WBV Logistics: Optimization of the timber harvest chains and mobilization in private forests – regions Holzkirchen, Rosenheim and Traunstein



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 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 à consequent use of modern information and communication technology is very essential. 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)

ORIGIN OF WOOD Forest TYPE OF WOOD Stemwood	MOBILIZATION POTENTIAL Estimated 1 m ³ /ha through more efficient staff at forest owner association SUSTAINABILITY POTENTIAL - VALUE
KIND OF WOOD CONCERNED	EASE OF IMPLEMENTATION
Stemwood	Medium
IMPACT ON ENVIRONMENT & BIODIVERSITY	EASE OF IMPLEMENTATION - EVALUATION
Positive on biodiversity and forest resilience enhancement	
INCOME EFFECT	KEY PREREQUISITES
more efficient working processes and cost reduction possibility identification	Using standard IT solutions and adopt existing organization to usage
EXPLOITATION POTENTIAL	TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED
HUB	JOB EFFECT
	Better qualified staff through project including results
ECONOMIC IMPACT	COSTS OF IMPLEMENTATION (EURO - €)
more efficient working processes	
SPECIFIC KNOWLEDGE NEEDED	

Staff have to be trained with IT-tools

CHALLENGE ADDRESSED	DOMAIN	TYPE OF SOLUTION
	Harvesting, infrastructure, logistics	
KEYWORDS	DIGITAL SOLUTION	INNOVATION
	No	No
COUNTRY OF ORIGIN	SCALE OF APPLICATION	START AND END YEAR
Germany	Regional/sub-national	2003 - 2005

REFERENCES _____

MAIN WEBSITE

http://www.info-

holzmobilisierung.org/fileadmin/portale/allgemein/Publikationen_und_Arbeiten/2005-

05_WBV-Logistik_Optimierung_der_Holzernteketten_Endbericht_01.pdf

PROJECT WEBSITE

PROJECT REFERENCE

RESOURCES

--

PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood

POST DATE 15 Nov 2019







This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



