Rolling silviculture planning (annually)



Forest management based on the latest available technical solutions and satellite data (Sentinel2 and caliper with georeferencing possibility). Determinization of rough wood according to tree-species for the entire forestry operation surface. Realtime wood stock management and silvicultural measure planning reviewed with silvicultural planning simulations. Rolling management approach on an annually basis for optimization of economic, ecological and social values. Management units of approx. 30 hectares defined to enhance efficiency of the entire process. Reduction of rotation periods according to tree-species

Advanced forest management and silvicultural planning on a good wood stock analysis with proximity in time is one key factor for optimization of forest management, silvicultural measures and wood production incl. better selling possibilities. New learning process possibilities. Enhanced reaction times on requests of all sorts and in the case of extreme events (storms etc.). The approach allows the better exploitation of the growing wood potential, reducing the rotation period and thereby fostering the climate change adaptation potential. Efficiency enhancement in economic, ecological and social dimension with the aid of modern techniques is possible and will become more prominent in the future

Efficiency enhancement in economic, ecological and social dimension. Increased yield and cost reduction resulting in enhanced profitability while providing stability for wood stocks. Reducing discards by adaptation to climate change and active monitoring of sustainability principles. Exploiting of new selling opportunities. Active learning possibilities through Realtime verification of work processes incl. field work (work plan -> validation -> assignment -> verification). Better integration possibilities of all actors in the field and active work support. Better communication possibilities with players of downstream markets

ORIGIN OF WOOD	MOBILIZATION POTENTIAL
Forest	1 – 2 m³/ha
TYPE OF WOOD	
Stemwood	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
Positive / more efficient working processes / cost reduction possibility	Sentinel2 datas (which are freely available)
identification	
HUB	JOB EFFECT
	Better qualified staff through verification and discussion possibilities
ECONOMIC IMPACT	COSTS OF IMPLEMENTATION (EURO - €)
Enhancement of regionally added value / more efficient working processes	
/active learning	

GIS data processing possibilities needed

CHALLENGE ADDRESSED	DOMAIN	TYPE OF SOLUTION
	Forest management, ecosystem, resilience	
KEYWORDS	DIGITAL SOLUTION	INNOVATION
	No	No
COUNTRY OF ORIGIN	SCALE OF APPLICATION	START AND END YEAR
Switzerland	Regional/sub-national	2017 -
CONTACT DATA		
OWNER OR AUTHOR	REPORTER	
stefan.flueckiger@bgbern.ch		

REFERENCES
AND RESOURCES

MAIN WEBSITE	RESOURCES
https://forst.bgbern.ch	
PROJECT WEBSITE	
PROJECT REFERENCE	

--

PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood

POST DATE 16 Sep 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



