

Long haul operations in norwegian winter driving conditions

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NLF er den
største nærings-
og arbeidsgiver-
organisasjonen for
norsk landtransport
av gods

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SENTRALER



20 000

LASTEBILER



23 000

SYSSELSATTE



30 MRD. KR

I OMSETNING



Challenges for drivers on winter roads in Norway

- Climate
- Topography
- Road Maintenance
- Tyres
- Equipment
- Competence and experience
- Truck/trailer configurations



Climate

- Temperature variations
- Fast weather change
- Freezing rain
- Intense rain/snowfall



....on the same journey!

Topography

- Different
- Challenging
- Local knowledge
- Network



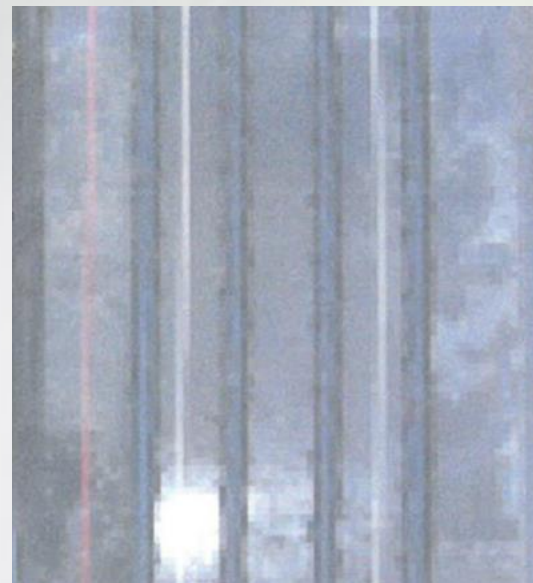
Road maintenance

- Complex contracts
- Strictly managed
- Limited innovation
- Quality vs. low cost



Tyres

- UNECE-regulations
- Ref. ongoing hearing
- 3PMSF on trucks
- M+S on trailers (...so far)
- M + S *Winter?*
- A lot of compromises



Referansedekk M + S



3PMSF

Equipment

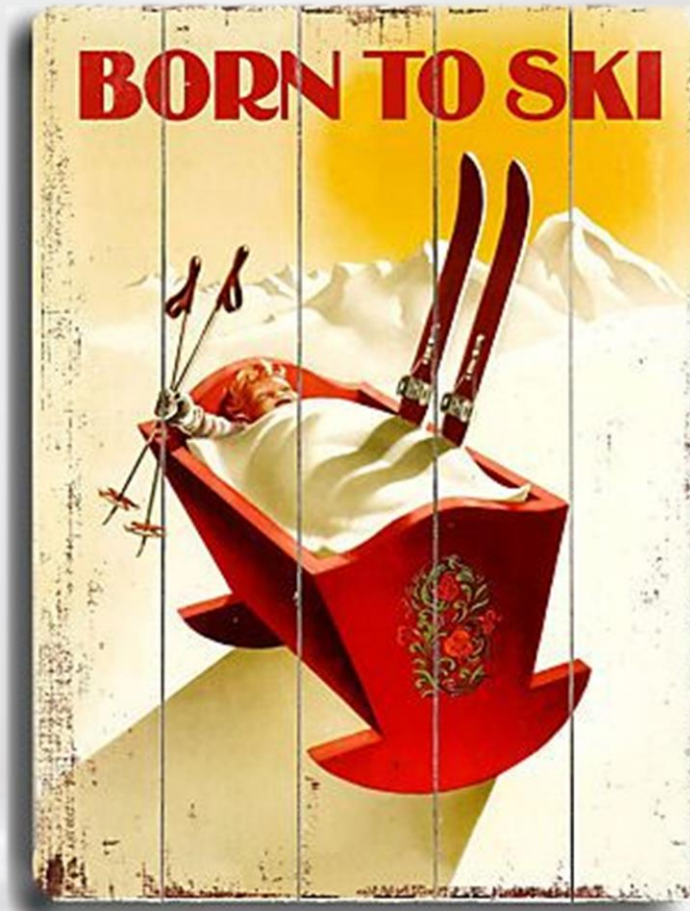
- Snow-chains
- On-Spot
- Sand spreaders
- Misc.



Competence and experience

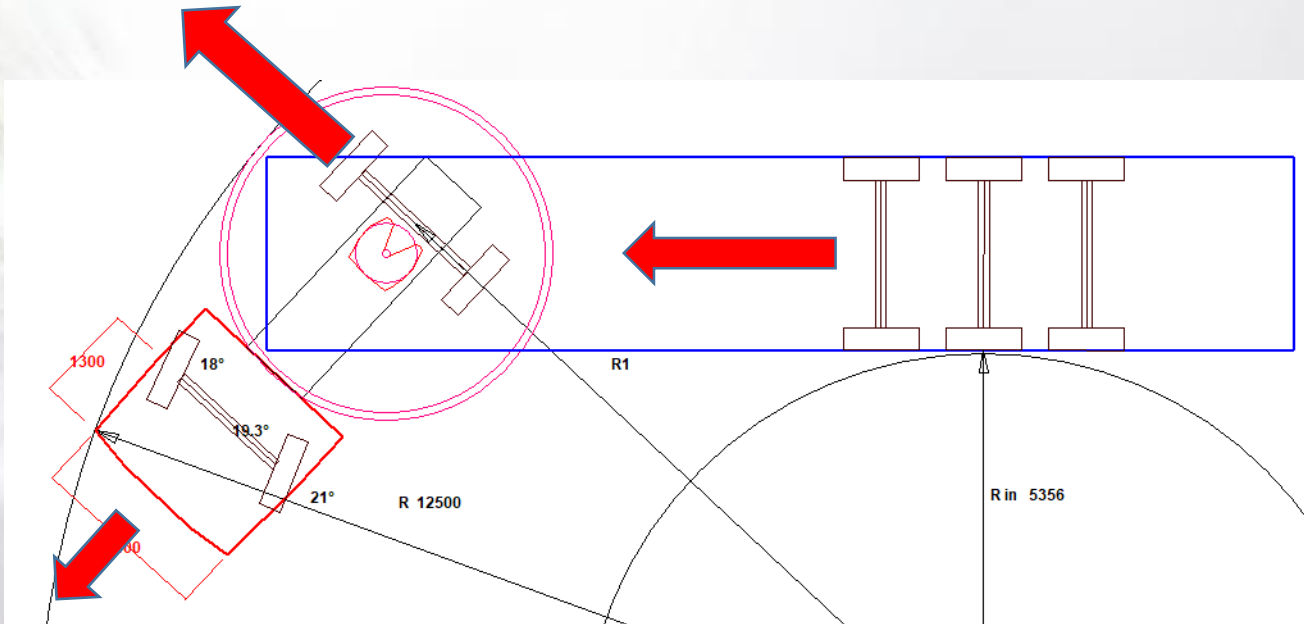
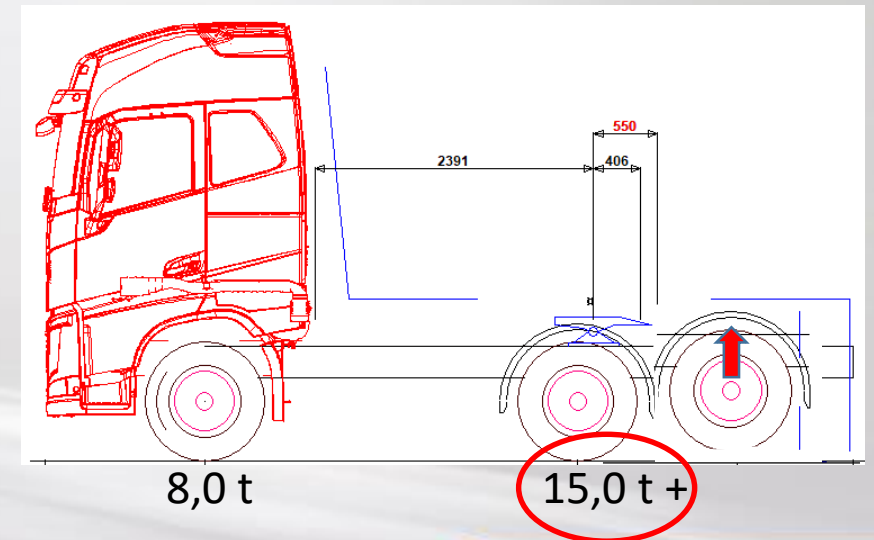
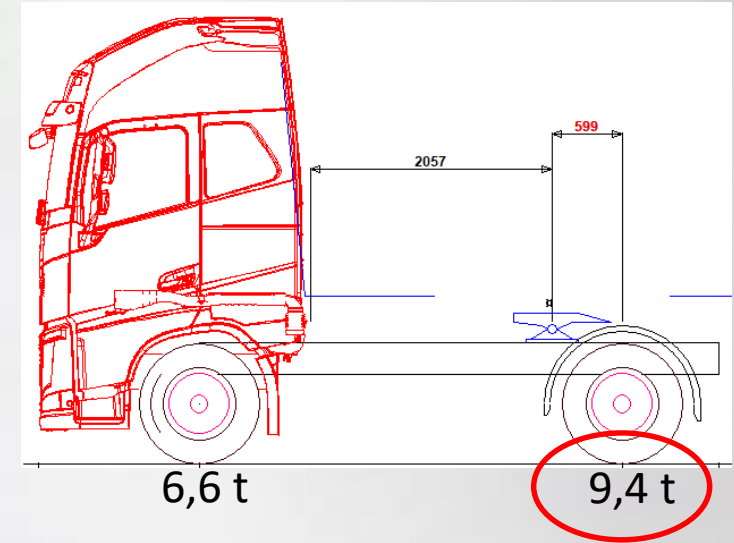
Driving on winter roads

- EU-directive 2003/59/EF update
- Mandatory training in Norway
- Training of foreign drivers?
- Experience



Truck and trailer configurations

- 2-axled vs 3-axled tractor.
- Euro-Trailers



Q: What can we do?

- Improve road safety
- Safer vehicles
- Secure competence
- ...for all drivers!



We don't want this !!

Thank You for Your attention!

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