

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

PAROLE CHIAVE

Exploitation
mechanisation
penibility

PAESE D'ORIGINE

Francia

DOMINIO

La raccolta, le infrastrutture, la logistica

SOLUZIONE DIGITALE

No

SCALA DI APPLICAZIONE

Nazionale

TIPO DI SOLUZIONE

macchine intelligenti, attrezzature

INNOVAZIONE

Sì

INIZIO E FINE ANNO

2017 - 2020

CONTATTI

PROPRIETARIO O AUTORE

FCBA

Marin Chaumet

Marin.chaumet@fcba.fr

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

REPORTER

Henri Husson

h.husson@crpf.fr

REFERENCES AND RESOURCES

SITO PRINCIPALE

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

SITO WEB DEL PROGETTO

--

PROGETTO DI RIFERIMENTO

RISORSE

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

