



CO₂SINK – CO₂ Storage by Injection into the Natural Reservoir Ketzin

The first European Showcase for Onshore CO₂ Storage

Project Coordinator: Günter Borm, GeoForschungsZentrum Potsdam
E-mail: gborm@gfz-potsdam.de
<http://www.CO2SINK.org>

Project Costs: Projected total cost: € 14 million
EC contribution: € 8.7 million

Additional Sponsors: project partners

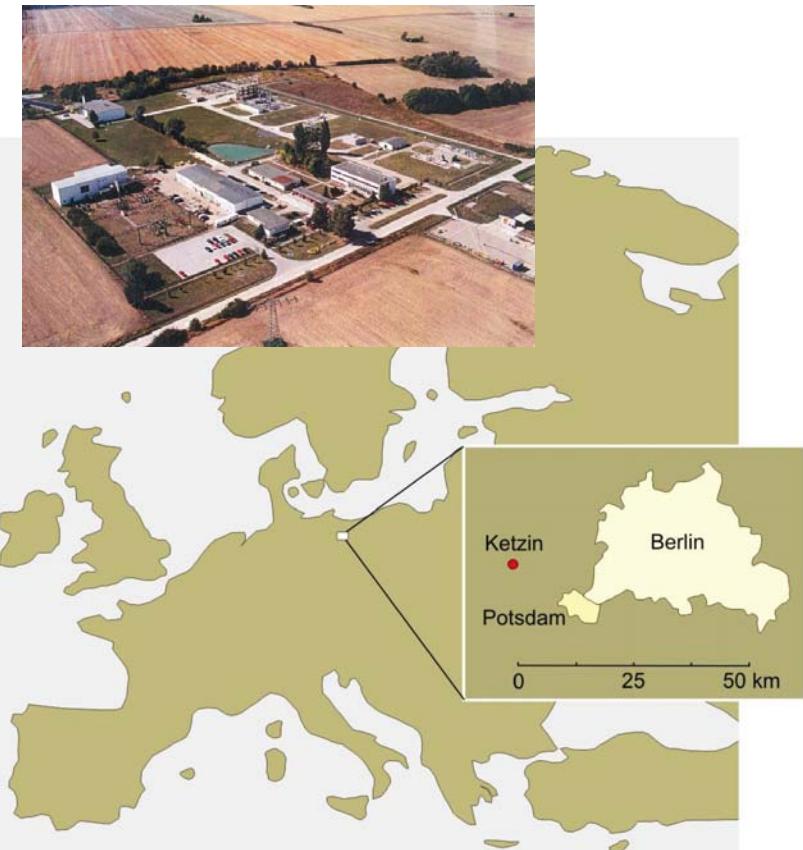
Start of the Project: April 1st, 2004

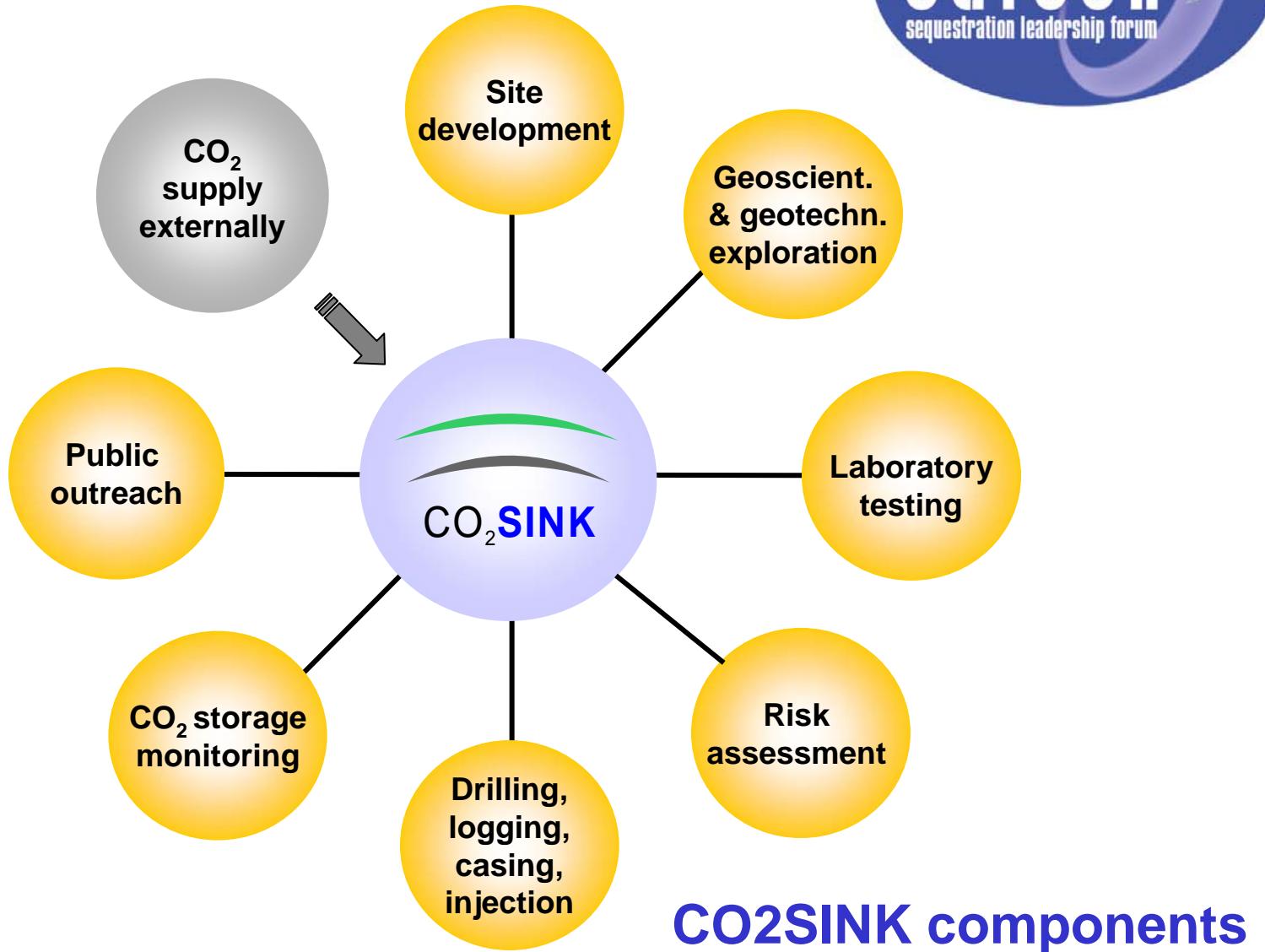
Status of the Project: ongoing

Objectives of CO₂SINK

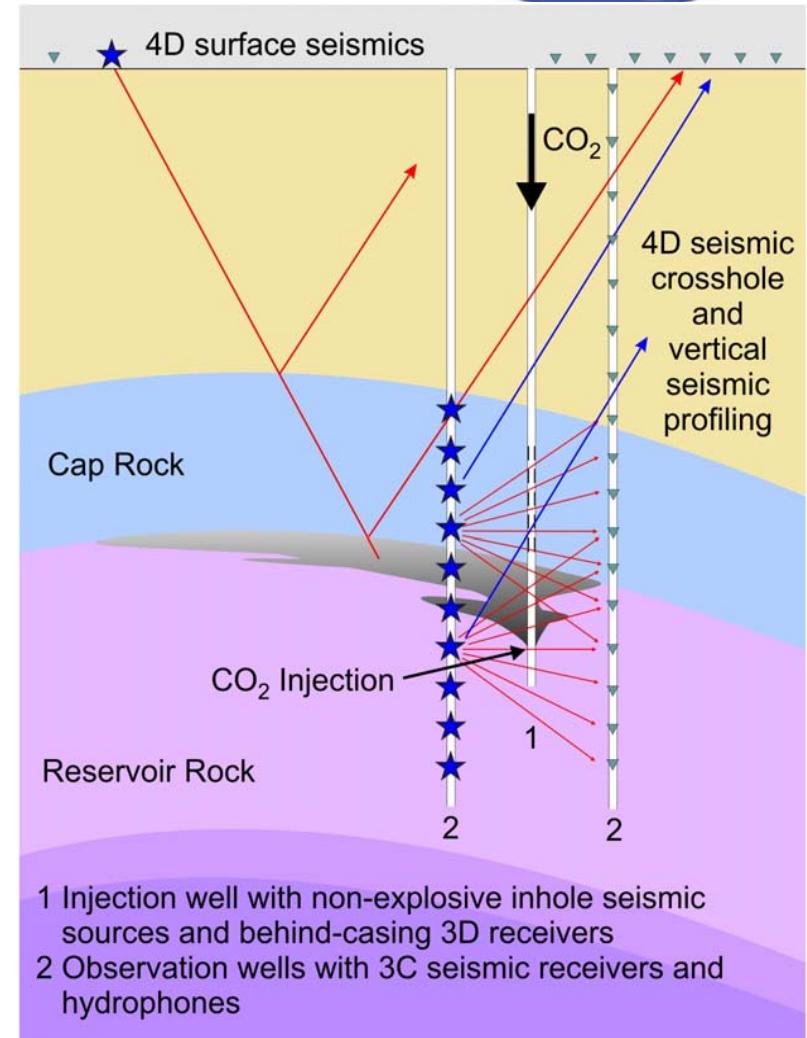
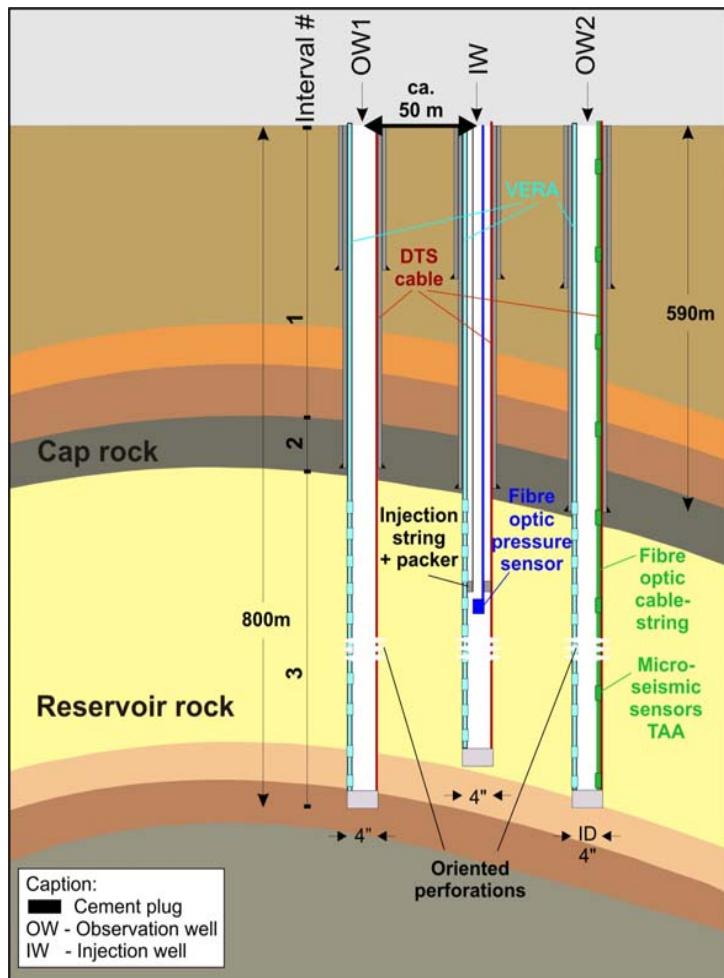
Injection of CO₂ into a saline aquifer beneath the town of Ketzin near Berlin:

- to advance the understanding of science and technical processes of underground storage of CO₂
- to build confidence towards future European CO₂ geological storage
- to provide real case experience for the development of regulatory frameworks for geological storage of CO₂ .

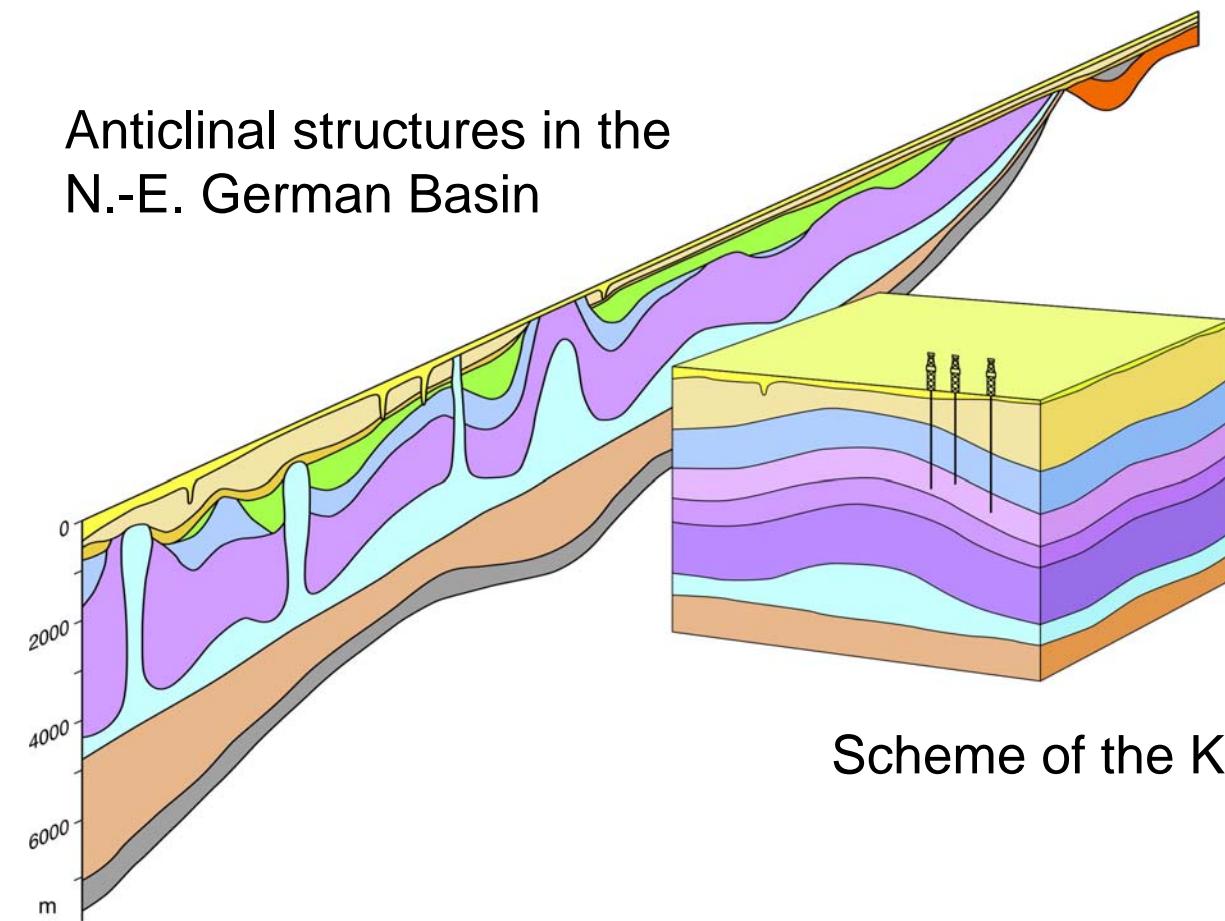




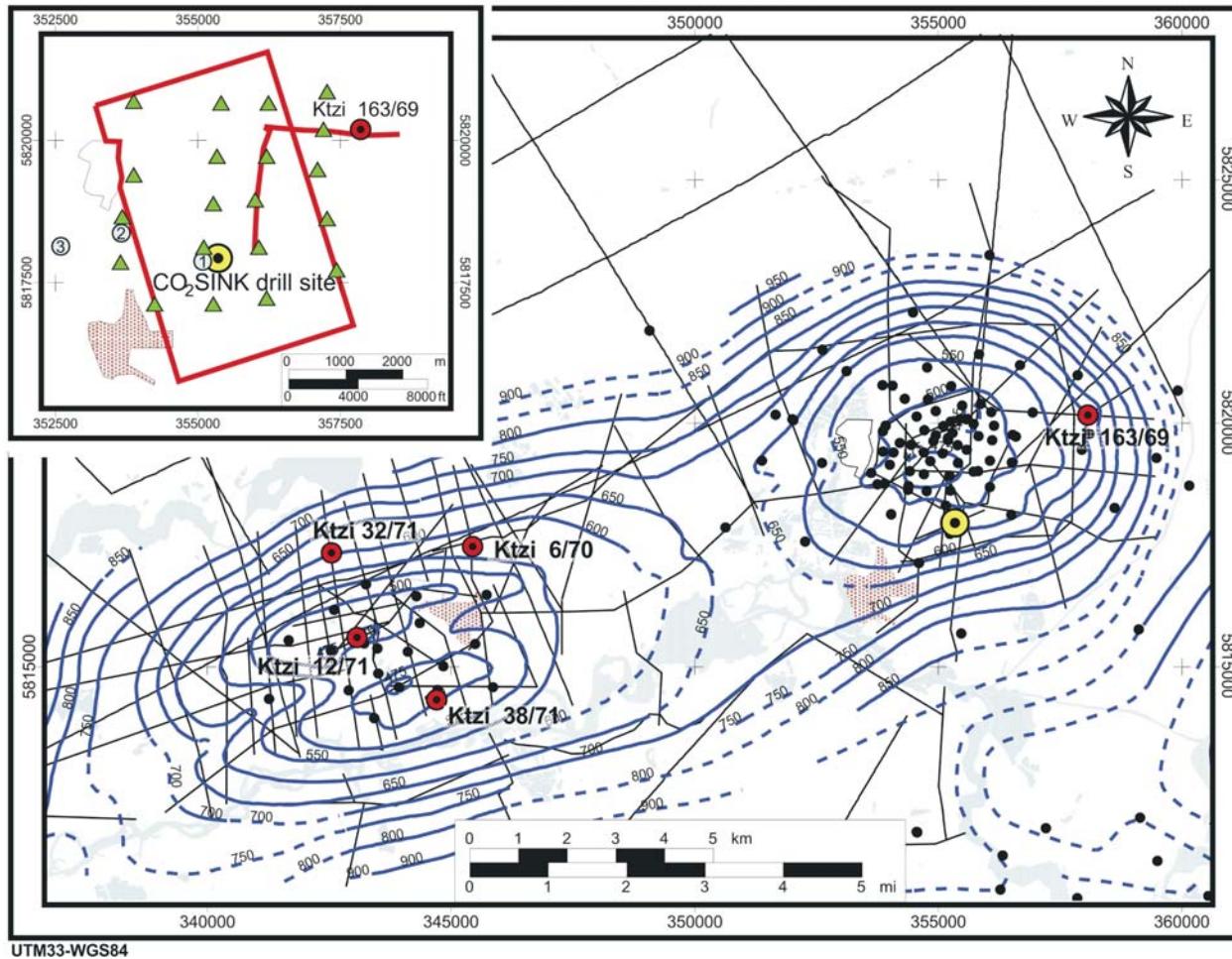
Drilling and Monitoring Concept



Baseline Geological Survey



The Roskow-Ketzin Double Anticline



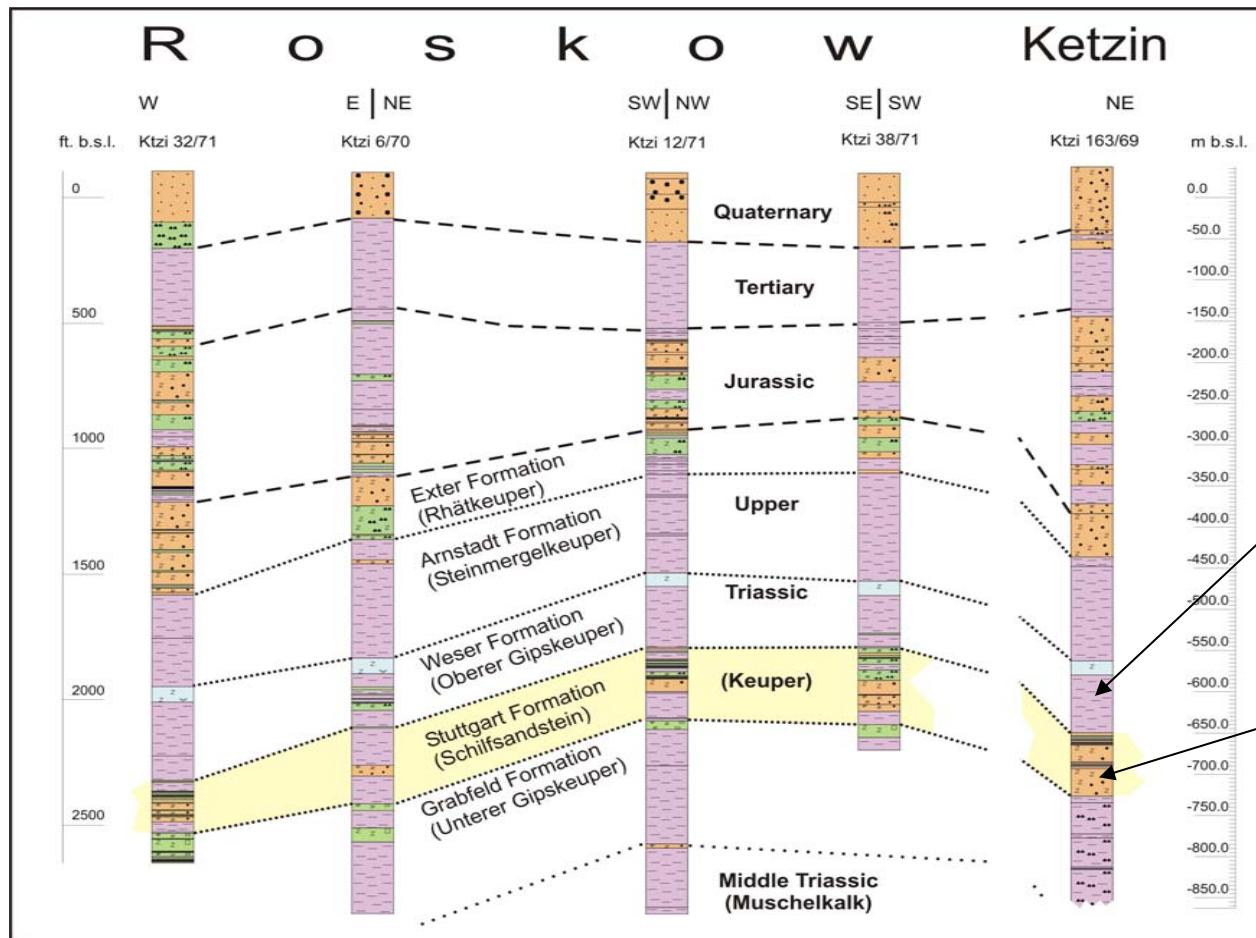
Depth of K₂ seismic reflector (about 80 m above CO₂SINK reservoir)

red lines: seismic pilot survey

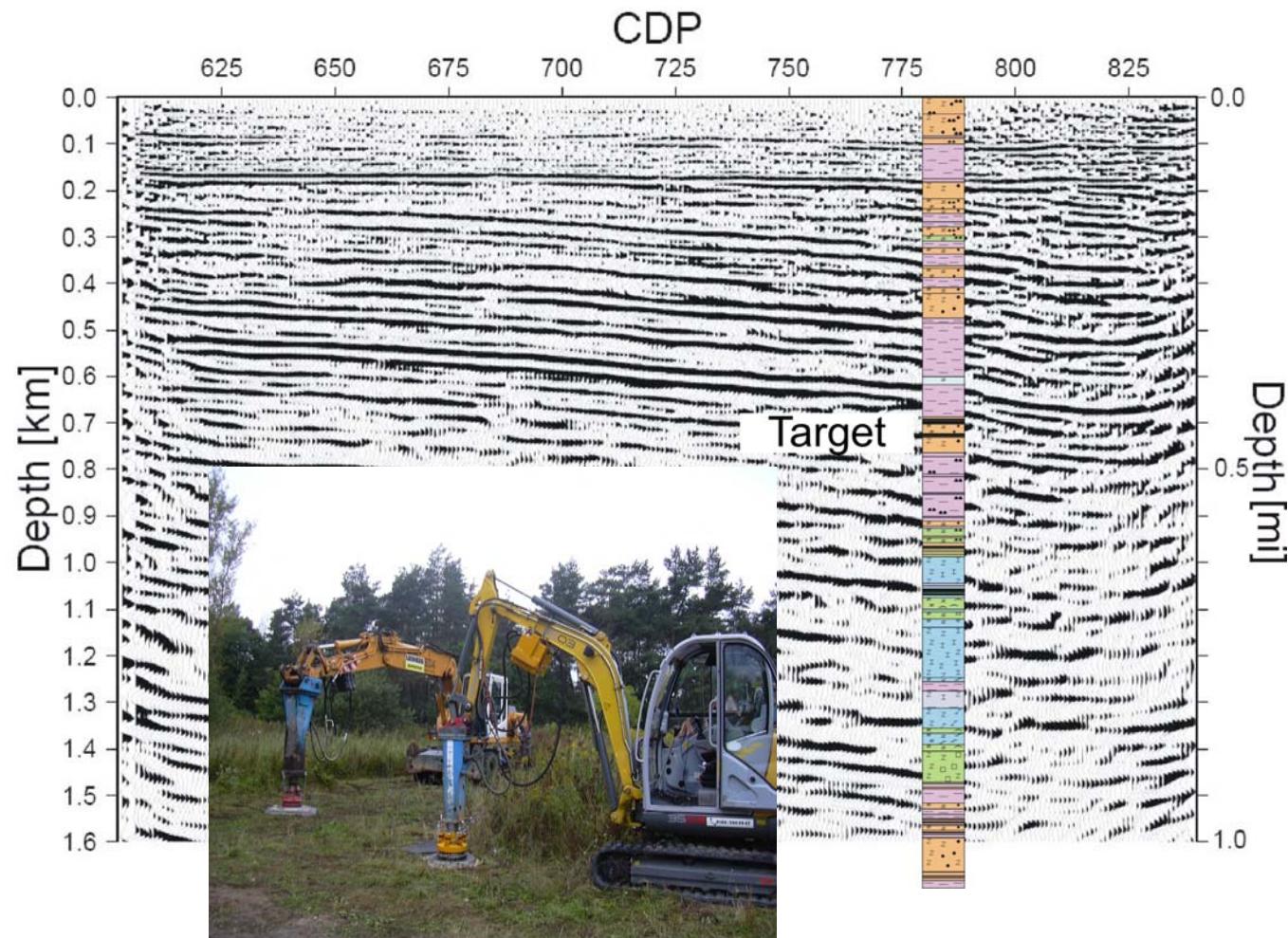
red frame: planned 3-D baseline survey

dots: exist.boreholes

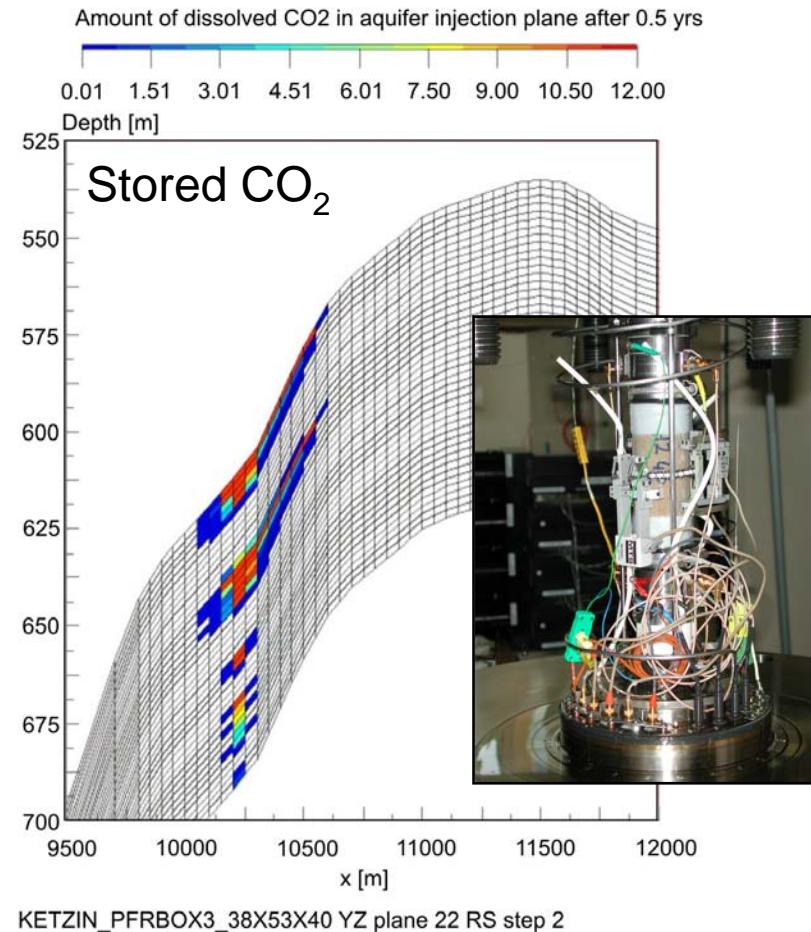
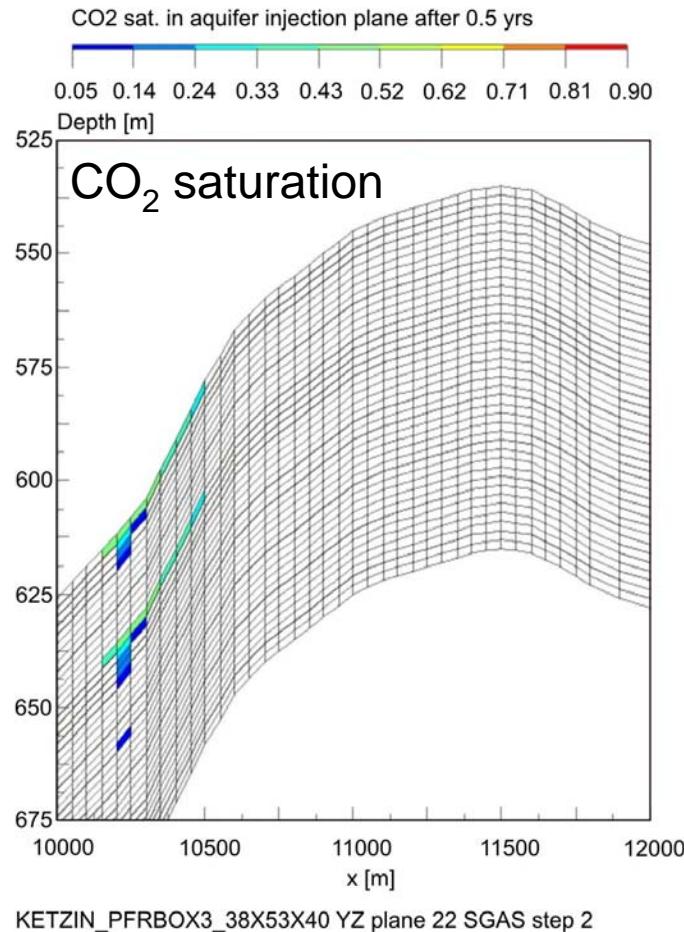
Stratigraphic-Lithologic Section across the Roskow-Ketzin Anticline



Seismic Pilot Survey

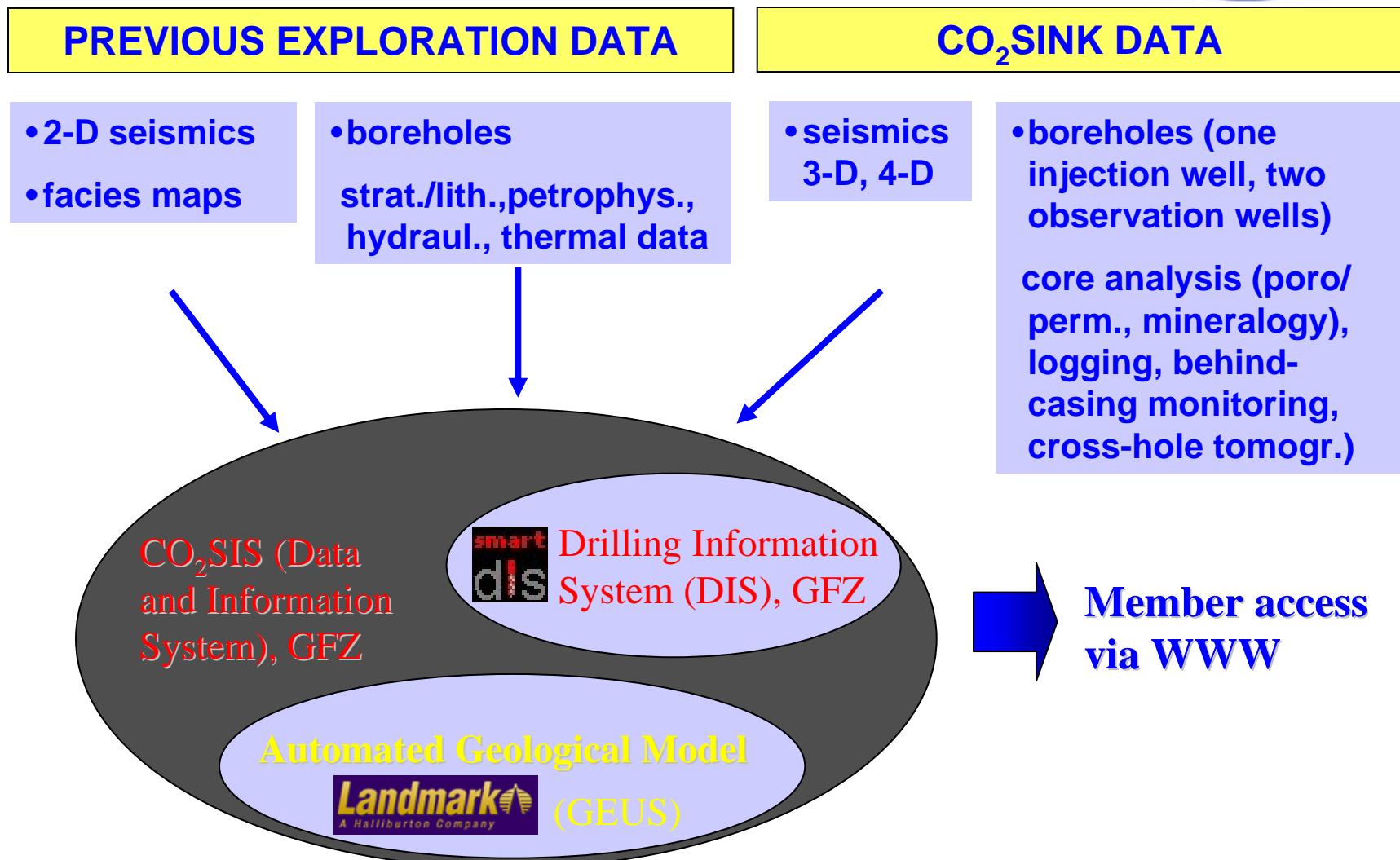


Numerical Predictive Models and Lab Tests



CO₂ saturation and dissolution in aquifer injection plane after 0.5 years

Data Integration and Dissemination System



Work in progress

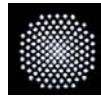
- For risk assessment, the geological model will be complemented by a hydrogeological model of the shallow subsurface.
- Baseline 3-D seismic survey in Sept.-Nov. 2005: verification of the baseline geological model.
- Drilling of the boreholes will commence in June 2006.
- CO₂ injection will start in Oct. 2006.



Project Partners



GeoForschungsZentrum Potsdam (D)
G.E.O.S. Freiberg Ingenieurgesellschaft (D)
Geological Survey of Denmark and Greenland (DK)
Mineral and Energy Economy Research Institute (PL)
Det Norske Veritas (N)
Statoil (N)



Shell International Exploration and Production (NL)

University of Stuttgart (D)
Vibrometric Finland (SF)
University of Kent (GB)
Uppsala University (S)
RWE Power AG (D)



Uppsala Geophysics

International Energy Agency – Greenhouse Gas Programme (GB)



Vattenfall Europe Generation (D)
Verbundnetz Gas AG (D)

