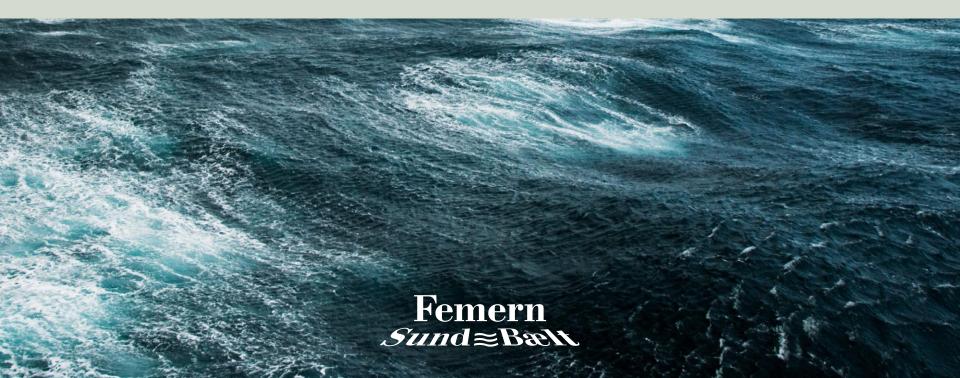
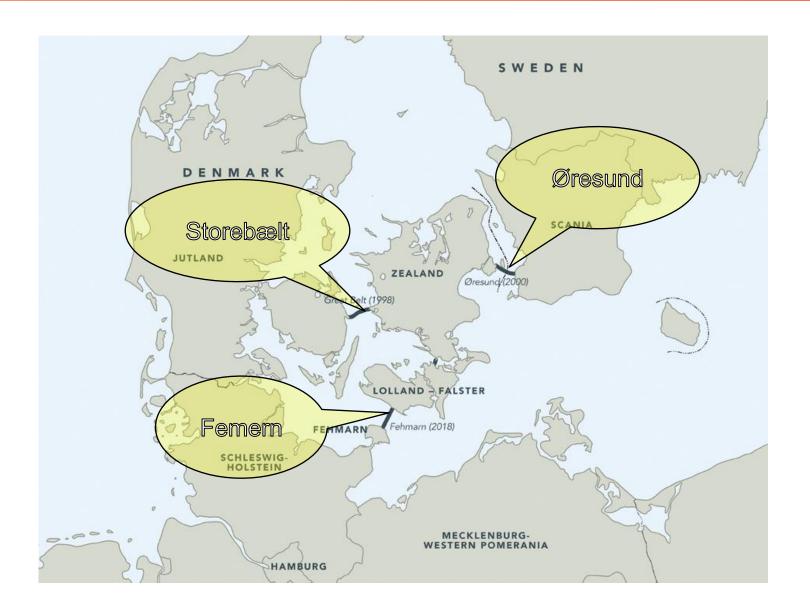
**Steen Lykke, Project Director, Tunnel** 

## SensoByg 10 November 2010 Store Konstruktioner

**SLY** 12 November 2010



## **The History – Big Infrastructure Projects**





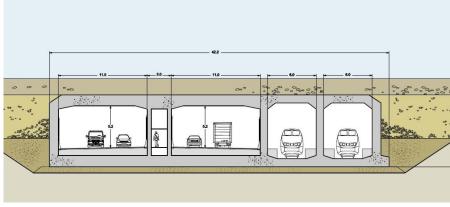






## **Facts and Figures**





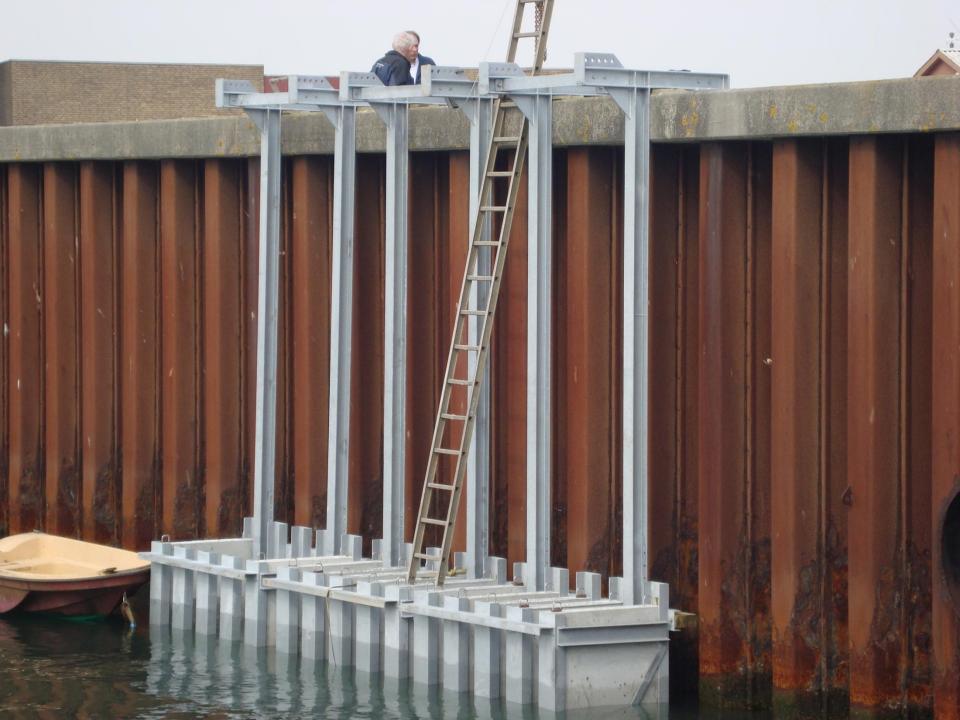
➤ Concrete: ~700.000 m3

➤ Reinforcement: ~150.000 tons

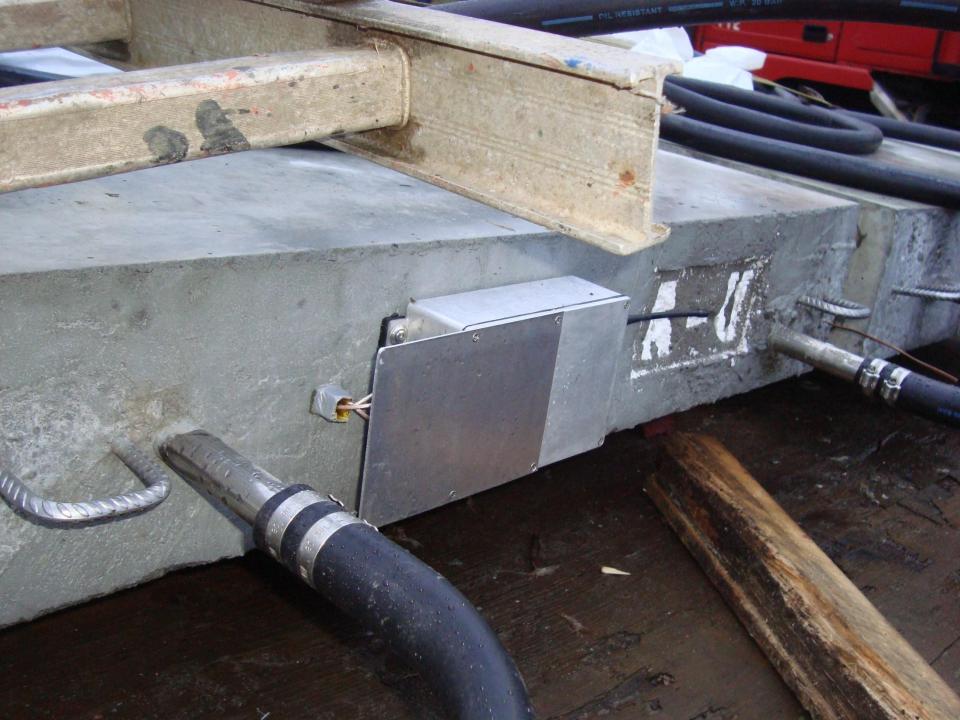
>Concrete: ~3.000.000 m3

➤ Reinforcement: ~300.000 tons











#### What we believe in?

- Help to Contractors get the quality right
- Help to Contractors wireless temperature measument
- Help to Owners and Contractors get the construction joints right
- Monitoring of short / medium term conditions



#### What we do not believe in!

- Long term monitoring over "lifetimes"
- "An extra" owner's remote control of Contractor's Works



## What has to be Improved?

- Communication Range
- Battery Lifetime
- Robustness of devices
- Positioning Systems?



# Thanks for your Attention

12 November 2010

