Evolving RWIS to RISE: The Vision for the Reclamation Information Sharing Environment
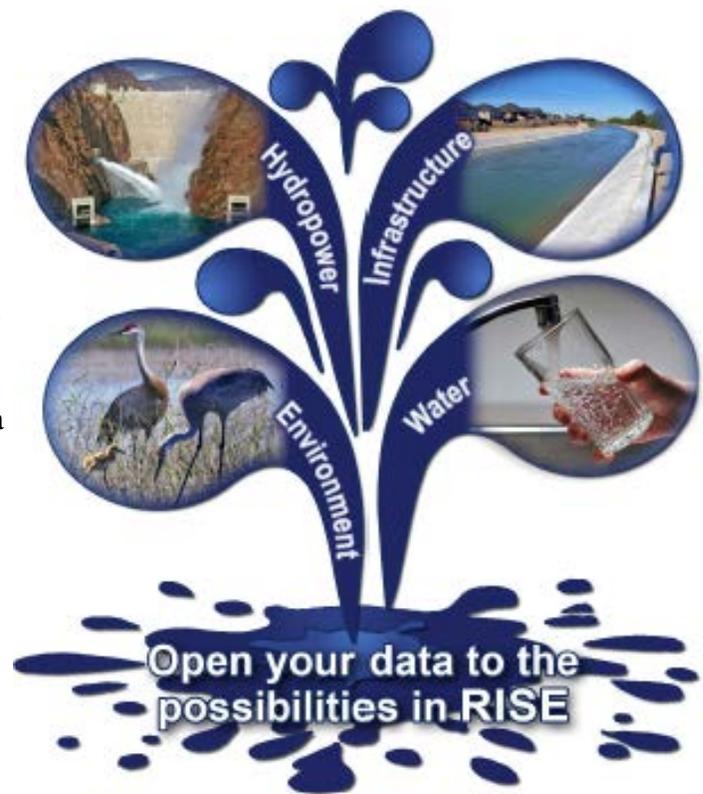
RWIS Pilot Website: water.usbr.gov
RISE/RWIS Team Contact: rwis@usbr.gov

Vision

RISE will be a system for aggregating, storing, managing, and publishing a variety of data and information in support of Reclamation's mission. RISE will evolve from and absorb the existing RWIS pilot system to become a mature, sustainable application. RISE will:

- **Support data access** and use for internal and external users, including Reclamation staff, partners from Federal, State, and local agencies, and stakeholders such as water and power users, researchers, media outlets, and the general public.

- **Standardize and centralize Reclamation's data publication** to provide access to Reclamation's mission-related data in a single portal in common, machine-readable formats.

- **Comply with open data policies** and coordinate with other data management efforts

At its core, RISE must reliably and efficiently serve a significant data catalogue in machine-readable formats. If this is achieved, it will provide the foundation upon which to build a use base and address the additional and evolving needs in subsequent minor and major RISE releases. RISE is envisioned to be the centerpiece of Reclamation's approach to finding, accessing, and using Reclamation data. Accordingly, development choices should be robust, expandable, and facilitate long-term system operation and maintenance.

RISE 1.0.0

The Reclamation Information Sharing Environment (RISE) version 1.0.0 is expected to launch in late 2018. This evolution will include enhancements to existing aspects of RWIS and expansion of the system to add new system components and functionality, including the following:

- **Expanded data availability**, including the expansion of record lengths and available locations and parameters for water data, the addition of hydropower and environmental data, the expansion of support for time series data, and addition of support for geospatial and binary data.

- **Improved visualization of data** in response to the aforementioned increase in supported data diversity

- **Improved site performance and reliability** in order to effectively serve the role of Reclamation's primary data portal, data requests must be served in a timely manner and the site must have high functional reliability

- **Additional application functionality** (including APIs) and associated IT infrastructure to support serving a range of data types and file formats (e.g. binary and GIS)

- **New ability to communicate with site users** (e.g. for use in feedback/contact functionality)

- **New ability to append standardized metadata** to data requests

- **New user accounts** with user permission levels, preferences, and settings

BeyondRISE1.0.0

Subsequent minor and major versions of RISE will be driven in large part by user feedback/needs. As RISE grows in use, the following functionalities may be included in RISE:

- **Expanded data availability,** including the expansion of existing data types and domains and the addition of infrastructure/assets data

- **Expanded user account functionality**

- **Ability to select to publish/register RISE metadata** entries with platforms such as data.gov

- **Ability to display/link/or "suggest" other data sources** that may be of interest – through the map interface and query tools (e.g. USGS streamflow sites)