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## Road infrastructure safety in Denmark the Sund & Bælt network

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## Sund & Bælt's motorways









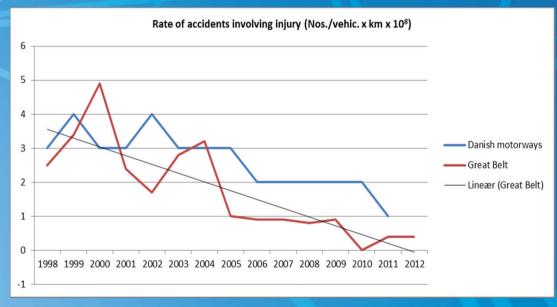
### Key objectives for critical road infrastructure:

#### Availability at the Storebælt link in average:

- Total closure: 10 hours/year (0,5 hours due to accidents)
- Closure in one direction: 5 hours/year

Accessibility as high as possible – maintenance work at low traffic intensity (<1000 vehicles/hour)

Traffic safety:



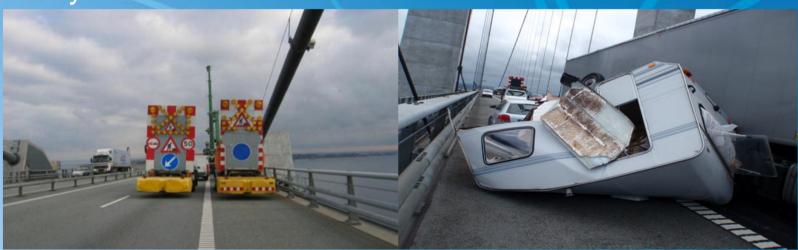






### Basis for high traffic safety

- Monitoring of weather, traffic and road conditions
- Warning of drivers on these topics in time, sufficient information and when needed (during planning of trip and before and during passage)
- Maintaining excellent road conditions and efficient safety measures









## **Monitoring**

Monitoring at the Storebælt link takes place from a control room and is assisted by the road patrol

- Traffic
- Strong wind
- Possible glazed frost
- Ice or snow on structures
- Fog
- Maintenance activities
- Queue at toll station
- Accidents
- Risk for ship collission









## Warning

#### Purpose of warning:

- Prevent accidents
- Assist the drivers in time (in planning and during passage)

#### Different means to be used:

- Traffic radio
- Internet
- SMS
- Local radio
- Variable message signs









# Maintaining road conditions and safety measures

- Systematic removal of black or grey spots at the infrastructure based on facts (incident and accident statistics)
- Fast removal of lost items, stopped vehicles and snow etc.
- Prevention of ice on road based on data from sensors on critical spots
- Protection of drivers and workers using efficient safety measures and necessary traffic regulations









## Every accident is one too much As operator you can still make a difference



Thank you for your attention





