AVATAR | Advanced Virtual Aptitude and Training Application in Real Time

Machine control systems and sensor technology compile directed feedback to guide the operator towards more balanced working methods and techniques.

A digital coaching, assistance and feedback system is designed to improve the productivity and job satisfaction of forest machine operators with reduced mental stress and to make the training of junior staff more attractive and efficient. The overall objective is to make recommendations for the future development and implementation of an operator interface with optimal timing of feedback interpretation for decision support. The prototype of the digital coach will be integrated in forestry machines in Germany and Scandinavia and will also be used as a test environment in the simulators at FBZ. In the evaluation of the use cases the improvement of the forest-wood logistics chain will be critically assessed. In addition, the evaluation will assess how well the project meets the market requirements. The project consortium's approach to training is to ensure that the knowledge acquired can be optimally applied by the users.

MORE DETAILS

CHALLENGE ADDRESSED

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

KEYWORDS

--

COUNTRY OF ORIGIN

Germany

DOMAIN

Harvesting, infrastructure, logistics

Research and development

DIGITAL SOLUTION

Yes

SCALE OF APPLICATION

Cross-border/multi-lateral (several countries)

TYPE OF SOLUTION

Smart machinery, equipment

INNOVATION

Yes

START AND END YEAR

2019 - 2021

CONTACT DATA

OWNER OR AUTHOR

Georg-August Universität Göttingen

Dirk Jaeger

dirk.jaeger@uni-goettingen.de

REPORTER

Landesbetrieb Wald und Holz NRW

Thilo Wagner

thilo.wagner@wald-und-holz.nrw.de

REFERENCES AND RESOURCES

MAIN WEBSITE

http://www.avatar.uni-goettingen.de/

PROJECT WEBSITE

https://forestvalue.org/funded-projects-jc-2017/

PROJECT REFERENCE

ERA-NET Cofund ForestValue by Fachagentur Nachwachsende Rohstoffe (FNR, Germany), Forskningsradet (The Research Council of Norway), VINNOVA, The Swedish Innovation Agency. ForestValue has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 773324.

RESOURCES

AVATAR project presentation

PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood 4.0

POST DATE

31 Oct 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