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

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HUB

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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

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EASE OF IMPLEMENTATION

Very easy

EASE OF IMPLEMENTATION - EVALUATION

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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

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JOB EFFECT

Positive thru better competitiveness

COSTS OF IMPLEMENTATION (EURO - €)

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Low, App usage

MORE DETAILS

CHALLENGE ADDRESSED	DOMAIN	TYPE OF SOLUTION
--		Sensors, measurement equipment

KEYWORDS	DIGITAL SOLUTION	INNOVATION
--	Yes	No

COUNTRY OF ORIGIN	SCALE OF APPLICATION	START AND END YEAR
Switzerland	National	2013 -

CONTACT DATA

OWNER OR AUTHOR

REPORTER

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REFERENCES AND RESOURCES

MAIN WEBSITE

http://www.moti.ch

RESOURCES

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PROJECT WEBSITE

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PROJECT REFERENCE

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PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood

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