ASPEN GEODEPTH™

An Integrated System for Highest Quality Velocity Modeling and Depth Imaging

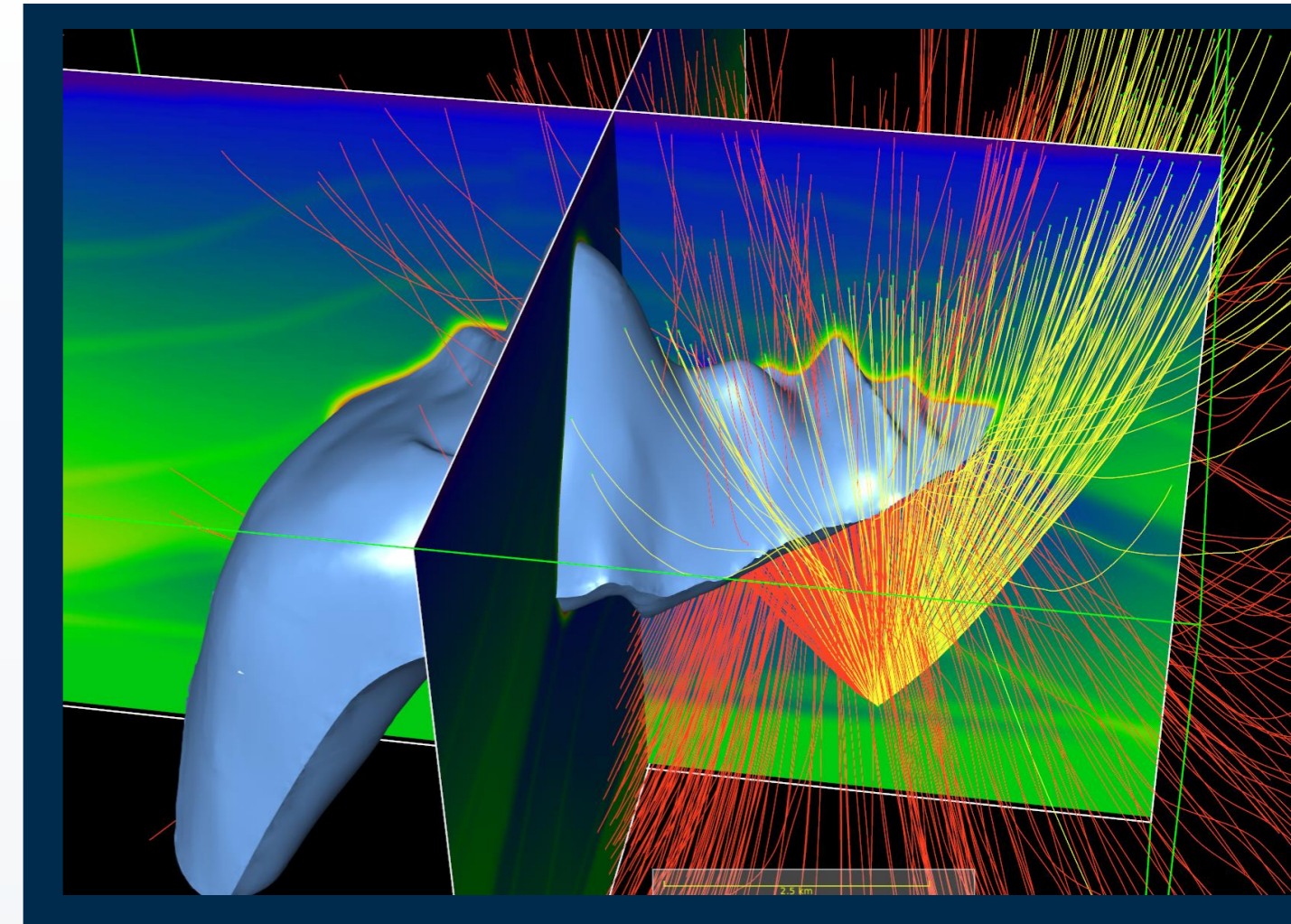2023

aspentech

Create accurate, high-quality, interpretable seismic images in time and depth.

Oil and gas companies and operators require a highly automated system that can be used for large 2D and 3D datasets for all types of acquisitions and geometries. They need a solution that provides a full option for QC'ing input data and workflow steps, reliable and scientifically-proven results, and minimal user interference.

CHALLENGES

Find an integrated solution that offers high-resolution, accurate results with efficient QC and easy visualization in less time.

IDEAL SOLUTION

A highly integrated system for improved seismic imaging in time or depth that allows easy data sharing between domains.

Fast access and easy 3D visualization of prestack/poststack seismic data and interpretation data for 2D/3D surveys, together with well data.

Enhanced productivity for both multi-line 2D and 3D through highly parallelized and automated procedures.
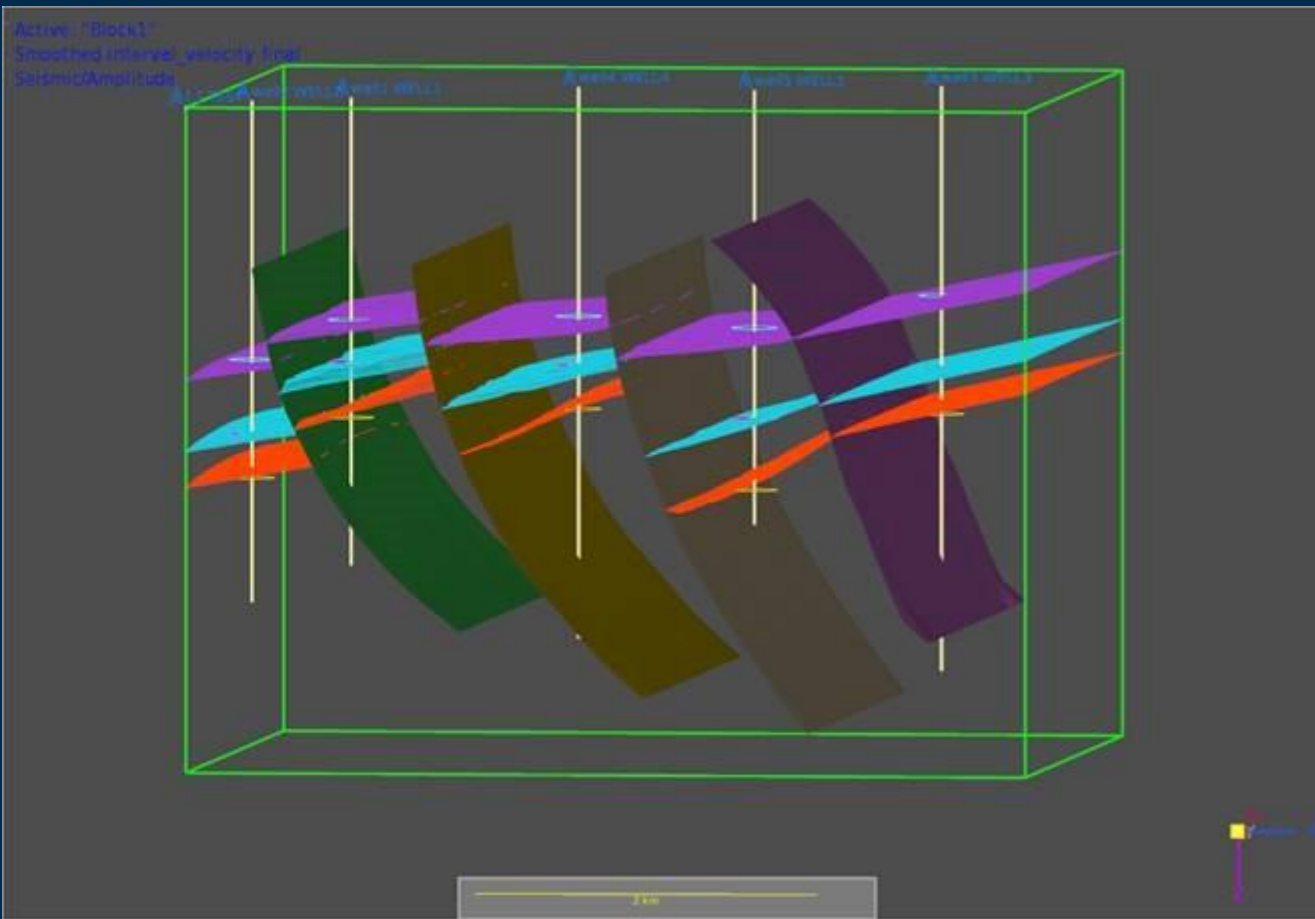
DESIRED OUTCOMES

Solve exploration and development problems associated with the imaging and positioning of a wide range of subsurface geological structures, in order to reduce drilling risk.

Save money by enabling depth imaging to be performed in-house, using an easy-to-learn and user-friendly set of tools.

![aspentech logo]

Aspen GeoDepth

The oil and gas industry's leading software solution for building accurate depth images and velocity models enables easy construction of accurate 3D and 2D models, regardless of the structural geology's complexity.

1 REDUCE DRILLING RISK IN EVERY ENVIRONMENT

A complete suite of interactive and batch velocity analysis tools for anisotropic models easily handles the full range of seismic imaging problems..

2 OPTIMIZE THE VELOCITY MODELING WORKFLOW

Integration with interpretation and modeling solutions streamlines the workflow, while preventing data loss and honoring geologic constraints.

3 ENHANCED PRODUCTIVITY

Highly parallelized for running efficiently on very large 3D datasets and multi-line 2D datasets, on premise or in the cloud.

Aspen GeoDepth & Microsoft Azure

Aspen GeoDepth enables access to best-in-class applications from anywhere with an internet connection. Cloud elasticity translates to infinite compute capacity, enabling the use of HPC applications.

ACCESS TO LATEST HARDWARE ON THE CLOUD

Better performance of AspenTech applications

EASY DATA SHARING

Data sharing between multiple users and domains

SUPPORT FOR AZURE BLOB STORAGE

Support for cost-effective Azure blob storage for seismic

Multi-Azimuth, Multi-Vintage, Prestack Depth Migration Improves Structure and Reservoir Imaging in Offshore Norway

"Today's solutions are capable of handling processing and imaging problems which only a few years ago were considered difficult or impossible to solve."

HIGH-QUALITY SEISMIC IMAGES
The robust GeoDepth velocity model building technique resulted in a reliable final velocity-depth model.

ACCURATE ECONOMIC ASSESSMENT OF RESERVOIRS
The final velocity model, constrained by seismic data, provided information that helped the client to make a more accurate economic assessment of the reservoir, and precisely place the next well.

RELIABLE DEPTH MAPS OF THE RESERVOIR
Advanced technology provided a highly accurate image of the subsurface, enabling the clients to reconcile seismic interpretation with available well data, and produce reliable depth maps of the reservoir.

Aspen GeoDepth

Call for more information: +1-781-221-6400

Ask a question via email: info@aspentech.com

Learn more: [www.aspentech.com/en/partner-network/microsoft]

Link to your Microsoft Commercial Marketplace offer