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.

MAIS DETALHES

DESAFIO ABORDADO

4. Assegurar uma mão-de-obra bem treinada através do desenvolvimento atractivo de competências e educação

DOMíNIO

Cortes, infraestruturas e logistica

TIPO DE SOLUçãO

Maquinaria inteligente, equipamento

PALAVRAS-CHAVE

Exploitation

mechanisation

penibility

SOLUçãO DIGITAL

Não

INOVAçãO

Sim

PAíS DE ORIGEM

França

ESCALA DE APLICAçãO

Nacional

ANO DE INíCIO E FIM

2017 - 2020

DADOS DE CONTACTO

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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

WEBSITE PRINCIPAL

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

WEBSITE DO PROJETO

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REFERêNCIA AO PROJETO

RECURSOS

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LOGOTIPO DA BOA PRáTICA

LOGOTIPO DA ORGANIZAçãO PRINCIPAL

PROJETO NO âMBITO DO QUAL A FOLHA DE DIVULGAçãO FOI CRIADA

Rosewood 4.0

DATA DE ENTRADA

13 Ago 2021

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Link to Rosewood 4.0

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY