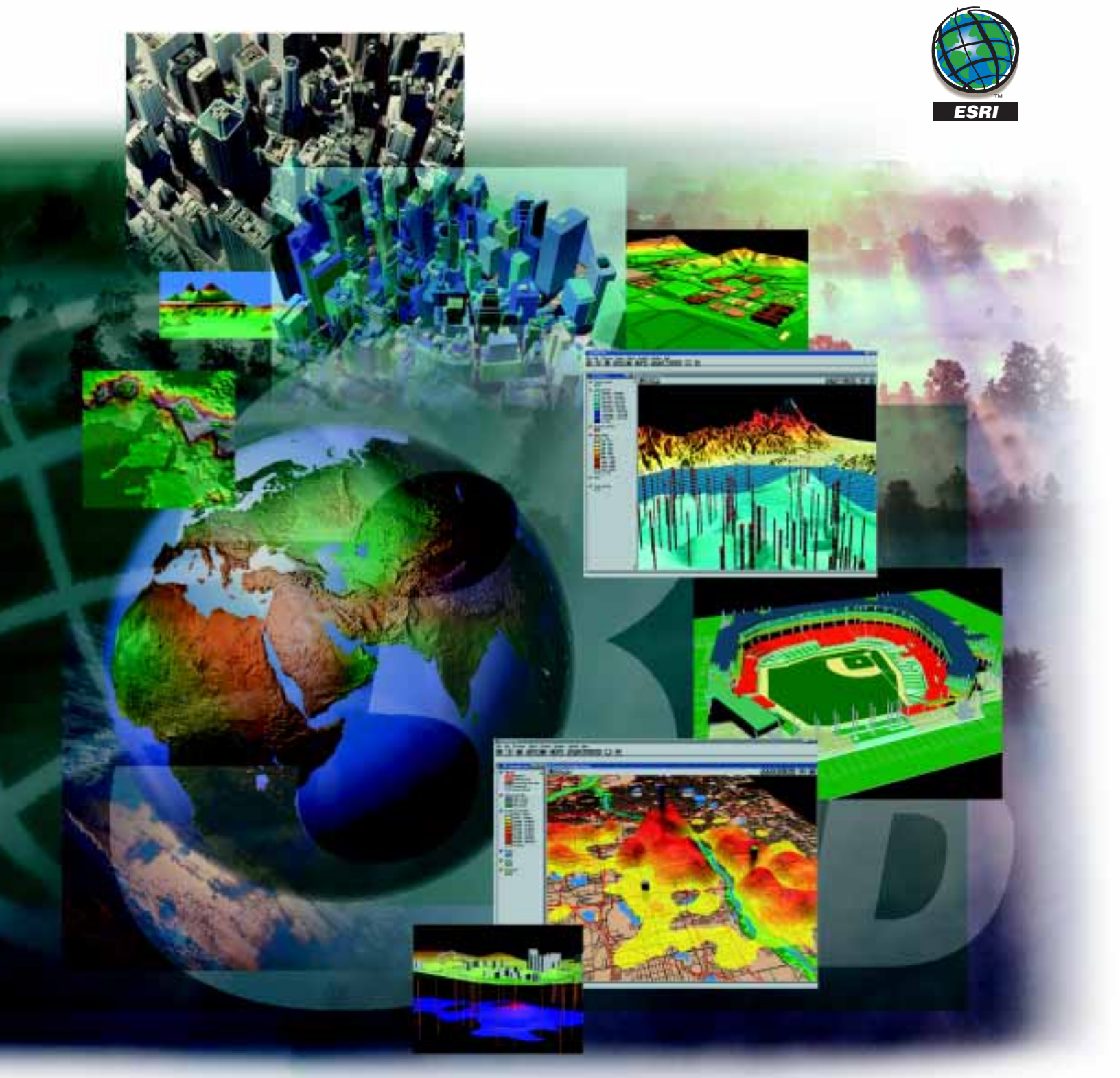


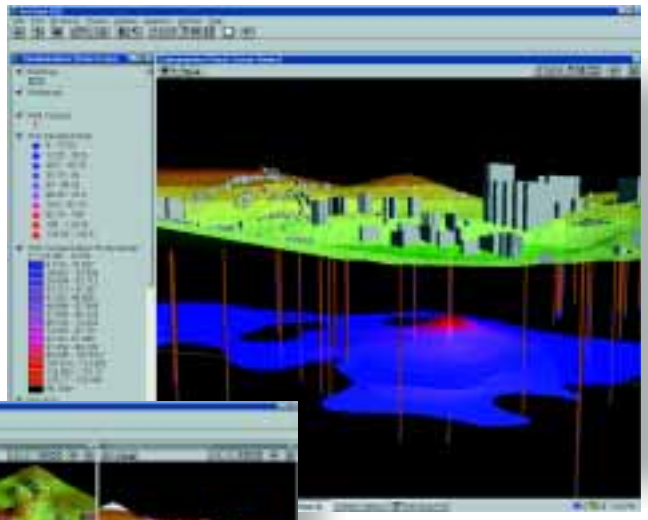
ArcView® 3D Analyst™

Visual Reality—Because the World Isn't Flat

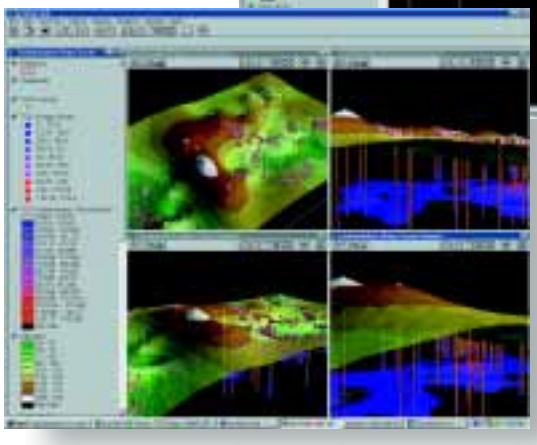
ArcView 3D Analyst

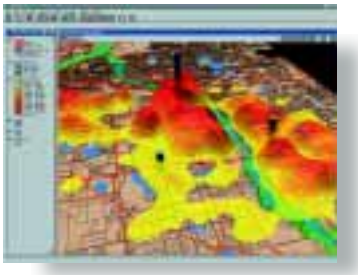
Visual Reality—Because the World Isn't Flat

ArcView® 3D Analyst™ software is the next evolution in geographic information system (GIS) technology. ArcView 3D Analyst lets you interact with your data in the most natural way possible. You already use maps to examine the spatial relationships in your data, now see the effect that mountains, valleys, building profiles, and other three-dimensional objects have on these relationships. With ArcView 3D Analyst you can create dynamic and interactive maps that will elevate your geographic visualization and analysis to a heightened plateau of visual reality.



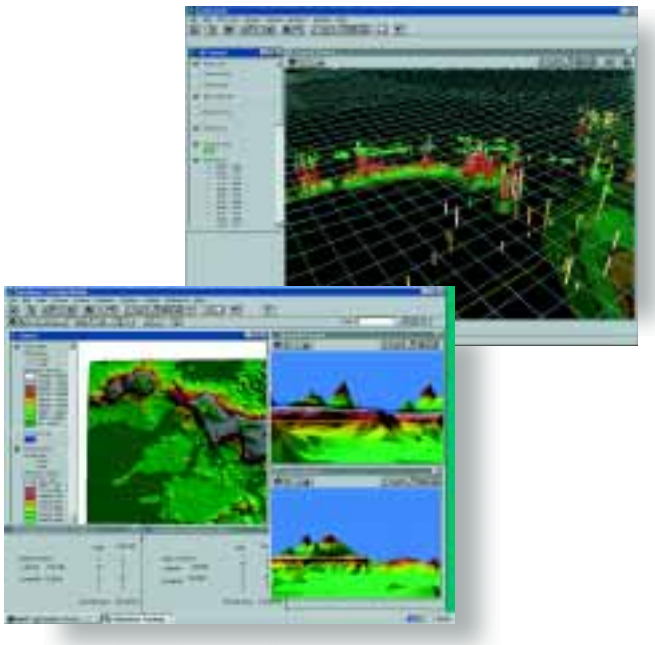
Whether you are planning a world-class downhill ski run, evaluating subsurface hazardous materials dispersion, or performing dramatic fly-through simulations, ArcView 3D Analyst is the solution for interactive perspective viewing and advanced three-dimensional modeling and analysis.





ArcView 3D Analyst lets you...

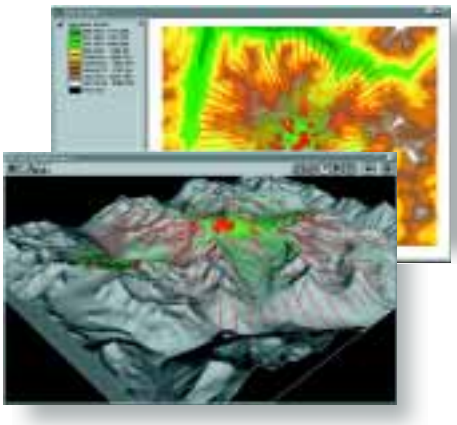
- Generate three-dimensional contours.
- Integrate data from computer-aided design (CAD).
- Perform statistical analysis in three dimensions.
- Create density surfaces from attribute data.
- Perform line-of-sight analysis and create three-dimensional visibility maps.
- Work with most common data formats
- Build true three-dimensional surface models from any point data source (including GPS).
- Model real-world surface features such as buildings. Also model subsurface features—wells, mines, groundwater, and underground storage facilities.
- Drape two-dimensional features or image data on three-dimensional surfaces and have complete access to tabular data via interactive query.

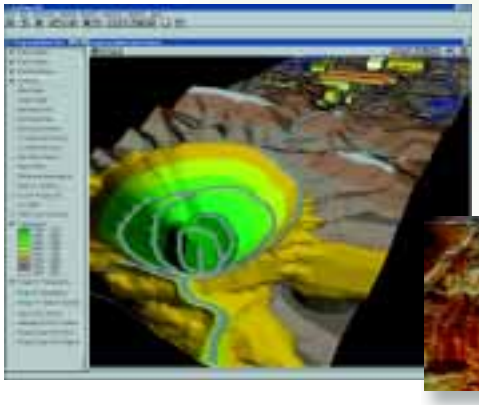


Visualization and Analysis

ArcView 3D Analyst provides a rich suite of methods for interactive perspective viewing including pan and zoom, rotate, tilt, and fly-through simulations. The high-quality, realistic three-dimensional scenes you create using ArcView 3D Analyst are easily turned into stunning animation sequences that make the presentation of your analysis even more compelling. And, perspective scenes can also be quickly converted to VRML for display on the Web!

Also included are advanced tools for three-dimensional modeling and analysis applications. With ArcView 3D Analyst you can perform view-shed and line-of-sight analysis, coupled with spot height interpolation and profiling. Engage in steepest path determination and contouring, plus calculate surface area and volumetrics, slope, aspect, and hill shade.





Mining Case Study

New to Three-Dimensional Data?

ArcView 3D Analyst supports three primary data types for modeling features in three dimensions—grids, triangulated irregular networks (TINs), and three-dimensional shapefiles.

Create grid surfaces by importing data from widely available data sources including U.S. Geological Survey digital elevation models (DEMs) and National Imagery and Mapping Agency (NIMA) digital terrain elevation data (DTED). TINs are fast, efficient, vector-based representations of surfaces that can be derived from any existing ArcView GIS feature theme. The TIN surface model supports the most demanding applications by precisely honoring your source data and accurately representing critical surface features through the use of breaklines. Attribute information may be assigned to both the nodes and facets of a TIN to facilitate advanced surface modeling and analysis. ArcView 3D Analyst includes tools for editing the Z value of individual nodes, and nodes can be moved or deleted as necessary.

And converting your data is not required! Any two-dimensional ArcView GIS feature theme can be draped onto a three-dimensional surface (TIN or grid) on the fly! ArcView 3D Analyst can also drape a variety of image data sources (satellite images, aerial photographs, scanned images) onto surface features, adding visual texture and content to your three-dimensional mapping applications.

Supported Platforms

ArcView 3D Analyst is available for Windows® (95/98 and NT) and select UNIX® platforms. ArcView 3D Analyst requires ArcView GIS Version 3.x software.

For more than 25 years ESRI has been helping people manage and analyze geographic information. ESRI offers a framework for implementing GIS in any organization with a seamless link from personal GIS on the desktop to enterprisewide GIS client/server and data management systems. ESRI GIS solutions are flexible and can be customized to meet the needs of our users. ESRI is a full-service GIS company, ready to help you begin, grow, and build success with GIS.

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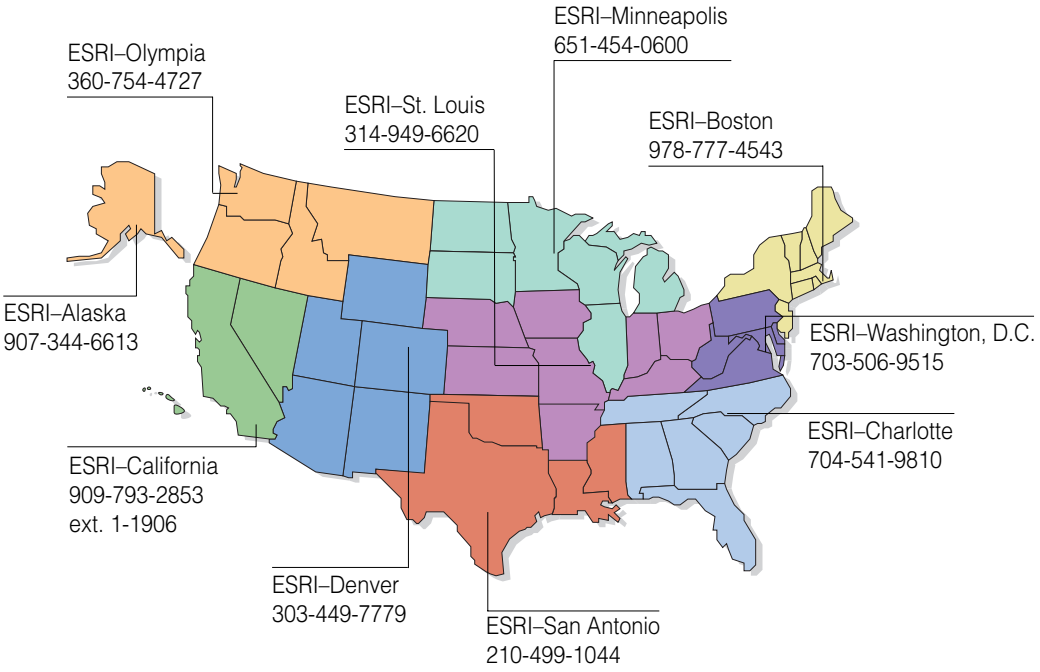

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