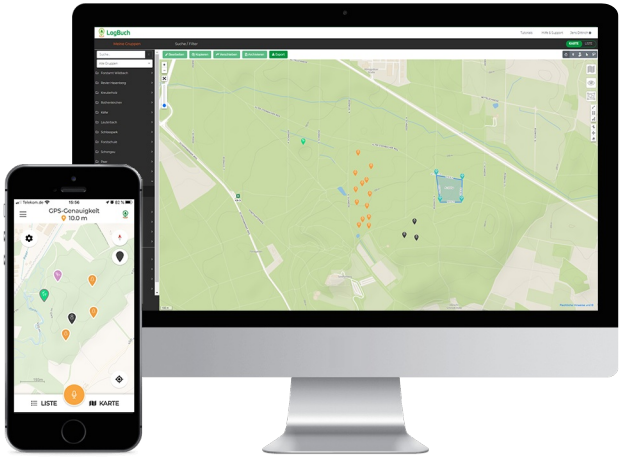
LogBuch | Simple and efficient forest data collection



Digital solution for forestry data collection and networking of all actors in the timber process chain. Offline in the outdoor area, comfortable use thanks to voice recording and intuitive operation through a practice-oriented menu navigation in the mobile app and the web application.

LogBuch enables data aggregation in the forest, a simple evaluation of the data and further processing. The combination of voice recording and Bluetooth button enables hands-free precise location of trees with simultaneous recording of important information about the tree, such as safety instructions or planning working procedures. The expected cut volume can be determined, and assortments planned. Foresters and harvester operators both receive detailed information (cross-linking with third party systems is supported). Technology: An A 2-frequency GNSS-receiver is connected to a smartphone to estimate the current position. A bluetooth button is used for language analysis. All spoken information can be recorded, automatically transcribed and classified, and the actual position lodged. WLAN is used for data exchange between smartphone, webserver and other users. Data can be exported as a map or table in georeferenced or not referenced formats (xlsx, GeoJson, shp, GPX, map). Applications: Preparation of timber harvesting, establishment of a digital "inventory", area mapping (also planting) by connecting recorded corner points, mapping of skid trails by the line function (harvest control or certification basis), remote navigation via Google Maps. In addition, recording of habitat trees etc., support for hunting organization (high seats, driven hunt stands, stalking routes etc.) and traffic safety measures.

DETAILS

ORIGIN OF WOOD
Forest

TYPE OF WOOD
Stemwood

KIND OF WOOD CONCERNED
All types of wood

IMPACT ON ENVIRONMENT & BIODIVERSITY
Decreased damages protect the forest soil as an important part of the forest ecosystem. Efficient planning also reduces fuel consumption.

INCOME EFFECT
--

EXPLOITATION POTENTIAL
--

HUB
--

ECONOMIC IMPACT
Good planning reduces working time and fuel consumption, resulting in cost reductions for timber harvesting operators.

MOBILIZATION POTENTIAL
Better and more efficient planning of mechanized timber harvest supports wood mobilization through cost reduction.

SUSTAINABILITY POTENTIAL - VALUE
Positive

EASE OF IMPLEMENTATION
The solution is available on the market.

EASE OF IMPLEMENTATION - EVALUATION
Very Easy

KEY PREREQUISITES
--

TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED
Study visit (T2.3)

JOB EFFECT
In light of aging workforces, digital solutions are expected to make forestry jobs more attractive to the next generation. The app helps to qualify staff.

COSTS OF IMPLEMENTATION (EURO - €)
--

SPECIFIC KNOWLEDGE NEEDED

Low / the manual is quite self-explanatory

MORE DETAILS

CHALLENGE ADDRESSED

5.- Enhance economic and environmental performance of forest supply chains

DOMAIN

Inventory, monitoring

Forest management, ecosystem, resilience

Harvesting, infrastructure, logistics

TYPE OF SOLUTION

Smart machinery, equipment

KEYWORDS

--

DIGITAL SOLUTION

Yes

INNOVATION

Yes

COUNTRY OF ORIGIN

Germany

SCALE OF APPLICATION

Continental

START AND END YEAR

2017 -

CONTACT DATA

OWNER OR AUTHOR

SDP Digitale Produkte GmbH - LogBuch

Friedrich Hollmeier

friedrich.hollmeier@sdp-logbuch.de

https://logbuch.xyz/

REPORTER

FBZ

Marie-Charlotte Hoffmann, Elke Hübner-Tennhoff

marie-charlotte.hoffmann@wald-und-holz.nrw.de

REFERENCES AND RESOURCES

MAIN WEBSITE

https://logbuch.xyz/

PROJECT WEBSITE

--

PROJECT REFERENCE

--

RESOURCES

Forstpraxis.de / Forest&Technology - "Please for dictation"

LogBuch - we digitalize the forest (video)

LOGO OF BEST PRACTICE

LOGO OF MAIN ORGANIZATION

PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood 4.0

POST DATE

12 Aug 2021

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