



FORWARDER
2020 SUSTAINABLE AND
SMART LOGGING

PROJECT SUMMARY

Forwarder2020 is a Horizon 2020 innovation project with the aim of improving the sustainability of wood production and delivery as well as operational forest management and planning. Within the project innovations for more efficient forwarders, essential wood extraction and transportation vehicles, will be developed and tested in real conditions.

With a total budget of almost 3M€ (2 M€ funding) 14 European partners from industry and research will work on five innovative modules for forwarders aiming at improving efficiency of the machine, reducing the fuel consumption and minimizing the impact on the environment and on the operators' health. Over the course of three years (2016-2019) the Forwarder2020 partners will gather their expertise to advance diverse technologies, which will contribute to smart and sustainable logging operations using innovative forestry machines. All in all the five innovative modules will be integrated into two prototypes which will be tested in Scotland, Lithuania and Romania.

For more information on Forwarder2020 and to stay updated on the project's activities and progress, please see the website www.forwarder2020-project.eu

PRESS RELEASE

Horizon 2020 project Forwarder2020 finished first full field tests and starts a European Roadshow

Finally, in March 2018 the integration of 3 out of 5 innovative modules into a completely running first prototype was achieved and first field tests under harsh forest conditions were carried out from 28th to 13th April 2018 under operation of Forstdienstleistungen Hegenbarth and supervision of Bern University of Applied Sciences in Saxony. The tests included preparative test runs, hardship tests, but were dominated by the scientific time study and reference cycle generation. These tests had been very satisfying. The machine works very well and without any failures.

End of April the machine was ready for the transport to the demonstration site in Scotland near Banchory, where further tests under forest conditions continued. Under operation of contractor and project partner CSP Forestry Ltd. these second field trials were performed. The particular challenge of the harvesting site with Sitka spruce was the extremely wet and boggy soil, where the triple-bogie (module 4) could show its superior abilities. Additionally the fully functional energy saving crane (module 3) was under test. And finally, the "smart forwarder" (module 5) with iFOS and GeoMail was exposed to a field stress test. The forwarder was driven by CSP's test operator Michael Tye who constantly gave feedback about his impression of the machine under these conditions. For getting more detailed information about the machine behaviour, between the 10th and the 18th of May, an in-depth research aiming at the performance parameters of the machine was carried out. A detailed



analysis of the results is still outstanding, but first impressions show that the machine works very well and results from every of the three integrated modules are more than satisfying.

Alongside these second field tests a first knowledge transfer seminar took place in Banchory (Scotland) at 16th of May, in the frame of which the prototype was officially presented to the public for the first time. Forest contractors, journalists and forest owners joined the seminar and after a brief introduction to the project the group set off to the demonstration site and a full loading cycle was done by Michael Tye, a forwarder operator working for CSP, who was himself very impressed how the forwarder travelled under such wet conditions. After the practical part of the seminar the group returned to the hotel where the project partners gave a short presentation of the five innovative modules, the first results of the field tests in Saxony and the benefits of this new forwarder. The final Q&A session was very welcome and showed the active interest of the participants.

After this first presentation of the prototype interested parties will have a couple of possibilities to view the prototype as project coordinator HSM will present it on several events within the next month in the frame of a European Roadshow. Visitors will have the possibility to see the prototype in France, Germany, Finland and Poland. Project coordinator HSM is presenting the machine on the fairs and is open to questions on the project or on the machine and the functioning of the modules. Flyers and posters will additionally be available to give interested parties a comprehensive overview of the EU project Forwarder2020.

FORWARDER2020: EUROPEAN ROADSHOW WITH HSM



Logos on the left: HSM, Transilvania University of Brasov, Rexroth Bosch Group, HYDAC SYSTEM, CSP FORESTRY LTD, KIT Karlsruhe Institute of Technology, Dana Rexroth Transmission Systems.

Logos on the right: STEINBEIS-EUROPA-ZENTRUM, forstware Informationssysteme GmbH, Aleksandro Stulginskio universitetas, FORSTWIRTSCHAFTLICHE HOCHSCHULE NIEBERGARTH, TREFOREX, ROTECA Masini Forestiere, B Bielefeld University of Applied Sciences.

Event Schedule:

- 21. - 23. June 2018 - Euroforest, Macon (France)
- 18. - 22. July 2018 - Interforst, Munich (Germany)
- 30. August - 01. September 2018 - FinnMETKO, Jämsä (Finland)
- 07.- 09. September 2018 - EKO-LAS, Mostki (Poland)

For more information please visit the project's website www.forwarder2020-project.eu

And follow the project on [twitter](#).

Project duration: 10/2016 – 09/2019

Participant countries: Germany, Italy, Lithuania, Romania, Switzerland and the United Kingdom

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Forwarder2020 is coordinated by the Hohenloher Spezial Maschinenbau GmbH & Co KG in cooperation with 14 partners: Rotecac srl, Dana Rexroth Transmission Systems srl, Bosch-Rexroth Ltd, Hydac System GmbH, Berner Fachhochschule, University Aleksandro Stulginskio in Kaunas, Transylvanian University of Brasov, Karlsruhe Institute of Technology, Steinbeis Innovation GmbH, Forstdienstleistungen Hegenbarth, Treforex srl, CSP Forestry Ltd and Forstware Informationssysteme GmbH.

