

U.S. EPA's Creating Resilient Water Utilities: Our Mission



From Left to Right: Griggs Reservoir on Scioto River in OH; Water Replenishment District in Southern CA; Water Sanitation Area in Cincinnati, OH; Water Treatment Plant in San Diego, CA

- Provide utilities with the practical tools, training, and technical assistance needed to increase resilience to climate change
- Promote a clear understanding of climate science data and potential long-term adaptation options
- Collaborate with utilities and partners to increase our reach and improve our tools

Resilient Strategies Guide

- Introduction to adaptation planning for those with limited knowledge and/or experience
- Final report documents priorities, vulnerable assets, and relevant strategies to explore during adaptation planning
- Provides financing advice and best practices from other utilities

The screenshot displays a web application interface for the Resilient Strategies Guide. At the top, a progress bar shows six steps: Introduction, Utility Information, Priorities, Assets, Strategies, and Done!, with 'Utility Information' and 'Priorities' currently active. The 'Utility Information' section includes a text input for 'Utility Name' and radio buttons for 'Utility Type' (Drinking Water, Wastewater / Stormwater, Combined). The 'Priorities' section features a 'Filter' box with a list of categories and their counts, and a list of priority items with checkboxes and 'More Info +' links. A 'Summary' box on the right shows the utility name, state/territory, and selected priorities.

Utility Information

The information you provide here will be used to generate a report on your utility's priorities, assets, and strategies to explore during adaptation planning.

Utility Name

Enter your utility name

Utility Type

Drinking Water
 Wastewater / Stormwater
 Combined

Priorities

Select your planning priorities in this section.

Filter:

Category

- Preparing for drought (3)
- Protecting water quality (2)
- Building flood protection (2)
- Preserving ecosystems (2)
- Maintaining service levels (4)
- Improving energy efficiency (1)
- Implementing green infrastructure (1)
- Conserving water (1)

Groundwater recharge
Preparing for drought [More Info +](#)

Lake and reservoir levels
Preparing for drought [More Info +](#)

Runoff timing and snowpack
Preparing for drought [More Info +](#)

Saltwater intrusion
Protecting water quality [More Info +](#)

Source water quality
Protecting water quality [More Info +](#)

Riverine flooding - drinking water
Building flood protection [More Info +](#)

Coastal flooding - drinking water
Building flood protection [More Info +](#)

Loss of coastal wetlands
Preserving ecosystems [More Info +](#)

Summary

Utility Name:
State/Territory: **National**
Utility Type: **Drinking Water**

Selected Priorities:

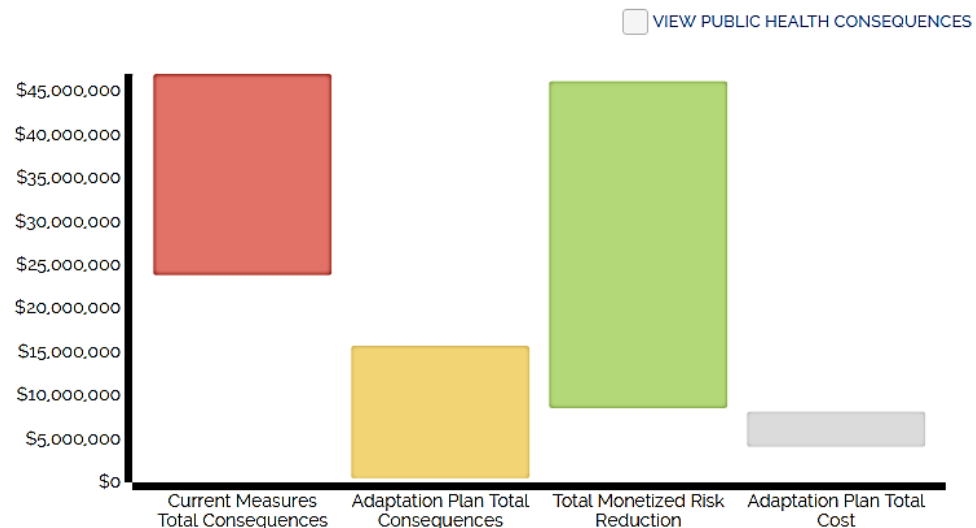
Climate Resilience Evaluation and Awareness Tool



- **First of its kind** – web-based climate change risk assessment tool for the water sector
- **Flexible and customizable** risk assessment framework
- **Guides users** through identifying impacts, vulnerable assets, and adaptation options to help reduce risks
- Built with **significant stakeholder input**
- **Natural disaster risk assessment: [VSAT](#)**
- CRWU **[conducts trainings and workshops](#)** to assist utilities



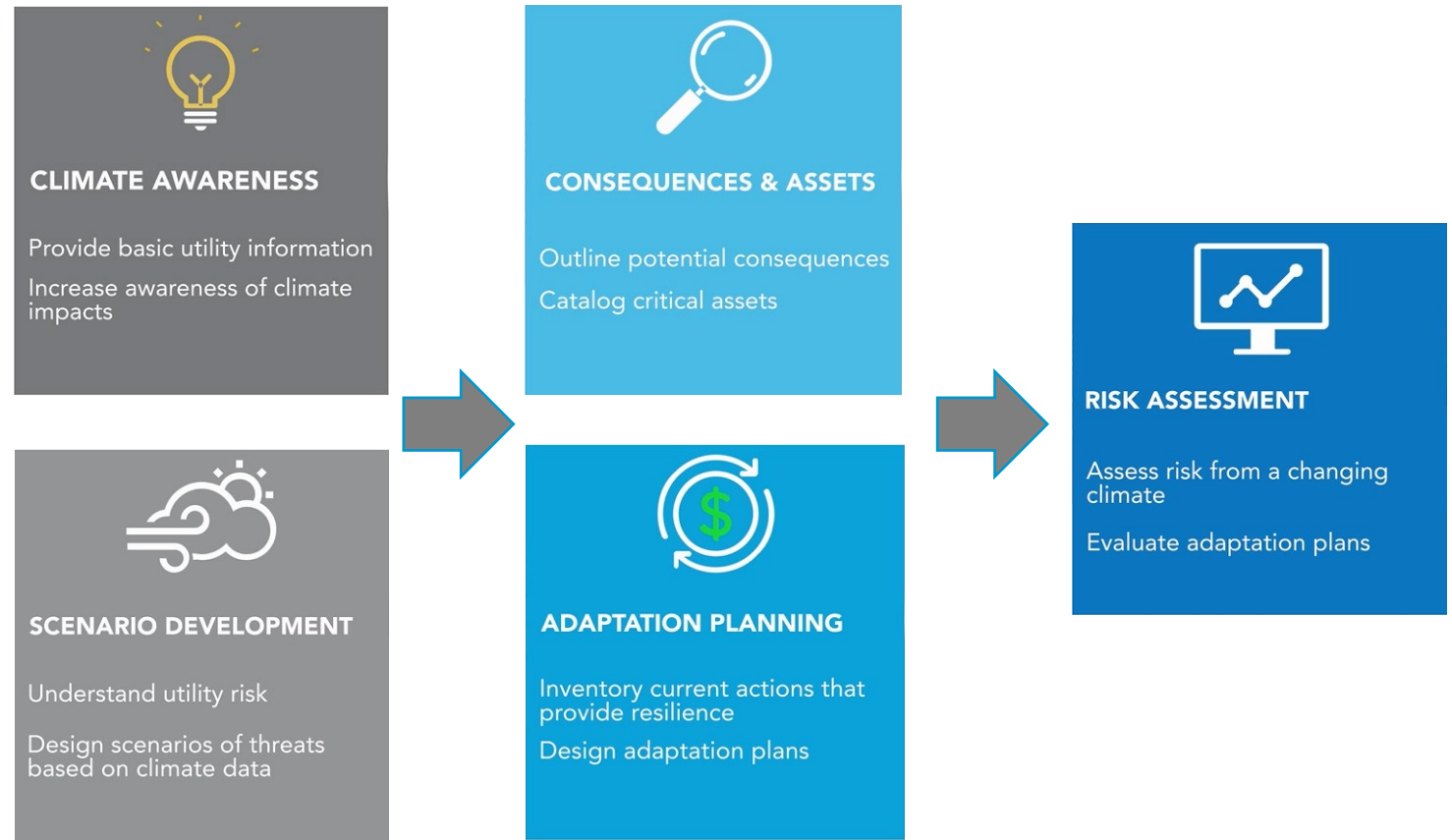
Results Overview - Plan 1: WWTP Protection Measures			
\$23,767,150 - \$46,869,850 CURRENT MEASURES TOTAL CONSEQUENCES	\$418,000 - \$15,668,300 ADAPTATION PLAN TOTAL CONSEQUENCES	\$8,514,000 - \$46,036,700 TOTAL MONETIZED RISK REDUCTION	\$4,057,500 - \$8,125,000 ADAPTATION PLAN TOTAL COST



Climate Resilience Evaluation and Awareness Tool



- **Module-based process** with clearly defined goals and reports
- Presents available climate data at the **regional and local levels**
- Multiple scenarios provided to help **capture uncertainty**
- **Assessment of current resilience** will help inform **adaptation planning**
- Results help utilities compare **risk reduction value** and **implementation costs**



Interactive Climate Change and Weather Maps

- Storm Surge Inundation Map

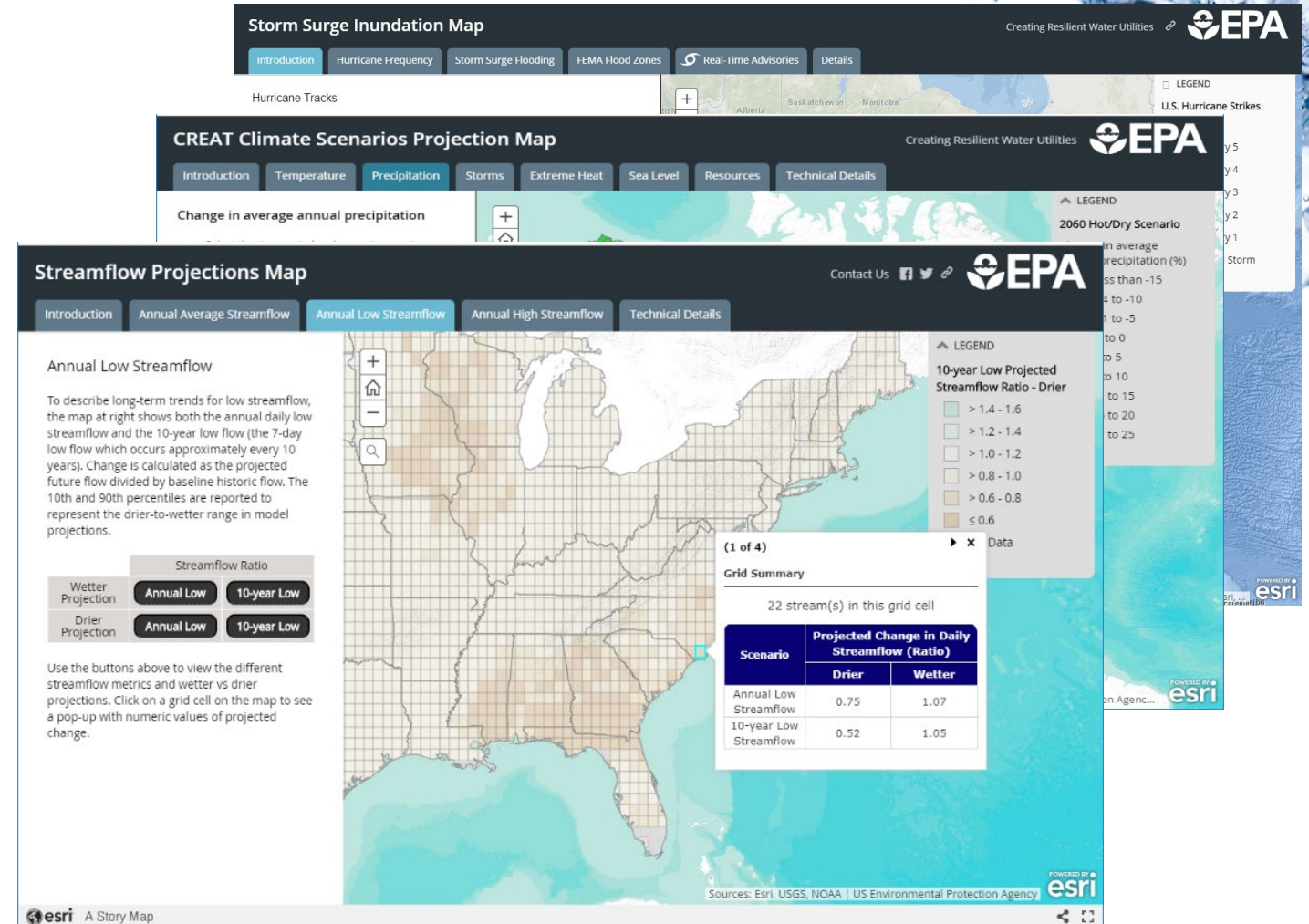
- Displays coastal flooding, hurricane surge models, FEMA flood zones, and more

- Climate Scenarios Projection Map

- Displays local scenarios, potential changes in temperature and precipitation, and more

- Streamflow Projections Map

- Displays possible changes in flow conditions for U.S. streams and rivers



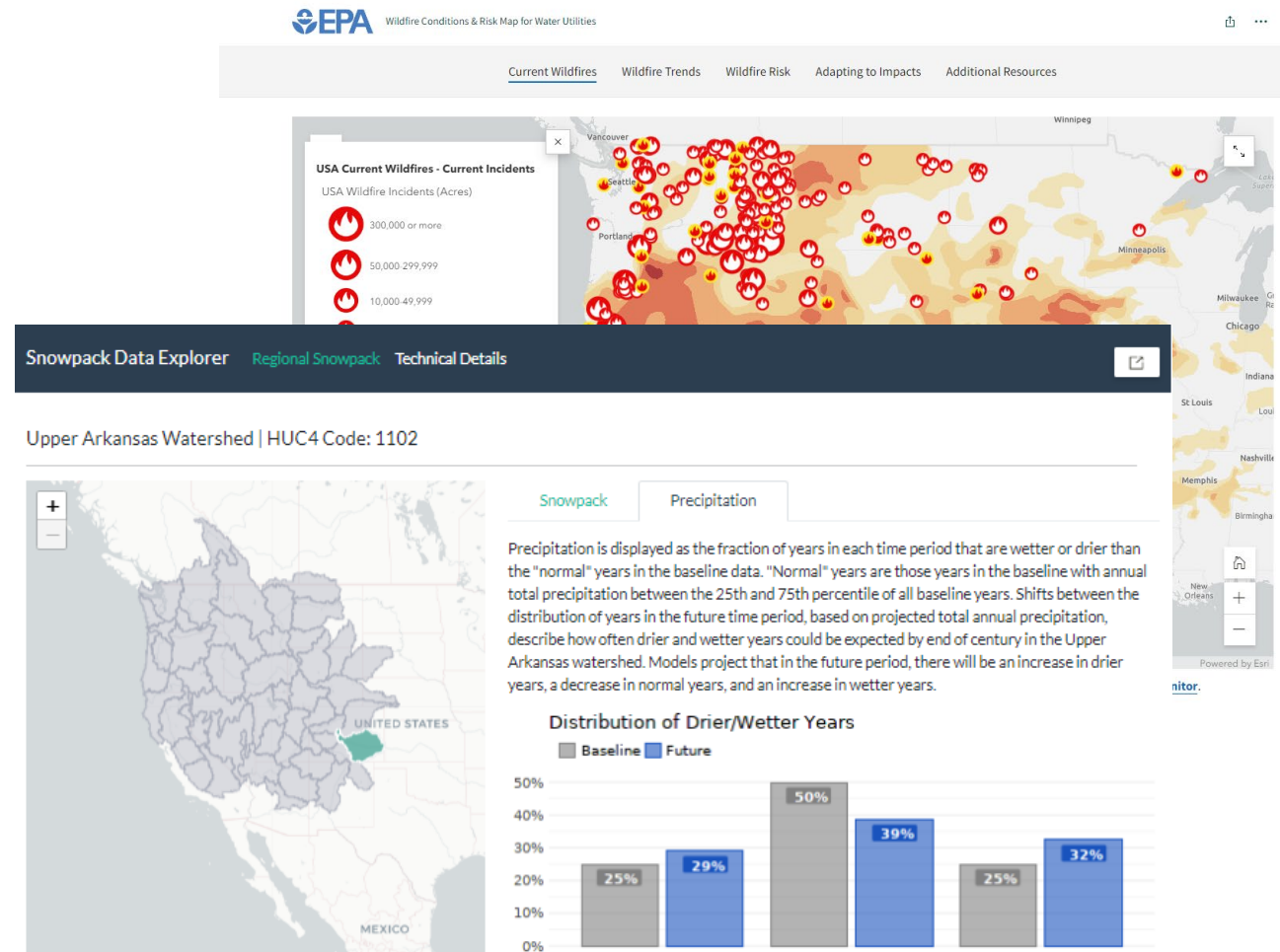
Interactive Climate Change and Weather Maps

- Wildfire Conditions and Risk Map for Water Utilities

- Displays models, FEMA flood zones, and more

- Snowpack Change in the Western United States

- Displays local scenarios, potential changes in temperature and precipitation, and more



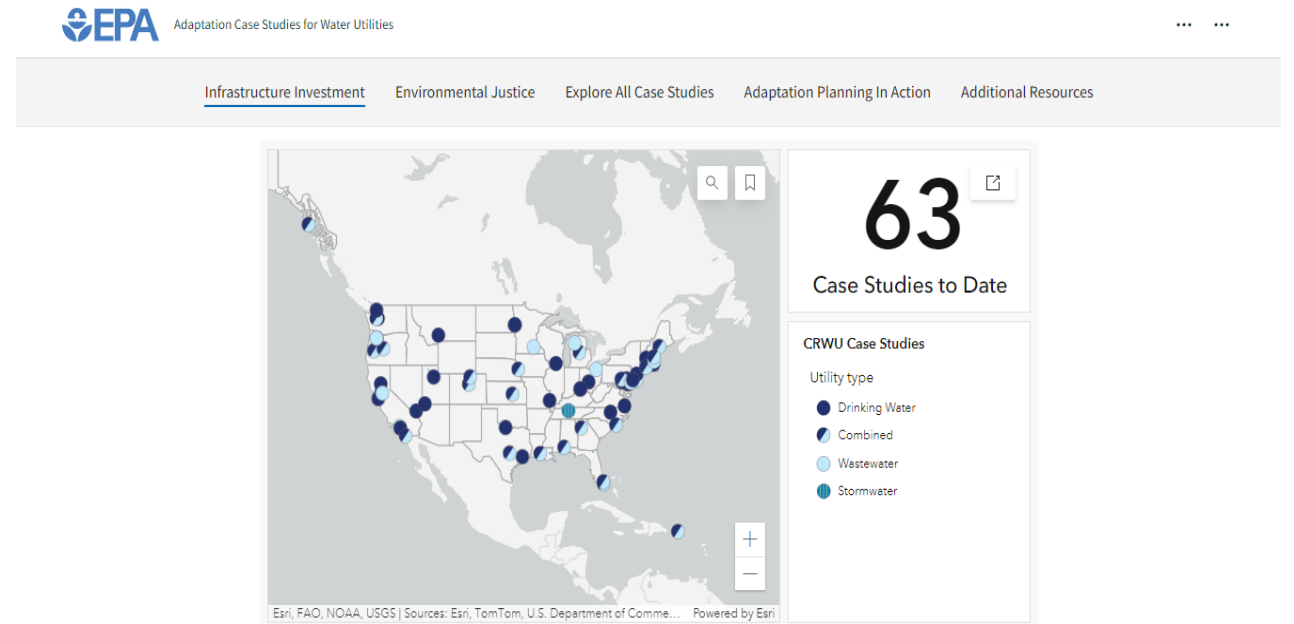
Case Studies and Technical Assistance

- Adaptation Case Studies for Water Utilities StoryMap

- Helps utilities connect with their peer utilities, share experiences, and learn best practices
- 60+ CREAT success stories available

- Technical Assistance

- Work with our partners to provide one-on-one technical assistance



Workshops and Funding

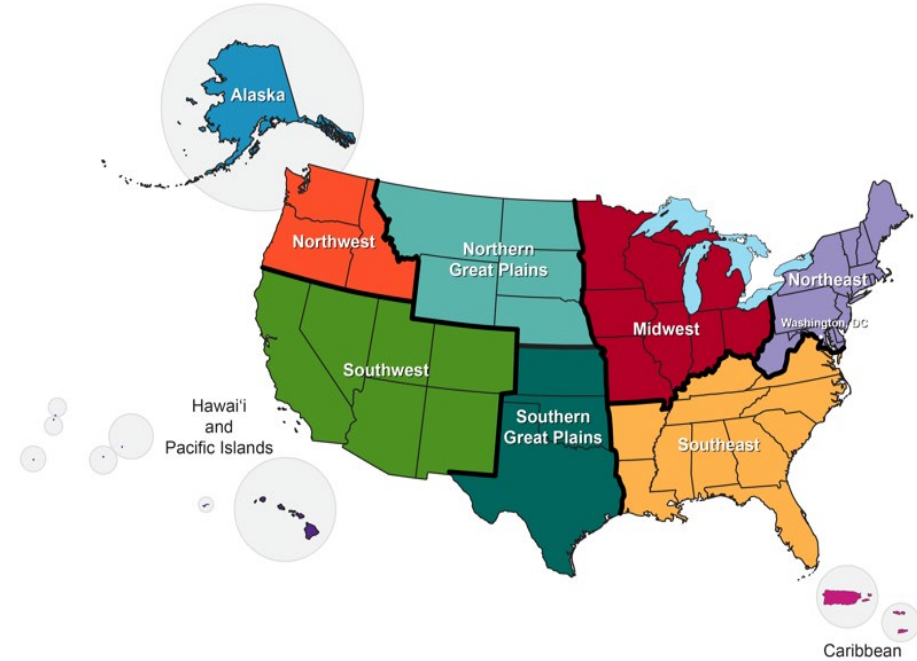
Workshops

- Climate resilience virtual workshops
 - National, regional, local area, as well as technical assistance provider

- Training website

Funding

- Bipartisan Infrastructure Law
 - Clean Water and Drink Water State Revolving Funds
- Water Infrastructure Finance and Innovation Act (WIFIA) Program



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