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.

MáS DETALLES

RETO ABORDADO

4. Garantizar una mano de obra bien formada a través de un desarrollo de competencias y una educación atractivos

DOMINIO

Aprovechamiento, infraestructura, logística

TIPO DE SOLUCIóN

Maquinaria y equipos inteligentes

PALABRAS CLAVE

Exploitation

mechanisation

penibility

SOLUCIóN DIGITAL

No

INNOVACIóN

Si

PAíS DE ORIGEN

Francia

ESCALA DE APLICACIóN

Nacional

AñO DE INICIO Y FIN

2017 - 2020

DATOS DE CONTACTO

PROPIETARIO O AUTOR

FCBA

Marin Chaumet

Marin.chaumet@fcba.fr

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

REPORTADOR

Henri Husson

h.husson@crpf.fr

REFERENCES AND RESOURCES

SITIO WEB PRINCIPAL

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

SITIO WEB DEL PROYECTO

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REFERENCIA DEL PROYECTO

RECURSOS

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LOGO DE LA BUENA PRáCTICA

LOGOTIPO DE LA ORGANIZACIóN PRINCIPAL

FCBA
INSTITUT TECHNOLOGIQUE

PROYECTO BAJO EL QUE SE HA CREADO ESTA FICHA

Rosewood 4.0

FECHA DE MENSAJE

13 Ago 2021

ROSEWOOD 4.0 Sustainable Wood for Europe

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

cesefor
Centro de Servicios y Promoción Forestal y de su Industria de Castilla y León