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.

VIAC INFORMáCIí

RIEšENá VýZVA

4. Zabezpečiť dobre vyškolenú pracovnú silu prostredníctvom atraktívneho rozvoja zručností a vzdelávania

DOMAIN

Ťažba, infraštruktúra, logistika

TYP RIEšENIA

Inteligentné stroje, zariadenia

KľúčOVé SLOVá

Exploitation

mechanisation

penibility

DIGITALNE RIEšENIE

Nie

INOVáCIE

Áno

KRAJINA PôVODU

Francúzsko

ROZSAH APLIKáCIE

Národný

ZAčIATOK A KONIEC ROKA

2017 - 2020

KONTAKTNé úDAJE

VLASTNíK ALEBO AUTOR

FCBA

Marin Chaumet

Marin.chaumet@fcba.fr

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

REPORTéR

Henri Husson

h.husson@crpf.fr

REFERENCES AND RESOURCES

HLAVNá WEBSTRáNKA

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

PROJEKTOVá WEBSTRáNKA

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REFERENCIA PROJEKTU

ZDROJE

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LOGO NAJLPEŠEJ PRAXE

LOGO HLAVNEJ ORGANIZáCIE

PROJEKT, V RáMCI KTORéHO BOL TENTO INFORMAčNý PREHľAD VYTVORENý

Rosewood 4.0

DáTUM ODOSLANIA

13 aug 2021

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY