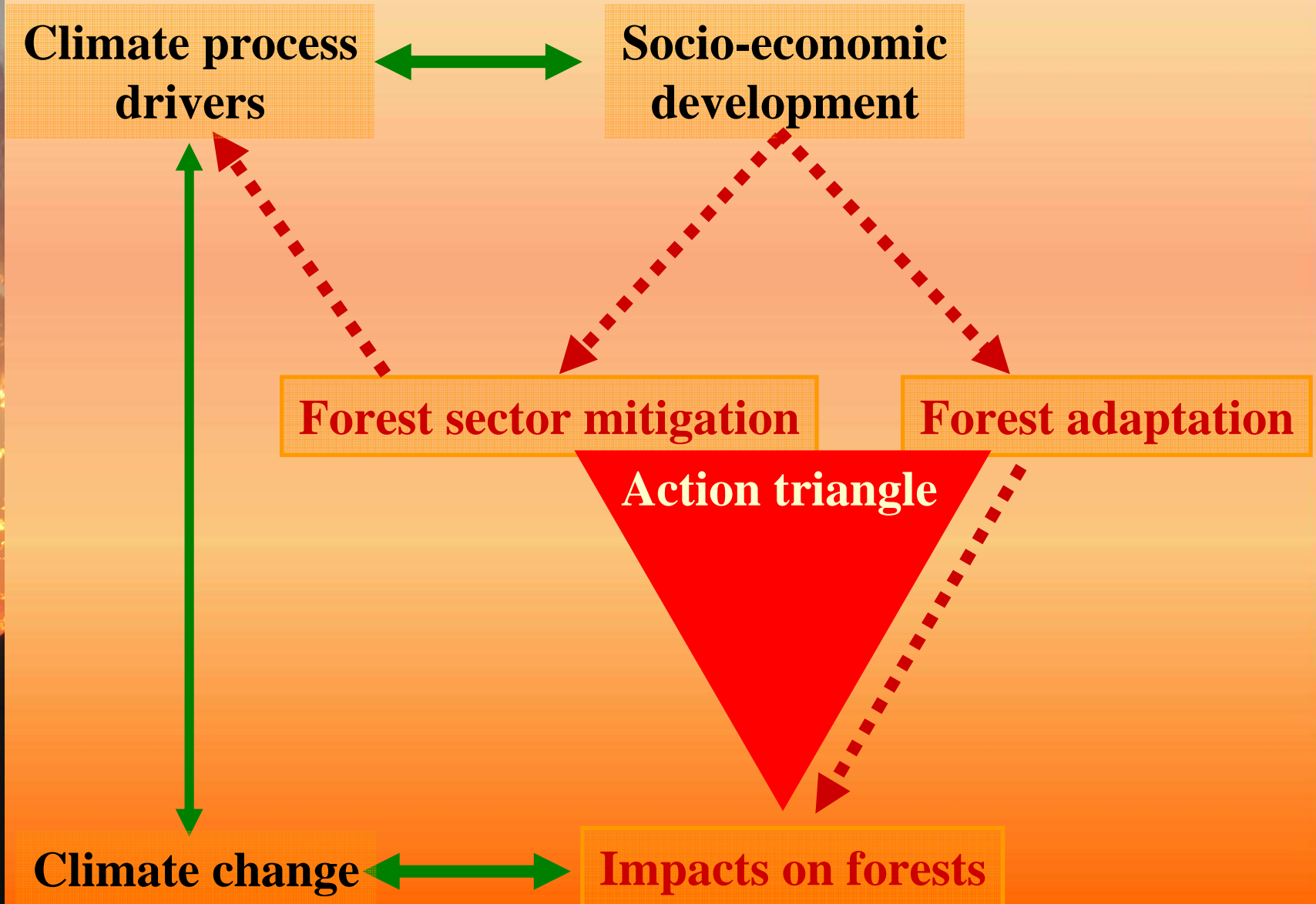
✚ Other objectives:

- ✚ to contribute to IPCC Assessment Report 5
- ✚ to supply a European perspective for the second commitment period after Kyoto Protocol

ECHOES Parties



Action triangle



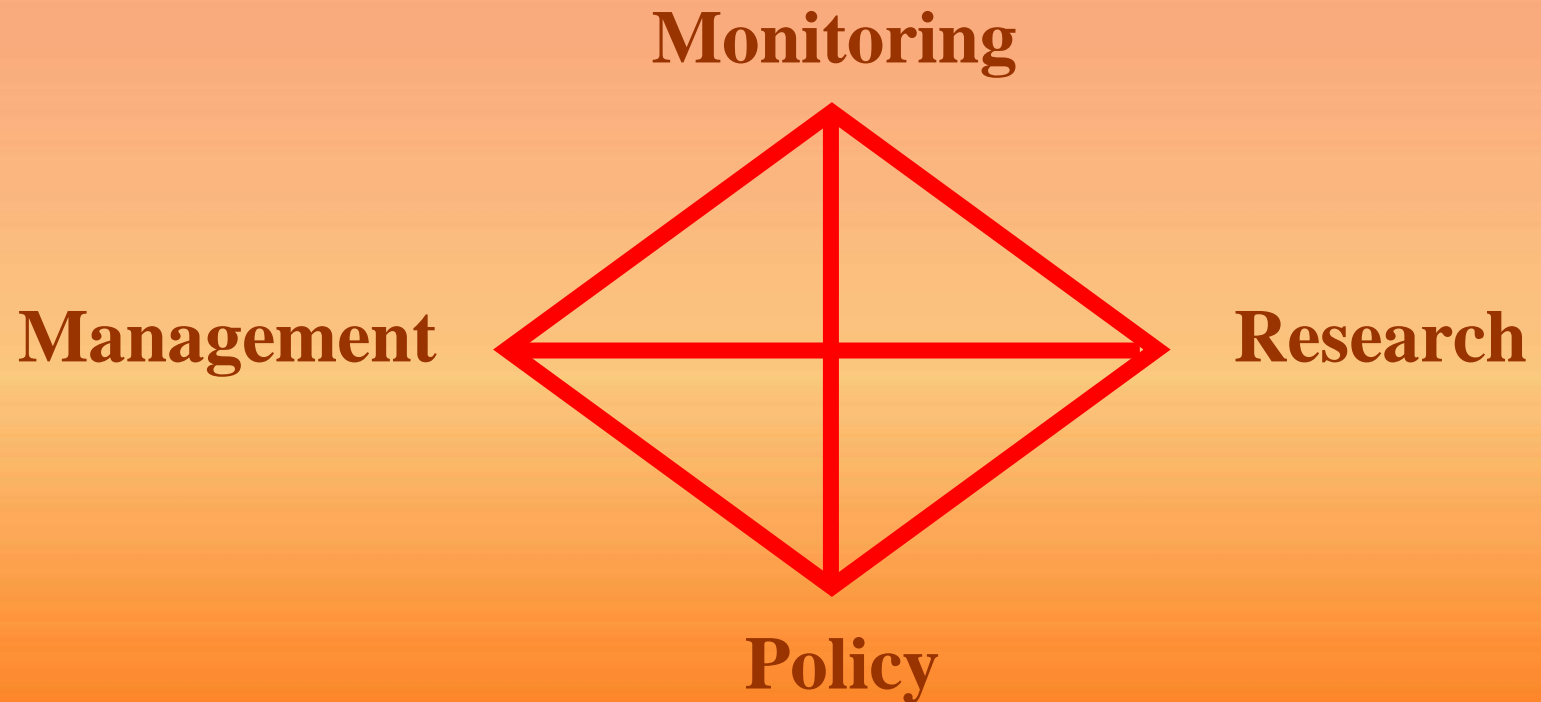
Main ECHOES structure

IPCC Assessment Report 4	The Action Triangle
The physical science basis	
Impacts, adaptation, vulnerabilities	Impacts (WG1) Adaptation (WG2)
Mitigation	Mitigation (WG3)

ECHOES Cross-cutting issues

	Impacts	Adaptation	Mitigation
Interactions			
Regional specificities			
Sustainable forest management			

Continuous improvement process



Echoes Outputs

ACTIVITIES AND OUTPUTS		Yrs May 2008-2012			
		1	2	3	4
	Forest synthesis of IPCC				
Country reports	WG I to III				
	Case studies § IV				
Key issues	WG I to III				
	cross-cutting issues				
Recommendations for	policy & management				
	monitoring and research				
	Website				
Newsletters	for ECHOES sympathizers				
	for decision makers				

ECHOES governance

- ✚ Steering Committee
 - ✚ Action chair: Jean-Luc Peyron (FR)
 - ✚ Vice-Chair: Klaus Seeland (CH)
 - ✚ WG1 leader: Heinrich Spiecker (DE)
 - ✚ WG2 leader: Manfred Lexer (AT), Marcus Lindner
 - ✚ WG3 leader: Gert-Jan Nabuurs (NL), Maria Nijnik
- ✚ Management Committee
 - ✚ Up to 2 members per country
 - ✚ 1 member for each non-COST Institution
- ✚ Secretariat and Grant holder (ECOFOR)
 - ✚ Natacha Massu (general issues)
 - ✚ Emmanuel Cacot (specific issues)
 - ✚ Marie-Hélène Lagarrigue (administrative issues)

WG1: Impacts

- ✚ Monitoring
 - ✚ Resources (quantity, health)
 - ✚ Changes of the environment
 - ✚ Biodiversity?
 - ✚ Landscape
- ✚ Observed impacts
 - ✚ Hotspots
 - ✚ Productivity
 - ✚ Phenology
 - ✚ Transect observations (latitude, altitude)
- ✚ Expected impacts
 - ✚ Manipulation experiments
- ✚ Crisis management
- ✚ Socio-economic consequences

WG2: Adaptation

- ✚ Collection and analysis of country-specific adaptive measures ⇒ web tool
- ✚ Further issues
 - ✚ Interactions between adaptation & nature conservation
 - ✚ Effects of adaptive measures on goods & services
 - ✚ Close-to-nature silviculture as adaptation strategy?
 - ✚ Estimating regional adaptive strategy
 - ✚ Use and limits of models
 - ✚ Comparative assessment of national adaptation strategies

WG2: Adaptation Web tool

ECHOES WG2 data collection - Mozilla Firefox

http://echoes.boku.ac.at/main.php?country=de

WG 2 "Adaptation" - Data Collection

List of adaptive measures
Edit country 'de' - logged in as 'fr'

Restart Help

	Id	Measure	Foresttype	Last edit
	329	1.2.5. reduction in the establishment of monocultures with vulnerable species	14. plantations and self sown exotic forest Picea abies, Pinus sylvestris combined objective/ multi-purpose forestry, objectives: timber, fuelwood, carbon sequestration, maintenance of biodiversity, provision of drinking water	2009-09-28 11:50:22
	331	6.4.1. Logistic support for forest owners in the case of large-scale disturbances	14. plantations and self sown exotic forest Picea abies, Pinus sylvestris intensive even-aged forestry, objectives: timber	2009-09-11 13:35:44
	330	4.1.1. reducing the rotation length in order to decrease mean standing stock	14. plantations and self sown exotic forest Picea abies, Pinus sylvestris intensive even-aged forestry, objectives: timber	2009-09-11 13:12:47
	328	Conversion of pure pine dominated forests into mixed forests with beech and oak	2. hemiboreal forest and nemoral coniferous and mixed broadleaved-coniferous forest (plain, submontane) Pinus sylvestris, Fagus sylvatica, Quercus petraea combined objective/ multi-purpose forestry, objectives: timber, maintenance of biodiversity, provision of drinking water	2009-09-10 16:40:12
	294	2.3.1. modify thinning regime to improve stand water balance & decrease competition for available water	2. hemiboreal forest and nemoral coniferous and mixed broadleaved-coniferous forest (submontane, 500 m) Picea abies intensive even-aged forestry, objectives: timber	2009-09-01 11:36:21
	297	Early (pre-mature) regeneration of vulnerable stands	2. hemiboreal forest and nemoral coniferous and mixed broadleaved-coniferous forest (colline, submontane, montane, 150 - 500m) Picea abies combined objective/ multi-purpose forestry, objectives:	2009-09-01 11:34:39

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W3: Mitigation

- ✚ The European forest-based sector: bio-responses to address new climate and energy challenges? (International conference, Nancy 2008)
- ✚ Review papers :
 - ✚ Model projections of forest sink
 - ✚ Silvicultural options for mitigation and sustainable forest management
 - ✚ Mitigation potential through bioenergy

Next events

- ✚ Training school, Freiburg (DE) on productivity April 2010
- ✚ General workshop: Sopron (HU) October 2010
- ✚ Training School, Joensuu (FI) May 2011
- ✚ ...
- ✚ Final conference: France Autumn 2011

Conclusions

- ✚ Impact monitoring is the major link between COST actions FP0903 and FP0703 ECHOES
- ✚ ECHOES is broader and less deep than FP0903
 - ✚ in general
 - ✚ on monitoring that concerns
 - ✚ environmental changes
 - ✚ but also resources, landscape, and biodiversity
- ✚ ECHOES is more future-oriented
- ✚ ECHOES is more interdisciplinary
 - ✚ ecology
 - ✚ forest management and policy
 - ✚ socio-economics
- ✚ ECHOES should be closer to stakeholders (still to be organised in reality)

Conclusions

- ✚ For FP0903, ECHOES could :
 - ✚ constitute a general framework
 - ✚ facilitate the link with policy making and operational activities
- ✚ For ECHOES, FP0903 would
 - ✚ allow to distinguish climate change effects from other drivers such as nitrogen depositions
 - ✚ study in detail a major issue: monitoring of environmental changes.
- ✚ An exploratory workshop is planned in 2010 with all COST Actions dealing with climate change and forestry: a way to go further with this discussion.



THANK YOU FOR
YOUR ATTENTION

<http://www.gip-ecofor.org/echoes/>



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Forestry Networking Week in Joensuu: first results

**Next General Workshop, 2-4 November 2009 in
Thessaloniki**

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