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.

Più DETTAGLI

SFIDA RISOLTA

4. garantire una forza lavoro ben addestrato attraverso lo sviluppo delle competenze e l'istruzione attraente

DOMINIO

La raccolta, le infrastrutture, la logistica

TIPO DI SOLUZIONE

macchine intelligenti, attrezzature

PAROLE CHIAVE

Exploitation

mechanisation

penibility

SOLUZIONE DIGITALE

No

INNOVAZIONE

Sì

PAESE D'ORIGINE

Francia

SCALA DI APPLICAZIONE

Nazionale

INIZIO E FINE ANNO

2017 - 2020

CONTATTI

PROPRIETARIO O AUTORE

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https://www.fcba.fr/travaux/technologies-de-linformation-et-de-la-communication-pour-lexploitation/

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REFERENCES AND RESOURCES

SITO PRINCIPALE

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

SITO WEB DEL PROGETTO

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PROGETTO DI RIFERIMENTO

RISORSE

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LOGO DELLE MIGLIORI PRATICHE

LOGO DELLA PRINCIPALE ORGANIZZAZIONE

PROGETTO NELL'AMBITO DEL QUALE QUESTA SCHEDA è STATA CREATA

Rosewood 4.0

DATA DI INSERIMENTO

13 Ago 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