Disadvantaged Community Involvement Program (DACIP): Addressing Water Inequalities and Injustices in Southern California

Danielle Bram
Director
Center for Geospatial Science and Technology
California State University, Northridge

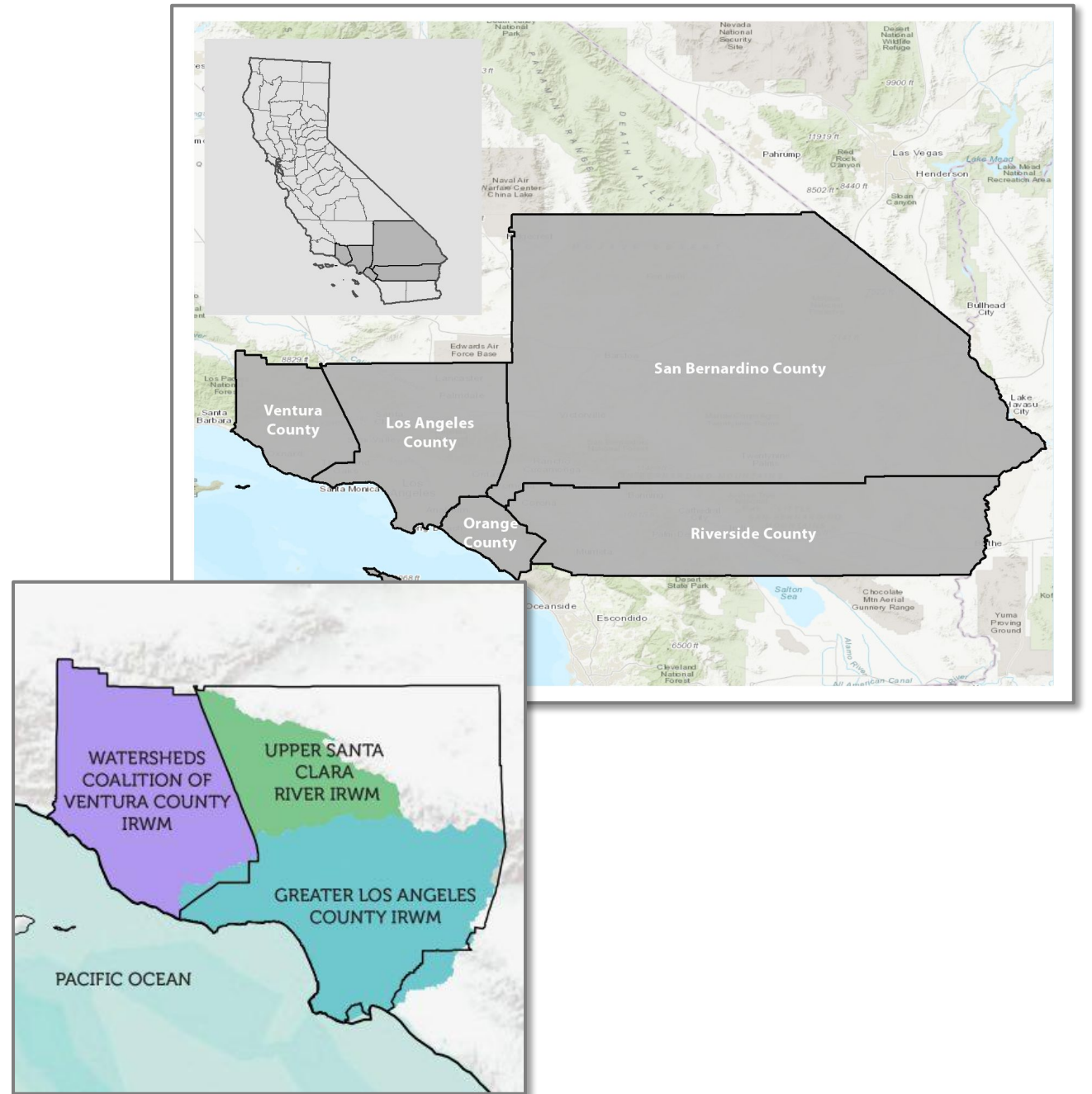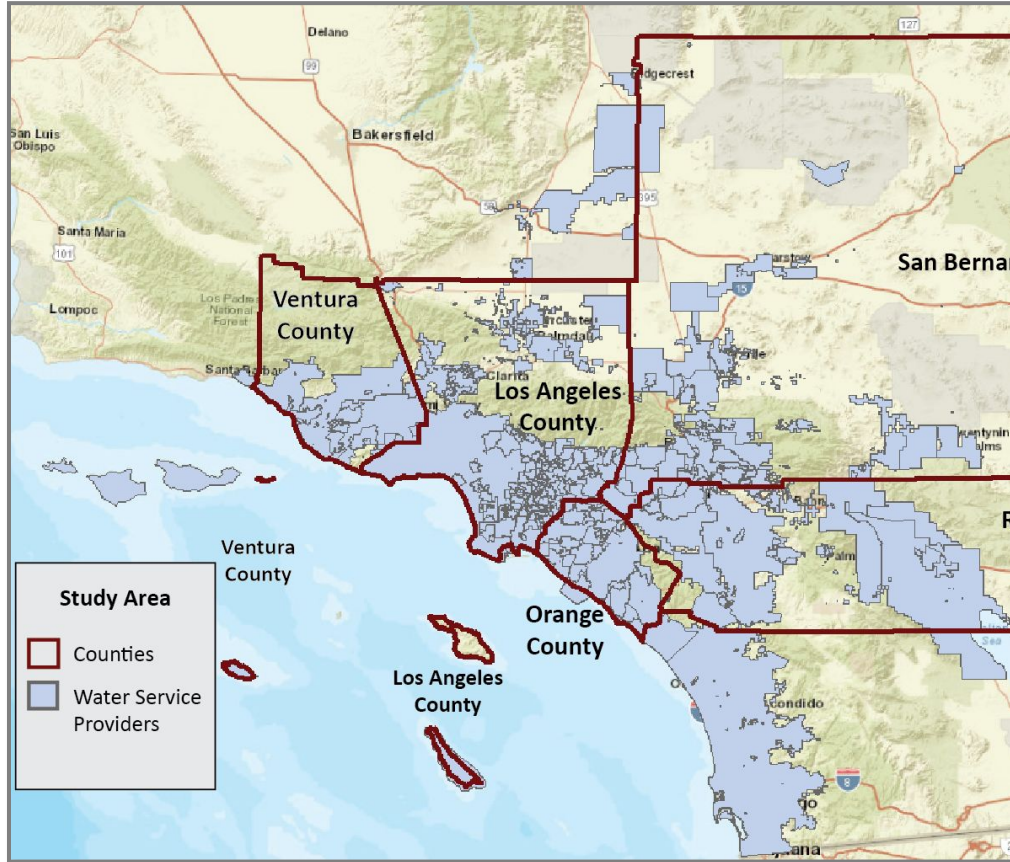CSU Water Drought Webinar
August 24, 2023

Project Overview

Disadvantaged Community Involvement Program (DACIP)

- Funded by Prop 1 via CA Department of Water Resources

- Main Goals

  o Identify, engage, and educate DAC communities.

  o Perform needs assessments.

  o Develop data-driven solutions for selecting projects for technical assistance

Data Collection, Processing, and Synthesis

DAC Modeling

- Existing Models

- Models Used

  o Stress Model

  o Street Weighted Model
    (in collaboration with Dr. Mike Reibel – Cal Poly Pomona)

Census-Tract Level
DAC Stress Index
- <=3 (Low)
- 4
- 5
- >=6 (High)

Disadvantaged Communities, L.A. County

- Not DAC
- DAC, Not SDAC
- SDAC
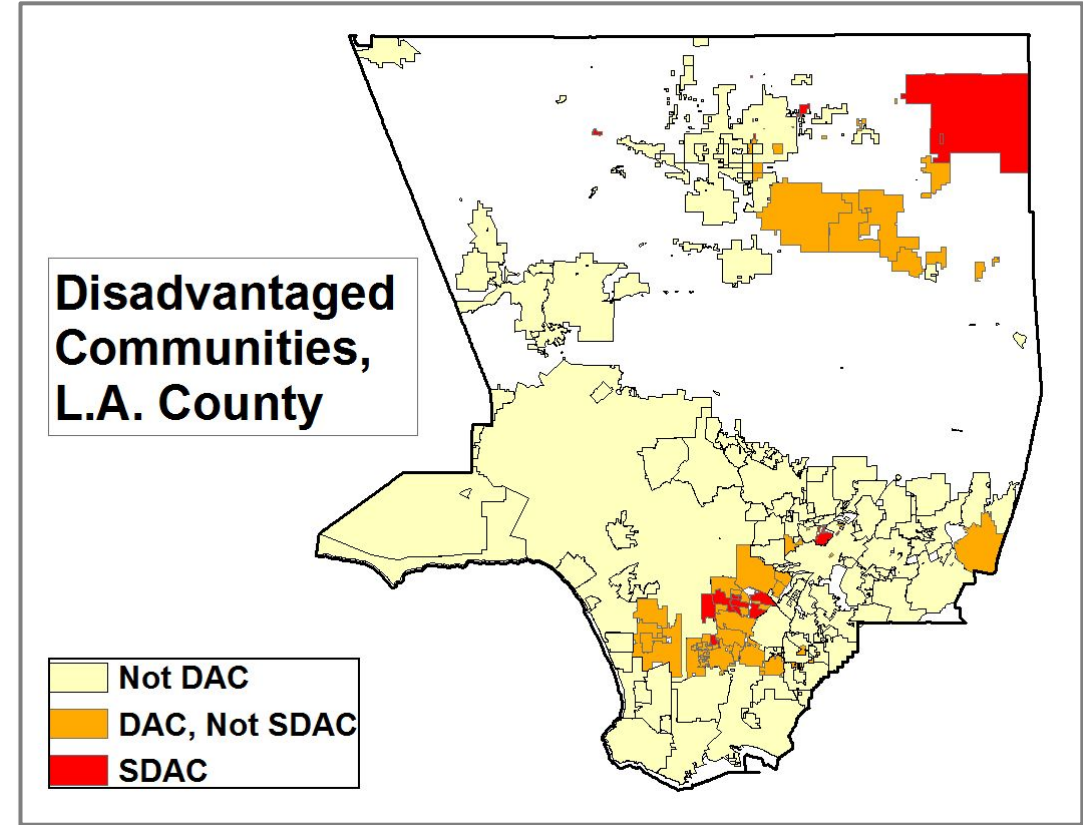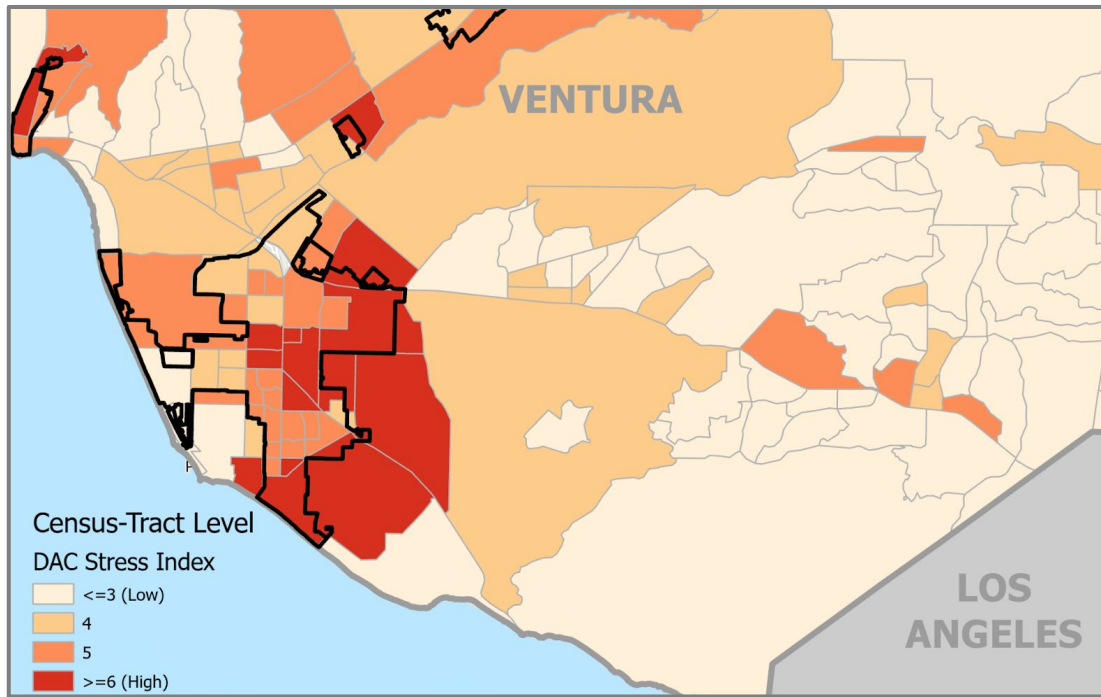
Community Outreach & Education

https://watertalks.csusb.edu

Community and Institutional Needs Assessments
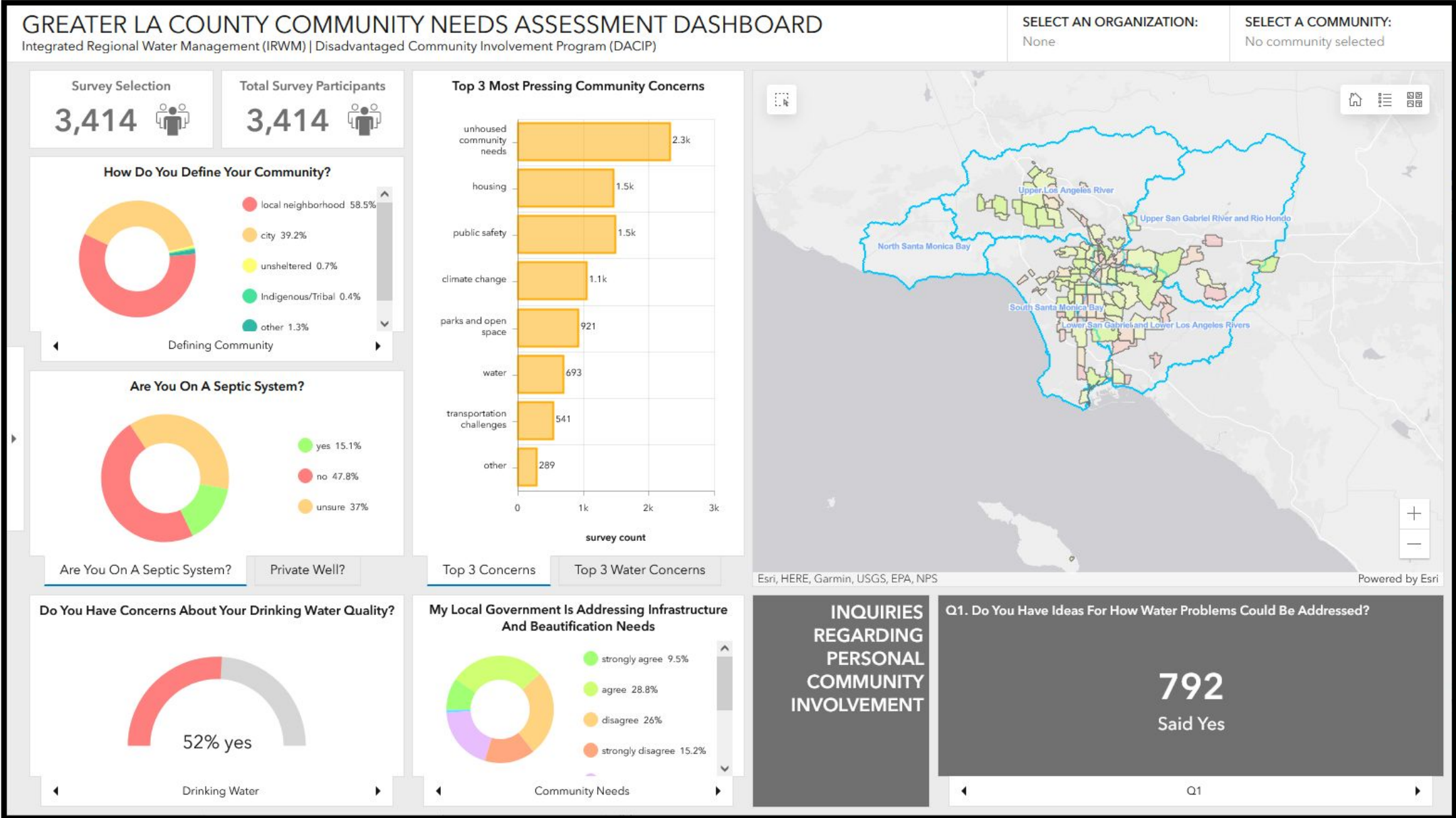
Project Evaluation Tool

Technical Assistance Proposed Projects Evaluation Dashboard (TAPPED)

- Assists decisionmakers with data-driven project evaluation and selection

- Uses multi criteria decision analysis (MCDA)

- Interactive and user-friendly

Project Evaluation Tool

Select Project Type	→	Select Criteria	→	Assign Relative Importance	→	List of Ranked Projects

---

TAPPED   Projects   Help   Log Out

Evaluation Criteria (2) ⌃

Select the criteria that will be used in this evaluation.
(You must select at least 2 criteria)

☑ **DAC Households**
% of Households with incomes less than 80% of statewide median household income

☑ **SDAC Households**
% of Households with incomes less than 60% of statewide median household income

☐ **Total Households**
Total number of households

☐ **Population**
Population

☐ **Population Density**
Persons per sq. mi.

Criteria Importance ⌄

Create Evaluation for *Education*

Show Comparison

An evaluation ranks projects based on the selected criteria and the specified criteria importance. To create an evaluation for the selected project type, select at least two evaluation criteria and specify their relative importance.

Project Rankings

1. Garden Acres Mutual Water Company Sustainable Water Assurance for the Next Generation (SWAN) Bilingual Education Program
   Project Score: 1.00
2. Arundo Removal Crew Language Training
   Project Score: 0.71
3. Regional Tap Water Testing Program
   Project Score: 0.52
4. GeoTribe - A STEM and Water Resources Summer Youth Program
   Project Score: 0.14
5. Upper Santa Clara River Septic Evaluation Project
   Project Score: 0.00

Project Locations

Thank you!

Danielle Bram

danielle.bram@csun.edu

Director, Center for Geospatial Science and Technology

CSU, Northridge