



# CO2STORE

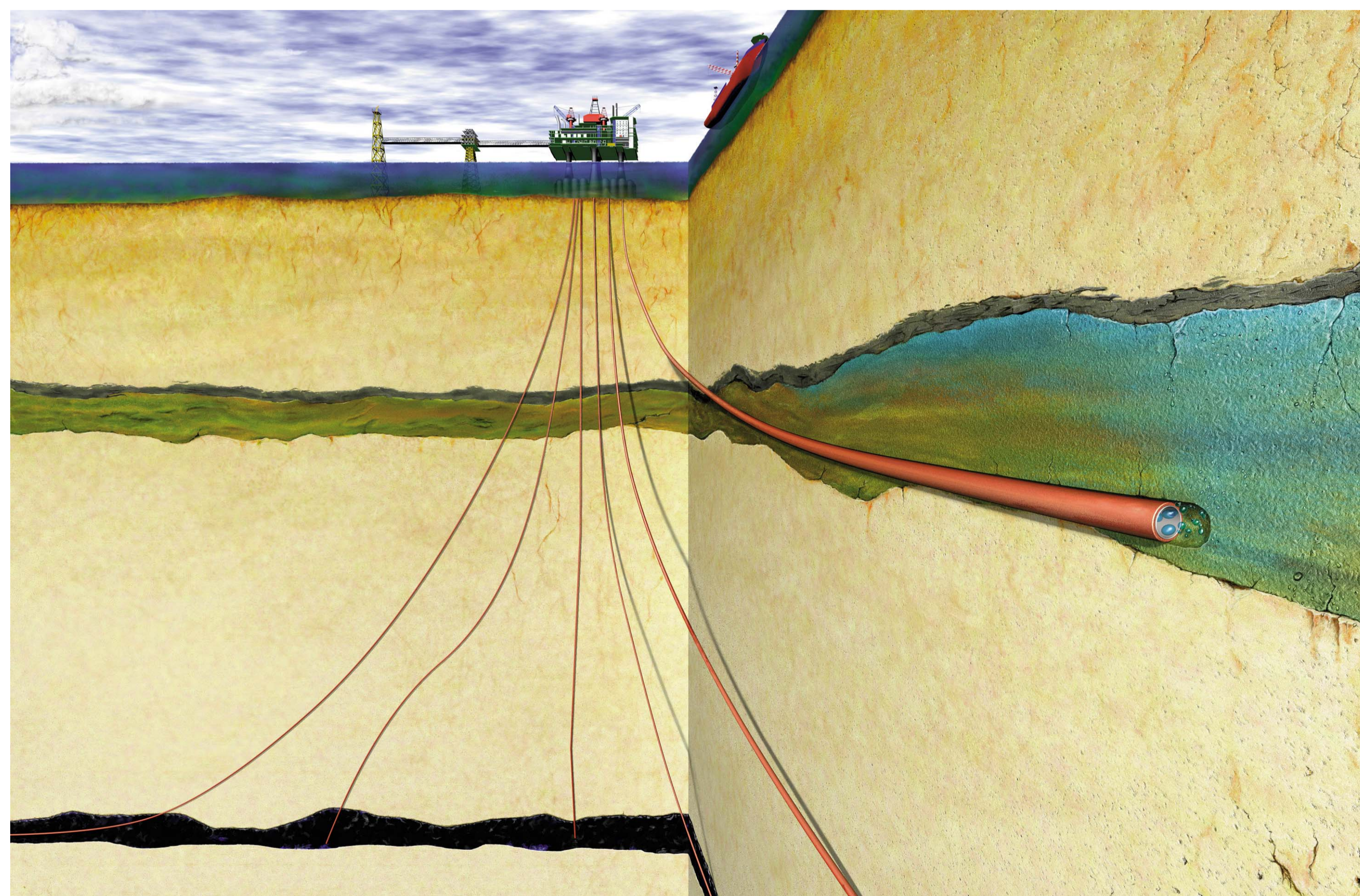


## CO2STORE Main results

- The suitability of all four sites for storage of CO<sub>2</sub> has been clarified and outline risk assessments were performed for the sites
- All cases confirm the experiences from Sleipner, that the main happening mechanisms are pore trapping and dissolution of CO<sub>2</sub> in the water. As a consequence the CO<sub>2</sub> will be gradually more and more stable and safely stored
- At the time of acquisition of new seismic at Sleipner in September 2006, 8.4 million tonnes of CO<sub>2</sub> had been injected. No indication of leakage into the reservoir seal has been observed
- As a synthesis of what has been learnt regarding how to perform CO<sub>2</sub> storage in a saline aquifer, the Best Practice Manual has been developed and published



The Sleipner field – CO<sub>2</sub> Treatment and Injection. CO2STORE is a follow up and extension of the SACS Project (1998 – 2002)



CO<sub>2</sub> Injection Well in "Utsira"

## Taking the Sleipner/SACS case further – main objectives of CO2STORE

- Drawing on knowledge gained through SACS, GESTCO and NASCENT to study potential for CO<sub>2</sub> storage in identified saline aquifer structures four places in Europe
- Transfer of technology from SACS to potential demonstrations
- Improve modelling of long term behaviour of CO<sub>2</sub> through continued studies at Sleipner
- Refine monitoring techniques for CO<sub>2</sub> behaviour
- Focus on CO<sub>2</sub> storage safety and build public acceptance for onshore and offshore storage

<http://www.co2store.org>

## SACS Project 1998-2002

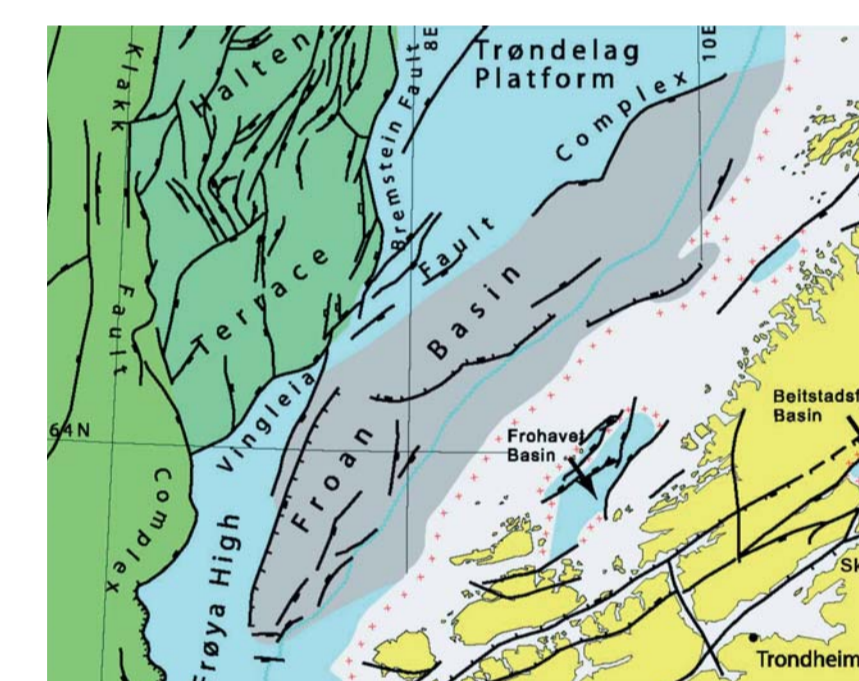
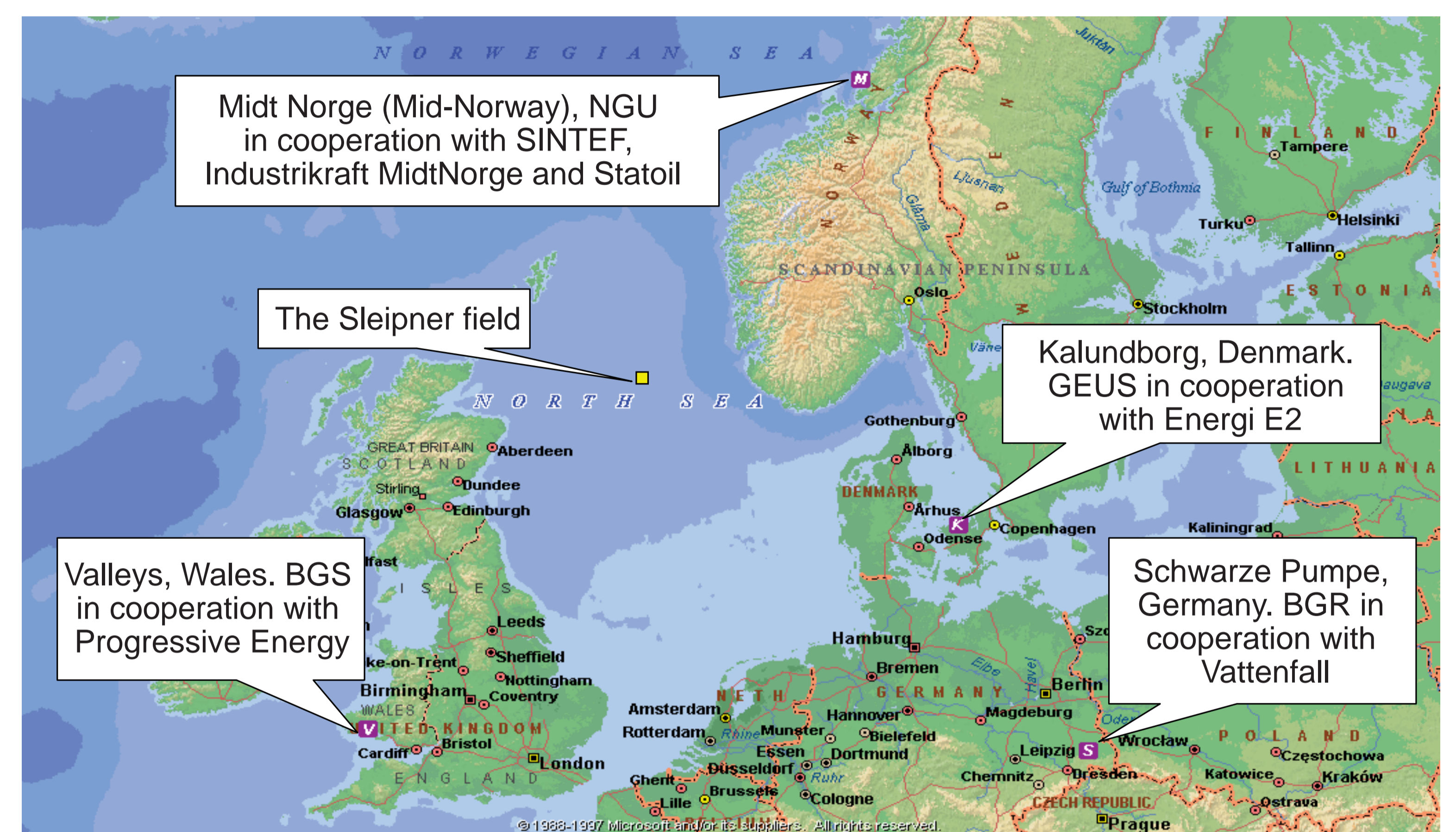
### What we did achieve:

- 3D Seismic proven, Gravimetry tested
- Reservoir simulation tools partly proven
- Geology and Geochemistry of "Utsira" mapped
- Reason to expect the CO<sub>2</sub> stay for thousands of years

### What's next ?

- "CO2STORE" 2003 – 2005:
- Continued study of CO<sub>2</sub> storage in "Utsira"
- 4 Field Cases in DK, DE, UK and NO

## CO2STORE – the case studies



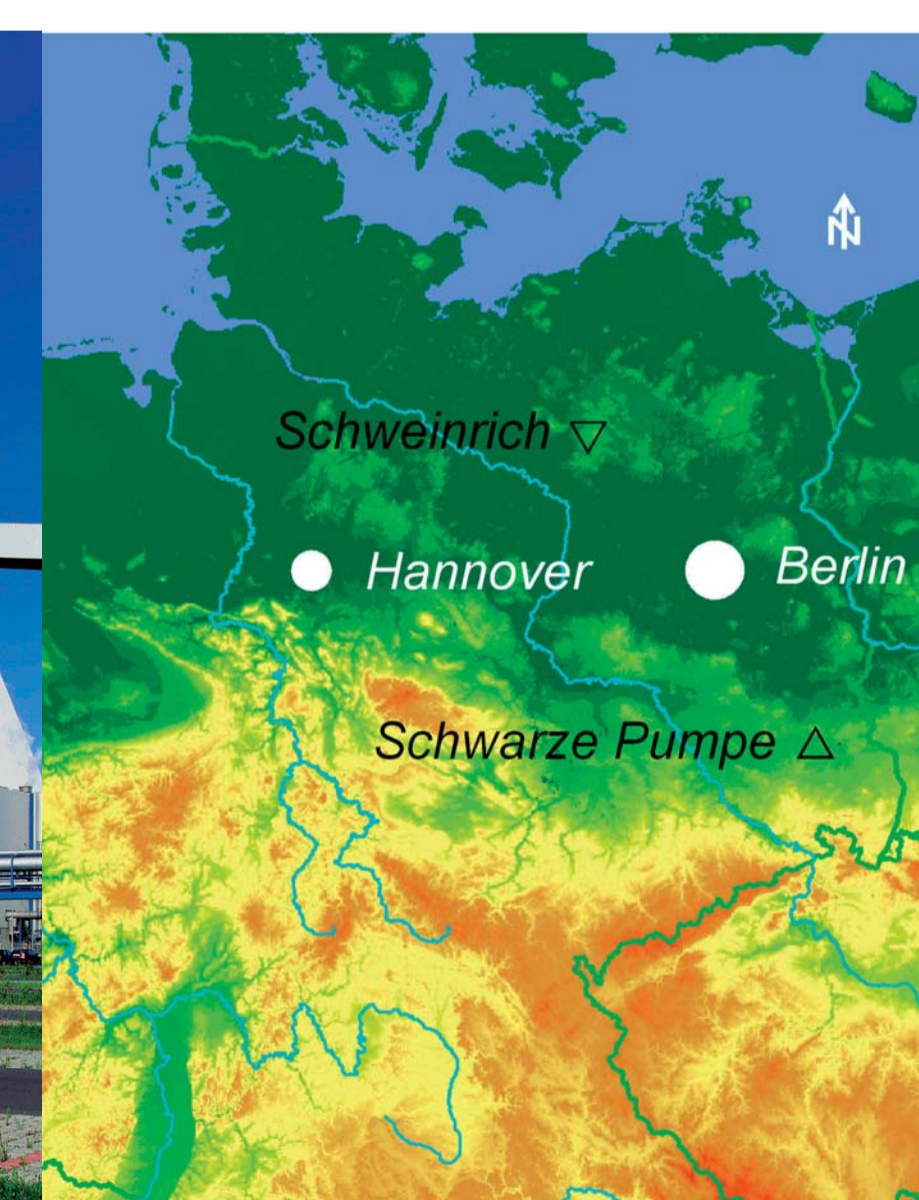
Mid Norway Case Study: Possible Storage site



The Valley case study: CO<sub>2</sub> capture and storage from an IGCC power plant



The Kalundborg Case Study



Schwarze Pumpe Case study

## CO2STORE participants

Statoil (coordinator)	BGR
BP Exploration	BGS
Energi E2	BRGM
ExxonMobil	GEUS
Hydro	IFP
Industrikraft MidtNorge	NGU
Progressive Energy	NITG-TNO
Schlumberger Research	SINTEF
Total	
Vattenfall	

IEA Greenhouse Gas R&D Programme  
European Commission

