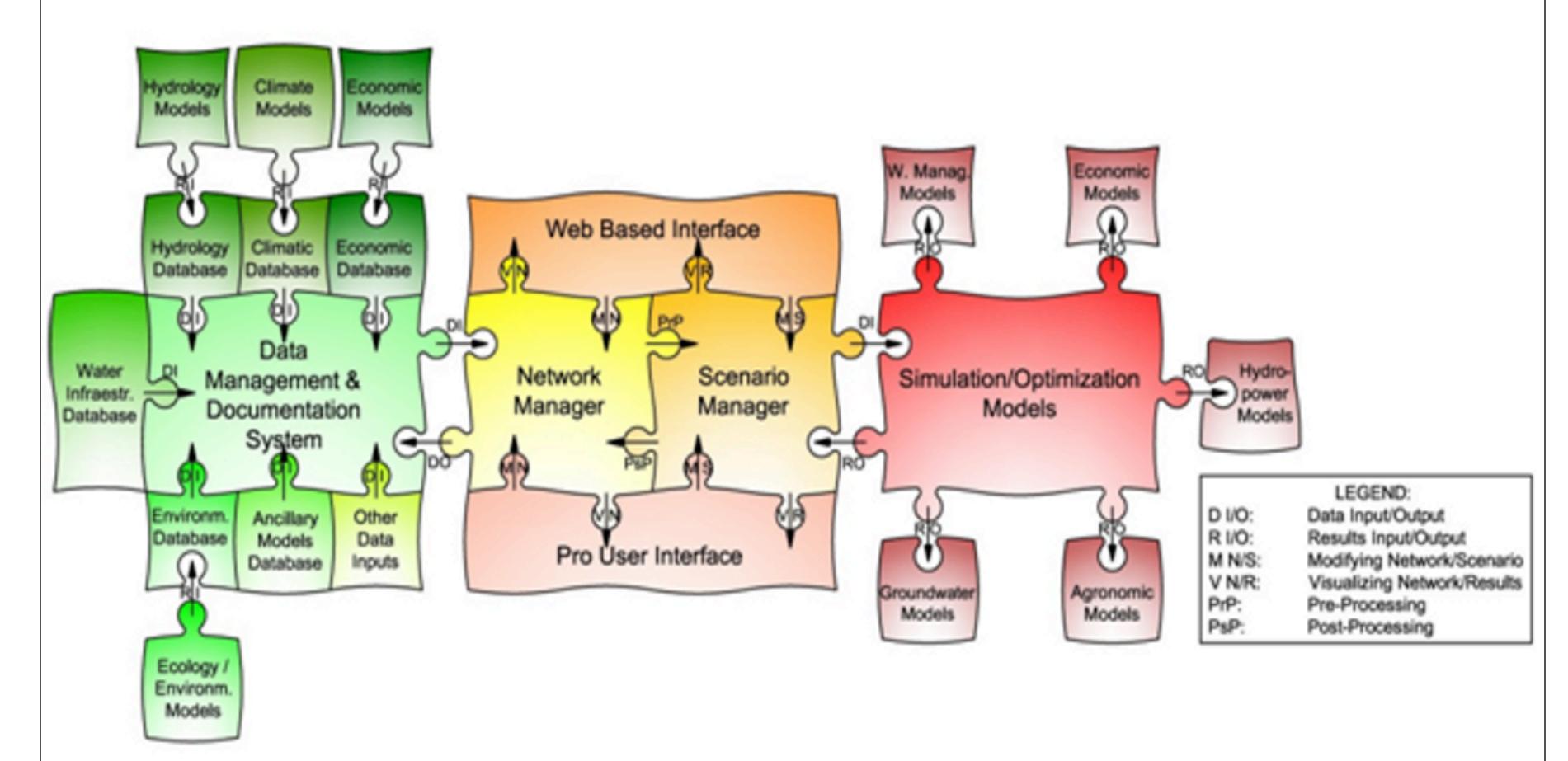


The HOBBES Project Update

Quinn Hart, Josué Medellín-Azuara, Samuel Sandoval, Jay Lund, Alvar Escriva-Bou, Rui Hui, Mustafa Dogan, Karandev Singh, and Nicholas Santos (University of California, Davis)

1. HOBBES Overview

- Water resource management in California is often extensive and complex and deserves a comprehensive data and modeling approach.
- The Hobbes Project is a new effort to provide a venue for modelers in California and elsewhere to create an open, organized and documented quantitative representation of the state's intertied water resources system.
- Geocoded elements can be interactively converted into tiered networks able to be solved by multiple modeling platforms, with the appropriate translators.
- Many Hobbes tools will be web-based with exporting capabilities to the most common analytical and modeling software.
- The Hobbes Project will include:
- Database standardization and data documentation
- Geocoded data element representations
- Open platform with web access
- > Ability to transform database elements into documented model inputs
- > Focus on data and database structure, organization, documentation, not specific models



2. CALVIN: CALifornia Value Integrated Network

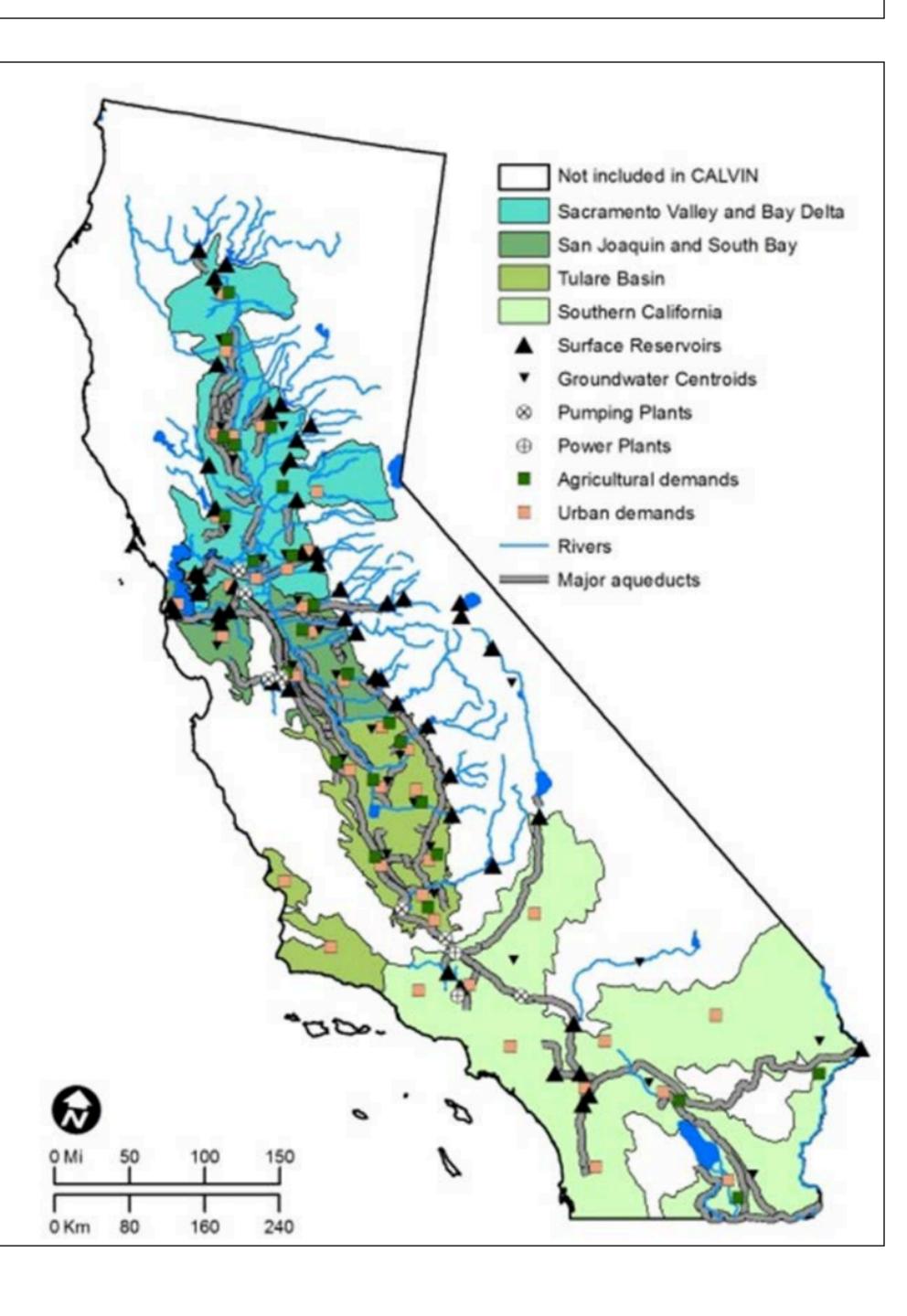
- Hydro-Economic Model
- Surface and Groundwater
- Major intertied network
- Provides a Quantitative

Understanding of System

Helps Organizing Data and

Documentation

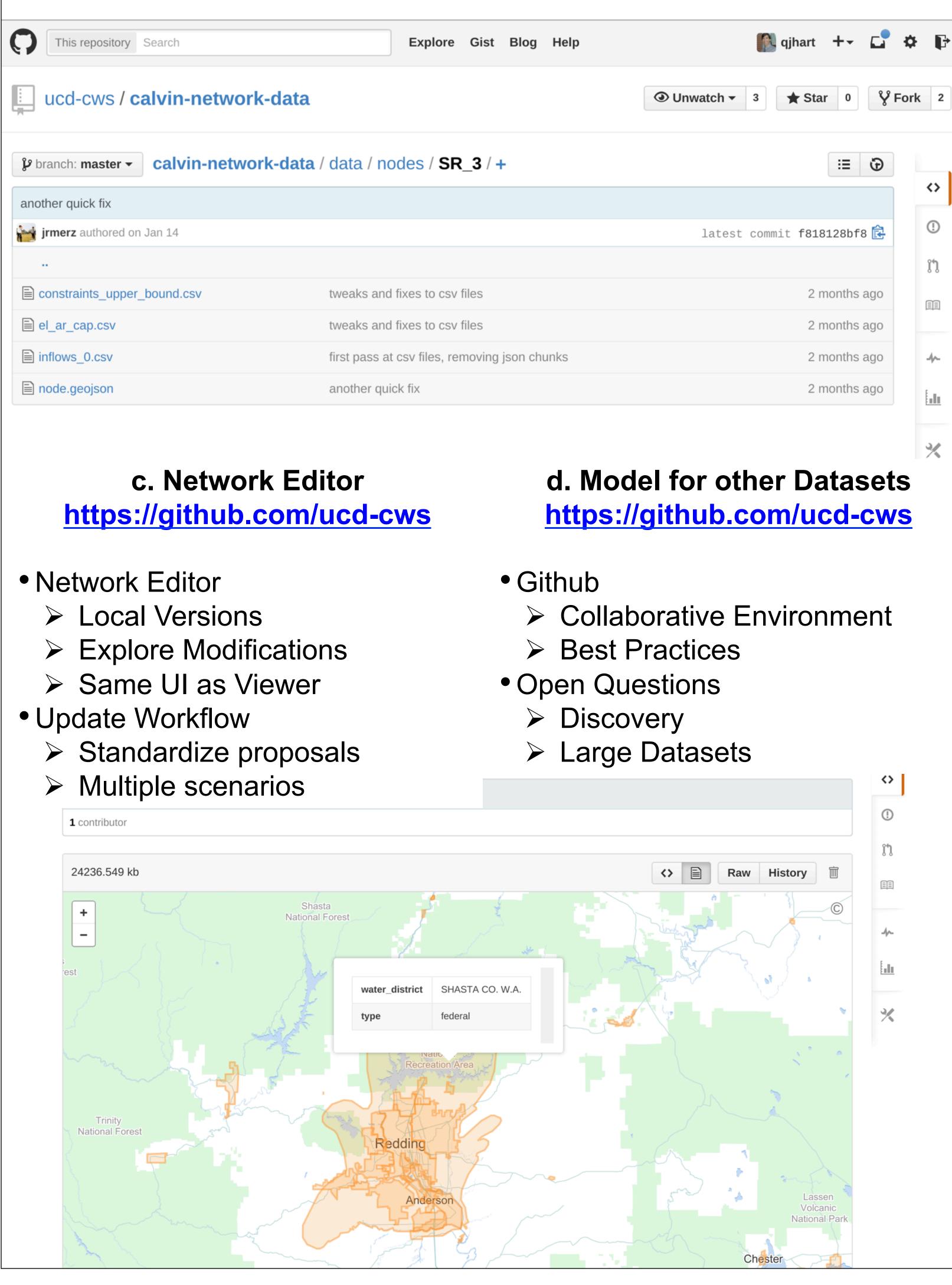
Reference for HOBBES



3. Updates on Visualization (hobbes.ucdavis.edu) HOBBES Date Range Climate Elevation / Area / Capacity Constraints elevation area initial

4. Other Updates

- a. Standardize Data Sets
- Simple Web Interface
- Web API
- > JSON / JSON Schema
- Collaborative Development
- Open Content Tools
- Easy to browse Intermediate format
- b. Collaborative Development https://github.com/ucd-cws
- Easy Access
- Treat Charge
- Track Changes
- Track Issues
- Allow "forks"
- Requires Filesystem Representation



5. Conclusions

- The HOBBES project has made solid progress in becoming a framework to support water modeling efforts for California.
- HOBBES use cases, visualization and network editor interfaces online are being been developed
- Upcoming workshops to drive-test visualization interface and other features from the HOBBES project will provide valuable feedback