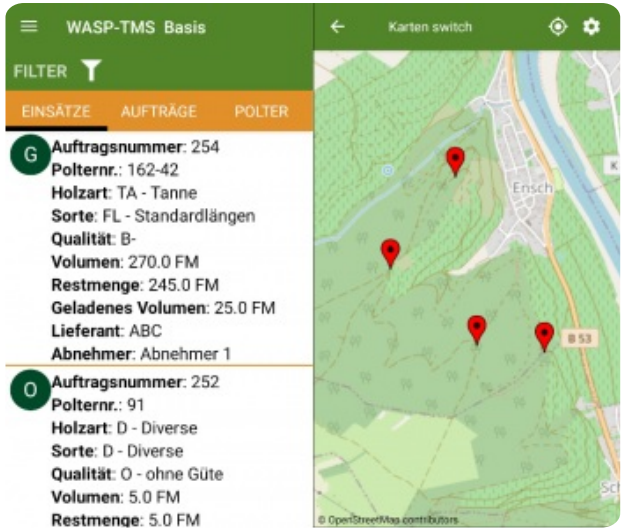
WASP | Wood logistics platform



Using the WASP's wood logistics platform, all actors involved in the forest and timber supply chain can improve the planning horizon to optimise the supply chain across companies.

The forest and timber industry is one of the leading industries in Germany, with 1.3 million people employed and annual sales of €181 billion. This sector is also characterised, however, by relatively low returns on its sales. Cost-reduction potentials can be realized if flows of material and informationare optimised. Using the WASP's wood logistics platform, all actors involved in the forest and timber supply chain can improve the planning horizon to optimise the supply chain across companies. Based on modern cloud technology, the WASP logistics platform seeks to interlink established software solutions with newly developed modules. It uses geodata to register and manage wood piles, and satellite navigation is integrated for use in timber transport. Wood piles can be captured by cameras, automatically geocoded, and transferred to the platform. In addition, the platform allows to handle dispatching with support for GPS (and in the future, Galileo) signals by retrieving vehicles' geocoordinates in real-time using mobile receivers, transferring them to the platform, and displaying positions and locations on a map. Integrated online map services like Navlog, OpenStreetMap (OSM), ArcGIS (ESRI), and Google Maps are also featured. The core advantage of WASP, meanwhile, is its integration of software applications that are already used in various sections along the entire value chain.

DETAILS

ORIGIN OF WOOD

Forest

TYPE OF WOOD

Stemwood

KIND OF WOOD CONCERNED

--

IMPACT ON ENVIRONMENT & BIODIVERSITY

--

INCOME EFFECT

--

EXPLOITATION POTENTIAL

--

HUB

--

ECONOMIC IMPACT

WASP saves money by reducing working time and fuel consumption

SPECIFIC KNOWLEDGE NEEDED

Low, the set-up is user-friendly

MOBILIZATION POTENTIAL

High

SUSTAINABILITY POTENTIAL - VALUE

--

EASE OF IMPLEMENTATION

The interoperability with software applications that are already used in various sections makes the implementation easy

EASE OF IMPLEMENTATION - EVALUATION

--

KEY PREREQUISITES

--

TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED

--

JOB EFFECT

--

COSTS OF IMPLEMENTATION (EURO - €)

--

MORE DETAILS

CHALLENGE ADDRESSED

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

KEYWORDS

modular logistics platform

dispatching

software integration

COUNTRY OF ORIGIN

Germany

DOMAIN

Harvesting, infrastructure, logistics

DIGITAL SOLUTION

Yes

SCALE OF APPLICATION

Cross-border/multi-lateral (several countries)

TYPE OF SOLUTION

Collaboration platforms, logistical hubs

INNOVATION

Yes

START AND END YEAR

2012 -

CONTACT DATA

OWNER OR AUTHOR

WASP-Logistik GmbH

Florian Lange, Ursula Fendel

info@wasp-logistik.de

https://www.wasp-logistik.de/englisch.html

REPORTER

Forestry Education Center North-Rhine Westphalia

Dr. Marie-Charlotte Hoffmann

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

REFERENCES AND RESOURCES

MAIN WEBSITE

https://www.wasp-logistik.de/produkte.html

PROJECT WEBSITE

--

PROJECT REFERENCE

--

RESOURCES

--

LOGO OF BEST PRACTICE

LOGO OF MAIN ORGANIZATION

PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood 4.0

POST DATE

16 Dec 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