

## 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 ( $m^2/ha$ ) with or without the distinction of different tree species. Trunk rate ( $\#/ha$ ), stand height ( $m/ha$ ), reserve of rough wood ( $m^3/ha$ )

## DETAILS

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### 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 m<sup>3</sup>/ha

### SPECIFIC KNOWLEDGE NEEDED

### MOBILIZATION POTENTIAL

0.1 - 0.2 m<sup>3</sup>/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**

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**CHALLENGE ADDRESSED**

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**KEYWORDS**

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**COUNTRY OF ORIGIN**

Switzerland

**DOMAIN**

**DIGITAL SOLUTION**

Yes

**SCALE OF APPLICATION**

National

**TYPE OF SOLUTION**

Sensors, measurement equipment

**INNOVATION**

No

**START AND END YEAR**

2013 -

**CONTACT DATA**

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**OWNER OR AUTHOR**

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**REPORTER**

**REFERENCES  
AND RESOURCES**

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**MAIN WEBSITE**

<http://www.moti.ch>

**PROJECT WEBSITE**

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**PROJECT REFERENCE**

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**RESOURCES**

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**PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED**

Rosewood

**POST DATE**

16 Sep 2019

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[Link to Rosewood 4.0](#)



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**A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY**

