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.

MORE DETAILS				
CHALLENGE ADDRESSED	DOMAIN		TYPE OF SOLUTION	
4 Ensure a well-trained workforce through attractive Harvesting, infrastructure, logistics			Smart machinery, equipment	
skills development and education				
KEYWORDS	DIGITAL SOLUTION		INNOVATION	
Exploitation	No		Yes	
mechanisation				
penibility				
COUNTRY OF ORIGIN	SCALE OF APPLICATION		START AND END YEAR	
France	National		2017 - 2020	
CONTACT DATA				
OWNER OR AUTHOR		REPORTER		
FCBA				
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https://www.fcba.fr/travaux/technologies-de-l	information-et-de-la-			
communication-pour-lexploitation/				
REFERENCES AND RESOURCES				
MAIN WEBSITE		RESOURCES		
https://www.fcba.fr/travaux/extrafor-exosque	ettes-pour-le-travail-en-foret/			
PROJECT WEBSITE				
PROJECT REFERENCE				



PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood 4.0

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY





