

Doing More with Seismic Data - Can GIS do it?

Morten Tønnesen, MD Geocap AS

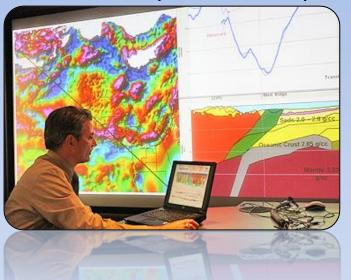
Presentation at "2nd Doing More with Subsurface Data" Norwegian Petroleum Museum Tuesday, May 6, 2014





The Need for a Shared Earth Model

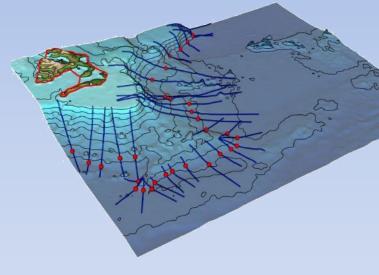
Subsurface exploration and production



Subsea Offshore installations



Management of the continental shelf and maritime zones



Environmental management & surveillance

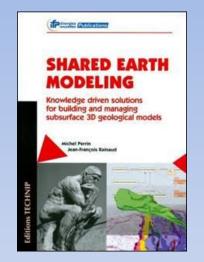


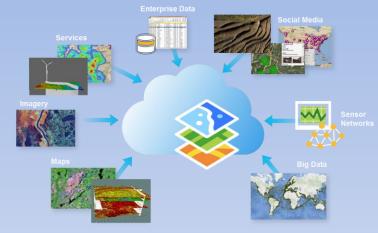




Requirements for a Shared Earth Model

- Ability to represent and visualize all kinds of data types
- Ability to integrate, link and combine various data sources
- Ability to integrate organizations and people to facility collaboration
- Ability to organize information to simplify discovery, access, sharing and collaboration















The Challenge and the Opportunity

Key Question: Can GIS do it?

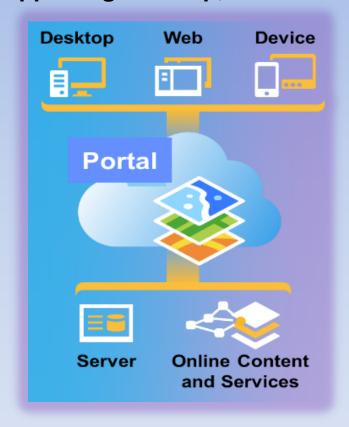




The Strength of the GIS Technology Platform

Expert G&G & GIS users

Supporting Desktop, Web & Mobile Devices



Supporting Common Computing Architectures



Supporting the Enterprise



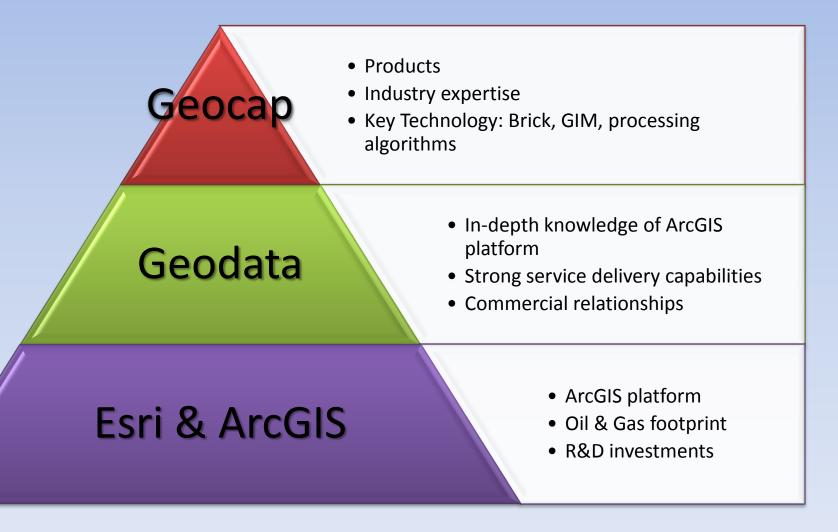


Making Access to the Shared Earth Model Available across Your Organization

GEODATA

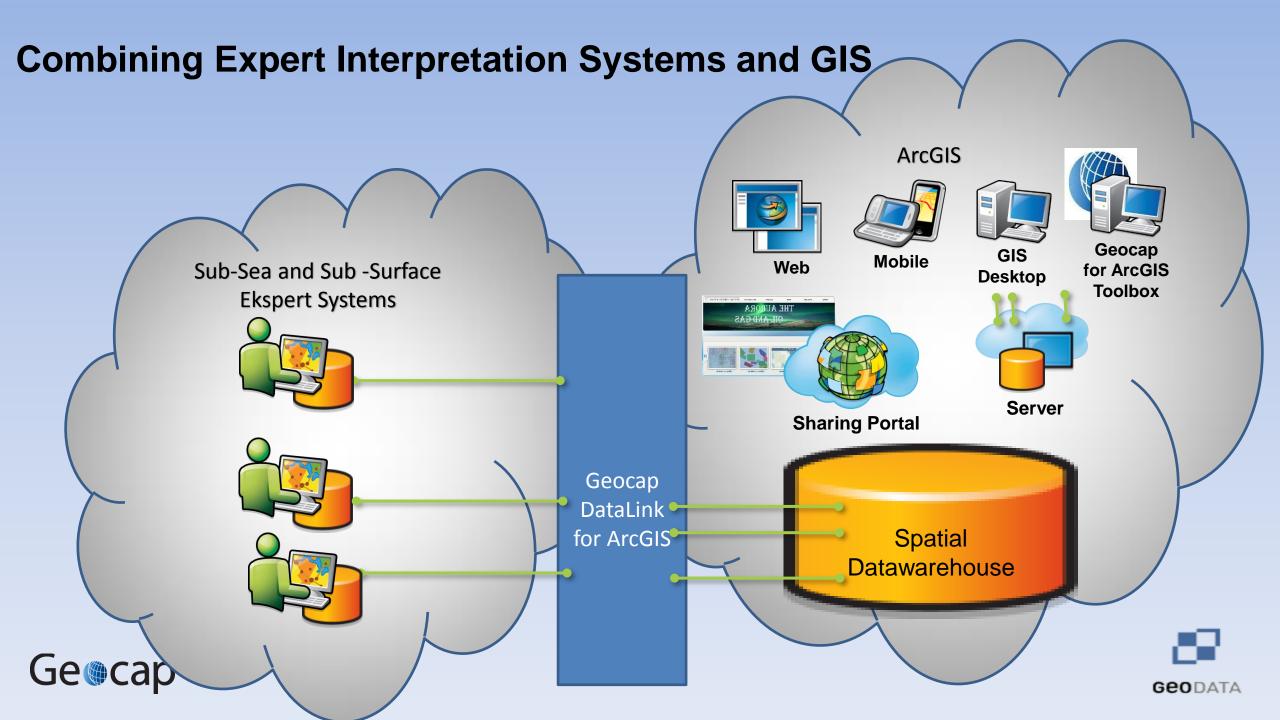
Value Proposition

Geocap + Geodata + Esri partnership









Enabling Multi User Seismic and Water Column 3D Vizualisation and Interpretation in ArcGIS



Multiple interpreters share one database



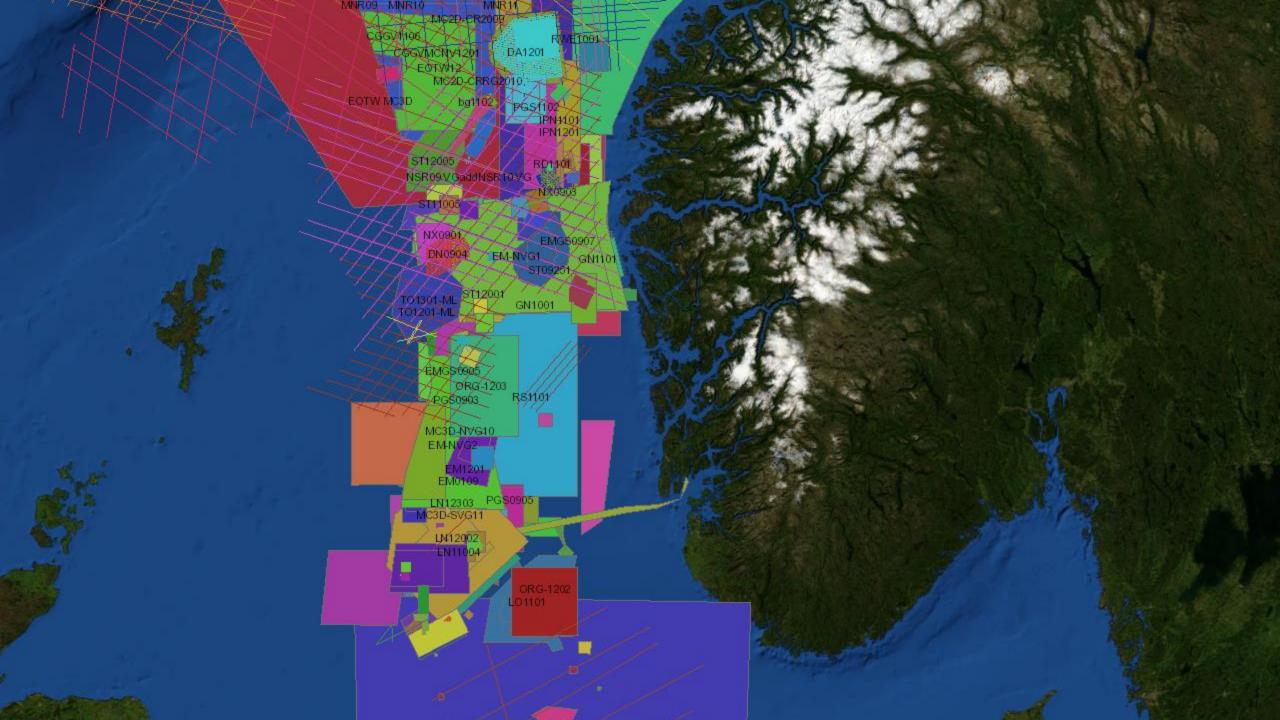
Geodatabase

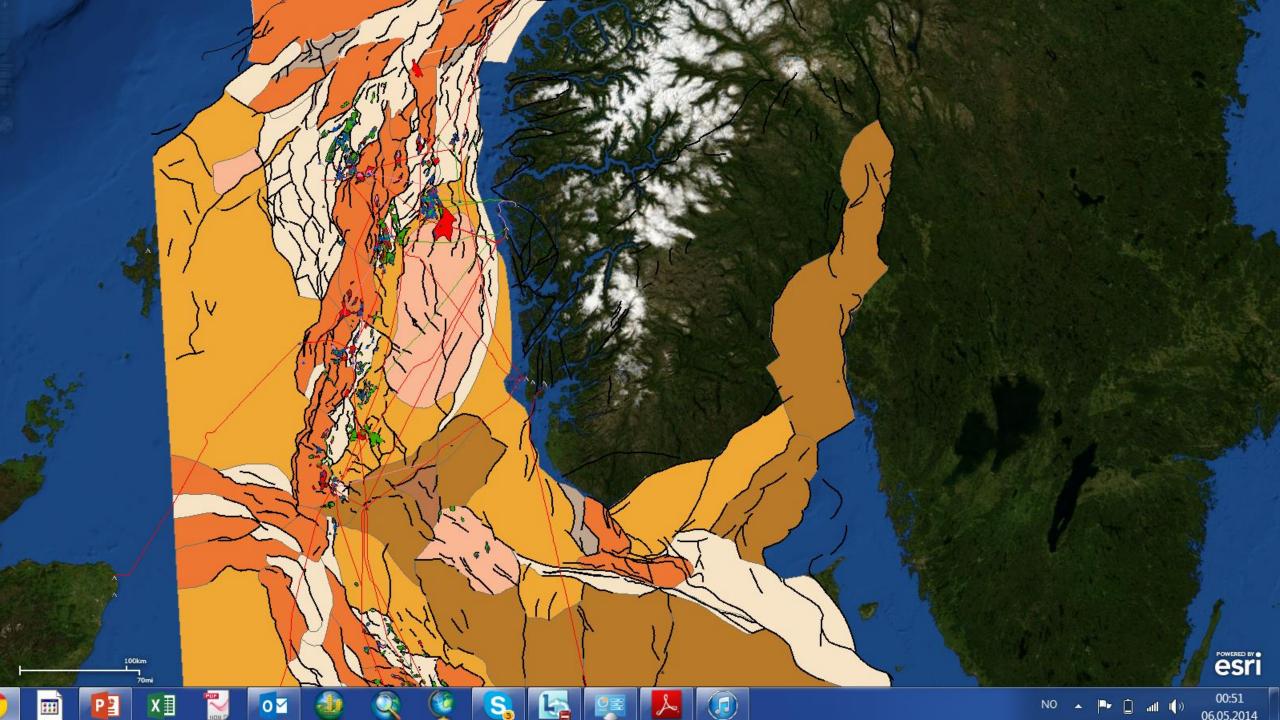
In geodatabase:

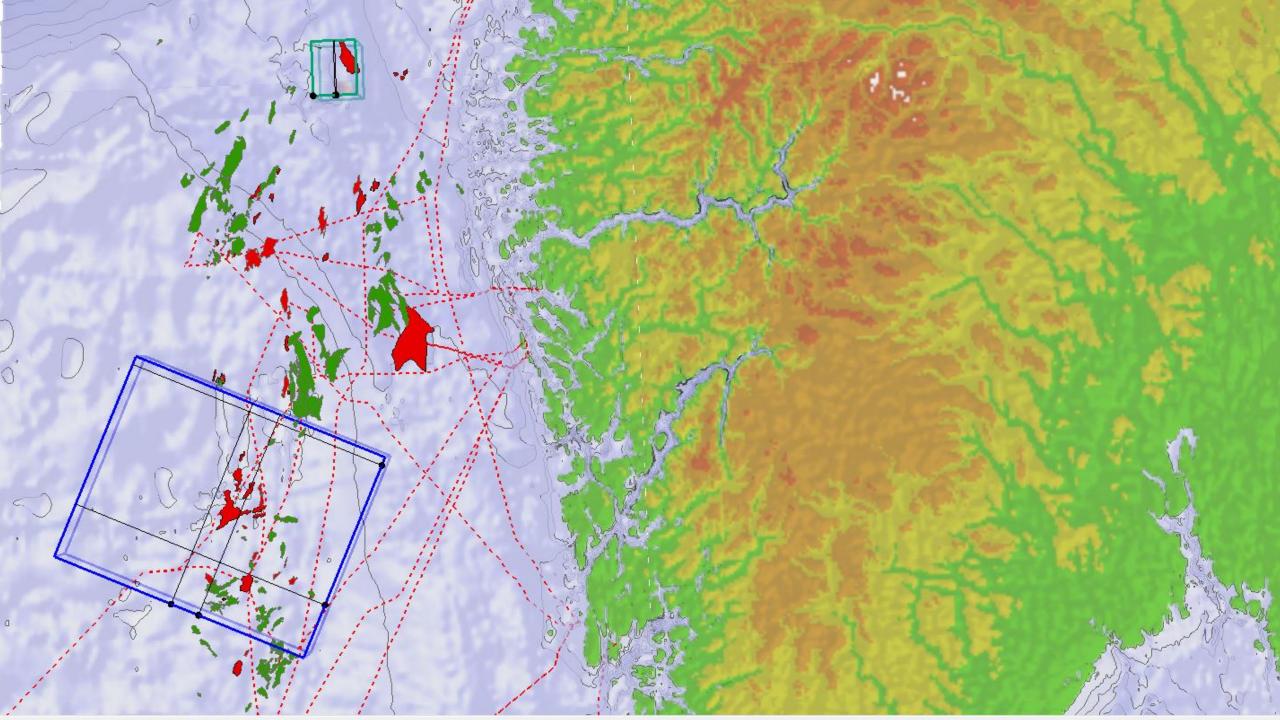
- Seismics
- Surfaces
- Interpretations
- Versioning

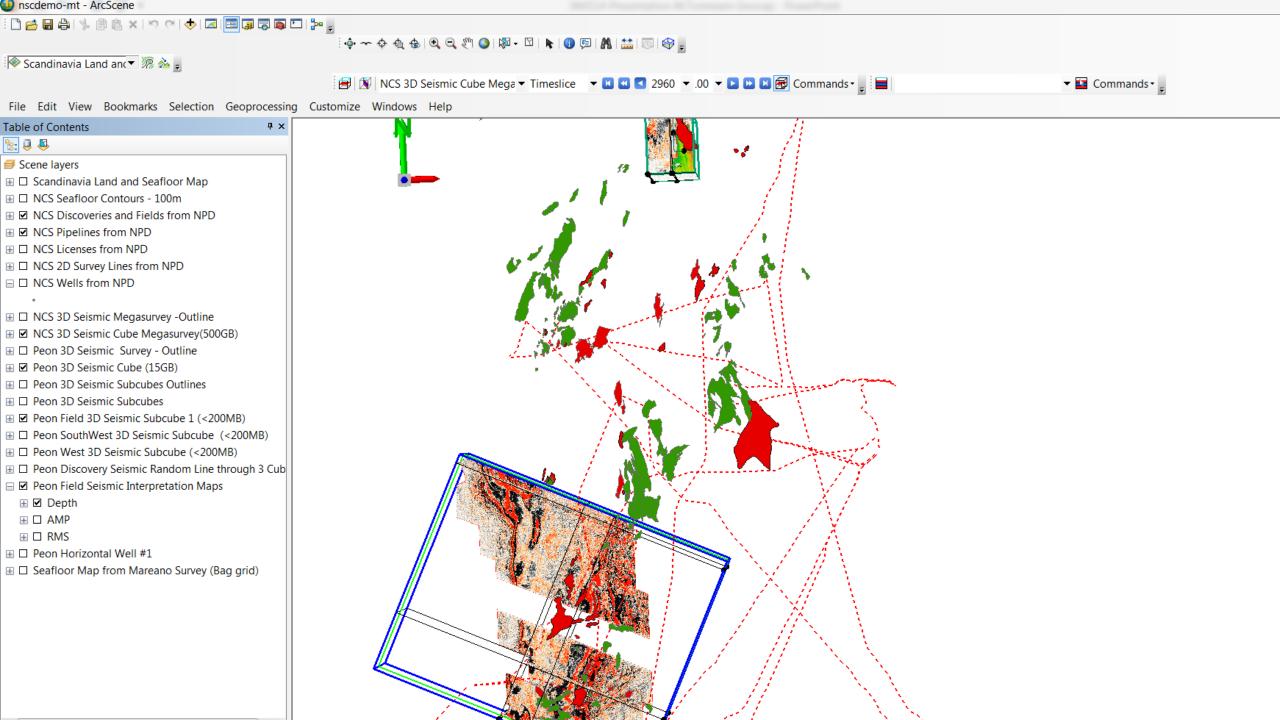


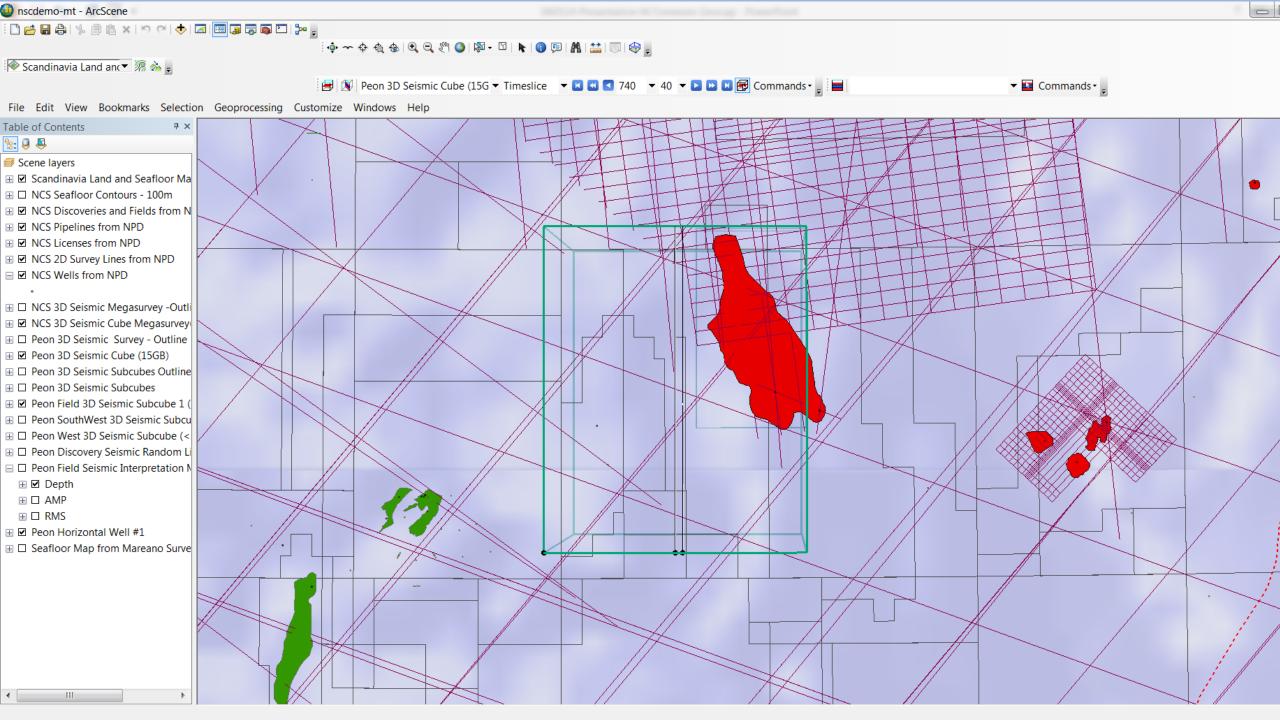


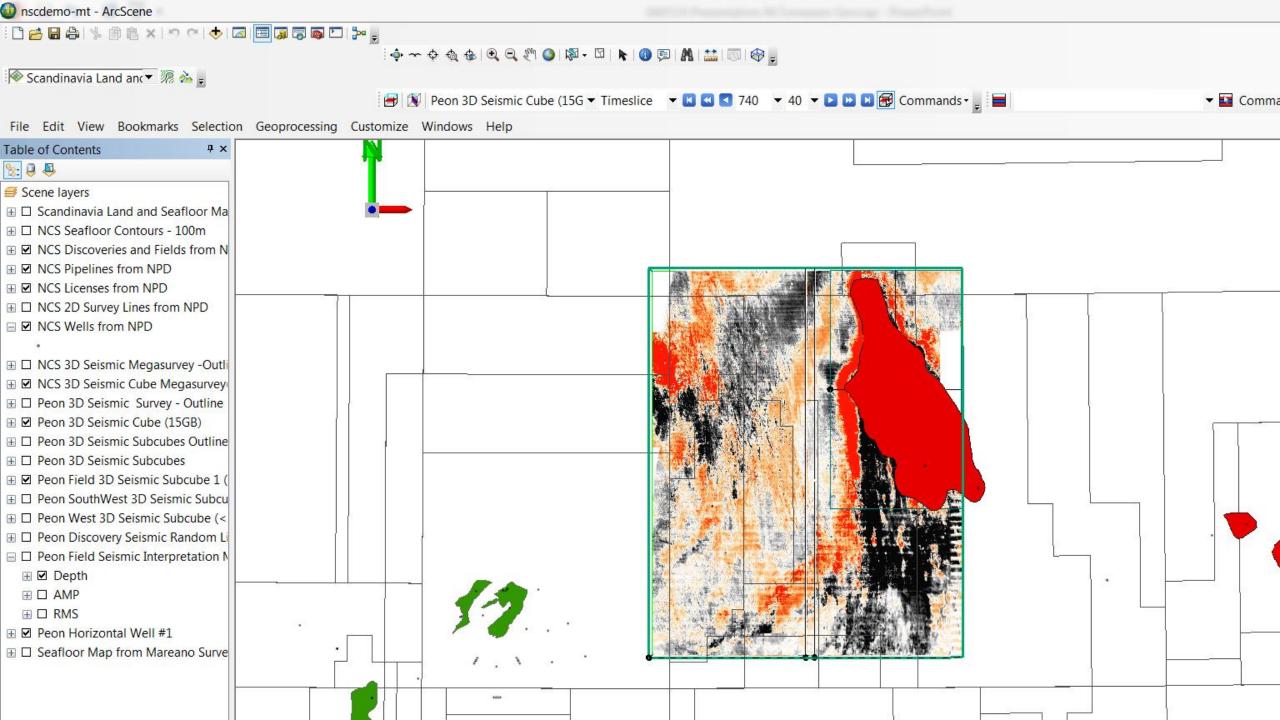


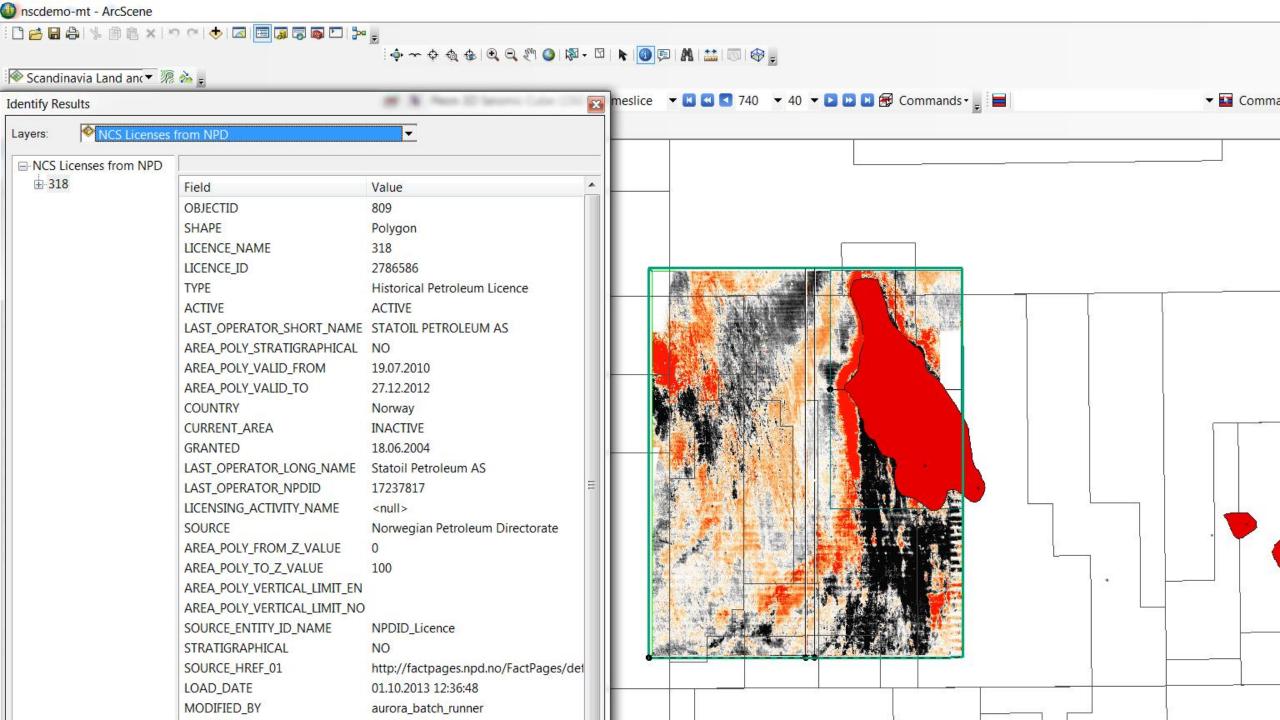


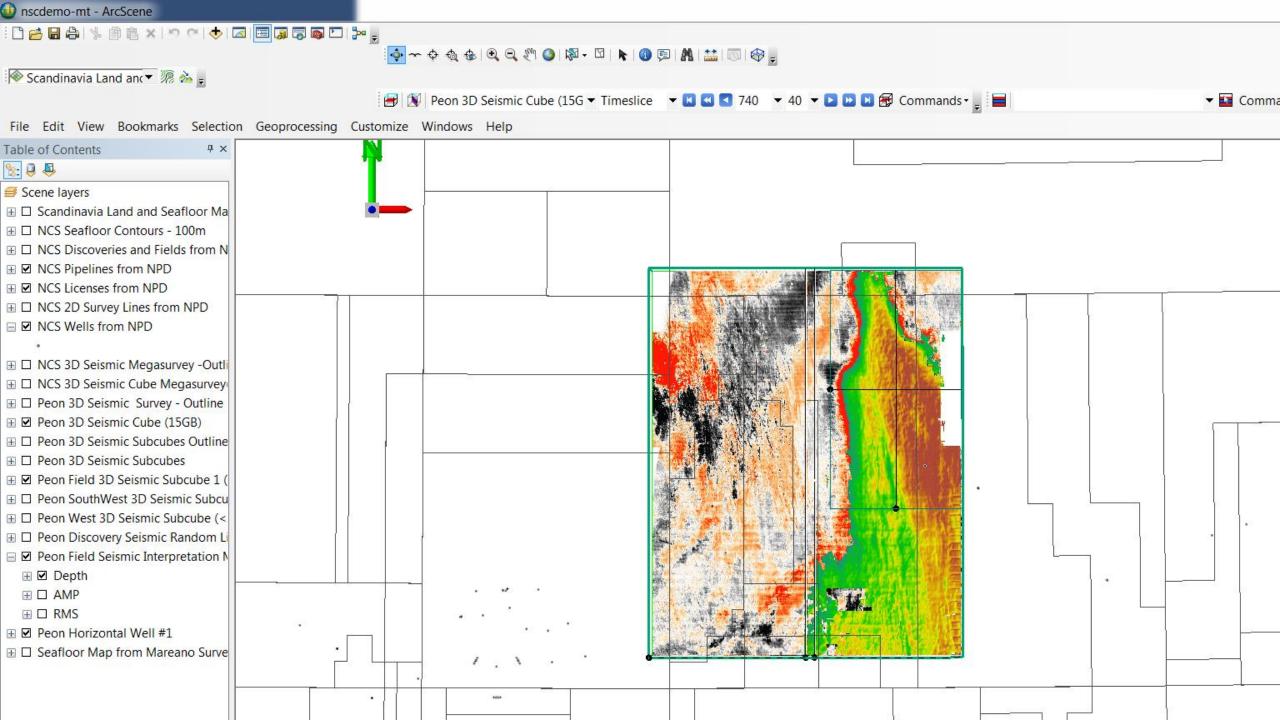


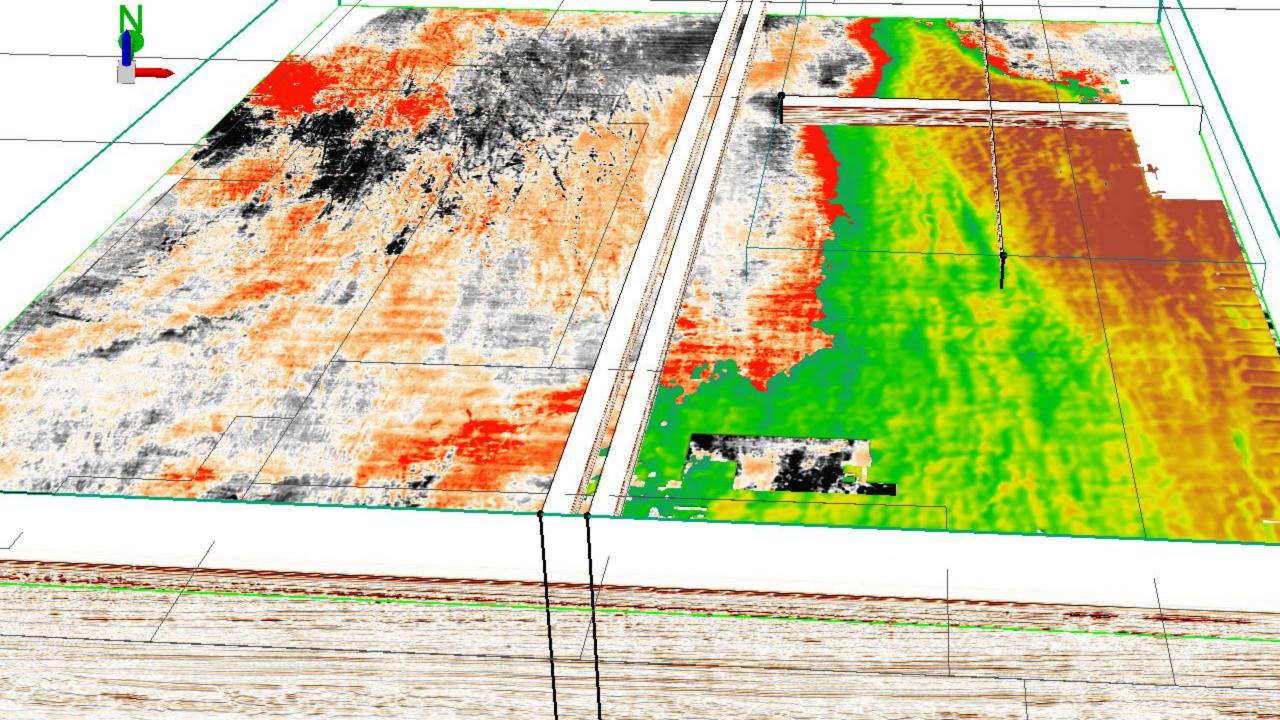


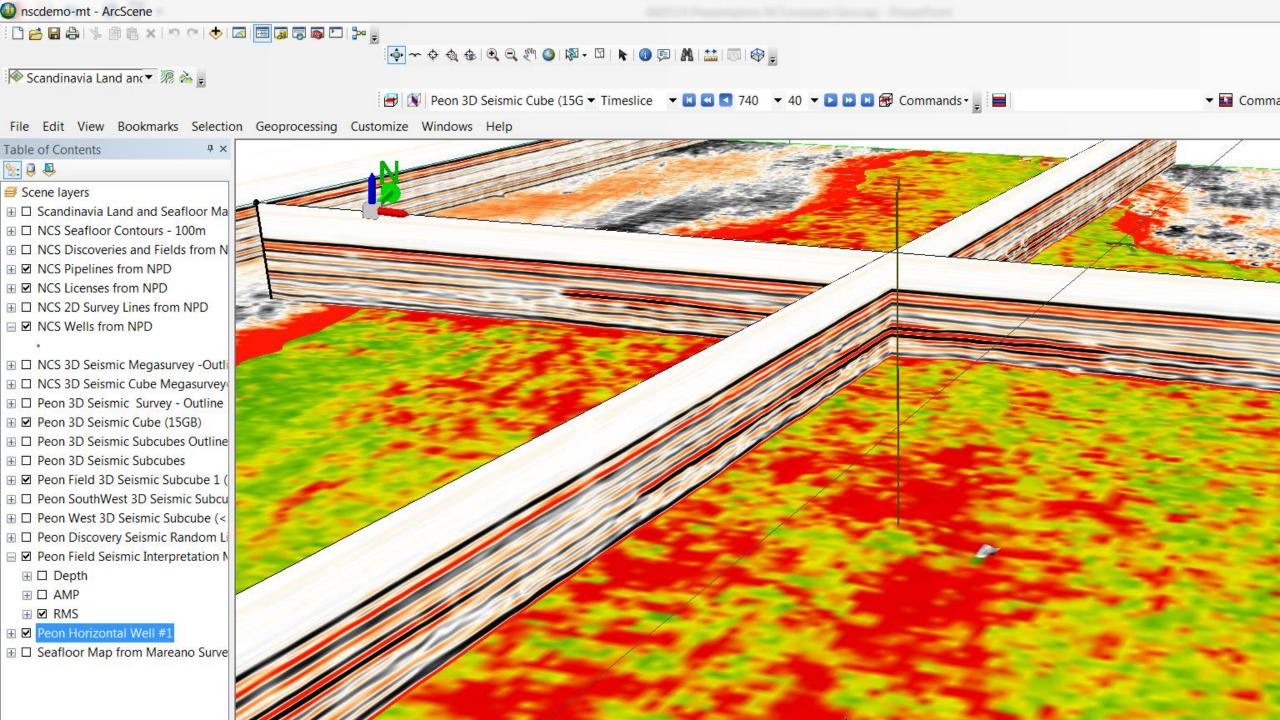


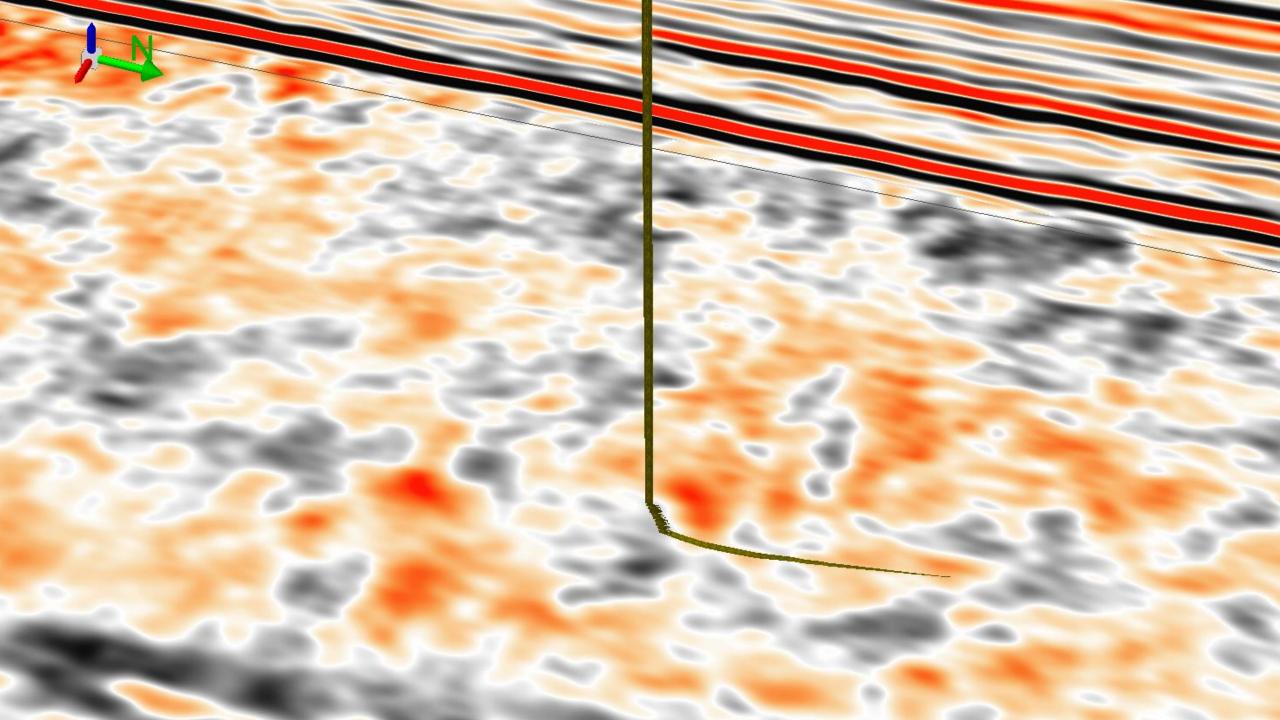


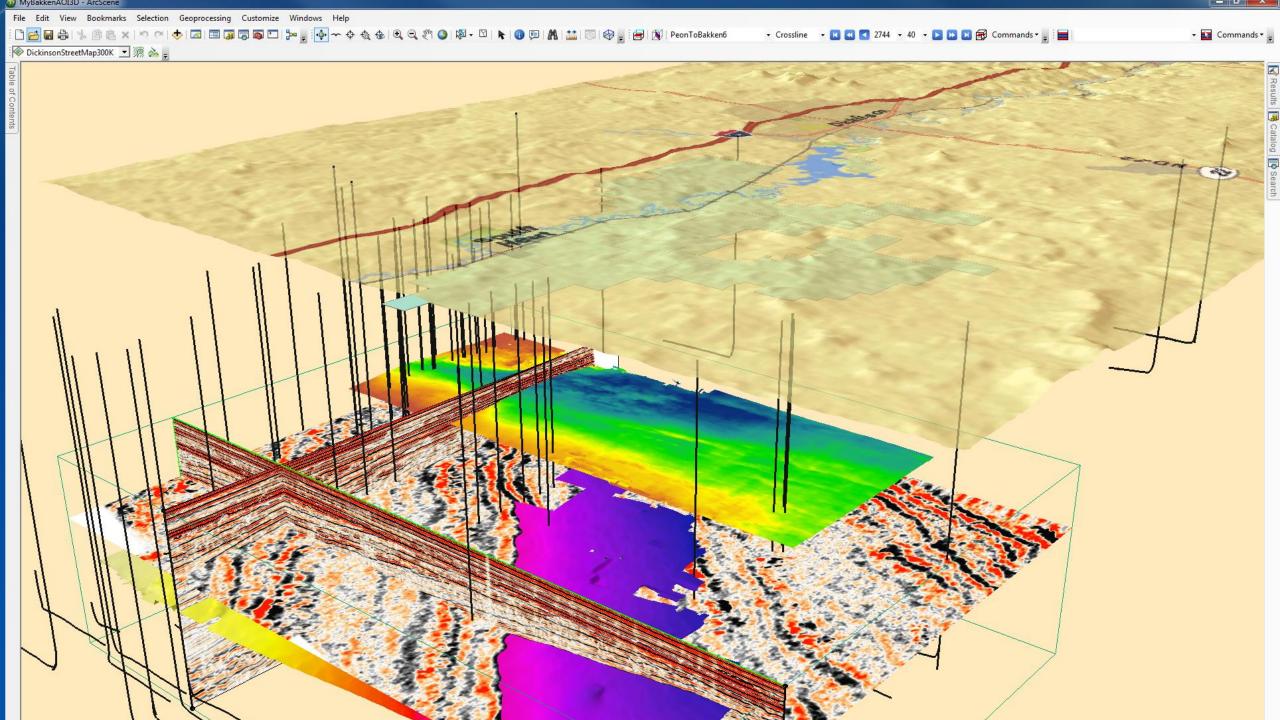


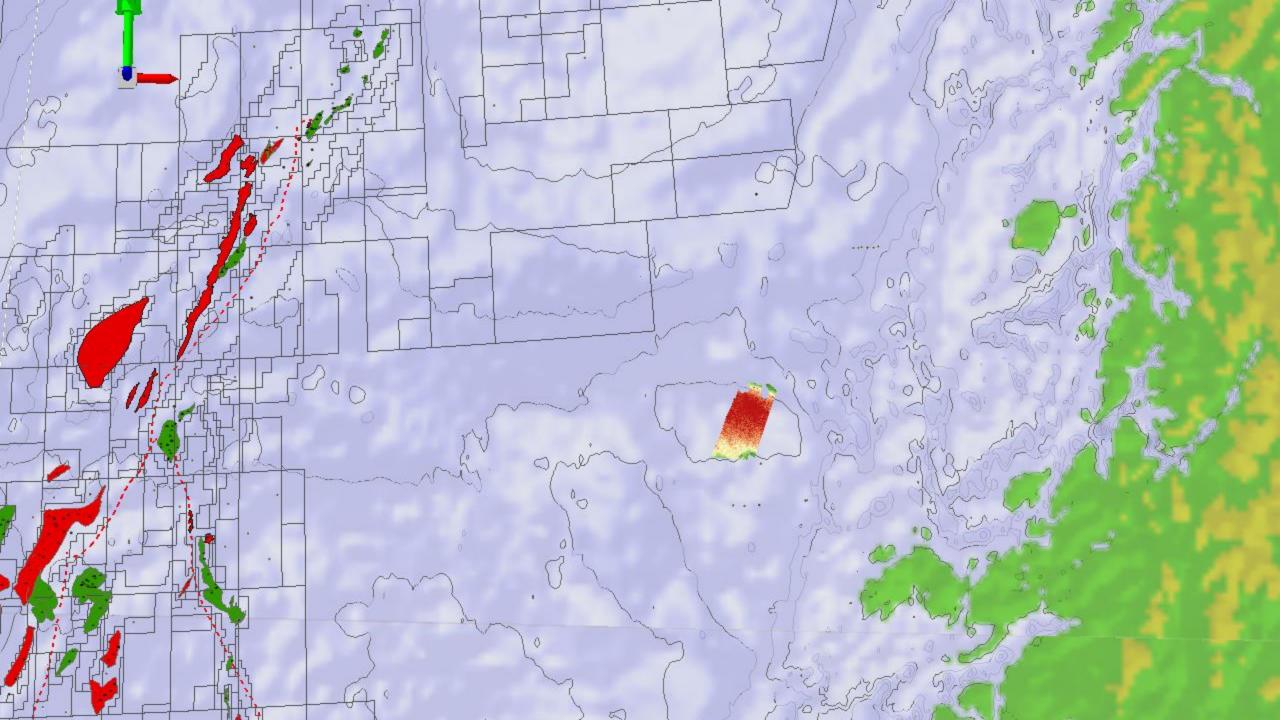


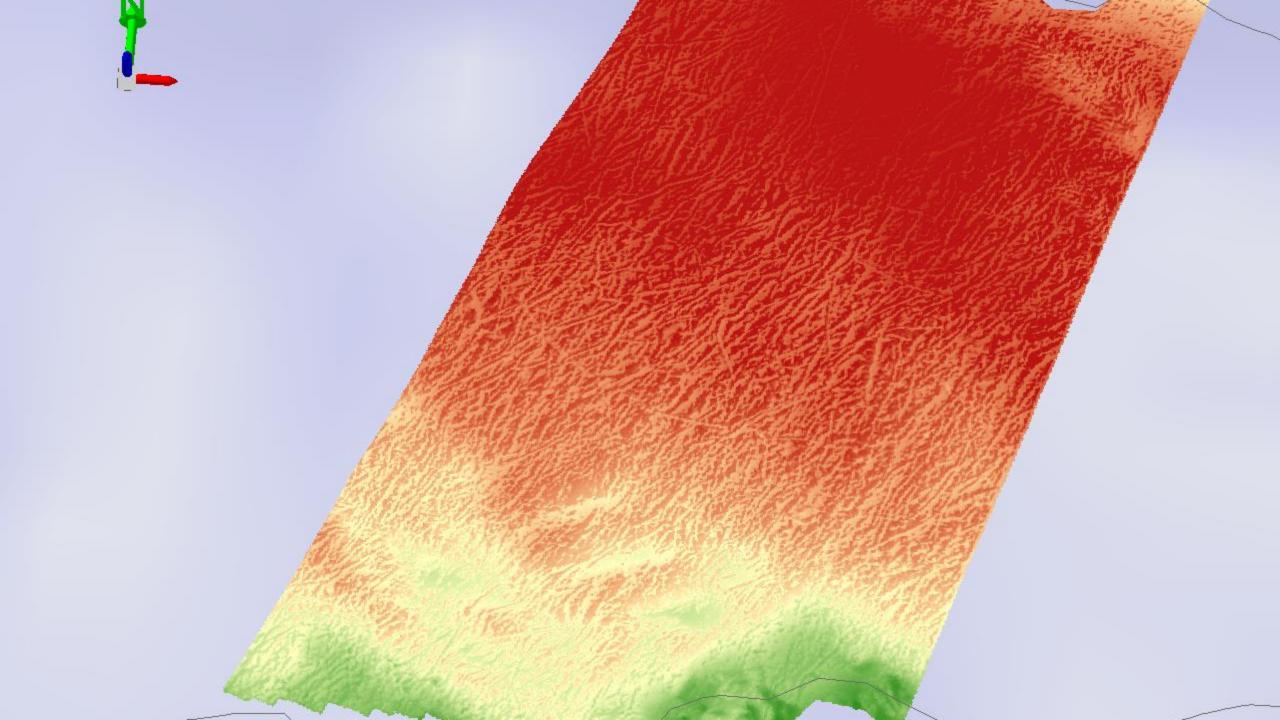


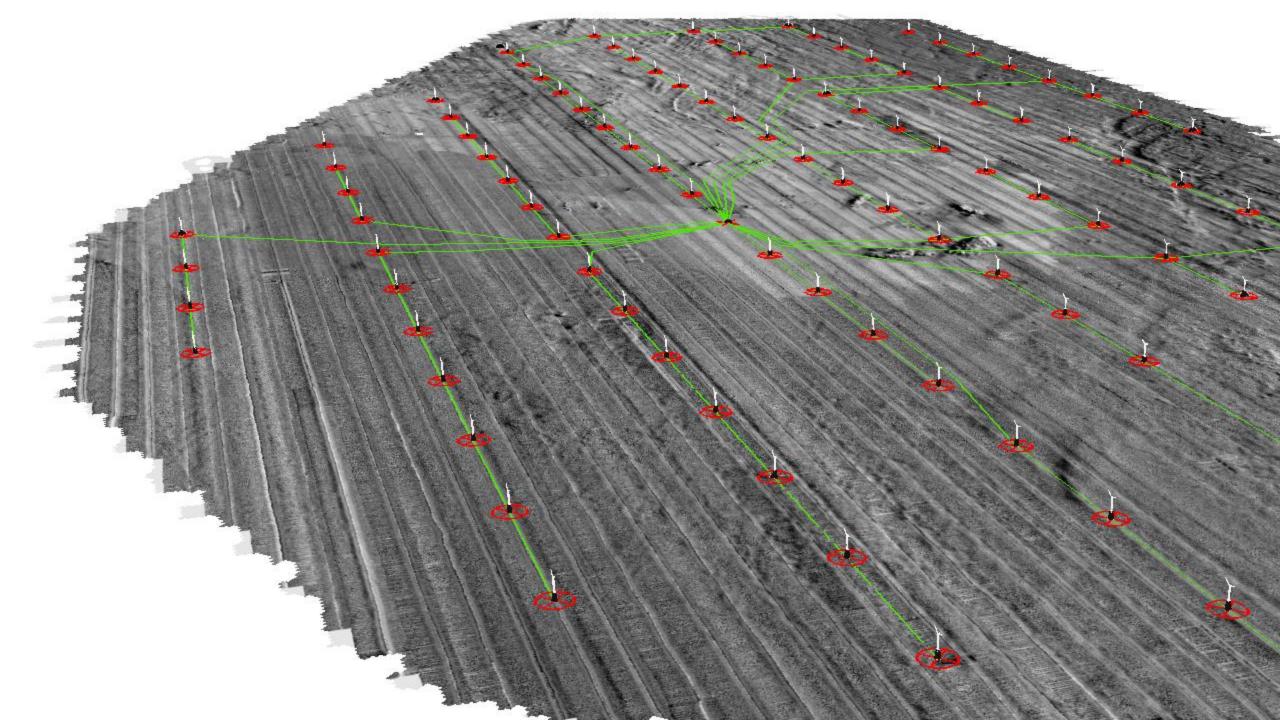


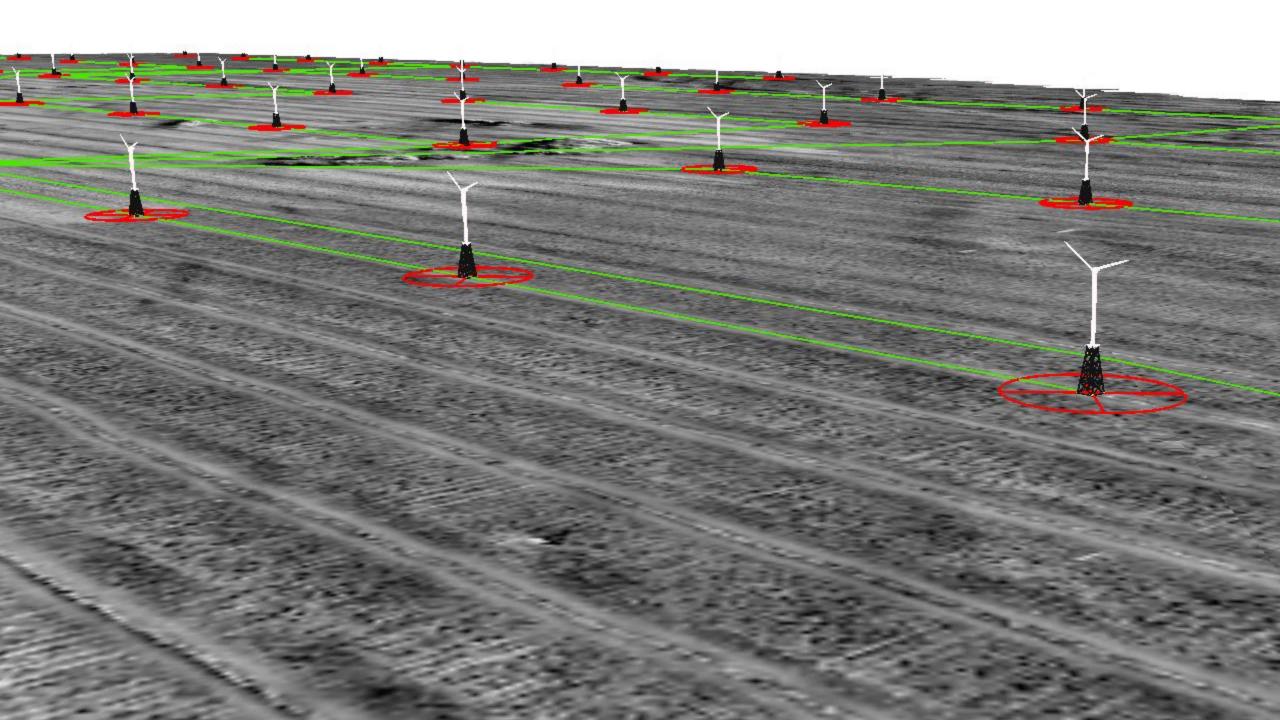






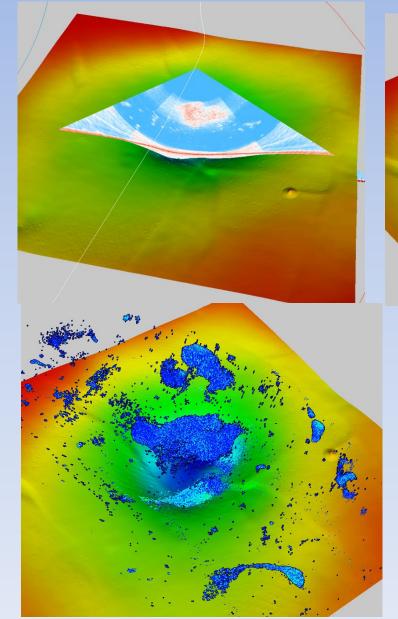


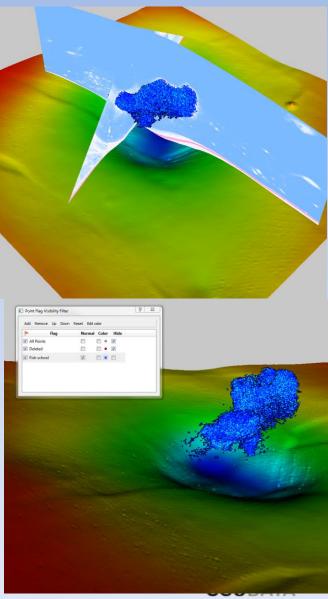




Water Column Explorer

- Locate seabed leakages, e.g. gas seeps, fresh water seeps
- Wreck surveys, find details not visible on multibeam data
- Locate objects in water column i.e anchor chains
- Combine Watercolumn Seafloor and Seismic Data



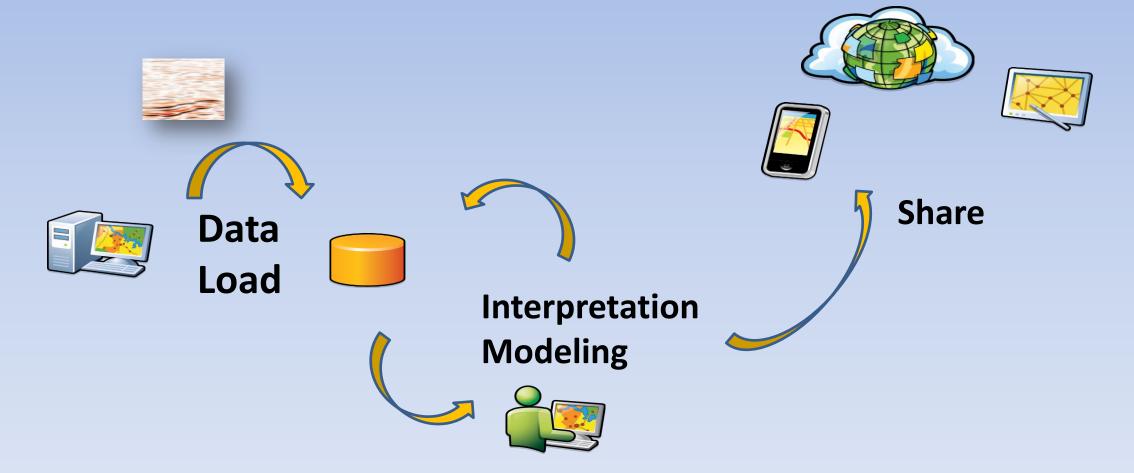




The Shared Earth Model in 3D - for Real

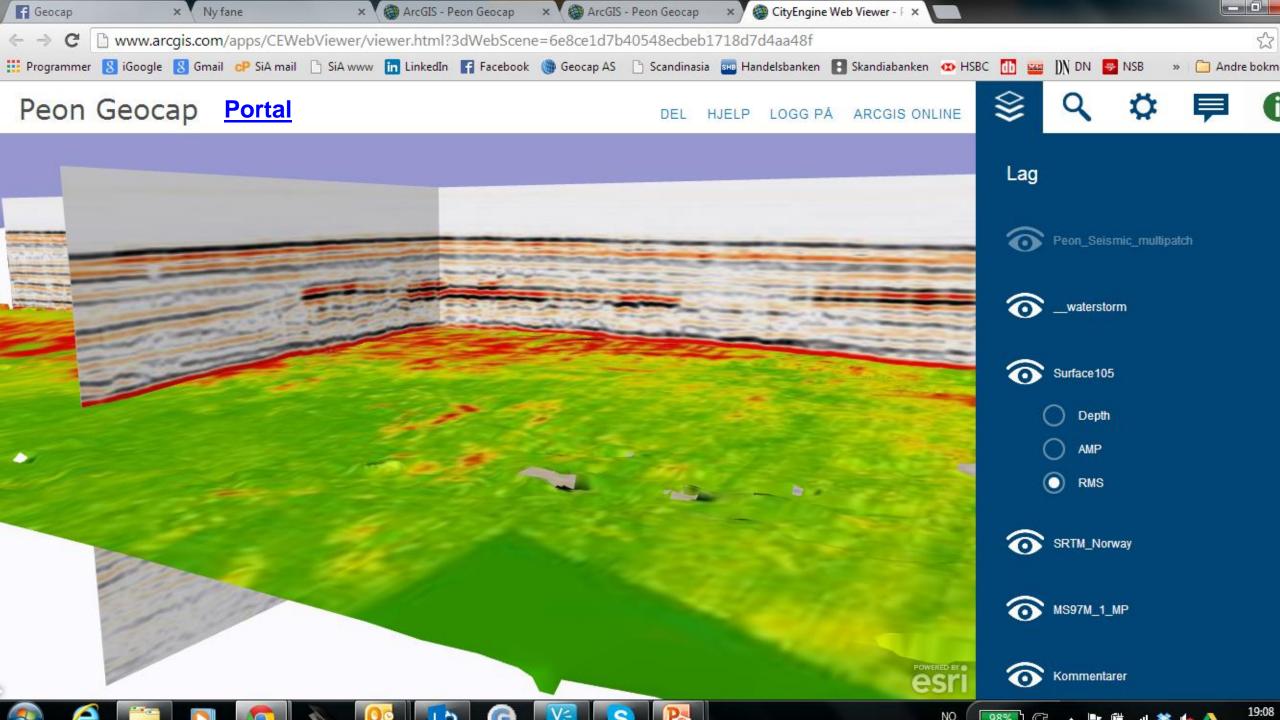


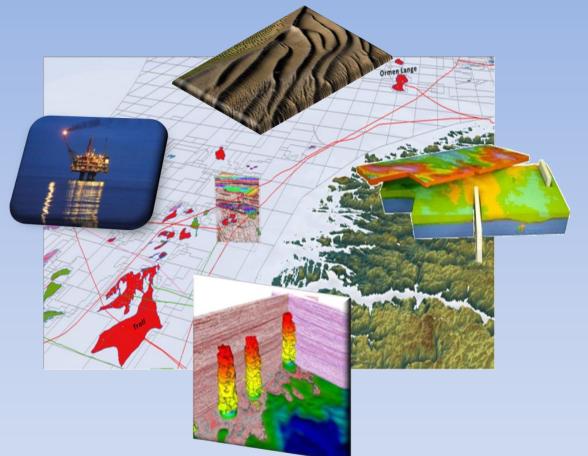
Enabling Sharing of Subsurface and Subsea 3D Data











Geocap for ArcGIS www.geocap.no



