



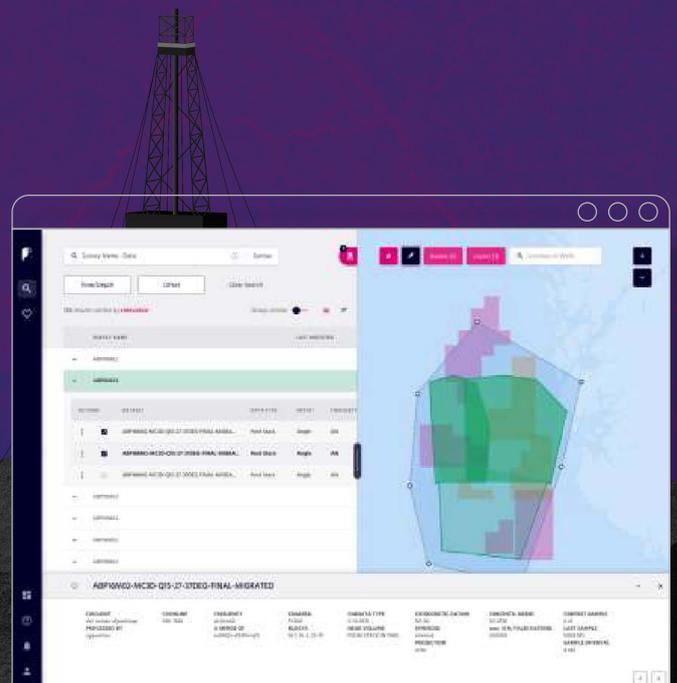
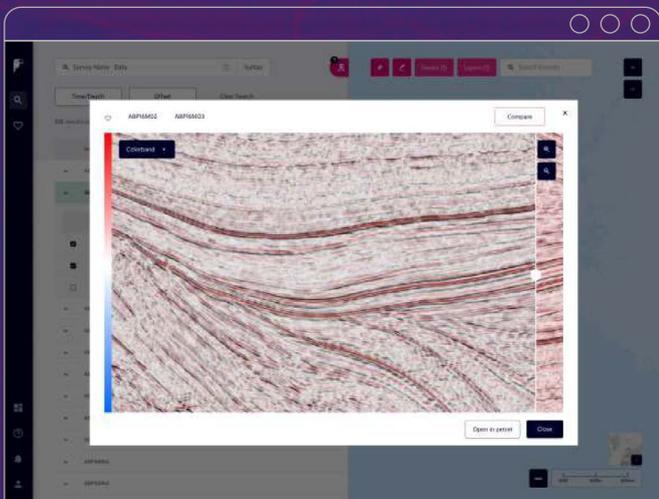
IMPROVE SEISMIC DATA ACCESS WITH COGNITE DATA FUSION

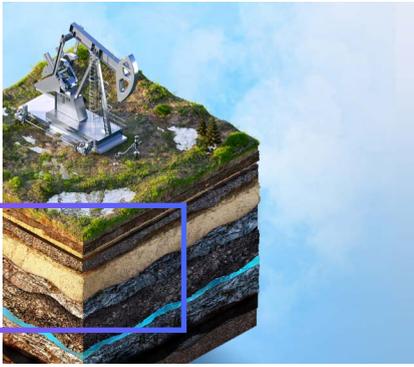
Liberate Structured and Unstructured Data • Empower Domain Experts • Reduce Time to Value

Seismic data discovery, quality assessment, and retrieval is often a time-consuming, iterative, cross-domain process. Challenges includes:

- Typically, only the metadata is organized in a proper database, making seismic datasets retrievable only as flat files.
- Querying for a subset of seismic is practically impossible, as is getting the actual data coverage within a survey.
- Normally the full seismic dataset must be loaded into interpretation software before any kind of qualitative or quantitative assessment of the data can be made.
- Individual vendors and seismic software providers often implement their own proprietary datastores.

The result of these and other common challenges is duplication of data, cumbersome cross-tool collaboration and workflows, limited access to and from third-party applications, and difficult automation of processing, interpretation, and analytics. Ultimately this situation leads to significant loss of time, costly vendor lock-in, and a structural inability to access the full potential of data.



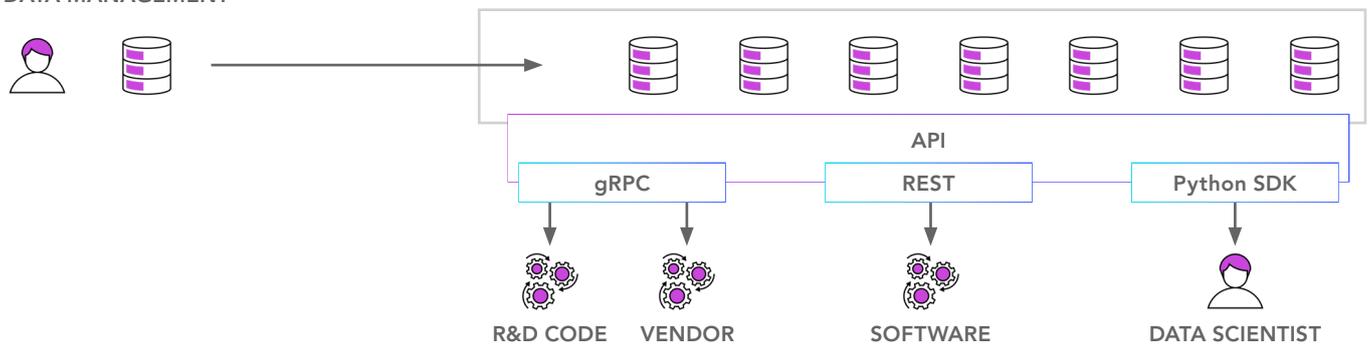


Improve Decision-Making Processes, Minimize Risk, and Maximize Value with Cognite Data Fusion

Cognite Data Fusion (CDF) delivers a cloud-based API architecture that improves how oil and gas companies ingest, store, query, visualize, and consume seismic data. The solution empowers subsurface experts with data-driven insights, eliminates traditional bottlenecks, and lowers the time to value.

- Less searching, more discovering. Our solution liberates seismic datasets from different repositories and makes them all available in a cloud-based datastore. This eliminates the need to search multiple databases and streamlines quality control and validation processes.
- Deep querying, rich previews. A user-friendly, web-based application gives users instant access to the seismic data in the cloud. It also enables them to search by keywords or by drawing a polygon on a map, preview a selected seismic section or time slice, and compare the same section from two different cubes.
- No lock-in, only options. The open API makes data sharing with third-party companies efficient and secure without duplicating data. Users can launch domain applications via the API as services on top of the data, which supports different workflows by ensuring that data can move between services effortlessly.

DATA MANAGEMENT



Case Study:

A leading independent European oil and gas company is working with Cognite to implement the cloud-based seismic datastore and API. Previously, the company stored its seismic data in a national data repository. The only way to retrieve data from the repository was by physical delivery via hard disks. Once the data arrived, a user loaded it into a software application to check the coverage and to preview it. If the data was wrong or

not useful, that entire process needed to be repeated. As a result, the quality control and validation process of seismic data normally took as long as two weeks.

After implementing the cloud-based seismic datastore and API, the company's subsurface experts now spend seconds on data discovery, enabling them to focus on data quality instead.

