

What is happening within HCT in Finland?

Nordic HCT Conference 2023

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Vesa Männistö



Finnish Transport
Infrastructure Agency



76 t trucks since 2013

60 t trucks since 1997

56 t trucks since 1990

48 t trucks since 1982



50 000 000 t
annually

Average load 50 t

Average transport
distance 100 km



Winter is the high
season for timber
transport



1500 Timber trucks

Transport sector is adopting 76 t and 34,5 m fast

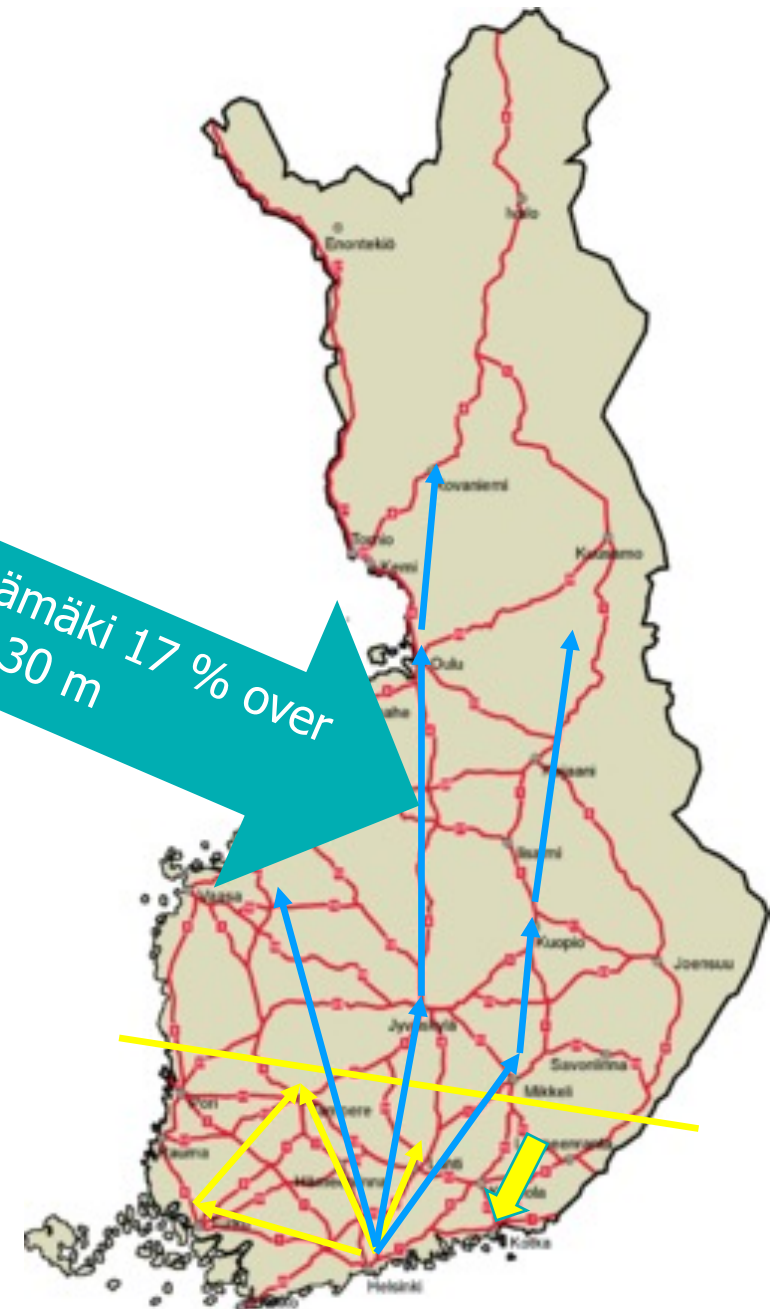
Domestic traffic share in weight categories



EMS2 is specially important for sparsely populated east and north Finland

- 50 automated measuring points at main roads
- Accurate truck traffic data every day
- EMS2 trucks are popular on domestic long haulage

2021	16,5 m	22 m	25,25 m	28 m	Over 30m
South	42,9 %	19,5 %	28,0 %	5,8 %	3,9 %
Other	25,5 %	22,6 %	37,0 %	7,7 %	7,2 %



EMS and EMS2 trucks have huge impact on truck traffic and emissions

- This calculation combines traffic volumes and the differences between weight classes
- Traffic volume would be 67 % higher with 16,5 m 40 t trucks
 - 778 mill. vehicle km's is a lot of truck traffic
 - It would need 10 000 drivers
- Emissions would be over 20 % higher without EMS and EMS2 trucks
 - Benefit from EMS2 is bigger with light goods

2021 traffic volumes

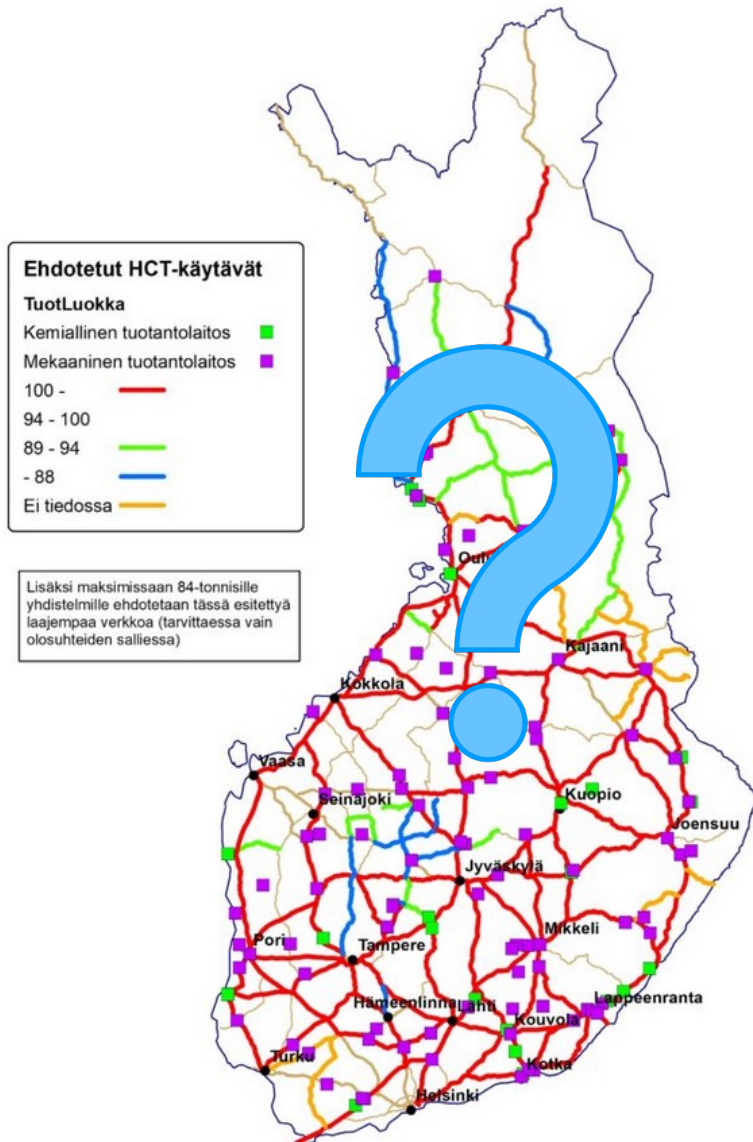
Mass	Traffic volume milj km	Savings milj km	CO2 %
35 001 - 42 000kg	81		
42 001 - 48 000kg	97	19,4	-10
48 001 - 54 000kg	83	20,75	-12
54 001 - 60 000kg	146	73	-15
60 001 - 64 000kg	130	91	-17
64 001 - 68 000kg	242	193,6	-20
Yli 68 000kg	381	381	-25
yht	1160	778,75	-17,9

HCT Trials

- Finnish Transport and Communications Agency has granted permits for HCT trials since 2013
- The goal of trials was to develop technology of bigger vehicles and/or vehicle combinations and their suitability to Finnish transport system
- The trials have fulfilled their function and only few are ongoing
 - Benefits of short-term pilots are modest, pilot combinations might become useless, practical operation sometimes difficult
 - Industries want to have “more permanent permits”, without any development issues



Future development



- New government programme 2024-2027:
 - “We will investigate the development of the road network to support the implementation of larger transports than at present”
 - “Clearing of the worst bottlenecks”
- New long-term transport plan under preparation

Unloading to hardware store
165 km north from arctic circle

**Thank you for your
interest**

My contact information

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Picture 16.1.2023 15:17
By Otto Lahti

