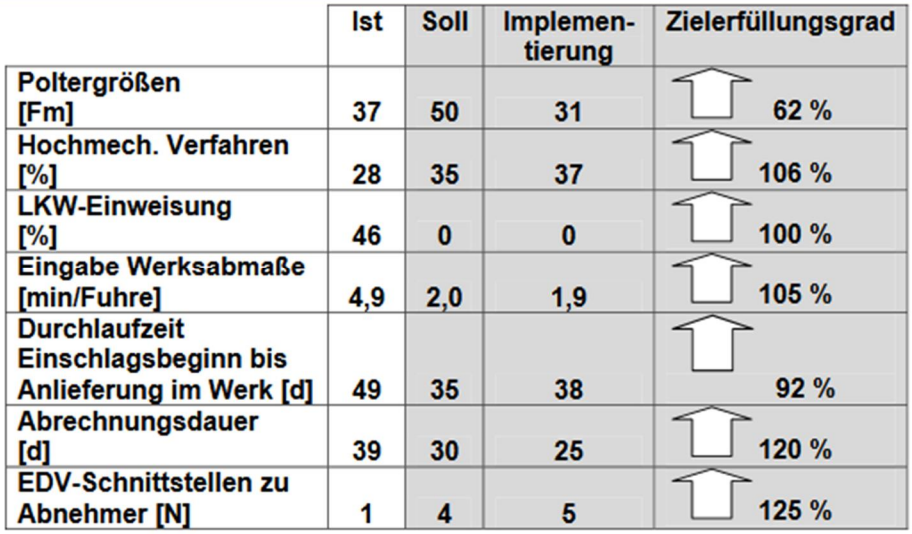
Description of best practice

Best practice	
Title	WBV Logistics: Optimization of the timber harvest chains and mobilization in private forests – regions Holzkirchen, Rosenheim and Traunstein
Picture	
Domain	Infrastructure/logistics
Source of wood	Stemwood
Location	Bavaria (Holzkirchen, Rosenheim & Traunstein) (Germany)
Implementers	Lehrstuhl für Forstliche Arbeitswissenschaft und Angewandte Informatik Technische Universität München
Actual status	Closed
Approach	Goal of the project was to improve the flow of information and of material in the timber supply process of the forestry associations (WBVs) Traunstein, Rosenheim and Holzkirchen. The following objectives were defined: • Creation of an integrative model to increase the competitiveness of all stakeholders in the value-added chain (forest owner, WBVs, contractors, haulers, consumers of wood) • Evaluation of different timber harvest chains in the frame of an actual state analysis based on important logistic indicators (i.a. lead times, accounting periods) • Recording of organizational structures and of the technical equipment of the WBVs for the identification of the business process flow
Main results	In the implementation phase, changes were measured in two models:

	regional thinning events and the integration model. In the regional thinning events the following changes were recognized: • The goal of a timber stack size of 50 m³ obs could not be reached, in fact, it even decreased to a size below the size of the actual state analysis • The share of highly mechanized harvesting methods in total logging increased from 28 % to 37 % (goal: 35 %) • The lead time could be reduced from 49 to 38 days (goal: 35 days) • The accounting time (end of transport until final billing) could be reduced from 39 to 25 days (goal: 30 days) due to the installation of 4 EDP-inferfaces with customers (goal: 5 interfaces)
Lessons learned	The study showed that especially in small private forests a clear process coordination is needed to fulfill customer demands while at the same time reducing idle time → consequent use of modern information and communication technology is very essential.
Contact information	Lehrstuhl für Forstliche Verfahrenstechnik und Angewandte Informatik; Technische Universität München
Link to website	http://www.info-holzmobilisierung.org/fileadmin/portale/allgemein/Publikationen_und_Arbeiten/2005-05_WBV-Logistik_Optimierung_der_Holzernteketten_Endbericht_01.pdf
Code	BP_DE_04

Best practice assessment

Region	Bavaria
Time scale	1.11.2003 - 30.5.2005
Mobilization Potential	Estimated 1 m^3/ha through more efficient staff at forest owner association
Kind of wood concerned	Stemwood
Sustainability Potential	positive
Impact on environment & biodiversity	Positive on biodiversity and forest resilience enhancement
Ease of implementation	Medium
Economic impact	more efficient working processes
Job effect	Better qualified staff through project including results
Income effect	more efficient working processes and cost reduction possibility identification
Specific knowledge needed	Staff have to be trained with IT-tools
Costs of implementation	Project manager needed for half year minimum to transfer project approach to another region
Technical readiness level	Applicable
Key information for adoption	Using standard IT solutions and adopt existing organization to usage