



EFORWOOD
Sustainability Impact Assessment
of the Forestry - Wood Chain



Deliverable D1.3.1 Documentation of the Forest Sector Model

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Executive Summary

The purpose of this report is to document the choice of model structure and development of the forest sector model to be applied in EFORWOOD, specified in EFORWOOD's WP 1.3. as deliverable D1.3.1. The report is divided in 3 main parts. First, a brief historical overview of forest sector models is presented. Then the model structure of EFI-GTM is described. Finally, in Section 4, a brief account of the planned development of EFI-GTM in EFORWOOD is given. In addition, in Appendix 1, the spatial dimension (specification of regions) and data input requirements for the model are described.

The EFI-GTM model will in the EFORWOOD project be further developed. The main developments and steps, which are planned include:

More accurate timber supply functions for Europe. Econometric studies using panel data methods (among those fixed effects and random effects statistical models) will be applied.

More accurate description of the forest growing stock and harvest possibilities in each of the regions, in particular each of the European countries. The gain here depends on the information provided by Module 2.

Improved data on forest industry production costs, transport costs and existing capacities. The new base year will be 2005. Data supplied from M2-M5 will be valuable for this improvement.

Include bioenergy more explicitly in the model. This will to a large degree depend upon the data input possible to obtain from the other Modules in EFORWOOD, in particular Module 2, 3, and 4. For the moment it is rather certain that pellets will be included.

The scenarios and/or policy changes decided upon in EFORWOOD needs to be given an interpretation, which make it technically feasible to implement them into EFI-GTM and analyze the effect.