

High Capacity Transport in Finland

What 34,5 m and 76 t means for energy efficiency?

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25,25 m 60 t old standard since 1997 - reference level in Finland







Measuring energy efficiency

- Liter /100 km
- I/100 km /tonne payload
- I/100 km /cubic meter payload
- ► I/100 km /trolley or pallet
- I/100 km /tonne in one way transport
 - Timber transport is good example

- ▶g CO²/tkm or m³km
 - Probably too theoretical unit to understand

At the end, system level efficiency matters

76 t trucks since 2013

More efficient timber transportation was a key reason in the background









EMS2 trials 11/2013 ->

Suomen DuoTrailerhankkeen tutkimus- ja kehityssuunnitelma 18.1.2013 2013-2018 14 milj. km

36 trucks in the end

The first high speed test 7/2013





Several major and many local transport companies took part to trials

The first application And the firs permit

MCOITART



Comparing different prototypes and driving lines in real traffic



76 t Finnish A-double

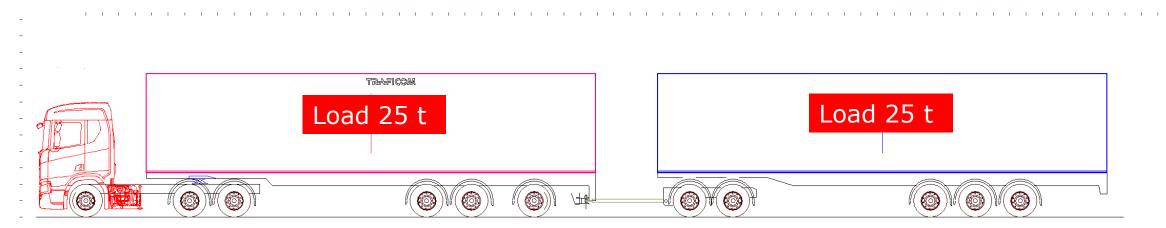
Road friendly solution for heavy loads

Compared to 2x standard semitrailers one axle more and 4 t less weight

14 % less weight /axle The important number is road load compared to payload



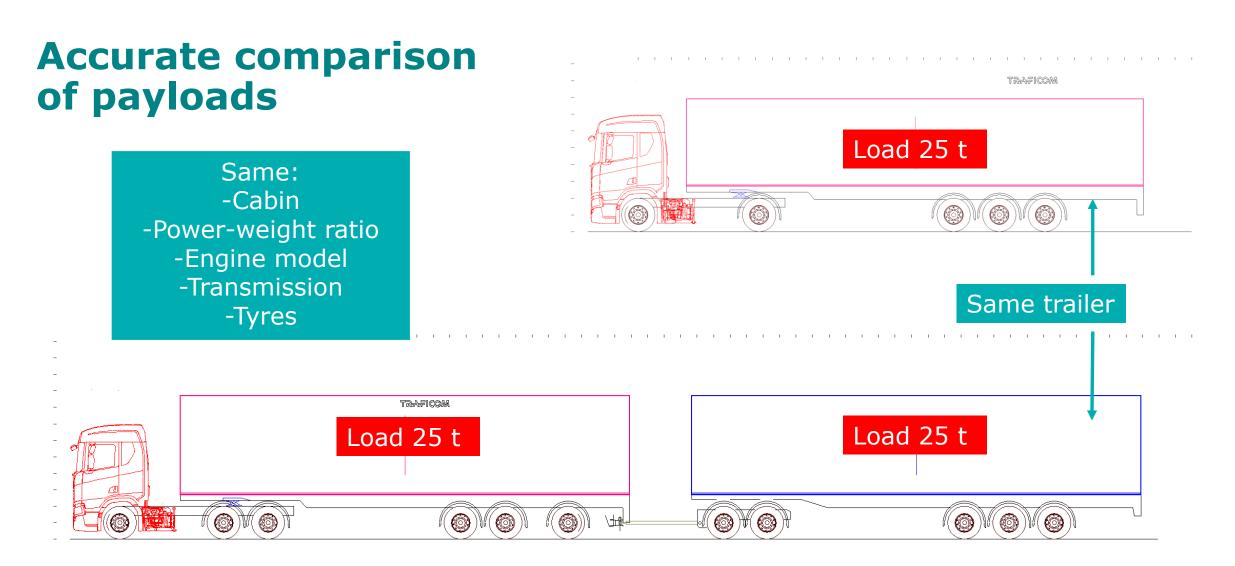
Truck 8 t + trailer 7 t Standard 40 t truck



Truck 9 t + trailer 7,5 t + dolly 2,5 t + trailer 7 t Standard Finnish 76 t A-double



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Right length to every use





19 m box 22 m truck

TR-X-FICOM

Tailor made truck and full trailer combinations to local needs

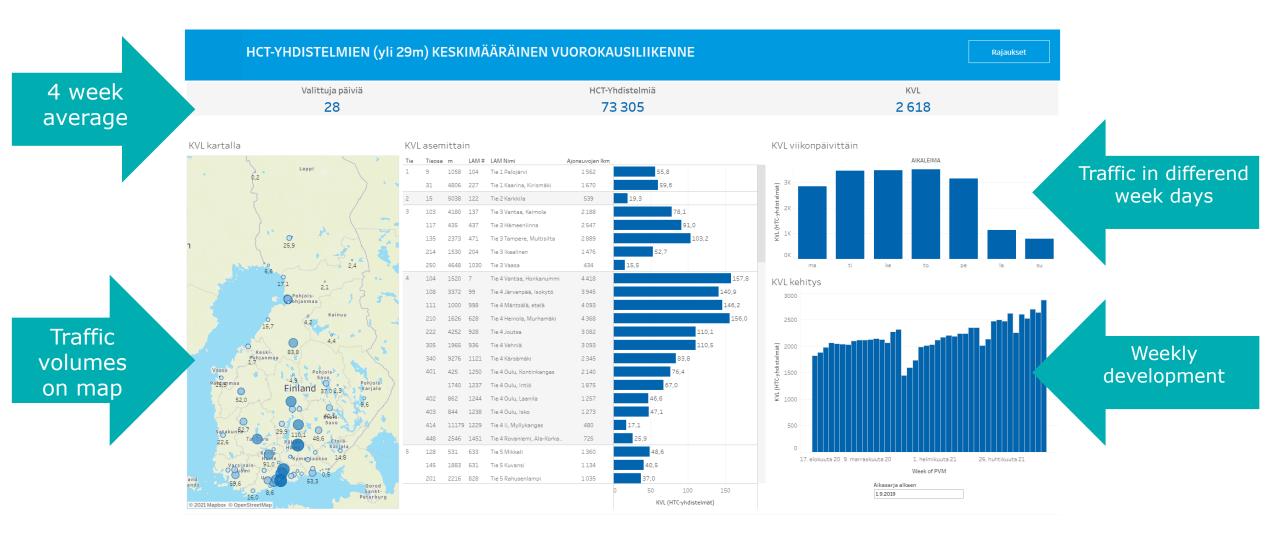




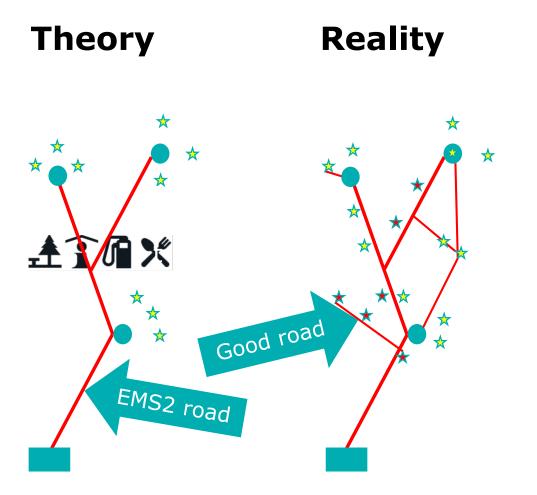




EMS2 traffic in Finland We don't measure the number of trucks We measure traffic



Strict PBS rules for trucks and big network or Limited stiff network but simply rules for trucks?



Easier then you think





Light goods, long distances, tight schedules, flexible service

CO2 reduction is still possible

- High Capacity Truck, EMS2
- Efficient loading
- Latest engine technology





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Thank you for your interest and attention

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