



# Forest production and carbon storage -potentials of European forestry

INTEGRATED SINK ENHANCEMENT ASSESSMENT



I N S E A  
P A R T N E R S

## FORESTRY MODELLING

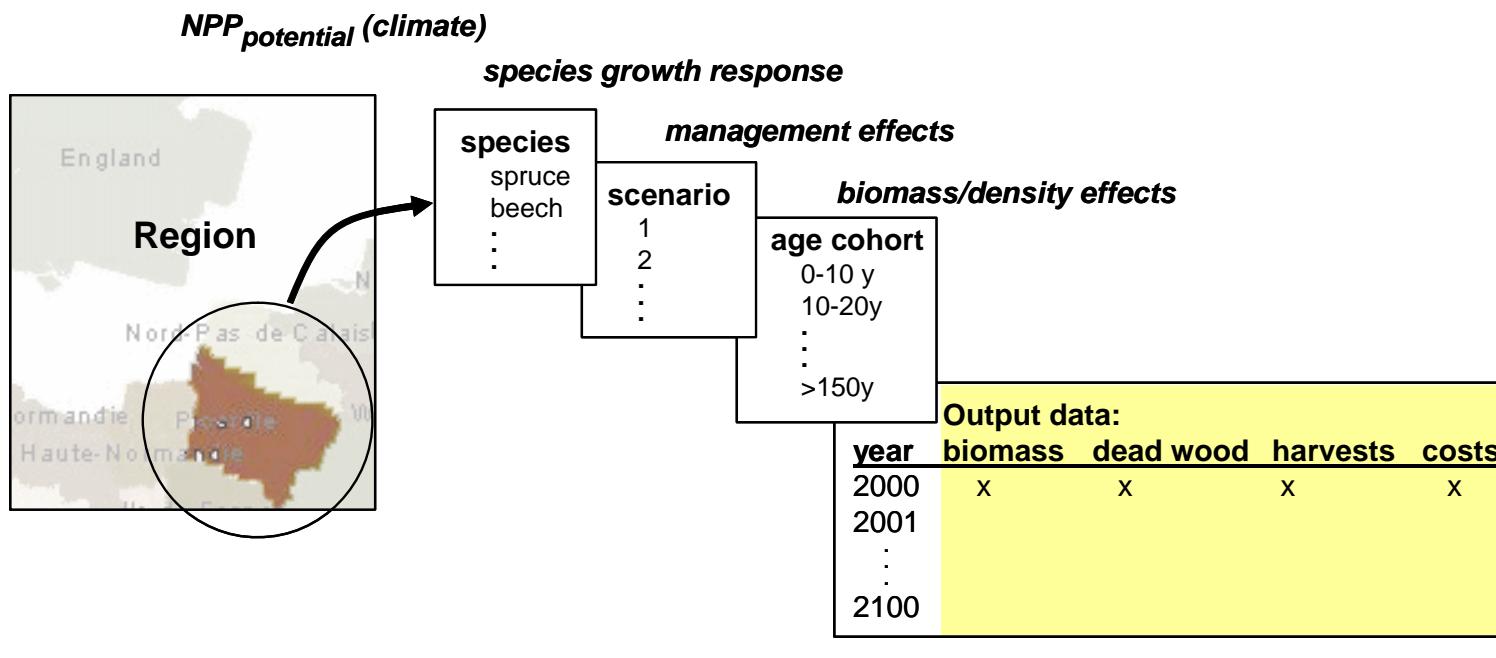


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# the OSKAR Forestry model and data

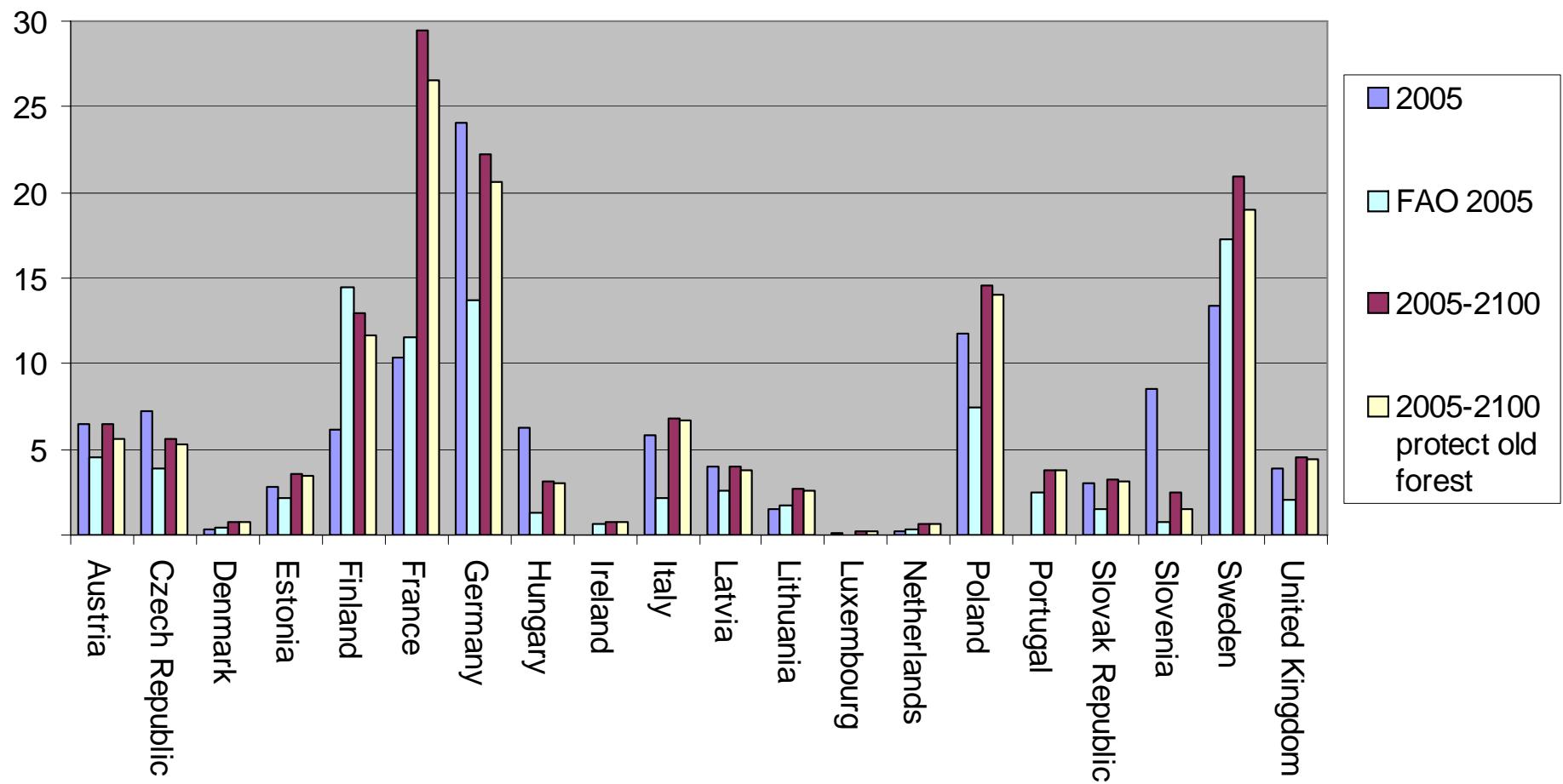
## OSKAR forestry model



**FASOM**

# Current and future forests

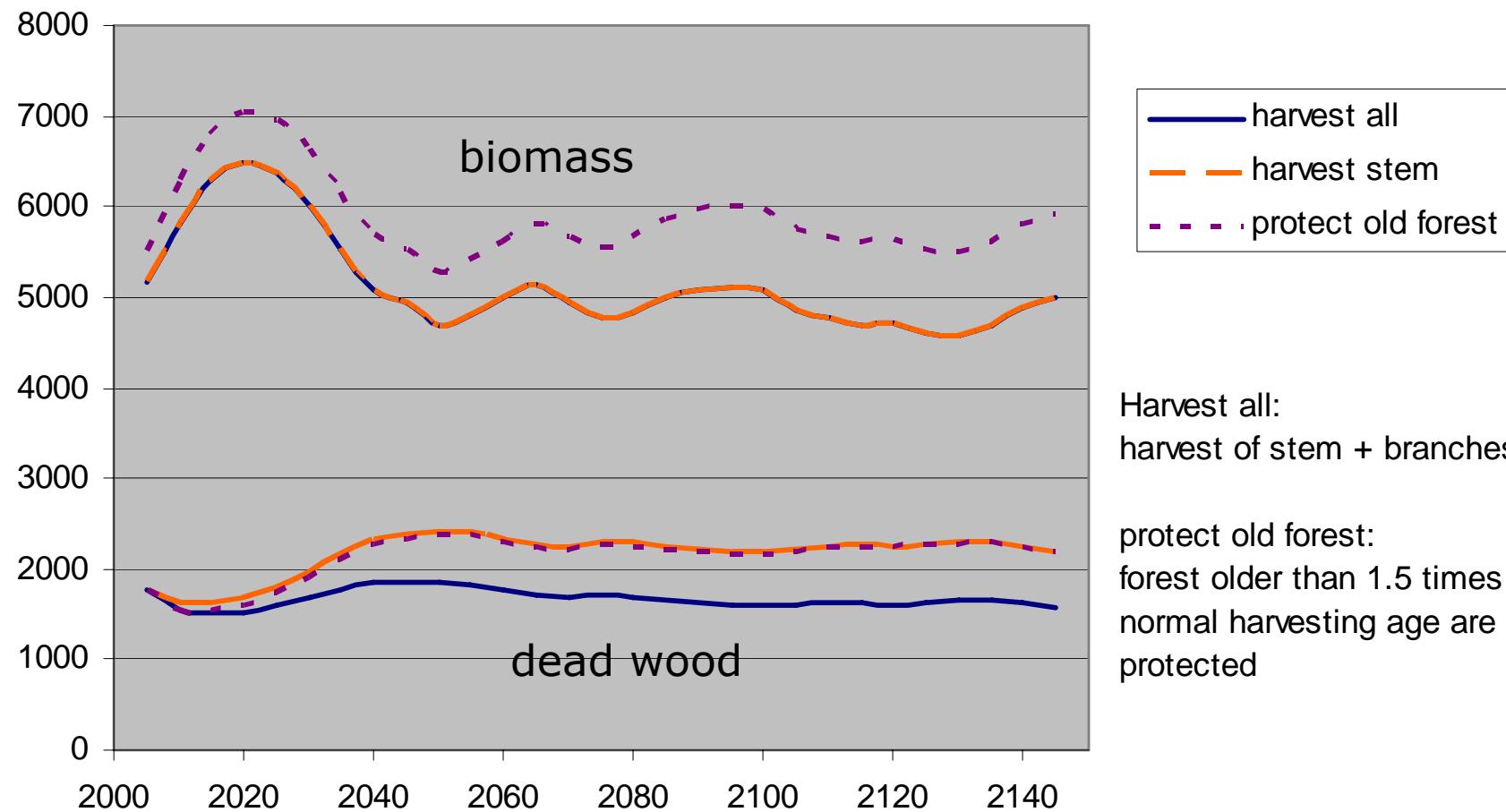
Harvests (MtC/year)



Total maximum sustainable harvests in EU  $\approx$  200 MtC/year (2005-2100)

# Forest development scenarios

Biomass and dead wood for different harvesting scenarios  
(MtC)

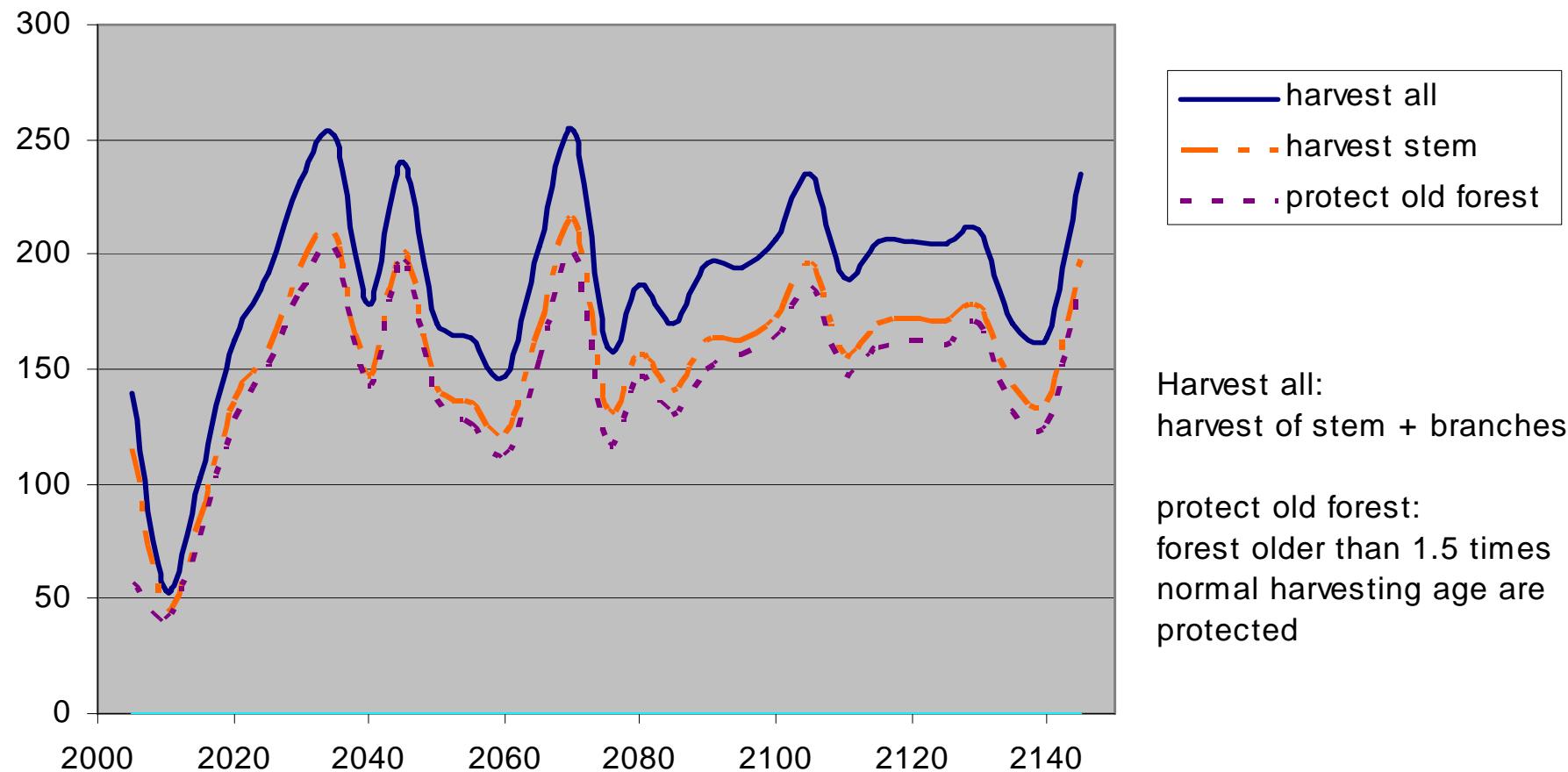


Harvest all:  
harvest of stem + branches

protect old forest:  
forest older than 1.5 times  
normal harvesting age are  
protected

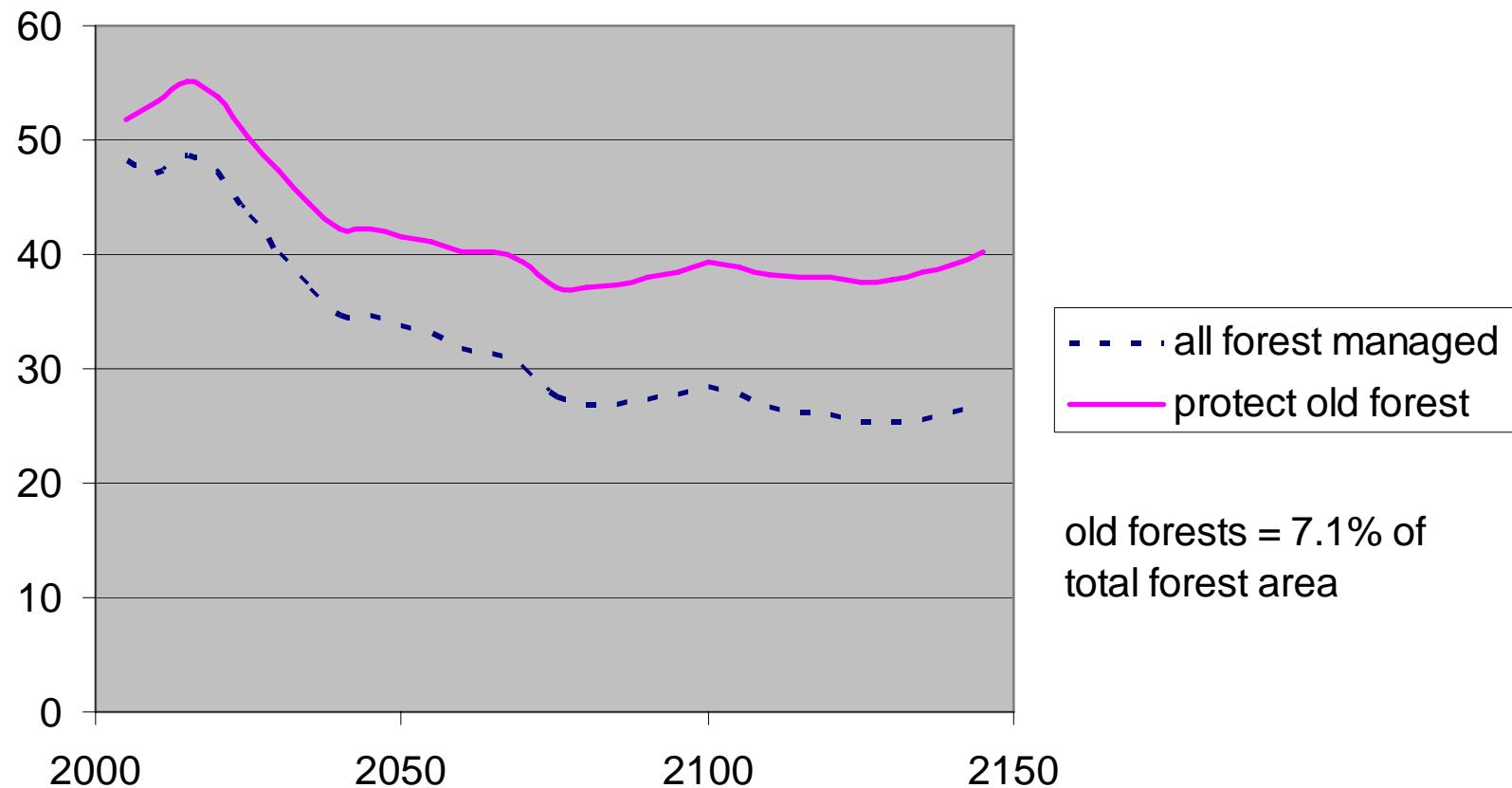
# Forest development scenarios

Harvests for different harvesting scenarios (MtC)



# Forest development scenarios

Mean age of forests (years)



old forests = 7.1% of  
total forest area