Mobile Timber Cruise (MOTI)



Forest stand inventory with the aid of the Smartphones capabilities (App). Easy, cheap and reliable tool for determining the most important dendrometer indicators (key figures of tree stands). Suitable for single tree measurement or stand inventories

Smartphones can be used as a good referencing tool for forest inventories and forest operation planning. Many further application developments and integrations thinkable

Easy and fast implementation of forest inventories and single tree measurement.
Possible determination of the base area (m2/ha) with or without the distinction of different tree species. Trunk rate (#/ha), stand height (m/ha), reserve of rough wood (m3/ha)

DETAILS

ORIGIN OF WOOD
Forest

TYPE OF WOOD
Stemwood

KIND OF WOOD CONCERNED
Stemwood

IMPACT ON ENVIRONMENT & BIODIVERSITY
Positive. Deeper knowledge about forest stands lead to more adapted silvicultural interventions enhancing sustainability

INCOME EFFECT
Positive (less field work needed)

EXPLOITATION POTENTIAL
--

HUB
--

ECONOMIC IMPACT
- 10 m³/ha

SPECIFIC KNOWLEDGE NEEDED

MOBILIZATION POTENTIAL
0.1 - 0.2 m³/ha throughout the forested area of Switzerland (1.26 mio. ha)

SUSTAINABILITY POTENTIAL - VALUE
--

EASE OF IMPLEMENTATION
Very easy

EASE OF IMPLEMENTATION - EVALUATION
--

KEY PREREQUISITES
Download from App-store (free of charge) available in different languages / app is adapted for forests with a lot of wood standing (big living stock)

TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED
--

JOB EFFECT
Positive thru better competitiveness

COSTS OF IMPLEMENTATION (EURO - €)
--

Low, App usage

MORE DETAILS

CHALLENGE ADDRESSED

--

DOMAIN

TYPE OF SOLUTION

Sensors, measurement equipment

KEYWORDS

--

DIGITAL SOLUTION

Yes

INNOVATION

No

COUNTRY OF ORIGIN

Switzerland

SCALE OF APPLICATION

National

START AND END YEAR

2013 -

CONTACT DATA

OWNER OR AUTHOR

REPORTER

christian.rosset@bfh.ch

REFERENCES AND RESOURCES

MAIN WEBSITE

http://www.moti.ch

RESOURCES

--

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