Cable yarding simulation



VeroSim Cable Yarding

Based on the forest digital twin, timber harvesting with a cable crane can be simulated. Working times, machine hours and the timber assortments produced are added up and displayed graphically. The results can be used to compare different variants of line layout and intervention strength and thus determine an optimum.

Timber harvesting with a cable crane method is simulated and all work steps and the harvested timber assortments are totaled so that the results of the simulation can improve the executed felling.

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DETAILS

ORIGIN OF WOOD MOBILIZATION POTENTIAL

Forest > 50'000 m³ for Switzerland

TYPE OF WOOD

Stemwood SUSTAINABILITY POTENTIAL - VALUE

Positive

KIND OF WOOD CONCERNED EASE OF IMPLEMENTATION

Logs and whole trees Specialist knowledge is required

IMPACT ON ENVIRONMENT & BIODIVERSITY EASE OF IMPLEMENTATION - EVALUATION

Forests adapted to climate change thanks to intervention in inaccessible

terrain.

Difficult

INCOME EFFECT KEY PREREQUISITES

Improved profitability of logging in steep terrain

EXPLOITATION POTENTIAL TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED

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HUB JOB EFFECT

Central-West Hub Optimized planning

ECONOMIC IMPACT COSTS OF IMPLEMENTATION (EURO - €)

Reduced installation cost, improved profitability 5000

SPECIFIC KNOWLEDGE NEEDED

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MORE DETAILS

CHALLENGE ADDRESSED

TYPE OF SOLUTION

5.- Enhance economic and environmental

Harvesting, infrastructure, logistics

Advice and services for forest owners

performance of forest supply chains

DIGITAL SOLUTION

INNOVATION

cable-crane

KEYWORDS

Yes

DOMAIN

Yes

digital-twin

COUNTRY OF ORIGIN SCALE OF APPLICATION START AND END YEAR

Switzerland

Cross-border/multi-lateral (several countries)

2021 - 2025

CONTACT DATA

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REFERENCES AND RESOURCES _____

MAIN WEBSITE

RESOURCES

https://www.bfh.ch/en/research/research-projects/2021-297-267-347/

PROJECT WEBSITE

PROJECT REFERENCE

Cable yarding simulation 4.0



PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood 4.0

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY





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