# 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**

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**DOMAIN**

**TYPE OF SOLUTION**

Sensors, measurement equipment

**KEYWORDS**

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**DIGITAL SOLUTION**

Yes

**INNOVATION**

No

**COUNTRY OF ORIGIN**

Switzerland

**SCALE OF APPLICATION**

National

**START AND END YEAR**

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

## POST DATE

16 Sep 2019

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