

Western Water and Power Solution Bulletin

Research and Development Office — Denver, Colorado

Bulletin No. 35
September 2011

The Western Water Information Network (WWIN)

Enterprise GIS brings baseline geospatial data to the water scientist's fingertips.

What Is The Problem?

Geographic data related to water supply and demand exist in many locations within Reclamation and in other agencies such as the U.S. Geological Survey (USGS), the Census Bureau, and the Department of Transportation. How can Reclamation consolidate these geospatial data to deliver them to water scientists and engineers?

What Is The Solution?

This Science and Technology Program project helps ensure that current, consistent, well-documented geospatial data and related resources are available to geographic information system (GIS) users across Reclamation in a form that can be readily used. We developed a pilot, proof-of-concept enterprise geospatial library that assembled base data layers relevant to GIS projects undertaken to serve Reclamation's mission—the Western Water Information Network (WWIN). During the last months of the WWIN project, a full-blown enterprise application called DataSpace Console was initiated. It is currently available to any ArcGIS user. See the "primer" link under More Information, below.

Who Can Benefit?

DataSpace Console serves as a data access tool for GIS personnel using the ArcGIS Desktop (ArcMap) application that simplifies finding and retrieving geospatial data and imagery managed in Reclamation GIS (BORGIS) distributed data repositories. DataSpace has substantially reduced the number of hours that ArcGIS users spend looking for commonly used geospatial data and services. Virtually eliminating the need for employees to locate the most commonly used spatial data sets saves from 1 to 2 days of staff time per employee for an average mapping project. In addition, DataSpace developers:

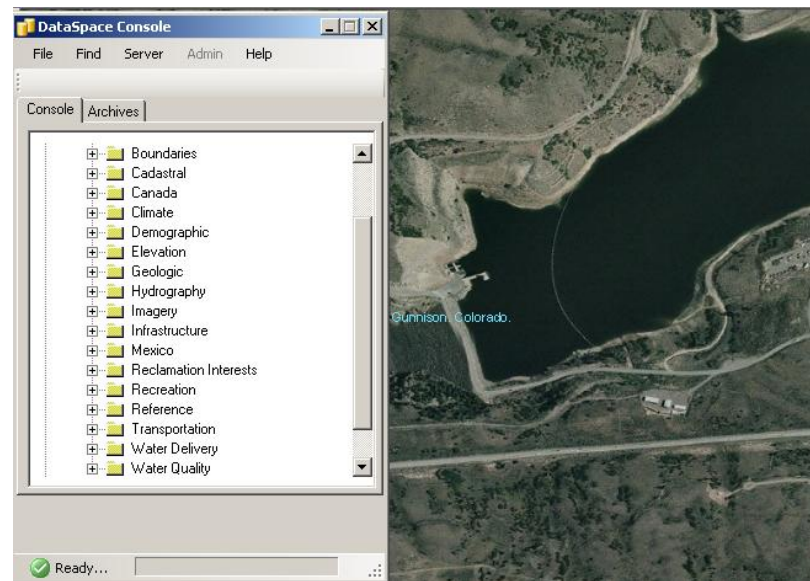
- Contributed to development of a bureau-wide policy on data stewardship and management
- Coordinated with programs like Facilities O&M and Dam Safety to develop and validate the names, locations, and completeness of an inventory of Reclamation Dams
- Worked with a variety of programs and projects to facilitate Reclamation's ability to share geospatial and other types of data with external partners and stakeholders

Where Have We Applied This Solution?

Water scientists, managers, and project planners across Reclamation have all benefited from the DataSpace Console.

Future Development Plans

The Reclamation GIS community is currently working with other U.S. Department of the Interior agencies to make DataSpace available to them.



Blue Mesa Reservoir. Aerial imagery was made available through DataSpace.

More Information

A primer for DataSpace is at:

http://ibr1pnrpgis001/sites/GISCommunity/Data%20Management/BORGIS_DataSpace_Console_User_Guide_v2.0.pdf

All of the enterprise GIS applications are on our intranet site:

<http://ibr1pnrpgis001/sites/GISCommunity/default.aspx>

Contact Information

Douglas Clark, drclark@usbr.gov 303-445-2271

Kurt Wille, kwille@usbr.gov 303-445-2285