EXTRAFOR | Exoskeletons for forest works



The Extrafor project aims to reduce the drudgery of logging by creating an exoskeleton adapted to the needs of manual logging.

The mechanization rate for harvesting hardwood stands is only 10% and mechanization in silviculture is very limited. Many operators report musculoskeletal disorders.The use of exoskeletons in the forest would make it possible to assist the operators in their work, it would make their task easier while aiming to preserve their health, without of course compromising their safety. It is a hybrid solution that combines the acuity of manual work with the strength and endurance of a machine, while obviously remaining affordable. Equipping field workers with ergonomic exoskeletons, adapted to work in the forest is an intermediate and complementary solution between mechanisation and manual work, allowing the unblocking of certain difficult situations. Seeking to increase human capacity instead of replacing it is also a way of meeting the various expectations of citizens (maintaining jobs in rural areas, social acceptability of forest sites) and of enhancing the value of work in the forest (and the sector) by promoting this type of initiative.

PLUS DE DéTAILS

DéFI CONCERNé

4. Assurer une main-d'oeuvre bien formée à travers le développement attractif de compétences et la formation

DOMAINE

Récolte, infrastructure, logistique

TYPE DE SOLUTION

Machines et équipements intelligents

MOTS-CLéS

Exploitation
mechanisation
penibility

SOLUTION DIGITALE

Non

INNOVATION

Oui

PAYS D'ORIGINE

France

ECHELLE D'APPLICATION

Nationale

DéBUT ET FIN D'ANNéE

2017 - 2020

INFORMATIONS DE CONTACT

PROPRIéTAIRE OU AUTEUR

FCBA
Marin Chaumet
Marin.chaumet@fcba.fr
https://www.fcba.fr/travaux/technologies-de-linformation-et-de-la-communication-pour-lexploitation/

RAPPORTEUR

Henri Husson
h.husson@crpf.fr

REFERENCES AND RESOURCES

SITE WEB PRINCIPAL

https://www.fcba.fr/travaux/extrafor-exosquelettes-pour-le-travail-en-foret/

SITE WEB DU PROJET

--

RéFéRENCE DU PROJET

RESSOURCES

--

LOGO DE LA BONNE PRATIQUE

LOGO DE L'ORGANISATION PRINCIPALE



PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A éTé CRééE

Rosewood 4.0

DATE DE PUBLICATION

13 aoû 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

