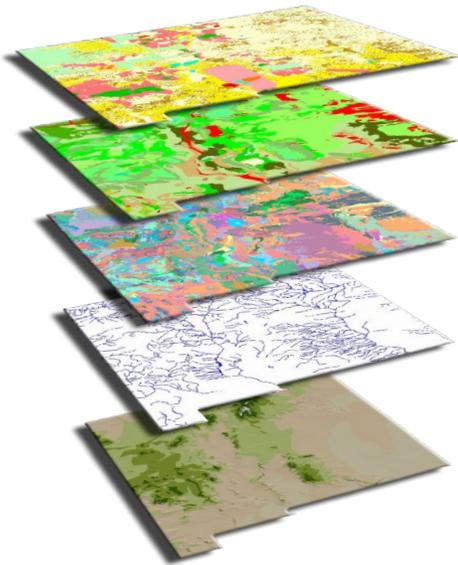


Information Solutions

DBS&A provides Information Solutions services for a wide range of environmental and science applications. We regularly integrate disparate data sources for analysis and develop deliverables that are comprehensive, technically accurate, and effective.



GIS provides the ability to analyze the relationships between different types of data in a spatial context and to reach conclusions about these relationships. We use GIS to assess existing water resources, develop management plans, support water rights claims, evaluate conveyance and infrastructure, and conduct computer models for predictive impacts.

Geographic Information Systems

GIS is a system of computer software, hardware, and procedures that is particularly useful for managing large amounts of data associated with complex site investigations and large-scale water resources studies. GIS brings together all of the data into a coherent whole and allows cost-effective and efficient data management querying, analysis, and presentation. DBS&A has maintained state-of-the-art GIS and database development capabilities since 1996. As a business partner with ESRI, DBS&A is identified as a leader in GIS capabilities in the West. Our specialized expertise, enhanced by years of environmental investigations in semiarid areas of the western U.S., is invaluable to public and private entities faced with environmental and resource management issues. Our team members design comprehensive GIS for hundreds of water resources, engineering, and litigation support projects and develop stand-alone systems for various local, state, federal, and tribal government agencies.

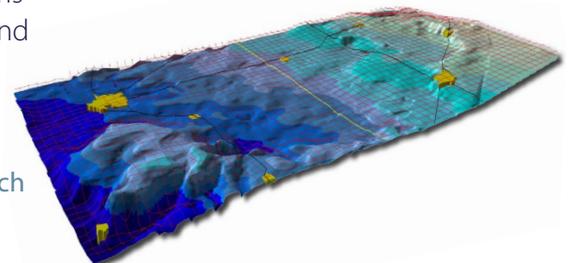
Site Visualization and Analysis

Visualizations are effective tools for accurately depicting site history, features, and processes. DBS&A has the tools and expertise to create state-of-the-art visualizations using geologic, water, and chemical data. Our illustrations, 3D models, and animations range from highly conceptual renderings to data-driven visual interpretations that are defensible in court. They can also enhance project communication and understanding for both technical and non-technical stakeholders.

“ They have good ideas for bringing forward scientific concepts to educate and gather community support to stakeholders. ”

~ Jay Jasperse, Chief Engineer
Sonoma County Water Authority

Mining Visualization System software provides the ability to visualize the relationship between different types of data in a spatial context and to reach conclusions about this relationship.



Daniel B. Stephens & Associates, Inc.

www.dbstephens.com

Custom Applications

Custom data applications make it easy for organizations to manage and use data their way. DBS&A can help by offering high-level web-development capabilities. We assist our clients in managing, developing, or enhancing their data on the web. Our employee-owners include application developers and programmers who create GIS-enabled web and desktop software products that automate tasks and enhance user productivity.

Our programs are created using industry-accepted methodologies and standards, such as relational database designs, best-practice normalization techniques, and abstraction layers to provide manageable and scalable solutions for our clients. In support of our web and application development products, we design and build customized climate- and security-controlled environments. Customized computer services and application development technologies include:

- ◆ Microsoft .NET Framework, a platform for building robust, secure, and expandable applications
- ◆ Enterprise-level servers and storage area networks (SANs)
- ◆ Virtualization (e.g., VMWare, Hyper-V) to accommodate multiple operating systems running concurrently on a host computer

Data Management

Historical data—in the form of reports, tables, boring logs, and cross sections—are often generated by numerous entities over years and even decades. Organizing and analyzing this disparate information is a daunting task. DBS&A routinely imports and integrates these historical data sets into our data management system, allowing our clients to effectively organize and analyze the past to manage and plan for the future.

DBS&A's scientists and in-house programmers cooperatively developed a web-based tool that enables remote users to efficiently access, manage, manipulate, map, and interpret vast amounts of data. The customized, user-friendly interface uses standard industry software and improves collaboration within the work group, and facilitates effective project management and oversight, resulting in time and cost savings.

Performed in association with the Albuquerque District of the U.S. Army Corps of Engineers, DBS&A remotely collected information regarding weather (relative humidity, precipitation, wind speed, solar radiation, temperature, etc.) and physical properties of the vegetative cover (e.g., moisture content in plant species), calculated the fire hazard, and posted the information on a public website for use by the local fire departments and planning agencies.



DBS&A's scientists and in-house programmers develop custom applications that enable remote users to efficiently access, manage, manipulate, map, and interpret vast amounts of data. Our applications combine standard industry software with a customized, user-friendly interface that improves collaboration within the work group and facilitates effective project management and oversight, resulting in time and cost savings.

“DBS&A's strength is synthesizing the data and understanding how we should proceed strategically.”

~ Greg Bushner, Vice President
Vidler Water Company

