


Description of best practice

Best practice	
Title	Mobile Timber Cruise (MOTI)
Picture	
Domain	Digitalisation
Source of wood	Stemwood
Location	Zollikofen
Implementers	Bern University of Applied Sciences (School of Agricultural, Forests and Food Sciences (HAFL))
Actual status	Running
Approach	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
Main results	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 ($\#/\text{ha}$), stand height (m/ha), reserve of rough wood (m^3/ha)
Lessons learned	Smartphones can be used as a good referencing tool for forest inventories and forest operation planning. Many further application developments and integrations thinkable
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Link to website	www.moti.ch
Code	BP_CH_04

Best practice assessment

Region	Switzerland
Time scale	2013 -
Mobilization Potential	0.1 - 0.2 m ³ /ha throughout the forested area of Switzerland (1.26 mio. ha)
Kind of wood concerned	Stemwood
Sustainability Potential	Very positive
Impact on environment & biodiversity	Positive. Deeper knowledge about forest stands lead to more adapted silvicultural interventions enhancing sustainability
Ease of implementation	Very easy
Economic impact	- 10 m ³ /ha
Job effect	Positive thru better competitiveness
Income effect	Positive (less field work needed)
Specific knowledge needed	Low, App usage
Costs of implementation	Very low (only a Smartphone is needed)
Technical readiness level	Immediately applicable
Key information for adoption	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)