

FOT Execution

Challenges in FOTs from the Perspective of Commercial Vehicle Operations

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FOT

Bringing intelligent vehicles to the road

Commercial Vehicle Operations



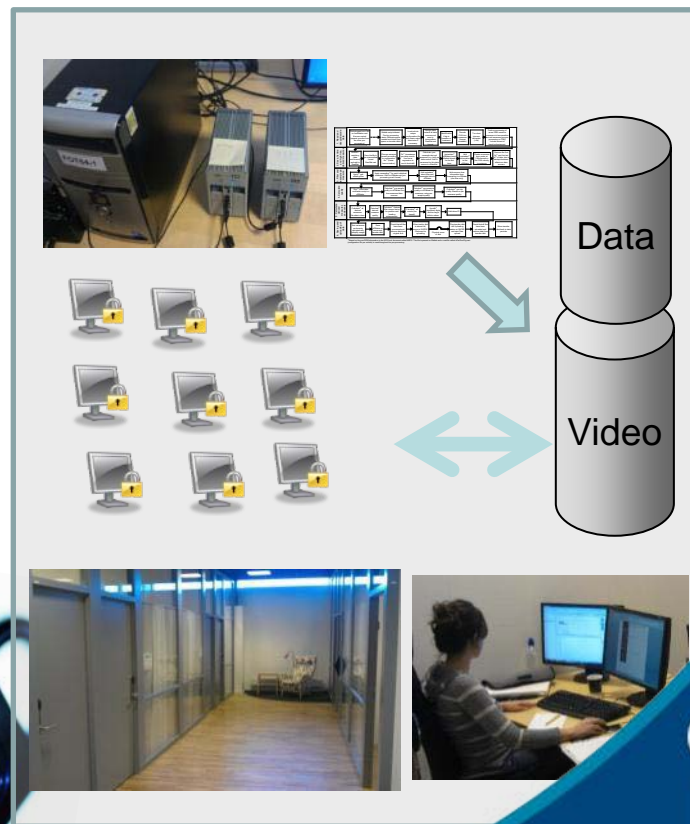
Commercial Vehicle Operations



FOT Challenges

- ⌘ Surveillance of working and living place
- ⌘ Subjective Data Collection
- ⌘ Vehicle standstill times for system installation and maintenance
- ⌘ Installation complexity (limited space)
- ⌘ Rough operational environment for equipment

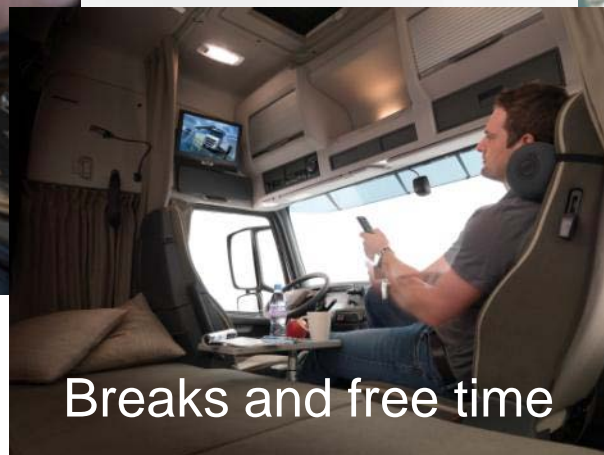
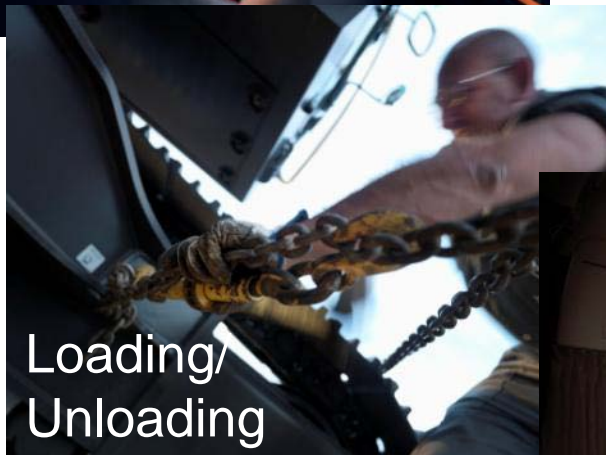
Surveillance of working and living space requires data protection



W E B



Subjective Data Collection



Uptime

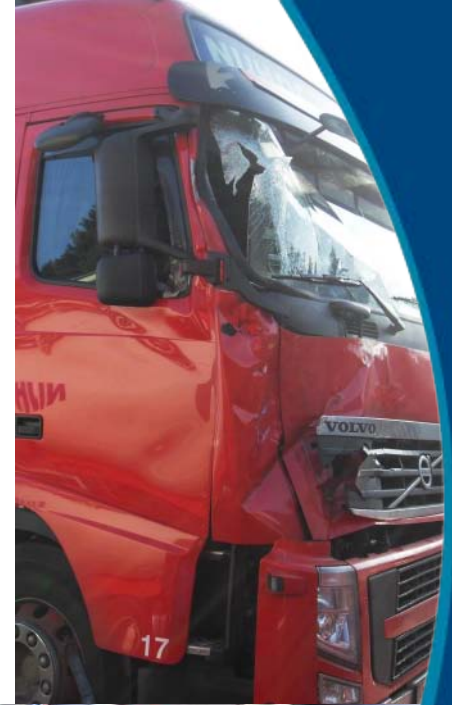
- ⌘ Vehicle operations 5 to 6 days/ week
- ⌘ About 3000 km/ week
- ⌘ Vehicle Maintenance every 3 months
- ⌘ Installation during non-productive vehicle time
 - ▷ Weekends/ nights

Installation complexity

- ⌘ Big vehicles vs limited free space
- ⌘ Weight of equipment
- ⌘ Avoid project related downtime at (almost) any costs
- ⌘ Complex logging system vs limited installation time per chassis
- ⌘ Unforeseen obstacles



Rough conditions of operation



- ⌘ Shock, vibration
- ⌘ Duration of operations (per day/ per week/ etc.)
- ⌘ Temperature
- ⌘ Crash survival?
- ⌘ Total operation
 - ▷ 45 vehicle years
 - ▷ 11 Mio km



Conclusions

- ⌘ Big vehicles vs limited free space
- ⌘ Weight of equipment
- ⌘ Avoid project related downtime at (almost) any costs
- ⌘ FOT operations in CVO are complex
 - ▷ Impact of customers business
 - ▷ Liaison with vehicle operator/ owner AND driver
 - ▷ Rough operational environment
- ⌘ FOT operations in CVO are efficient
 - ▷ Very high mileage per installation
 - ▷ All thinkable operational conditions and variations
- ⌘ Very rich dataset!

8 Functionalities, 28 Partners, 1000 Vehicles

1 Field Operational Test, 8 Functionalities

28 Partners, 1000 Vehicles, 1 Field Operational Test

8 Functionalities, 28 Partners, 1000 Vehicles

1 Field Operational Test, 8 Functionalities

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8 Functionalities, 28 Partners, 1000 Vehicles

1 Field Operational Test

