



# **SHAPE YOUR SUSTAINABILITY TOOLS**

**- and let your tools shape you**

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## **A Tool for Sustainability Impact Assessment (ToSIA) of Forest-Wood Chains Linked with a Database of Sustainability Indicators Collected within the EFORWOOD Project**

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Within the EFORWOOD project new approaches to assess the sustainability impacts of forest-wood chains (FWC) using indicators of environmental, social and economic sustainability were developed. Two main products hold and integrate the extensive information collected in the project, namely the sustainability impact assessment tool ToSIA and the EFORWOOD Database Client. In the paper both ToSIA and the Database Client, which are used in different EFORWOOD applications, will be presented. The main functionalities of both software products will be introduced.

ToSIA analyses forest-wood chains as chains of production processes (e.g., harvesting – transport – industrial processing), which are linked with products (e.g., a timber frame house). Firstly the topology of the FWC is designed and the data is input into the Database Client. The data is then generated from the database and transferred to ToSIA. Sustainability is determined by analysing environmental, economic and social sustainability indicators for all of the production processes along the FWC. The ToSIA software enables dynamic interaction with users/stakeholders in the defining of specific FWCs and criteria of sustainability, reads sustainability information, and calculates results with regard to sustainability, thereby allowing for the comparison of the selected chains.

In the presentation the methods behind the tools will be introduced and the ways in which they can be utilised in different applications after the successful completion of the EFORWOOD project will be discussed.