

Avizo® Earth

The 3D Visualization Software for Geosciences and Oil & Gas

- Manages complex multi-modality information
- Increases understanding of complex datasets
- Simplifies critical decision-making
- Scalable visualization application framework
- Extensible architecture



Avizo® Earth Edition software is a powerful, multifaceted framework for integrating, manipulating, and visualizing your seismic, geology, reservoir engineering, and petrography datasets. Geophysicists and geologists can use this solution to import, manage, interact with, and visualize multiple sources within a single environment.

The Avizo tool is applicable across the full spectrum of visual applications, including seismic data QC, pre-processing, and interpretation; reservoir modeling, characterization, and simulation; drilling planning, flow simulation, and engineering; 3D petrography, core sample analysis, and borehole imaging; and engineering design, training, and simulation.

On-Demand Information

Whether you are a geophysicist, a geologist, or a project manager, Avizo provides you with a global solution for accessing and visualizing all your digital information. Even for very large data volumes of several TeraBytes, you have on-demand access to your most vital multi-modality datasets: seismic data volumes, 3D imaging, flow simulation, 3D grids, and SEGY files. You can work simultaneously on multiple jobs with multiple, powerful 2D/3D views.

On-Demand Performance

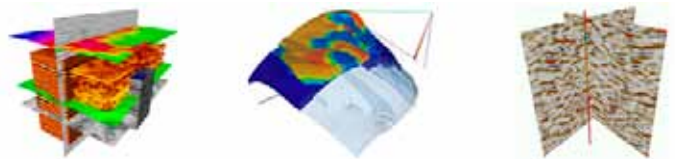
From individual workstations to high-performance visualization display systems, Avizo software is a fully scalable solution that lets you take the best from your IT infrastructure. Avizo can employ the most advanced visualization cluster technology for large datasets and tiled displays, and high-end 3D graphic server technology for powerful distant visualization and immersive VR rooms.

On-Demand Innovation

State-of-the-art visualization techniques provide the foundation for Avizo, simplifying the complex to improve your efficiency, so that you can meet your toughest business challenges. The extensible architecture makes it easy for you to develop new modules, file formats, or types of visualization, and to integrate your own unique computational modules. Avizo's high-quality volume rendering, even for extremely large datasets and intensive GPU use, includes advanced lighting and iso-surface rendering, data transforming, and data combining on the fly.

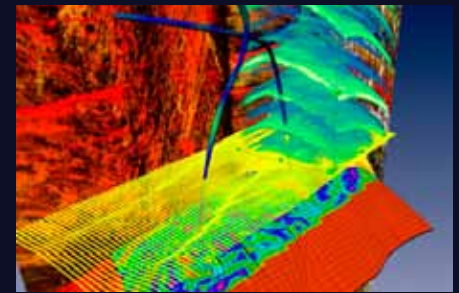
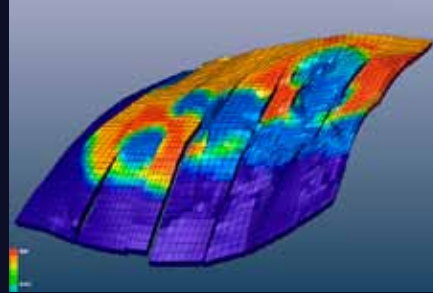
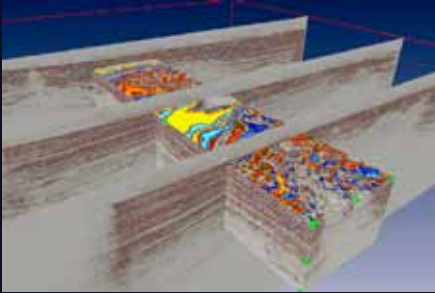
Cost-Effective Collaboration

Using Avizo, you can import your data from multiple sources and integrate it all into a single environment, which frees you to focus on your core competencies. The easy and flexible scripting facility lets you customize Avizo and automate many tasks to increase your effectiveness. Avizo's cost-effective application framework can be integrated into any application or workflow to reduce development investments and enhance teamwork through active collaboration, publishing, and communication. Geographically dispersed experts can interact remotely for reduced cost, and urgent problems can be solved quickly.



Avizo® Earth

The 3D Visualization Software for Geosciences and Oil & Gas



Avizo® Earth Features

- Management and visualization of complex information, large data volumes, and multi-modality datasets
- Ultimate volume visualization technology for extremely large datasets (greater than several TB)
- Faster interactive data loading, even on low-end machines
- Loads and manages multiple datasets to create comparison representations
- GPU-computed lighting and iso-surface, data transforming, and combining
- On-the-fly computation and visualization of attributes and filters
- 2D/3D grid visualization in one application handles structured, unstructured, polygonal datasets for horizons, reservoir characterization, velocity modeling, and drilling representations
- Allows representations such as contours and iso-surfaces, vector fields, streamlines, cutting or clipping with an arbitrary plane, volume of interest, mesh cutting along well path, and probe
- Powerful image segmentation and geometry reconstruction tools
- Handles time-dependent data
- Outputs high-quality images and animations for presentations
- Reads data from numerous sources, including SEG-Y, CPS3, and IESX file formats, LAS
- Extensible environment for custom readers, data processing, and 3D representations
- Scalable from workstation to graphic cluster, visualization SMP server, and immersive VR system
- Stereo viewing
- Automates standard operations to save time and provide a consistent workflow
- Ready-to-use application framework with an intuitive and flexible interface

More Bricks for Building Solutions

VSG provides a full range of software and hardware components that can help you create added-value solutions for the oil & gas industry:

- Open Inventor® by Mercury with the VolumeViz LDM extension is the de facto standard for high-level 3D programming in the oil & gas industry.
- VSG's professional services include custom engineering, training, code optimization, migration assistance, and custom development to cover the whole life cycle of your project.

Supported Platforms

- Windows® XP /Vista 32-/64-bit
- Linux® RHEL 4/5 32-/64-bit
- MacOS®X 10.5 32-bit



Avizo is a registered trademark of VSG SAS. Matlab is a registered trademark of The Mathworks, Inc. Open GL and Open Inventor are registered trademarks of Silicon Graphics, Inc. used under license from Silicon Graphics, Inc. All other products mentioned may be trademarks or registered trademarks of their respective holders. VSG believes this information is accurate as of its publication date and is not responsible for any inadvertent errors. The information contained herein is subject to change without notice.
Copyright © 2009 VSG SAS

www.vsg3d.com