

## **Development and Implementation of Services for Sustainable Forest Timber Supply Chain Planning and Control**

Topic II Sustainable Supply Chain Management

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Presentation Abstract

SCM for Timber Logistics, Information Exchange, Partner and Process Integration

Economic pressure on timber processing industries, increased European timber imports and exports and growing demand for forest biomass as a renewable energy are compelling forestry to optimize value added processes to generate savings. Since supply from the forest to the factory incurs the most costs, efficient logistics organization is an important secondary aspect.

The Fraunhofer IFF and Landesforstbetrieb Sachsen-Anhalt developed an approach to planning and controlling logistics processes in the forest timber supply chain that integrate micro, small and medium-sized service enterprises.

The extended open concept enables service providers to bidirectionally exchange a forestry operation's logistics information (good practice approach). As service providers endeavor to enhance value added and minimize resource consumption while protecting business interests, approaches and solutions have been applied to optimize forestry operation processes with service providers and clients.

An actual example illustrates the positive effect standardized interfaces and open services and solutions have on internal and external processes by increasing value added and improving resource management. Nonetheless, potential risks arise in the supply chain, e.g. new technology use, changed processes and shifted cost types and shares, particularly for micro and small enterprises. International research projects have applied options for action to minimize and prevent risk.