

MICROSOFT AZURE ENERGY
DATA SERVICES

Customer & Partner
Evidence



"Explore all your subsurface data without any limitations of data size or interpretation software. Increase E&P workflow productivity using Azure cloud solutions and interactive deep learning to reduce interpretation cycle time."

Bluware





bluware

Take Full Control of Your Seismic Interpretation with InteractivAI

- Bluware InteractivAI™ is the only deep learning tool that truly captures the expert's knowledge in real time. InteractivAI™ doesn't use pre-trained ML networks, so no dependency on "canned" networks. Working in tandem with the geoscientist, providing active two-way feedback, InteractivAI helps deliver a more precise and detailed seismic interpretation that the geoscientist is in complete control of from start to finish.
- Interpret any geological and geophysical feature. InteractivAI™ is not limited to just fault or salt interpretation. Geoscientists can interpret channels, petroleum system elements, shallow hazards, and all other geobodies that are visible.
- Geoscientists can now explore a range of alternative interpretations. InteractivAI's labeling tools are non-prescriptive and can be used to label any type of visible seismic feature.

Challenge

- Large subsurface datasets are difficult to move and use in geoscience workflows and even more challenging to move and use in the cloud.

Solution

- InteractivAI™, an Azure web native tool, learns from you and provides real-time feedback, suggesting an interpretation on unseen data. Working in tandem with you, the tool delivers a more precise and detailed interpretation at 10X speeds.

Customer Value

- InteractivAI™ is an effective tool for subsurface knowledge transfer in the form of trained expertly-labeled network files. Capture, preserve, and utilize intelligence from previous projects and experienced interpreters to guide asset teams.
- It augments a geoscientist's existing skills, increasing their interpretation accuracy and efficiency while allowing them to work through large datasets just like a team of geoscientists working on the same data set.
- Unlike other machine learning solutions, it uses an inclusive training process that keeps the geoscientist at the center of the interpretation process every step of the way.

Example – Bluware on Microsoft Azure Energy Data Services

Overview

- Bluware InteractivAI on Azure increases workflow productivity through cloud native solutions and advanced deep learning, to enable energy companies to make faster and smarter decisions reducing time and costs on exploration and reservoir development projects.

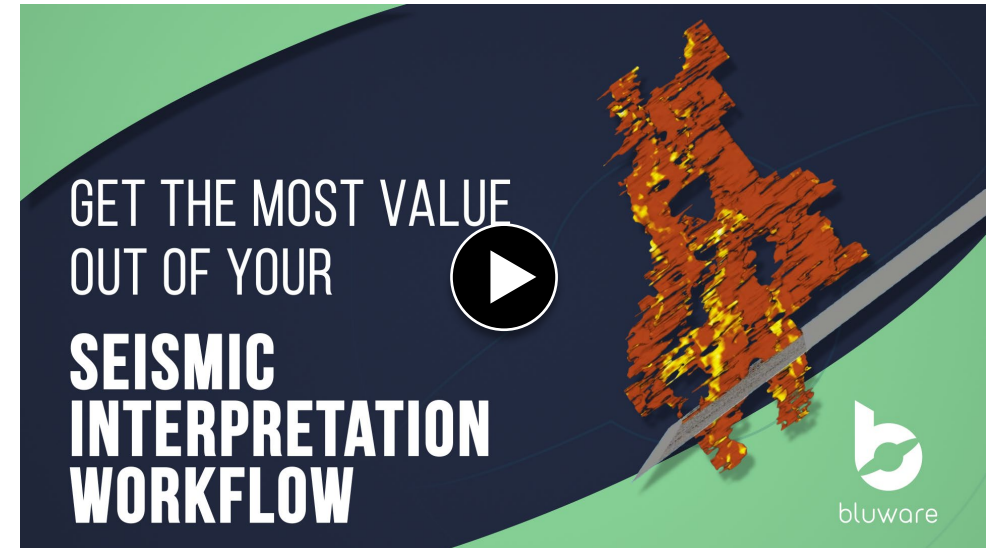
Solution

- Reduce traditional interpretation workflow turn-around-time from months to days to hours.
- Eliminate seismic data duplication by as much as 15X. Consume both pre-stack and post-stack seismic data directly and avoid cropping, decimating, or rasterizing seismic traces. Reduce storage costs by an average of 10X by using Bluware VDS over SEGY.
- Eliminate data preparation tasks such as blocking, randomizing, and record file creating.
- Inspect interim inference results in milliseconds. Pause and resume network training until the results converge to your expert judgement.

Benefits

- Accelerate your organization's energy industry digital transformation to the cloud by taking advantage of storage efficiency, legacy app integration, and immediate value from cloud deployments using deep learning.

Live [Demo on Microsoft Azure Energy Data Service](#) :



[Learn how to get the most value out of your seismic interpretation workflows](#)

"Together Bluware and Microsoft jointly play a key role in the ongoing digital transformation for energy companies searching to reduce data storage costs and make smarter decisions about the subsurface utilizing ALL of their data."