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

DETTAGLI

ORIGINE DEL LEGNO

foresta

TIPO DI LEGNO

Fusto

TIPO DI LEGNO IN QUESTIONE

Stemwood

IMPATTO SULL'AMBIENTE E LA BIODIVERSITà

Positive on biodiversity and forest resilience enhancement

EFFETTO SUL REDDITO

Positive / more efficient working processes / cost reduction possibility identification

POTENZIALE DI SFRUTTAMENTO

--

HUB

--

IMPATTO ECONOMICO

Enhancement of regionally added value / more efficient working processes /active learning

CONOSCENZE SPECIFICHE NECESSARIE

POTENZIALE DI MOBILITAZIONE

1 – 2 m³/ha

POTENZIALE SOSTENIBILITà - VALORE

--

FACILITà DI IMPLEMENTAZIONE

Medium

FACILITà DI IMPLEMENTAZIONE - VALUTAZIONE

--

PREREQUISITI CHIAVE

Sentinel2 datas (which are freely available)

TIPO DI EVENTO IN CUI QUESTO BPI è STATO PRESENTATO

--

EFFETTO SUL LAVORO

Better qualified staff through verification and discussion possibilities

I COSTI DI ATTUAZIONE (EURO - €)

--

GIS data processing possibilities needed

Più DETTAGLI

SFIDA RISOLTA

--

DOMINIO

La gestione forestale, selvicoltura, i servizi ecosistemici, resilienza

TIPO DI SOLUZIONE

--

PAROLE CHIAVE

--

SOLUZIONE DIGITALE

No

INNOVAZIONE

No

PAESE D'ORIGINE

Svizzera

SCALA DI APPLICAZIONE

Regionale / sub-nazionale

INIZIO E FINE ANNO

2017 -

CONTATTI

PROPRIETARIO O AUTORE

stefan.flueckiger@bgbern.ch

REPORTER

REFERENCES AND RESOURCES

SITO PRINCIPALE

https://forst.bgbern.ch

SITO WEB DEL PROGETTO

--

PROGETTO DI RIFERIMENTO

--

RISORSE

--

PROGETTO NELL'AMBITO DEL QUALE QUESTA SCHEDA è STATA CREATA

Rosewood

DATA DI INSERIMENTO

16 Set 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