Sharing and Integrating Water Data for Sustainability
PURPOSE
How to create a national framework for sharing and integrate already existing publicly collected water data?

PARTICIPANTS
The Dialogue Series brought ~27 water experts, managers, policy makers, regulators, and representatives from the private and social sectors.
Key Findings

Identify the value of water data

Focus on public data

Internet of Water
Identify the value of water data
Focus on public data

We couldn’t do this... Until we had this.
Create an Internet of Water

- Connecting
- Opening
- Discovering
- Empowering
The Internet of Water (IoW) envisions a world engaged in sustainable water resources management and stewardship enabled by open, shared, and integrated water data and information.
The IoW is building a dynamic and voluntary network of communities and institutions that open and share water data. The network will connect data producers, hubs, and users to make water data more findable, accessible, interoperable, and re-usable (FAIR).
Strategic Goals

Develop common resources for water data hubs and build capacity for open water data

Establish IoW technical framework & common tools

Demonstrate value of open water data through pilot projects

Communicate across sectors and geographies

Develop the IoW organization
IoW Start-Up Team

- Peter Colohan, Executive Director
- Kyle Onda, Data Architect
- Ashley Ward, Engagement and Outreach Associate
- Lauren Patterson, Data Analyst
- Kristen Downs, Policy Associate
- Jeremy Diner, Community Science Consultant

IoW Board

- Jared Bales, CUAHSI
- Kelly Bennett, B3
- Al Cho, Xylem
- Peter Colohan, IoW
- Martin Doyle, Duke University
- Greg Gearheart, CA Water Resources Control Board
- Sam Hermitte, TX Water Development Board
- Sara Larsen, Western States Water Council
- Emily Read, USGS
- Dwane Young, EPA
Common Tools

- Water data glossary
- Federated metadata catalogue of water data, to include stream gauge data, volunteer monitoring data
- Catalogue of standards for water data, metadata, and advanced sensors

Common Resources

- Strategies and best practices for long-term O & M of cloud services
- Tutorials and handbooks for building water metadata & water data catalogues
- Conceptual approaches to building common data models
- Strategies for common cataloguing, connectivity, & interoperability across IoW
Recommendation: Initiate an Internet of Water through regional pilots that solve near-term water management problems for key stakeholders through shared and integrated water data.
1. Design Phase
2. Data Phase
3. Demonstration Phase
Find us on the web: Internetofwater.org