



**EFORWOOD**

Sustainability Impact Assessment  
of the Forestry - Wood Chain



Project no. 518128

EFORWOOD

Tools for Sustainability Impact Assessment

Instrument: IP

Thematic Priority: 6.3 Global Change and Ecosystems

### **Deliverable PD3.4.4**

## **Compilation of collected data of allocation, harvesting and transport processes to be provided for ToSIA at case study level**

Due date of deliverable: Month 34

Actual submission date: Month 50

Start date of project: 011105

Duration: 4 years

Organisation name of lead contractor for this deliverable: ALUFR

Final version

<b>Project co-funded by the European Commission within the Sixth Framework Programme (2002-2006)</b>		
<b>Dissemination Level</b>		
<b>PU</b>	Public	X
<b>PP</b>	Restricted to other programme participants (including the Commission Services)	
<b>RE</b>	Restricted to a group specified by the consortium (including the Commission Services)	
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	

# **Compilation of collected data of allocation, harvesting and transport processes to be provided for ToSIA at case study level**

Authors: all M3

## **Introduction**

Within the work of EFORWOOD and the development of ToSIA as well as of module-specific models (WP3.4) for Allocation (WP3.1), Harvesting (WP3.2) and Transport (WP3.3), the case studies play an important role. This includes the definition of processes and products, linking material streams, and calculating and entering data for each process and indicator for the FWCs parts from forestry to industry of the following case studies:

- Regional-defined case study in Baden-Wurttemberg, Germany
- Production-driven case study in Västerbotten, Sweden
- Consumption-driven case study in Iberia, Spain and Portugal

## **Material and Methods**

The following approach has been developed and applied to accomplish the work of compiling collected data for allocation, harvesting and transport processes, which are to be provided for ToSIA at case study level. This included the following:

- 1.) Describing a storyline for each case study, which includes boundaries, as well as target assortments and products, and main processes.
- 2.) This storyline was translated into individual and connected processes and products for several different chains, and thus essential work of WP3.4 “Partial modelling”. These chains were entered into the EFORWOOD client, so that they are visible for all partners and available for filling in data. Connections to M2 (upstream) and M4 and M5 (downstream) were established in cooperation between M3 and M2, M4 and M5.
- 3.) The material stream along the process chains was determined and for M3 translated into product shares and volumes for each step in the M3 part of the modelling and allocated to the respective products linked to the processes in questions. This was done within the framework of WP3.1 “Allocation” work, and formed the backbone for indicator calculation within the case studies.
- 4.) For processes harvesting and hauling (WP3.2 “Harvesting”) as well as for transport and millgate operations (WP3.4 “Transport”) indicator values were calculated following guidelines from the indicator task forces and the “Data collection protocol” (DCP). For this work already existing models were used and adapted, as well as new partial models were developed. Furthermore, a transport process model for M4 transports in Germany was developed, which followed the structures of the M3 transports in Germany model, in order to help M4 partners to obtain data for transport indicator calculation of transport processes within the BW case study in M4.

## 5.) Status quo of the individual case studies:

For BW:

Most of the indicators for 2005 have been calculated, and entered into the EFORWOOD client. The only exception is indicator 6.2 “Research and Development” for which so far no figures could be obtained.

The calculation of the millgate processes shaped up a bit difficult because of lack of information from industry. No data are available for the indicators **12. Occupational safety and health, 13. Education and training, 21. Water use and 27.2.2 - Waste to incineration.**

The data will be entered in to the EFORWOOD client until end of October.

For Västerbotten:

All indicators for 2005 have been calculated and entered into the EFORWOOD client.

For Iberia:

Iberia is a consumption-driven case which strongly depends on imports. Most imports come from Scandinavia, so the there defined and calculated chains apply. For produced timber within the region of Iberia, [status quo of calculation?](#)

## Results

All calculated indicators are saved within the EFORWOOD Client, and can be viewed there either online or exported as MS excel files. Those MS excel files are of considerable size and are therefore not attached to this deliverable.

## Future work

The data collection for 2005 has been carried out for the case studies. Next steps are the calculation of the reference futures A1 and B2 for 2015 and 2025 for each case study, as well as scenario calculation for 2015 and 2025. Partial models for indicator calculation thereof are presently under construction.