



EU-FORMIT

(2012-2016)

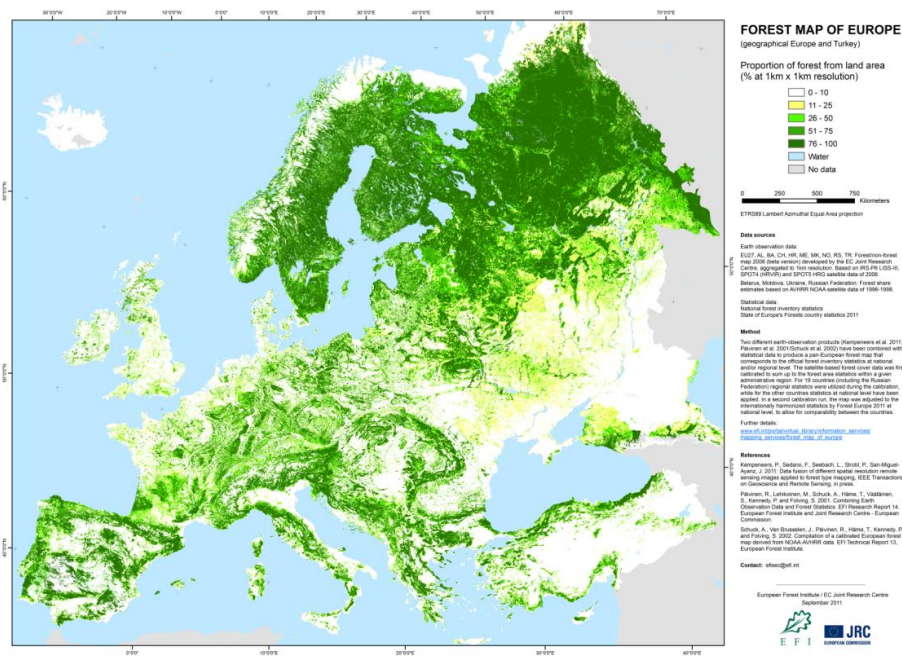
(synthesis still in progress)

FORest management options for enhancing the
MITigation potential of European forests

KBBE.2012.1.2.-07

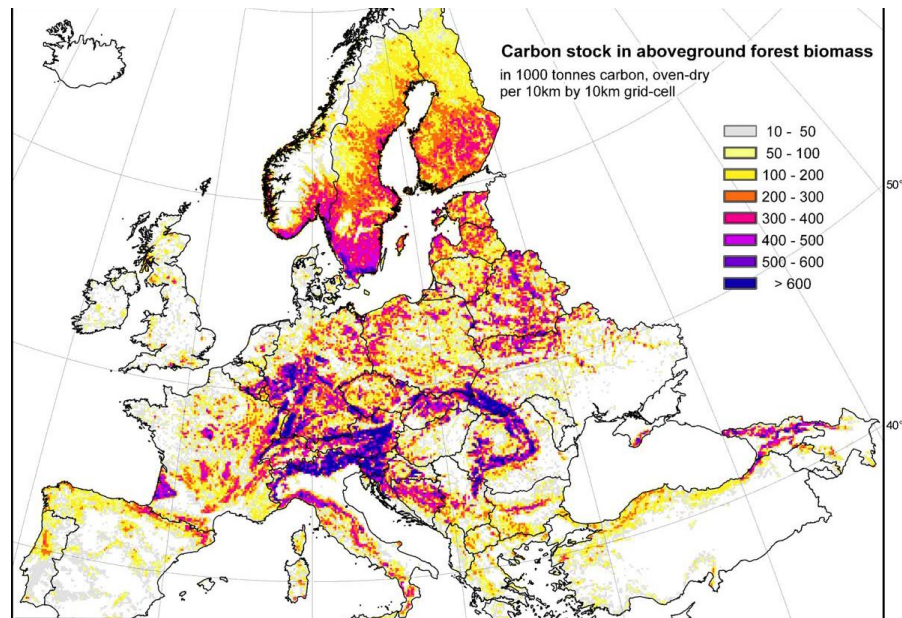
Collaborative project - small or medium scale focused research

G. Cardellini (Leuven) & G.M.J. Mohren (Wageningen)



Main issues, linked to management of European forests:

- Timber resources
- Carbon budget
- Bioenergy options
- Biodiversity conservation

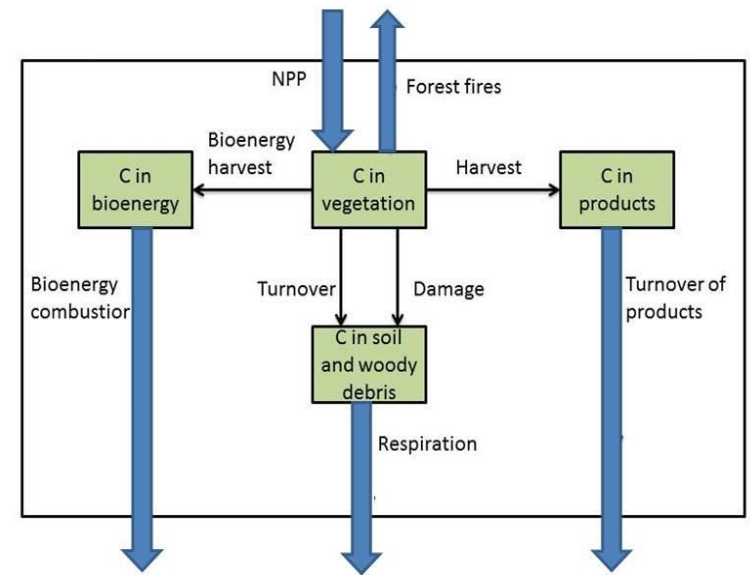
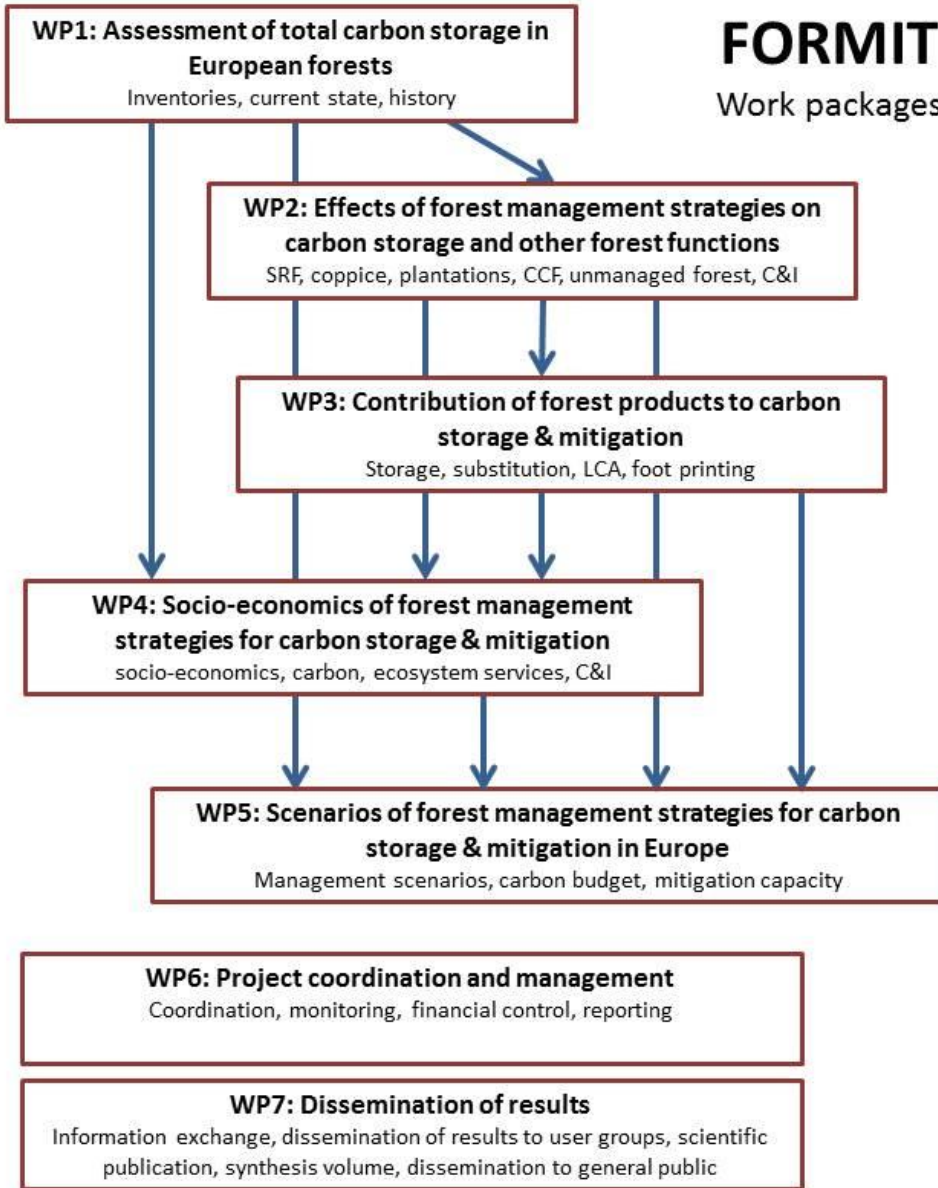


Gallaun et al., 2010: Total carbon stock of above-ground forest biomass (10 x 10 km)

Need for an integrated approach in which mitigation options are assessed in view of other ecosystem services, to define policy relevant management options

FORMIT

Work packages



- Wageningen University (coordinator , NL)
- BOKU University of Life Science, Vienna (AT)
- University of Hamburg (DE)
- University of Molise (IT)
- Univ of Helsinki (FI)
- Katholic University of Leuven (BE)
- Czech University of Life Sciences (CZ)
- Norwegian University of Life Sciences (NO)
- l'Institut Techn. Forêt Cellulose Bois-construction Ameublement (FCBA, FR)
- University Stefan cel Mare Suceava (RO)
- Tarttu Observatory (ES)
- Warsaw University of Life Sciences (SGGW, PO)

Budget 3.5 M€ (EU contribution 3.0 M€)

4 yrs (1/10/2012-30/9/2016)



Table 1.1a: Forest areas and management systems in Europe, based on the State of Europe's Forests 2011 report (FOREST EUROPE, UNECE and FAO, 2011). All values in 1.000 hectares. Note: continuous cover consists of natural regenerated forest including natural expansion; non-harvested forest consists of forests under non-intervention management and may have originated as even-aged forest. The categories do not sum to the total forest area summed over the regions because a forest area may be counted in more than one category, for instance, as even-aged and as non-harvested.

	Short-rotation forest and coppice	Even-aged forests	Continuous cover forest	Non-harvested forest	Total forest area
Northern	1	56902	48912	14800	69278
West-Central	2001	26454	19623	2500	36882
East-Central	23	32171	21291	10034	43959
West-Southern	777	5436	11135	5956	30795
East-Southern	77	5483	23578	8620	29936
Total	2879	126446	124539	41910	210850

- Use of existing data (e.g. NFI, costs and prices)
- National information through partners
- Upscaling based on satellite imagery and Forest Europe regions
- Conventional management strategies (limitation due to use of existing models)
- 1st three project years for model development and data collection
- 4th project year for scenario analysis and definition of Realistic Adaptive Management Strategies (RAMP's)

Results in progress / Lessons learned

Work in progress

Synthesis papers:

- 1) **Carbon storage in forest biomass and effects forest management: substantial sink** (10% of emissions)
- 2) **Carbon in forest products and mitigation effects of substitution** (storage small, substitution substantial)
- 3) **Adaptive management strategies and pathways for mitigation** (*under development*, no regret and adaptation)
- 4) **Economic options of carbon mitigation within European forestry** (highly dependent on markets)

Lessons learned

Project Management & Planning:

- 1) **Difficult to avoid delays in research oriented project components** (project staff leaving after formal end)
- 2) **Research ambitions high** (notably in PhD projects)
- 3) **Budget for joint meetings too small**
- 4) **Synthesis requires substantial work after project end**