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

DETALHES

ORIGEM DA MADEIRA
Floresta

TIPO DE MADEIRA
Tronco

TIPO DE MADEIRA EM CAUSA
Stemwood

IMPACTE NO AMBIENTE E BIODIVERSIDADE
Positive on biodiversity and forest resilience enhancement

IMPACTE NAS RECEITAS
Positive / more efficient working processes / cost reduction possibility identification

POTENCIAL DE EXPLORAçãO
--

HUB
--

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

CONHECIMENTOS ESPECIFICOS NECESSáRIOS

POTENCIAL DE MOBILIZAçãO
1 – 2 m³/ha

SUSTENTABILIDADE POTENCIAL - VALOR
--

FACILIDADE DE IMPLEMENTAçãO
Medium

FACILIDADE DE IMPLEMENTAçãO
--

PRE-REQUISITOS CHAVE
Sentinel2 datas (which are freely available)

TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO
--

IMPACTE NO EMPREGO
Better qualified staff through verification and discussion possibilities

CUSTOS DE IMPLEMENTAçãO (EURO - EUR)
--

GIS data processing possibilities needed

MAIS DETALHES

DESAFIO ABORDADO

--

DOMíNIO

Gestão florestal, silvicultura, serviços do ecosistema, resiliencia

TIPO DE SOLUçãO

--

PALAVRAS-CHAVE

--

SOLUçãO DIGITAL

Não

INOVAçãO

Não

PAíS DE ORIGEM

Suíça

ESCALA DE APLICAçãO

Regional/ sub-nacional

ANO DE INíCIO E FIM

2017 -

DADOS DE CONTACTO

PROPRIETáRIO OU AUTOR

stefan.flueckiger@bgbern.ch

REPóRTER

REFERENCES AND RESOURCES

WEBSITE PRINCIPAL

https://forst.bgbern.ch

WEBSITE DO PROJETO

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REFERêNCIA AO PROJETO

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RECURSOS

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PROJETO NO âMBITO DO QUAL A FOLHA DE DIVULGAçãO FOI CRIADA

Rosewood

DATA DE ENTRADA

16 Set 2019

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY