

## HCT lorries (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.

## DETALJER

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### OPPRINNELSE FOR TRE

Skog

### TYPE TRE

Tre fra rundtvirke

### TYPE TRE INVOLVERT

Stemwood

### PÅVIRKNING PÅ MILJØ OG BIOLOGISK MANGFOLD

Reduces carbon emissions, consumes less fuel than smaller vehicles

### INNTEKTSEFFEKT

Positive

### UTNYTTELSESPOTENSIAL

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### HUB

Northern Hub

### ØKONOMISK PÅVIRKNING

Less transportation costs, positive effect to climate change

### SPESIFIKKE KUNNSKAPSBEHOV

Skills to handle bigger vehicles

### MOBILISERINGSPOTENSIAL

High

### BÆREKRAFTPOTENSIAL - VERDI

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### ENKEL IMPLEMENTERING

Easy

### ENKEL IMPLEMENTERING - EVALUERING

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### VIKTIGE FORUTSETNINGER

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

### TYPE BEGIVENHET DER DENNE BPI HAR BLITT OMTALT

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### EFFEKT PÅ ARBEIDSPLASSER

Positive

### KOSTNADER MED IMPLEMENTERING (EURO - €)

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## MER INFORMASJON

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### UTFORDRING ADRESSERT

5. Forbedre den økonomiske og miljømessige ytelsenAvvirkning, infrastruktur, logistikk  
i skogbrukets forsynings kjede

### NØKKEWORD

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### OPPRINELSESLAND

Finland

### DOMENE

### DIGITAL LØSNING

Nei

### POTENSIALE

Regional/deler av landet

### TYPE LØSNING

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### INNOVASJON

Nei

### START OG SLUTT ÅR

2015 - 2019

## KONTAKT INFORMASJON

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### EIER ELLER FORFATTER

Metsähallitus

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### RAPPORTØR

## REFERENCES AND RESOURCES

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### HJEMMESIDE (HOVEDSIDE)

<http://www.e-julkaisu.fi/metsahallitus/autoesite/>

### PROSJEKTETS HJEMMESIDE

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### REFERANSE TIL PROSJEKT

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### RESSURSER

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PROSJEKT SOM DETTE FAKTAARKET ER OPPRETTET UNDER

Rosewood

INNLEGGSDATO

17 sep 2019

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

