

## 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

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### 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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### PROPRIETÁRIO OU AUTOR

#### FCBA

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

### REPÓRTER

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## REFERENCES AND RESOURCES

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### WEBSITE PRINCIPAL

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

### RECURSOS

### WEBSITE DO PROJETO

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### REFERÊNCIA AO PROJETO





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PROJETO NO ÂMBITO DO QUAL A FOLHA DE DIVULGAÇÃO FOI CRIADA

DATA DE ENTRADA

Rosewood 4.0

13 Ago 2021

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

