HCT Iorries (High Capacity Transport)



Heavy-duty vehicles can increase the efficiency of timber transport and reduce emissions to the environment.

Transportation costs are the most costly part of wood mobilization especially in sparsely populated areas with long distances. The distance between forest and factory can be over 500 kilometers. To reduce costs of long-distance transportation of wood, bigger lorries were innovated and are now tested in Finland in a research project. The environmental effects and traffic safety are also explored.

Full utilization of HCT vehicles requires maintenance of road networks including forest roads, main roads, and bridges.

The 33-metric vehicle combination is able to carry even 70 tons of wood. The vehicle consumes less fuel than the smaller one and therefore contributes to reducing the environmental effects of transportation. The vehicles will also contribute to traffic safety since fewer vehicles will be needed to wood transportation in the future.

The research project is participated by experienced research institutes: Aalto University, Oulu University, Metsäteho, and Tampere Technical University. In the research project, the impacts on the road as well as the features of the lorries are investigated: braking distances, passing capacity, oscillations of the vehicle, and curve driving. The consumption of fuel, emissions, and durability of tires are also focused on.

Cost efficiency is gained in long-distance transportation of wood. The HCT vehicles reduce transportation costs and carbon emissions.

The first combination to transport wood started shipping with a pilot permit in December 2020.

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DETALJI

PODRIJETLO DRVA POTENCIJAL ZA POVEĆANJE UPORABE DRVA

Šuma High

VRSTA DRVA

Deblo POTENCIJAL ODRŽIVOSTI - VRIJEDNOST

--

ODGOVARAJUĆA VRSTA DRVA JEDNOSTAVNOST PROVEDBE

Stemwood Easy

UTJECAJ NA OKOLIŠ I BIORAZNOLIKOST

JEDNOSTAVNOST PROVEDBE - EVALUACIJA

Reduces carbon emissions, consumes less fuel than smaller vehicles

UČINAK NA PRIHOD KLJUČNI PREDUVJETI

Positive Involvement of relevant stakeholder, incl. traffic bureau and other authorities

POTENCIJAL ISKORISTIVOSTI VRSTA DOGAđAJA NA KOJEM JE PRIKAZAN OVAJ BPI

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SREDIŠTE UČINAK NA ZAPOŠLJIVOST

Sjeverno središte Positive

GOSPODARSKI UČINAK TROŠKOVI PROVEDBE (EURO - €)

Less transportation costs, positive effect to climate change --

POTREBNA POSEBNA ZNANJA

Skills to handle bigger vehicles

VIŠE DETALJA		
IZAZOV	DOMENA	VRSTA RJEŠENJA
5. Unaprjeđenje učinkovitosti lanca opskrbe šumor	n Sječa, infrastrutura, logistika	
na gospodarstvo i okoliš		
KLJUČNE RIJEČI	DIGITALNO RJEŠENJE	INOVACIJA
	Ne	Ne
ZEMLJA PODRIJETLA	PODRUČJE PRIMJENE	POČETAK I KRAJ GODINE
Finska	Regionalno / podnacionalno	2015 - 2019
KONTAKT PODATCI		
VLASNIK ILI AUTOR	IZVJESTITELJ	
Metsähallitus		
juha.pyhajarvi@metsa.fi		
PEEEDENOEO		
REFERENCES AND RESOURCES		
GLAVNA WEB STRANICA	IZVORI	
http://www.e-julkaisu.fi/metsahallitus/autoesite/		
WEB STRANICA PROJEKTA		
REFERENCA PROJEKTA		

PROJEKT U OKVIRU KOJEG JE INFORMATIVNI LIST KREIRAN

Rosewood

DATUM UNOSA

17 ruj 2019







This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



