

The Role of CSU Chico and CSU Northridge in 3D Hydrography Data Development for California

CGIA Community Forum: 3D Hydrography for California

Thursday, 02/12/2026: 12:00PM – 1:30PM



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CGST/NSPDC Introduction

- GIS research centers at CSU, Northridge and CSU, Chico
 - Established collaboration of over 15 years
- Active in hydrographic data production for California since 2010
 - Pre-NHD Work/NHD Update Pilot Work
 - NHD Update and Stewardship Work
 - EDH/3DHP Pilot Work
 - EDH/3DHP Production Work



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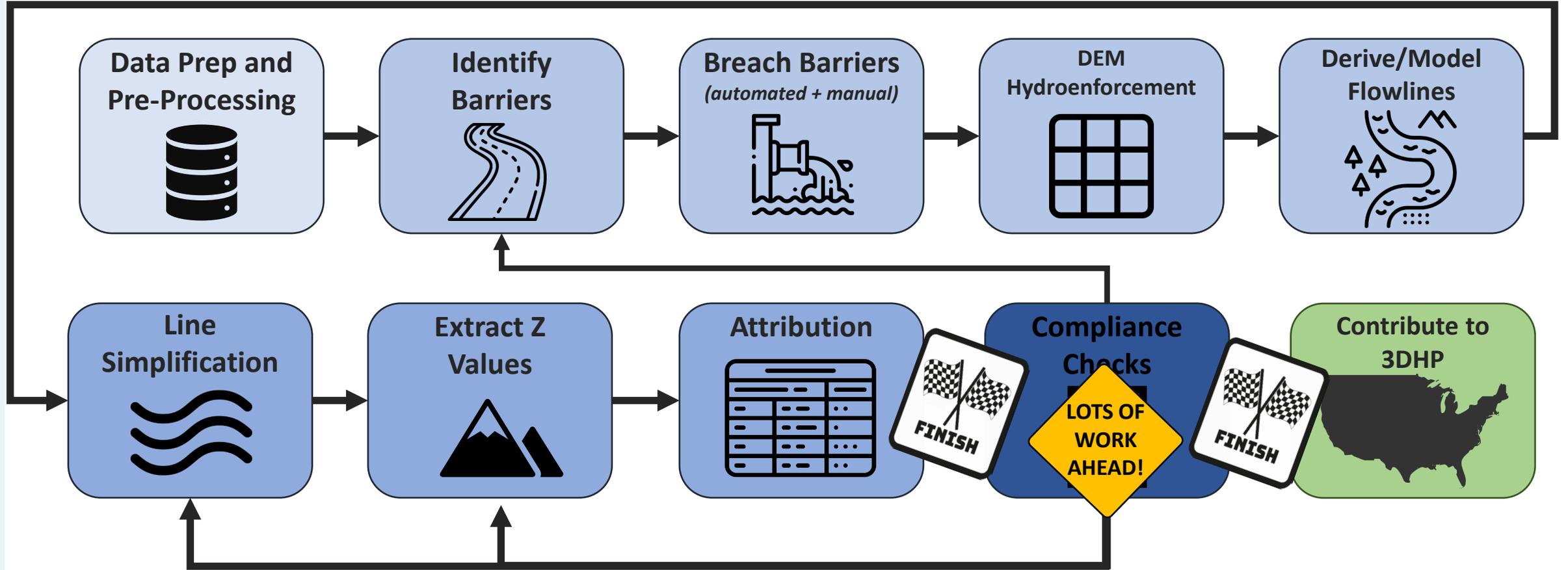


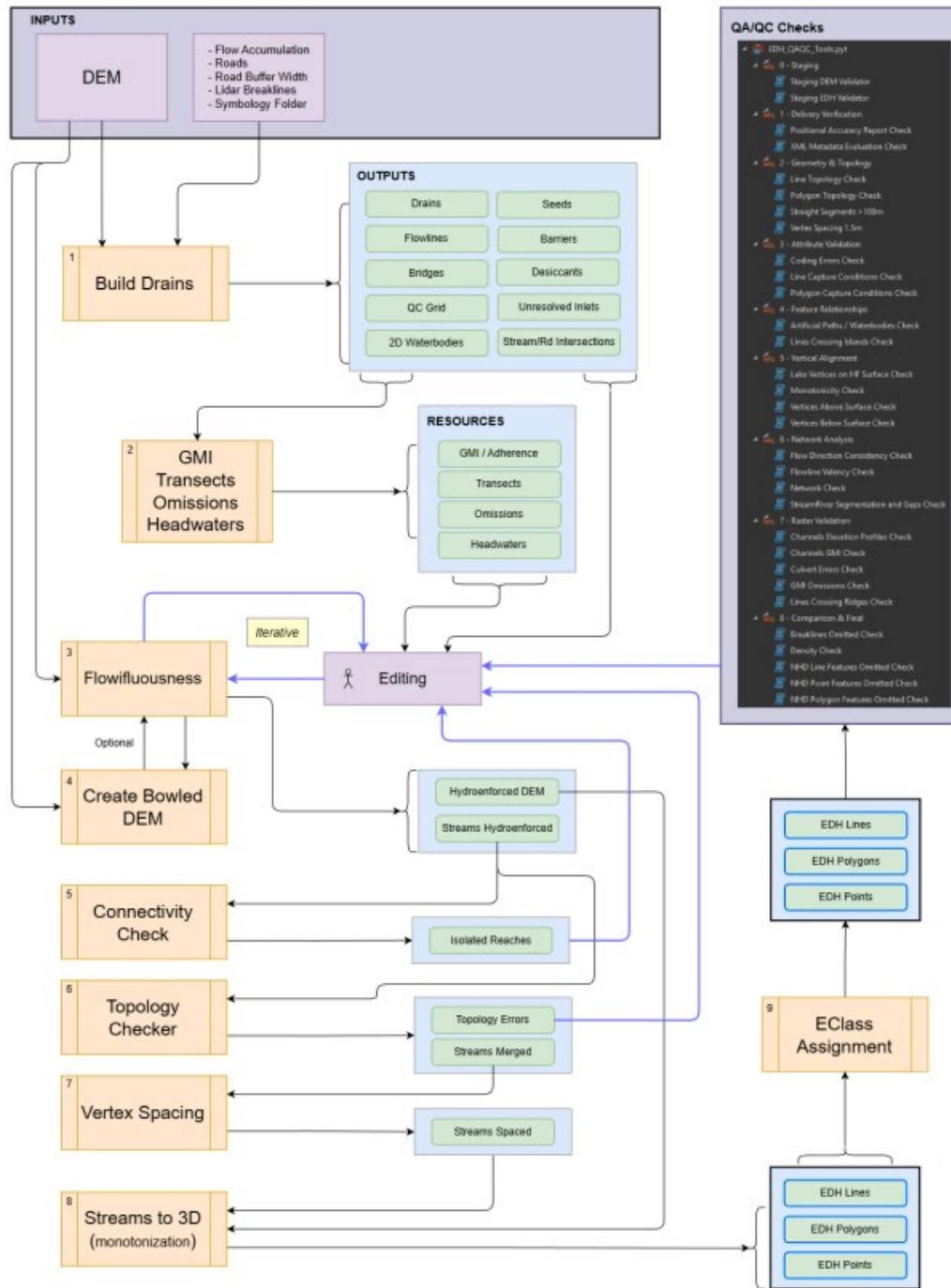
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EDH and 3DHP Partners and
Collaborators:



Hydro Derivation Process

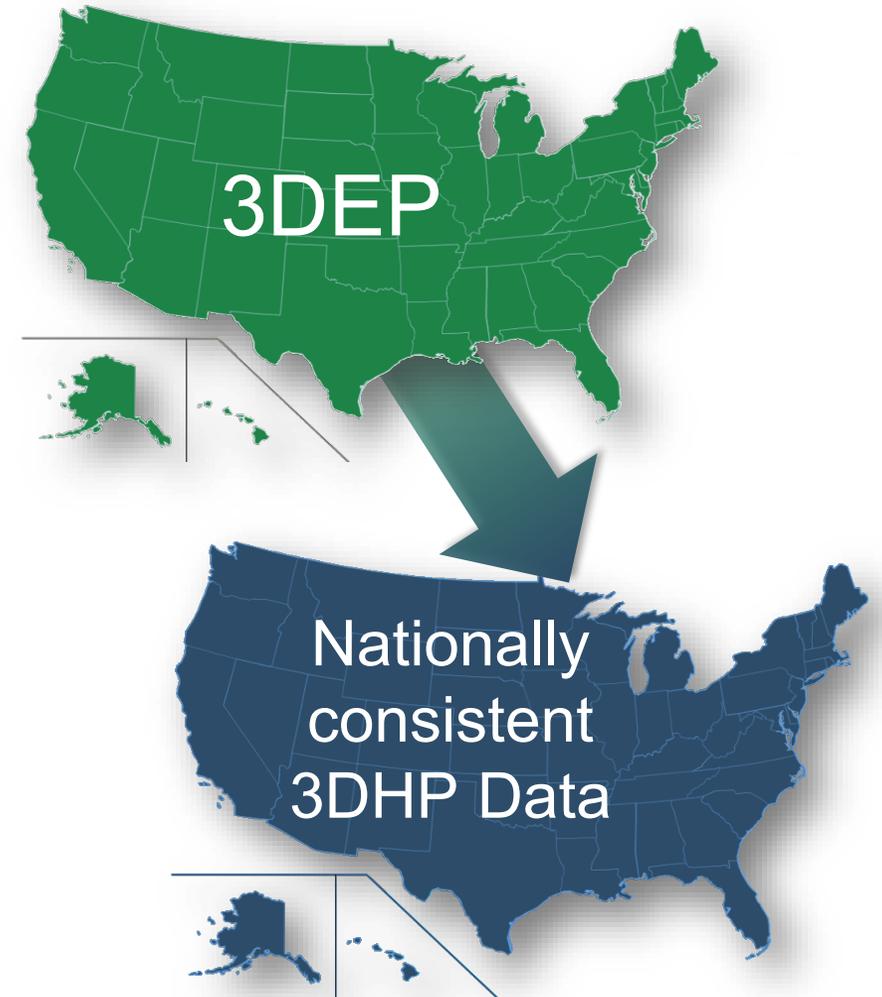




Data acquisition

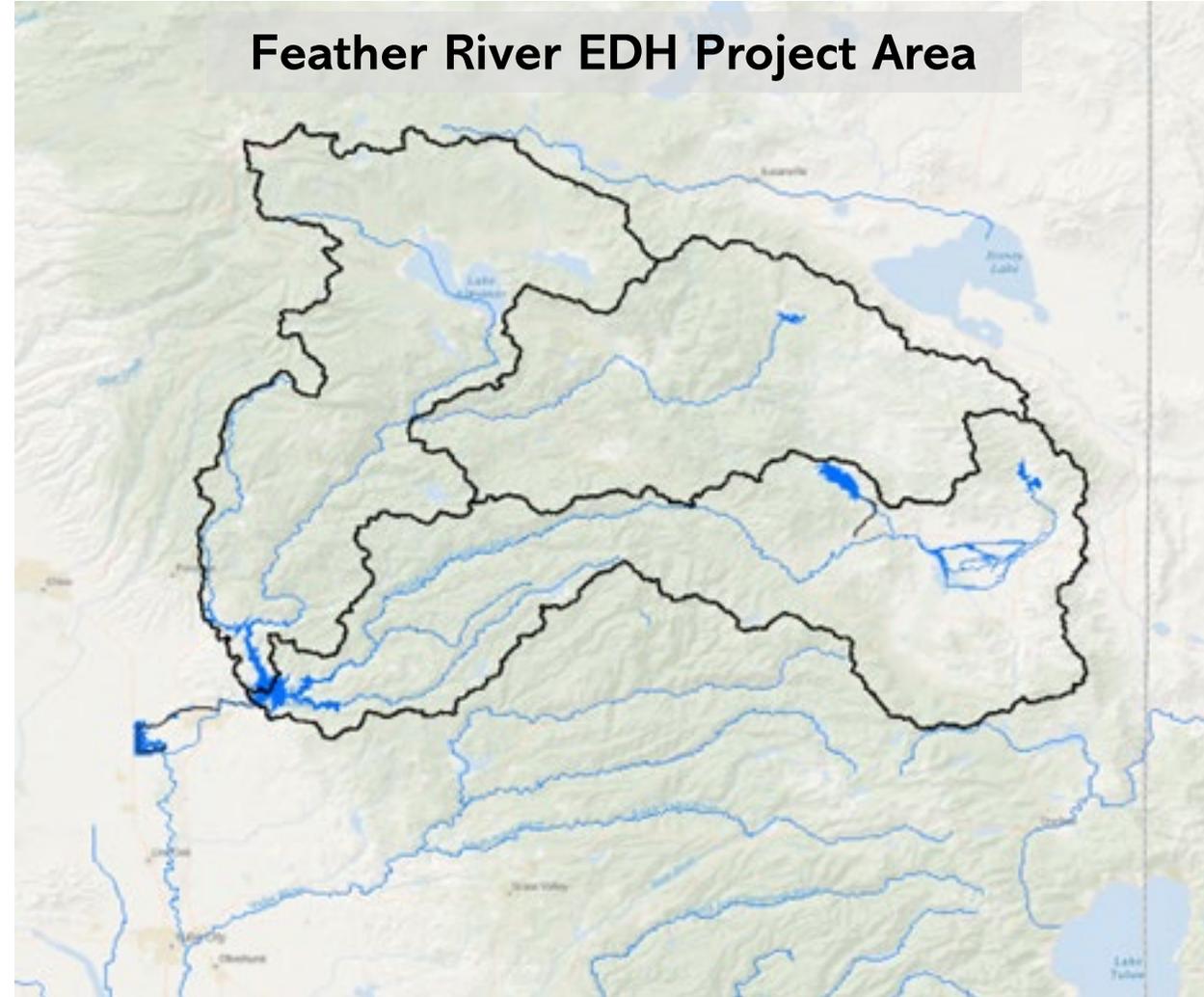
Data Collaboration Announcement (DCA)

- The DCA is the mechanism used for non-federal entities to partner with USGS and other Federal agencies to acquire high-quality hydrography data for 3DHP
- Open to Federal agencies, State and local governments, Tribes, academic institutions and the private sector
- Applicants are encouraged to build funding coalitions to pool resources to fund 50% or more of project costs
- 3DHP “matching” funds added to cover remaining costs



Current USGS DCA

- Successfully submitted a FY25 DCA proposal for the Upper Feather River Watershed for EDH production.
 - In collaboration with CA DWR (co-op agreement).
 - Currently in progress!
- Submitted 2 additional DCA proposals for FY26.
- Waiting on USGS announcement of funded projects.
- Continue outreach to work with others in the space.



Outreach, Engagement, and Education

- **Technical Talks**

- Knowledge Sharing
- Tool and Methods Updates
- Stakeholder Feedback Intake

- **DCA Collaboration**

- Building Coalitions
- Cost Sharing
- Identification of Priorities
- General Coordination

- **Need for Reference Data**

- Infrastructure Data (culverts, bridges)
- Roads and Trails
- Field-Collected Stream Data



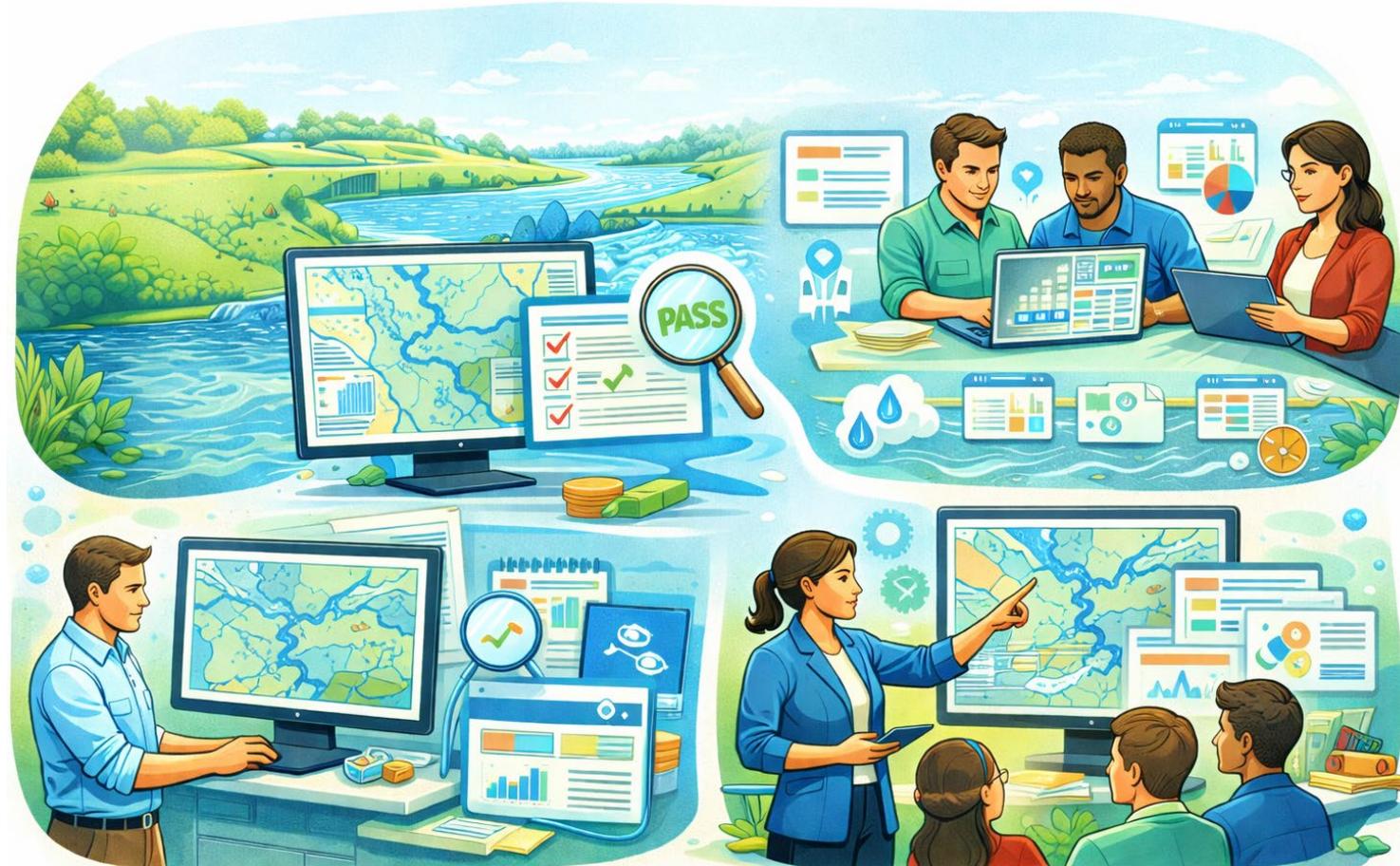
Outreach, Engagement, and Education

- **Future CA Hydrography Portal**
 - Product and Resource Sharing
 - ✓ Final Data
 - ✓ Interim Data
 - ✓ Reference Data
 - ✓ Tools
 - ✓ Documentation
 - ✓ Training Material
 - News, Updates, and Reports
 - ✓ CA Status Maps and Dashboards
 - Stakeholder and End-User Engagement
 - ✓ Data Reviewer and Markup



Technical Assistance

- Data Production
- Data Assessment and Validation/
QA/QC for USGS EDH Specs
- Workflow Assessment and
Development
- Eventual Tool Sharing and
Training



Thank you!



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CALIFORNIA DEPARTMENT OF
WATER RESOURCES

Upcoming Events

**AWRA 2026 Geospatial Water
Technology Conference**

May 18-20, 2026

Niagara Falls, NY

ESRI User Conference 2026

July 13–17, 2026

San Diego, CA