

The logistic potential of large chip trucks and chipper truck in a combined system

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The concept



- Standard GWW: 64 ton
- Test vehicles: 74 ton
- Chipper-truck is a common system but usually as independent truck

Roughly...

- Chipper truck 74 ton: 500 000 Euro
- 64 ton chip-truck: 300 000 Euro
- 74 ton chip-truck: 400 000 Euro

Objectives

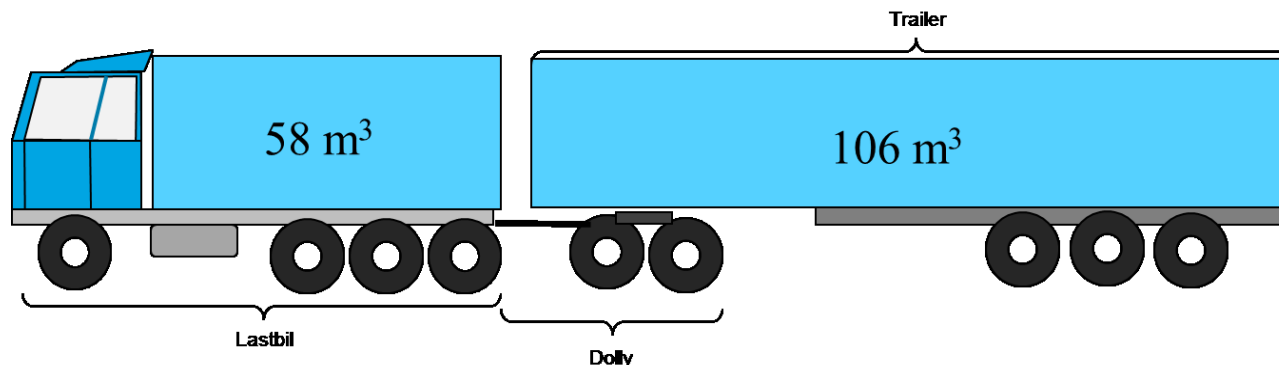
- To study and evaluate the system in terms of performance and profitability.
- To find bottlenecks and factors for improvement.
- To evaluate different vehicle-types in cooperation.



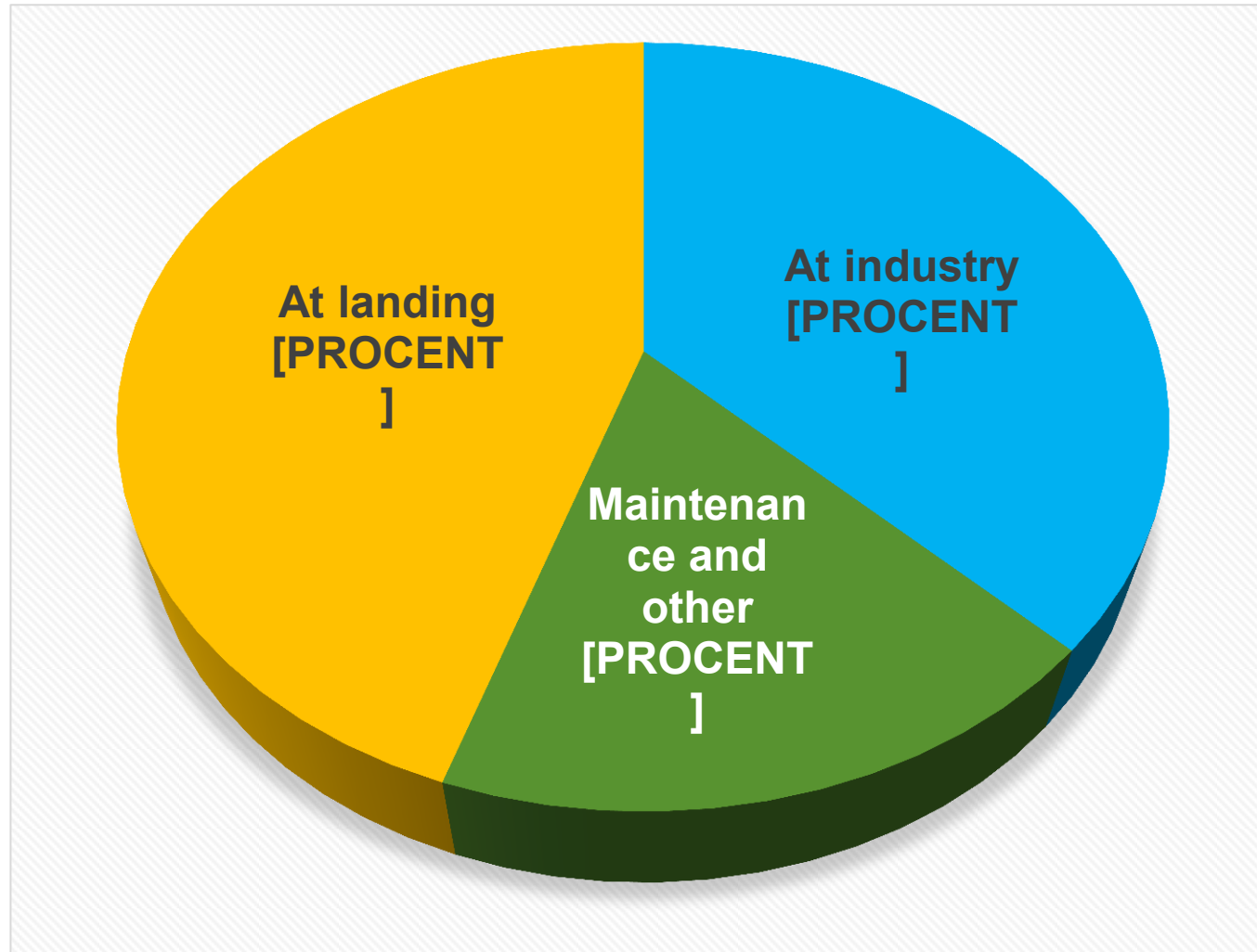
Photo: Kristoffer Spånberg

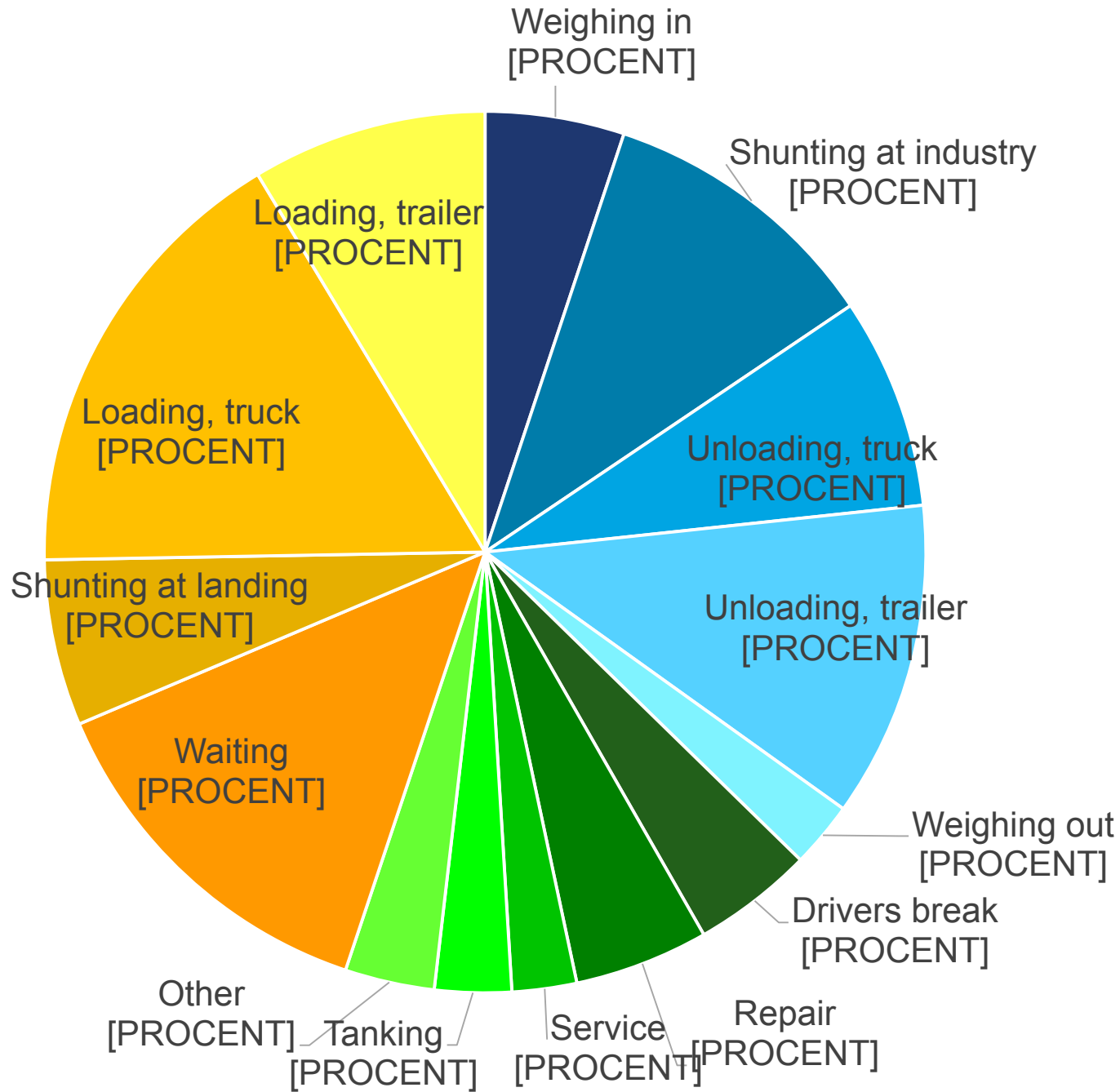
Vehicles in the analyze

1. Chipper-truck, trailer with walking floor, 74 ton GWW
2. Chip truck, walking floor, 74 ton, extra trailer (Walking74 2T)
3. Chip truck, tilting, 60 ton GWW (Tilting60)
4. *Chip truck, tilting, 74 ton GWW (Tilting74)*
5. *Chip truck, walking floor, 74 ton GWW (Walking 74 1T)*

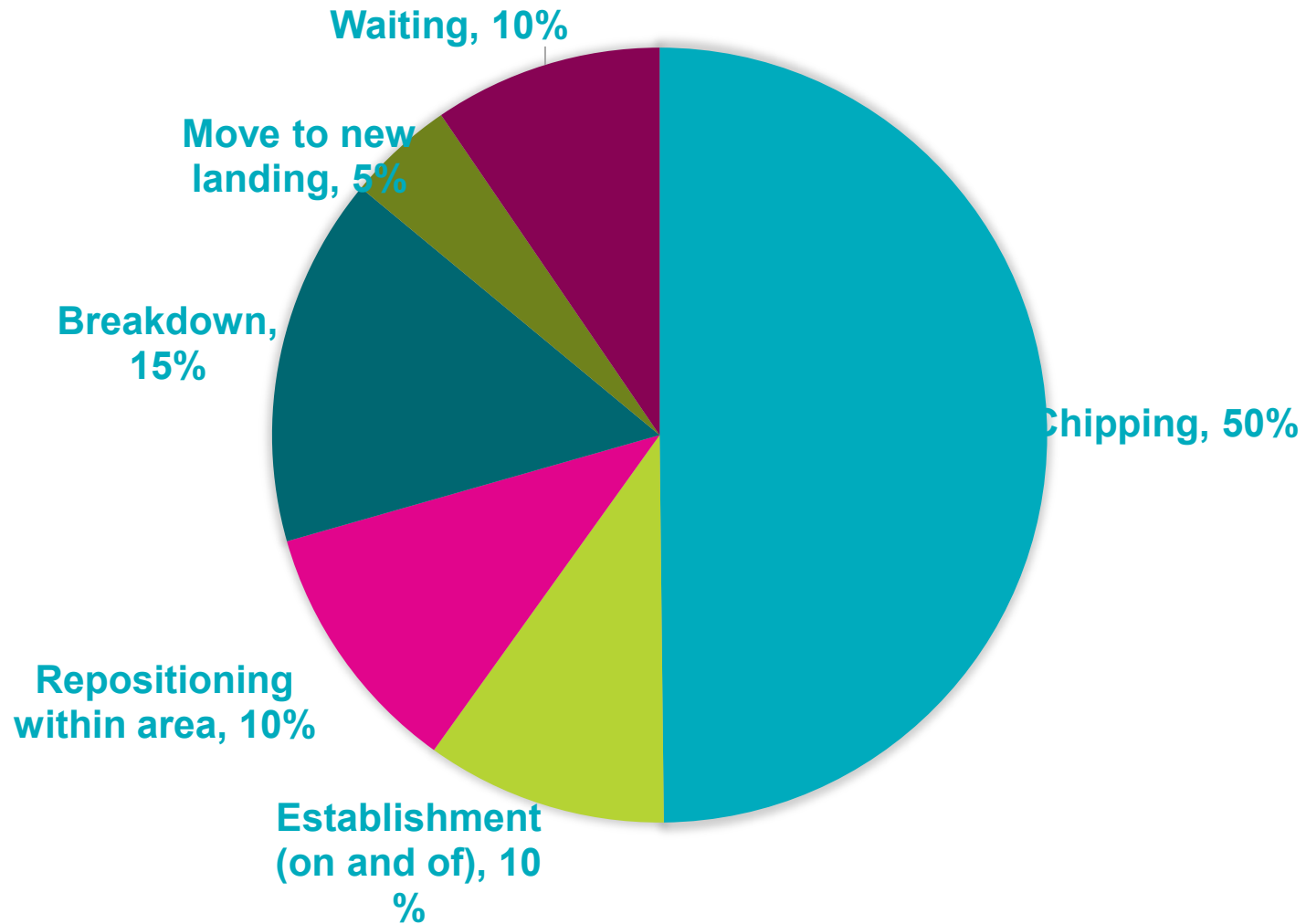


Timeshares for Walking74 2T

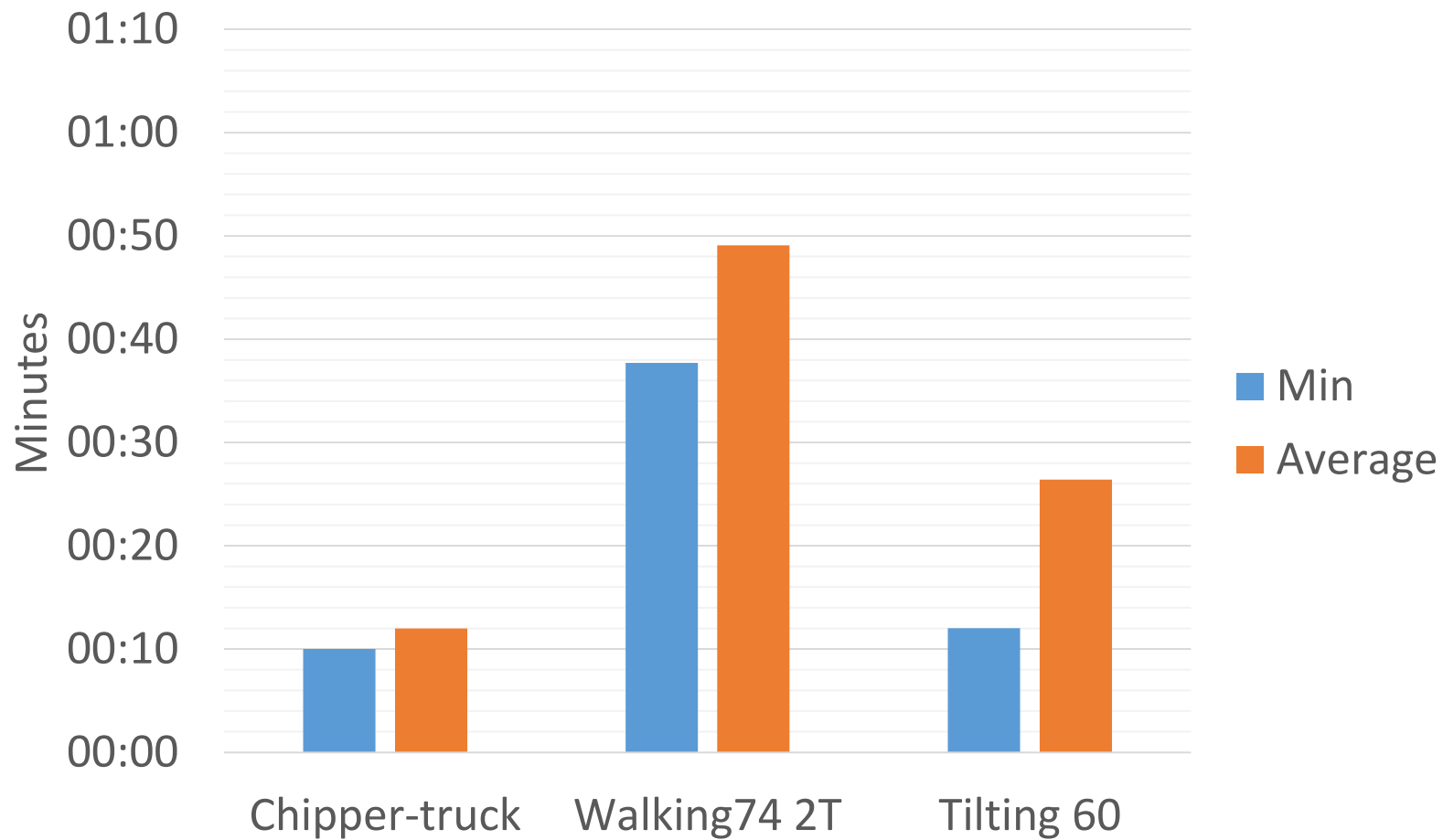




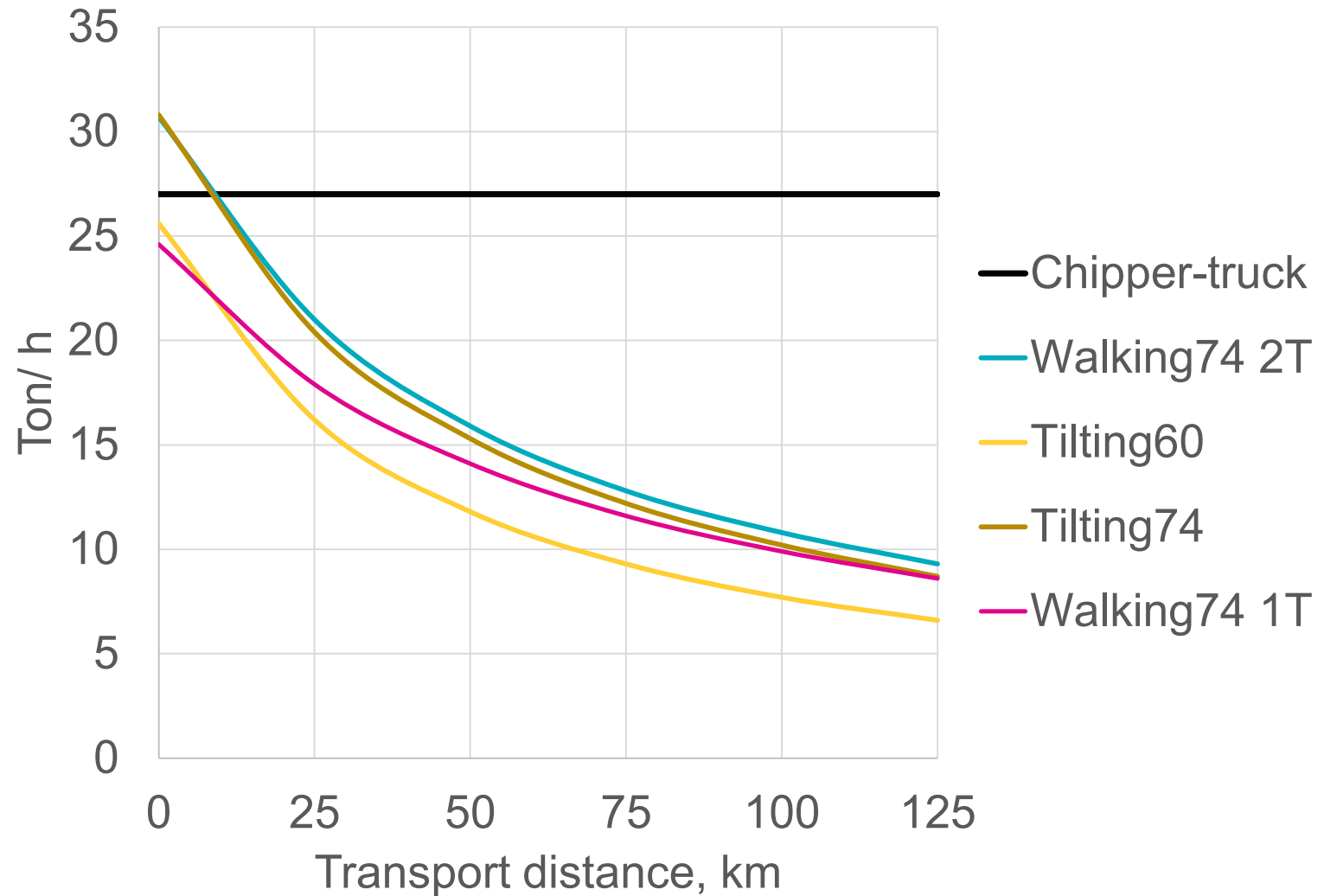
Timeshares for Chipper-truck



Total time at industry



Performance



Conclutions

- The gain of high capacity increases with distance.
- Terminal times critical on short distances.
- Much to gain with a tilting truck – but what about the trailer...
- Simulation studies are needed