

## 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.

## MER INFORMASJON

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### UTFORDRING ADRESSERT

4. Sikre en kompetent arbeidsstyrke gjennom attraktiv ferdighetsutvikling og utdanning

### NØKKEWORD

Exploitation  
mechanisation  
penibility

### OPPRINELSESLAND

Frankrike

### DOMENE

Avvirkning, infrastruktur, logistikk

### DIGITAL LØSNING

Nei

### POTENSIALE

Nasjonal

### TYPE LØSNING

Smarte maskiner og utstyr

### INNOVASJON

Ja

### START OG SLUTT ÅR

2017 - 2020

## KONTAKT INFORMASJON

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### EIER ELLER FORFATTER

#### FCBA

Marin Chaumet

Marin.chaumet@fcba.fr

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

### RAPPORTØR

Henri Husson

h.husson@crpf.fr

## REFERENCES AND RESOURCES

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### HJEMMESIDE (HOVEDSIDE)

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

### PROSJEKTETS HJEMMESIDE

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### REFERANSE TIL PROSJEKT

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### RESSURSER

LOGO FOR BESTE  
PRAKSIS

LOGO FOR HOVEDORGANISASJON



PROSJEKT SOM DETTE FAKTAARKET ER OPPRETTET UNDER

Rosewood 4.0

INNLEGGSDATO

13 aug 2021



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

