



Center for Advanced Decision Support for  
Water and Environmental Systems (CADSWES)

UNIVERSITY OF COLORADO **BOULDER**

# Welcome to the 2023 RiverWare User Group Meeting



Center for Advanced Decision Support for  
Water and Environmental Systems (CADSWES)

UNIVERSITY OF COLORADO **BOULDER**

Department of Civil, Environmental and Architectural Engineering  
College of Engineering and Applied Science



## Mission of CADSWES...

Provide **Decision Support Tools** to Water Management Agencies that

- Bridge the gap between science and decision-making
- Transform information to knowledge to solve multi-objective problems
- Formulate problems and solutions in terms of risk, uncertainty and deep uncertainty

**Transfer technology** to agencies and other users

**Educate** the next generation of water resources engineers and scientists

# Restarting Sesquiennial RiverWare User Group Meetings

- Hear about interesting applications
- Find out about new/upcoming enhancements and the future of RiverWare
- Meet other users and network
- Get to know the CADSWES Team
- Ask those burning questions
- Voice your opinion about what is needed or what you like/don't like



# The CADSWES RiverWare Team

Project Managers, Water Engineers, Trainers, Help Desk, Modelers:

David Neumann

Mitch Clement

Software Developers:

Bill Oakley

Patrick Lynn

Ryan Lankin

Operations Research Analysts:

Tim Magee

Mitch Clement

IT Support:

Jim Pasquotto

Jordan Scheifer

Licensing:

Jessica Lee

Jordan Scheifer

Finances:

Kathryn Baack

Tech Transfer Coordinator and Office Manager:

Gwen Miller

Director and Project Leader:

Edie Zagona

Faculty Affiliates:

Professors

Joseph Kasprzyk

and Balaji Rajagopalan

Students:

Maddy Pernat

Nathan Bonham

# Who Uses RiverWare?

Bureau of Reclamation – 27 offices

Tennessee Valley Authority – River Operations, Knoxville, TN

U.S. Army Corps of Engineers - 13 offices

12 Federal Agencies, Tribes and Research labs

35 State, City and District Water Agencies

10 Electric Utilities – US and Canada

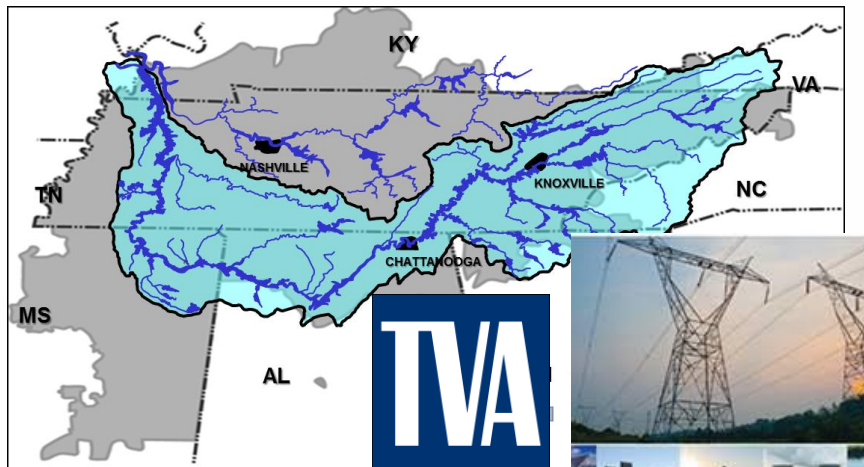
31 Consulting companies and NGOs

12 Universities and research groups

19 Foreign Entities

# User Presentations..... New and Evolving applications

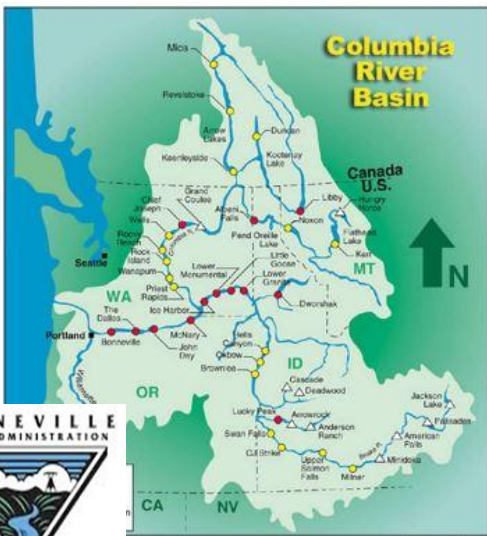
## Colorado River Basin



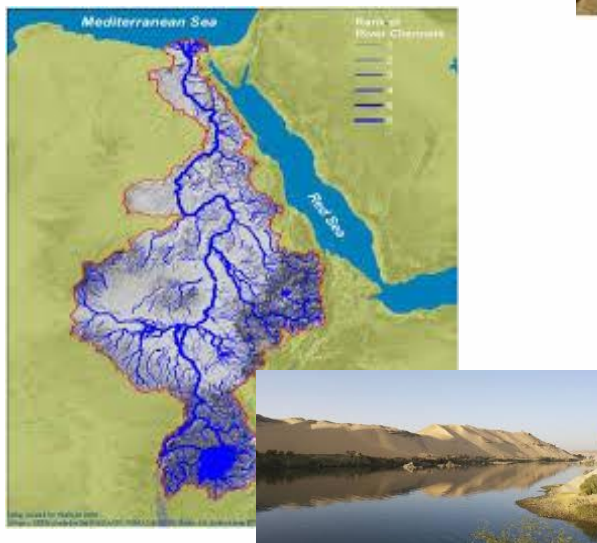
## Truckee-Carson Basin

Also:

- Utah, Colorado
- FIRO – Texas, Wyoming, New Jersey
- MOEA – White River, Colorado Basin
- Texas (transboundary; Tarrant)
- Oklahoma (Tribal water settlement)
- Oregon and California - Klamath
- New Mexico – URGWOM – deep aquifer modeling



## Columbia R. System



## Nile River Basin

# On the Agenda....New in RiverWare!

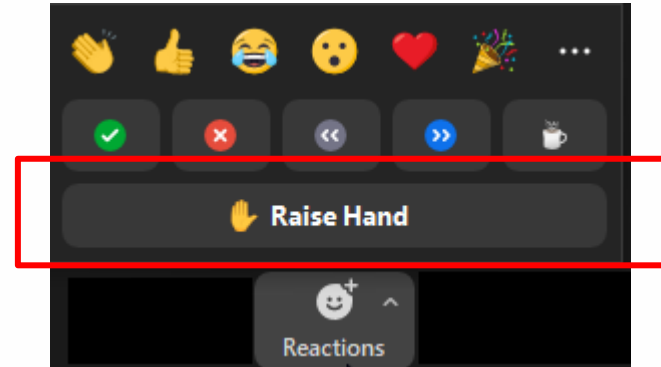
- Ensemble Data Tool
- New Windowing Management
- Web Maps
- Advances in MOEA – RiverWare optimization
- Hydropower optimization
- Advances in USACE tool integration
- SQLite tools and DMIs

What is upcoming?

What are you thinking and wishing for?

# Important Logistics – Online Attendees

- To ask a question
  - Send a Chat, to everyone
  - Raise hand or chat to ask to speak. Then we will unmute you





# Important Logistics – In-Person

- Handouts
  - Agenda
  - List of enhancements
- Speaker's guidelines
  - Microphones
  - Time keeping: 5min and 1min cards
  - Use electronic pointer
- Use microphones for all questions
- Wi-Fi: "UCAR Visitor" network
- Professional Development Hours Certificate
  - On-site attendees only
  - See Gwen

# Happy Hour Event – Boulder Social

[www.besocialcolorado.com](http://www.besocialcolorado.com)

1600 38<sup>th</sup> St, Boulder CO 80301

- Happy hour event at Boulder Social, on the lower deck
- Begins directly following the close of the meeting Tuesday, 5:15 – 7:15 or so.
- CADSWES will provide appetizers and non-alcoholic beverages.
- You can start a tab or pay for any adult beverages
- Free parking is available, if lot fills, you can park on the street for free.

