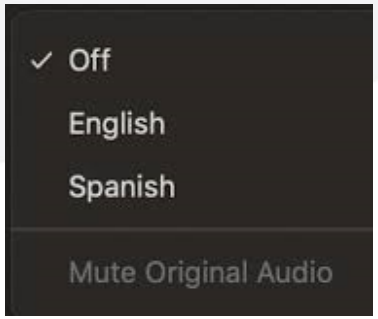
Language Interpretation through Zoom

Click Interpretation icon in your Meeting controls

- Navigate to Language Channels
- Select Spanish
- Mute Original Audio



For technical assistance, email: **SAFER@waterboards.ca.gov**

Ways to Participate

Watch ONLY: Visit **video.calepa.ca.gov**

Submit a comment:

Email **safer@waterboards.ca.gov** with subject "AGM Public Comment," and follow instructions in return email to join the meeting.

Technical or language interpretation assistance:

safer@waterboards.ca.gov

SAFER Drinking Water Advisory Group Meeting #3

September 9, 2022
10am-5pm

CALIFORNIA Water Boards

Water Boards' Mission

Preserve, enhance, and restore the quality of California's water resources and drinking water for the protection of the environment, public health, and all beneficial uses, and to ensure proper water resource allocation and efficient use, for the benefit of present and future generations.

Meeting Guidelines

- Mute yourself when not speaking
- Join by video (if possible)
- Take breaks as needed
- Speak slowly
- **safer@waterboards.ca.gov**

Agenda

- Draft Fund Expenditure Plan
- Strategy for Domestic Wells and State Small Water Systems
- Point of Use/Point of Entry (POU/POE) White Paper
- SAFER Program Updates
- Advisory Group Member Announcements
- Public Comment
- Closed Session

Introductions and Warmer

- Your name
- Your affiliation
- Your location
- What is one thing you plan to do before the summer ends?

Discussion Session #1:

FY 2022-23 Safe and Affordable Drinking Water Fund Expenditure Plan

Fiscal Year 2021-22 Progress

FY 2021-22 SAFER Program Performance

	Water Systems (Communities/ Schools)	Households	No. of Connections Benefiting	No. of People Benefiting	Total Assistance Provided
Interim Assistance	55	1,265	6,451	35,244	**$13 M**
Technical Assistance (TA) Projects	94 [1]		35,515	128,283	**$14.6 M**
Planning Projects	10		117,996	335,877	**$4.5 M**
Construction Projects [2]	37 (26)		1M (32,051)	7.3M (56,293)	**$691 M ($97 M)**

[1] 94 TA projects also includes 27 projects for planning via TA

[2] Numbers in parentheses for construction projects reflect projects in Office of Sustainable Water Solutions (OSWS) benefitting primarily small DACs or low-income households. The work in other categories is solely through OSWS and benefitting primarily small DACs or low-income households.

FY 2021-22 SAFER Program Performance, cont.

Item	Number
Systems returned to compliance (7/1/2020 – 6/30/2022)	**92**
Active Consolidation Projects as of 6/30/22	**207**
Mandatory Consolidation Projects Initiated	**2**
Mandatory Orders Issued	**1**
Executed Consolidation Funding Agreements	**19**
Administrators Completed	**0**
New Water Systems Designated	**14**
Executed Funding Agreements/Work Plans	**2**
Executed O&M Funding Agreements for Systems with Administrators	**0**
Orders Executed	**1**

SAFER Program Assistance by System Type

System Type	Total Number of Systems	Systems Receiving Assistance [%] (# Approved/# Requested)	Total Funding Provided/Pending ($ Approved/$ Requested)
Systems Out of Compliance (HR2W)*	368	**220 [60%]** (200/ 20)	**$337.5 M** ($205.4 M/ $132.1 M)
At-Risk Systems	432	**128 [30%]** (108/ 20)	**$226.5 M** ($163.6 M/ $62.9 M)

* Number of systems on the Human Right to Water (HR2W) list used in the 2022 Drinking Water Needs Assessment (from April 2022)

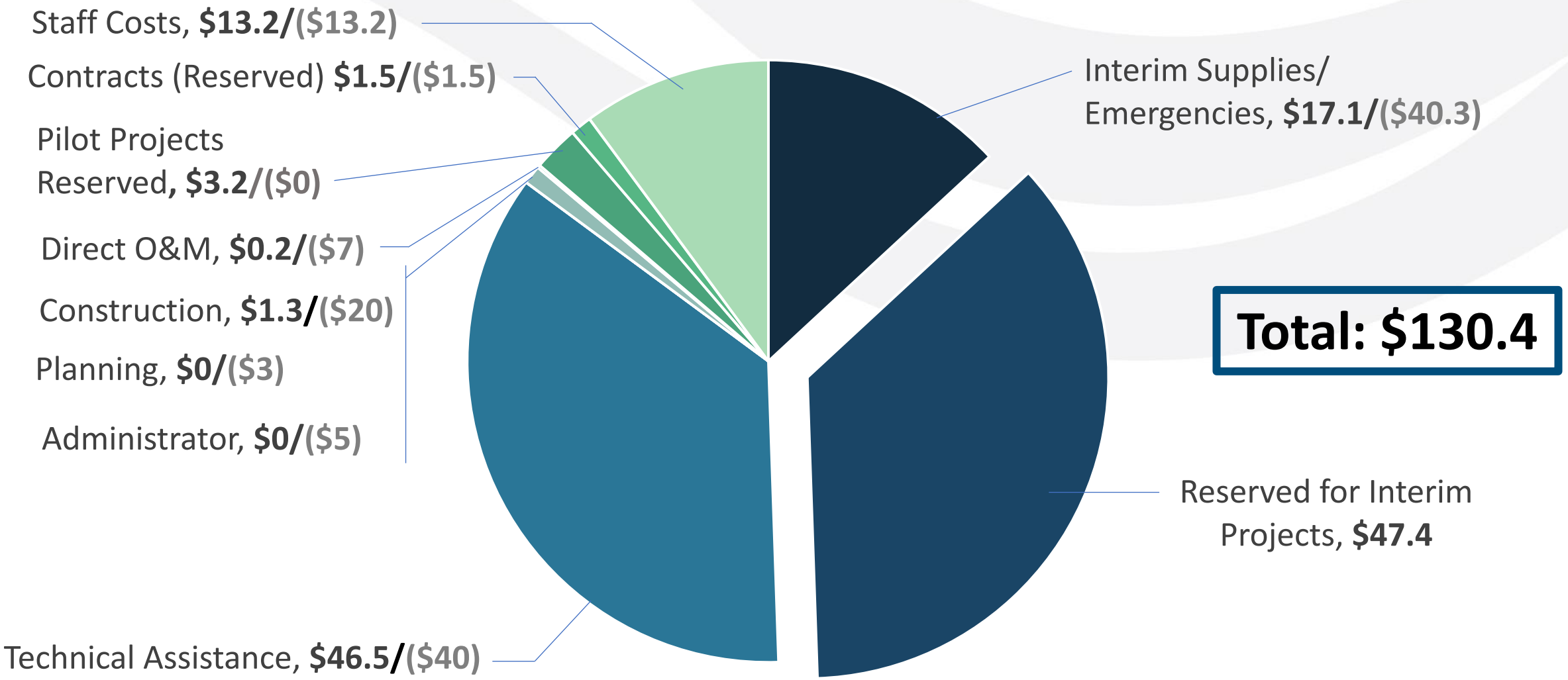
FY 2021-22 SAFER Program Committed Expenditures
(SADW Fund plus other complementary funding)

Funding Category	Interim Water Supplies and Emergencies	Technical Assistance [1]	Administrator/ O&M	Planning/ Construction	TOTAL
Safe, Affordable Drinking Water (SADW) Fund	$18 M	$51.8 M	$0.2 M	$5.3 M	**$75.3 M**
General Obligation Bond Funding	-	$1.9 M	-	$15.8 M	**$17.7 M**
General Fund (GF)	$10.9 M	$3.6 M	$6.1 M	$120.3 M	**$140.9 M**
Principal Forgiveness		-	-	$55 M	**$55 M**
TOTAL	**$28.9 M**	**$57.3 M**	**$6.3 M**	**$196.4 M**	**$288.9 M (100)[2]**

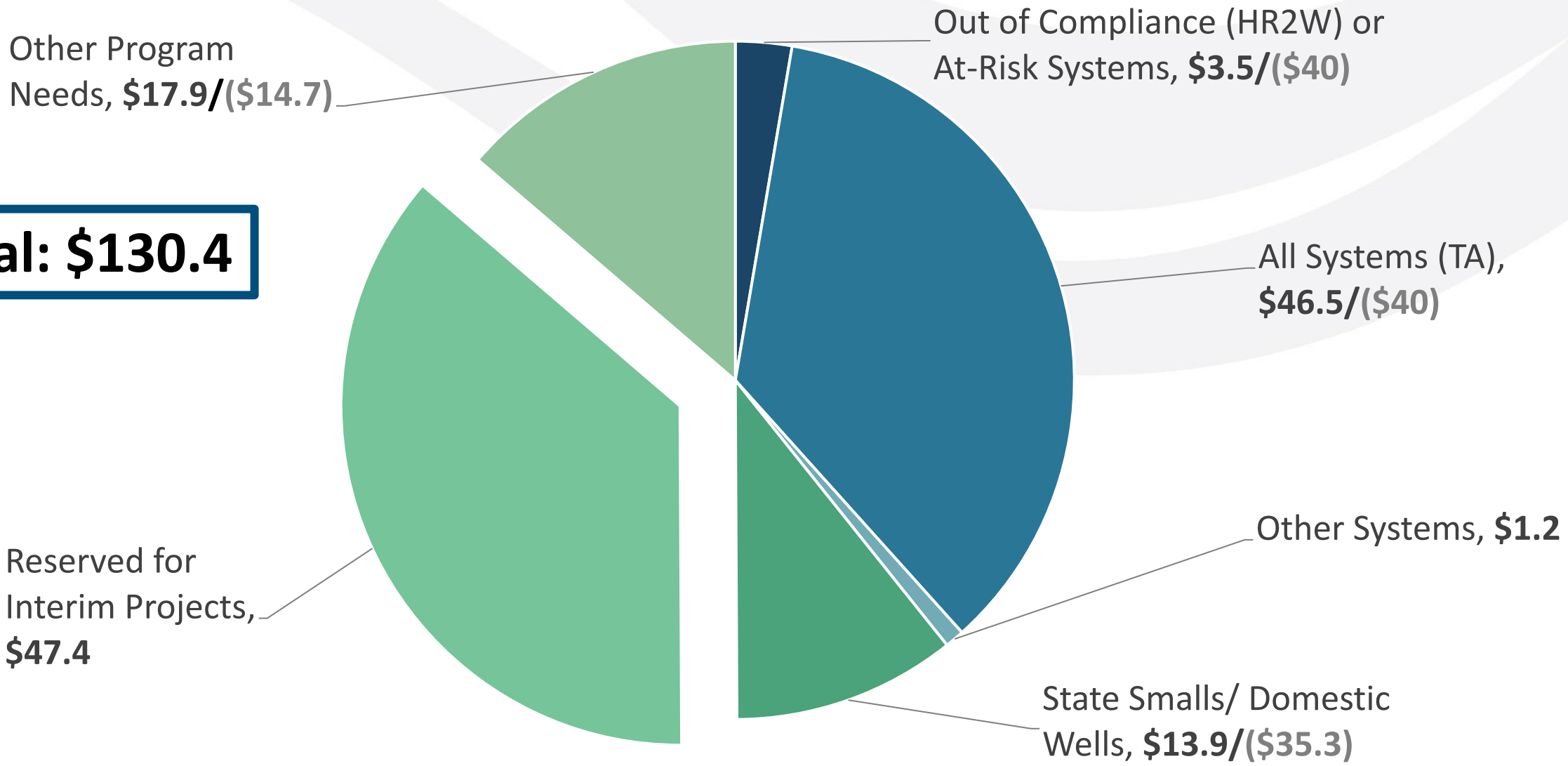
[1] Technical Assistance committed amounts reflective of the master agreements with the providers.
[2] Parentheses shows Number of Agreements.

FY 2021-22 Committed Expenditures, by Solution Type

(in millions)($ committed/($ target))



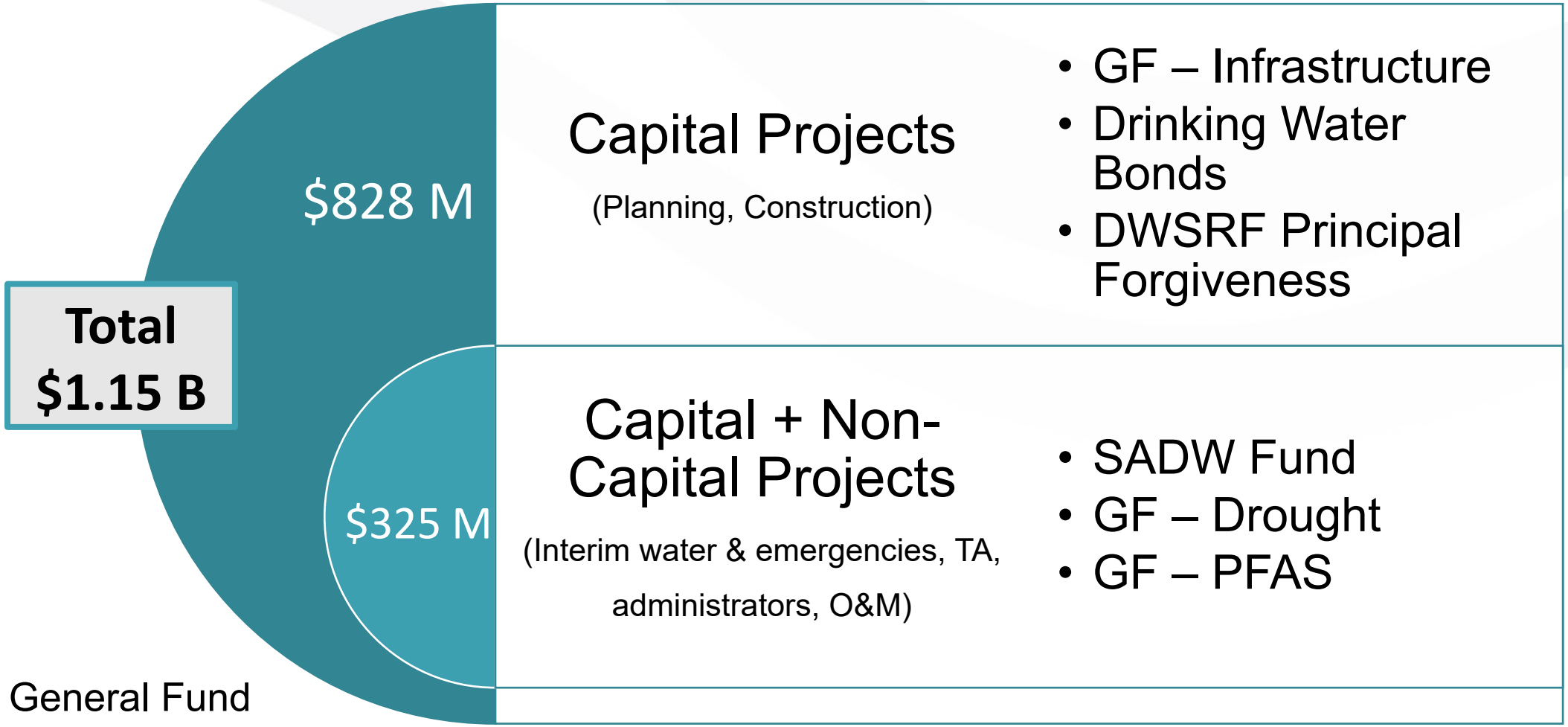
FY 2021-22 Committed Expenditures, by System Type (in millions)($ committed/($ target))



Total: $130.4

Fiscal Year 2022-23

FY 2022-23 SAFER Program Anticipated Available Funding



GF – General Fund
TA – Technical Assistance
DWSRF – Drinking Water State Revolving Fund

PFAS – Per- and Polyfluoroalkyl Substances
SADW Fund – Safe and Affordable Drinking Water Fund

Proposed Priorities (focus on small DACs and low-income households)

★

- Emergency or urgent funding needs (only where other funds are not available).
- Water systems that are out of compliance with primary drinking water standards or at-risk of failing.
- Consolidations and promote opportunities for regional-scale consolidation accelerations.
- Expedite planning through use of technical assistance.
- Interim solutions and planning efforts for long-term solutions for state smalls and domestic wells.
- Provide direct operation and maintenance support to assist water systems facing the highest affordability burdens.
- Ensure assistance is distributed consistent with the State Water Board's Racial Equity Resolution and Racial Equity Action Plan.

FY 2022-23 SADW Fund Proposed Targets (in millions)

	Solution Type					
Water System Category	**Interim Water Supplies and Emergencies**	**Technical Assistance (includes Planning)**	**Administrator**	**Planning**	**Direct O&M Support**	**Construction**
Systems Out of Compliance, At-Risk, or Consolidations	$5	$72	$5	$3	$3	$5
State Smalls/ Domestic Wells (SS/DW)	$13.3		$0	$0	$0	$5
Reserved from FY 2021-22	$47.4	$0	$0	$0	$0	$0
SUBTOTAL BY SOLUTION TYPE	**$18.3 ($65.7)**	**$72**	**$5**	**$3**	**$3**	**$10**
					PROJECT TOTAL	**$111.3 ($158.7)**
Other Program Needs (Reserved)	**Pilot Projects**	**Contracts**	**Staff Costs**			
	$3.2	**$1.5**	**$14**			
					GRAND TOTAL	**$130 ($177.4)**

Summary of Proposed FY 2022-23 Targets

- Focus on **small disadvantaged communities** and **low-income households**.
- Investments proposed to address at risk **state smalls/domestic wells** for water quality and/or drought impacts.
- Technical Assistance funds focus on agreements with new providers to complete planning tasks that **accelerate projects towards construction**.
- Some funds to help establish additional **administrator** agreements.
- Some funds to further develop the **direct operations and maintenance funding program**.
- Planning and construction funds low due to large amount of funding available from the **General Fund Infrastructure appropriation.**

Summary of Key Updates for Fiscal Year 2022-23

Summary of Updates for FY 2022-23

- **Direct operations and maintenance support** – added details to develop the O&M funding program.
- **Construction** – developed conditions where eligible construction projects, including consolidations, may be funded with SADW Funds.
- **Per- and polyfluoroalkyl substances (PFAS)** – added information on how a portion of state funding for PFAS will be used to meet SDACs needs.
- **Drought Infrastructure** – added discussion on SB 552 requirements for small water suppliers and counties.
- **Metrics and Performance** – added SAFER Program performance metric categories introduced in the SADW Fund Policy plus Racial Equity.

FY 2022-23 Fund Expenditure Plan Timeline

2022

August

15 – Release of Draft FY 22-23 FEP

16 – Board Workshop

September

9 – SAFER AG Mtg #3

14 – End of Draft FY 22-23 FEP Comment Period

October

November

1 – Board Consideration for Adoption

AG = Advisory Group **FEP** = Fund Expenditure Plan

Questions?

Comment or technical assistance,

email **safer@waterboards.ca.gov**

Discussion Questions

1) What feedback do you have on the funding priorities?

2) What feedback do you have on the funding allocations?

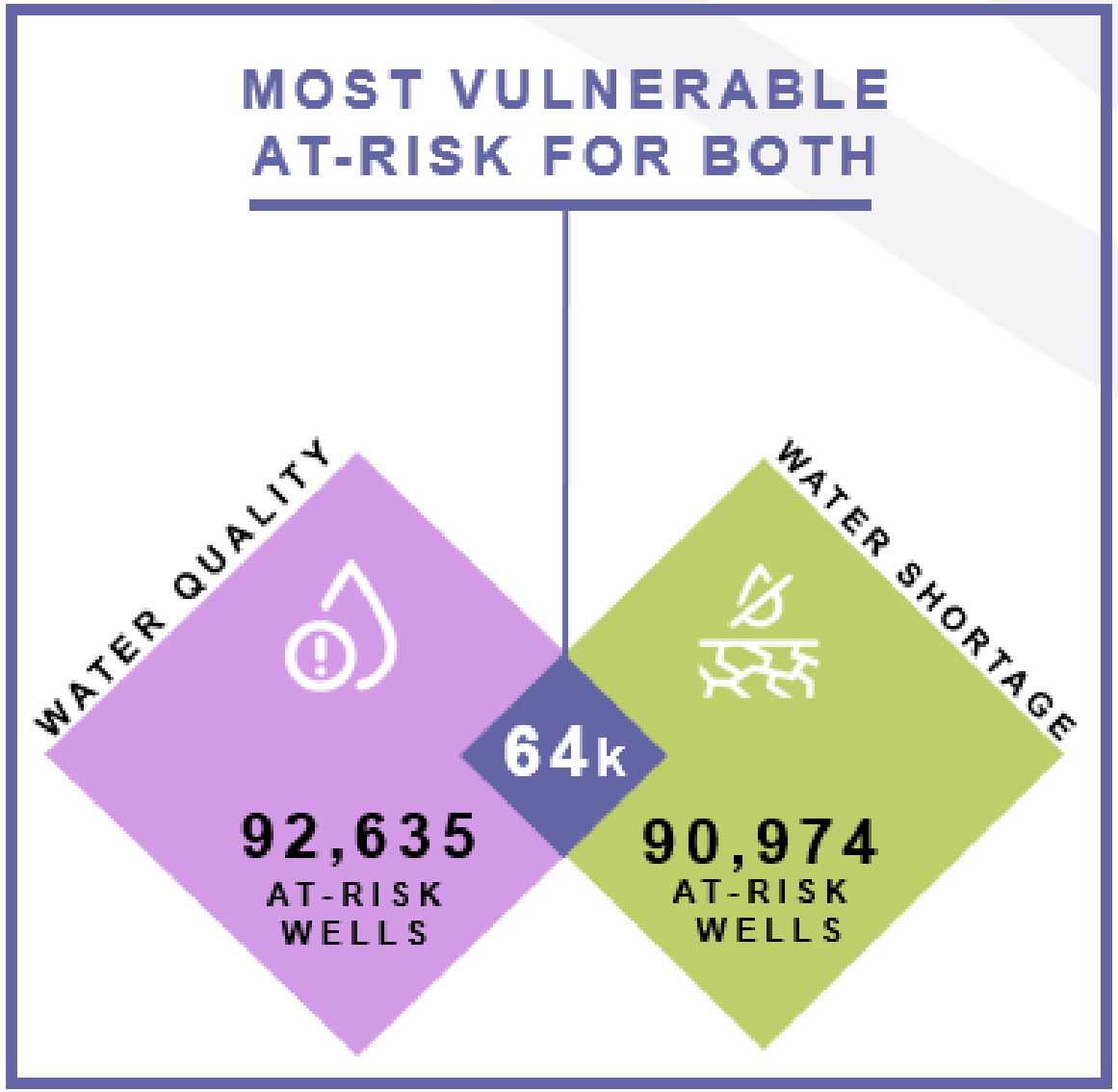
3) Would you recommend more or less allocated funds toward certain project types?

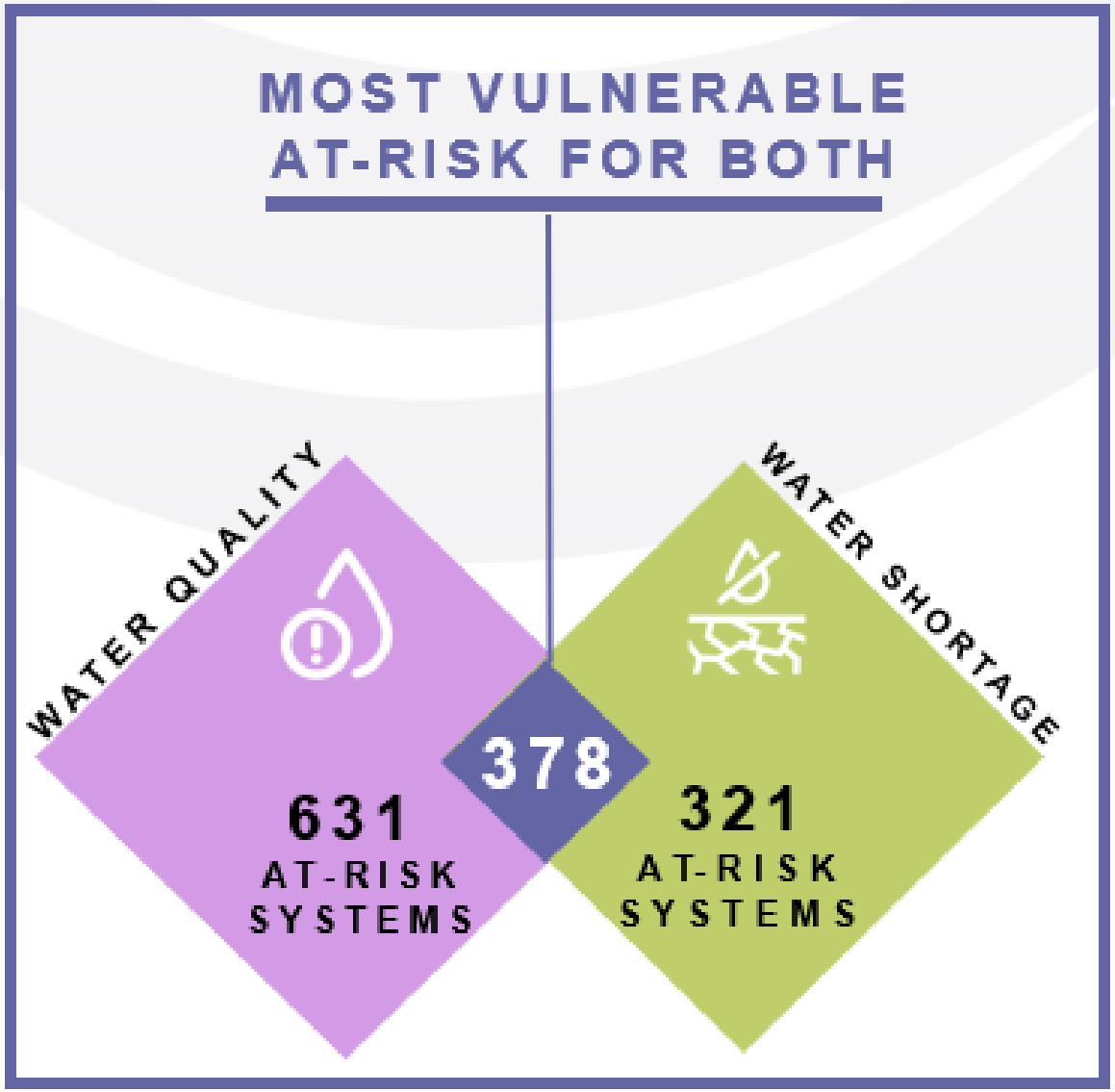
LUNCH

Discussion Session #2:

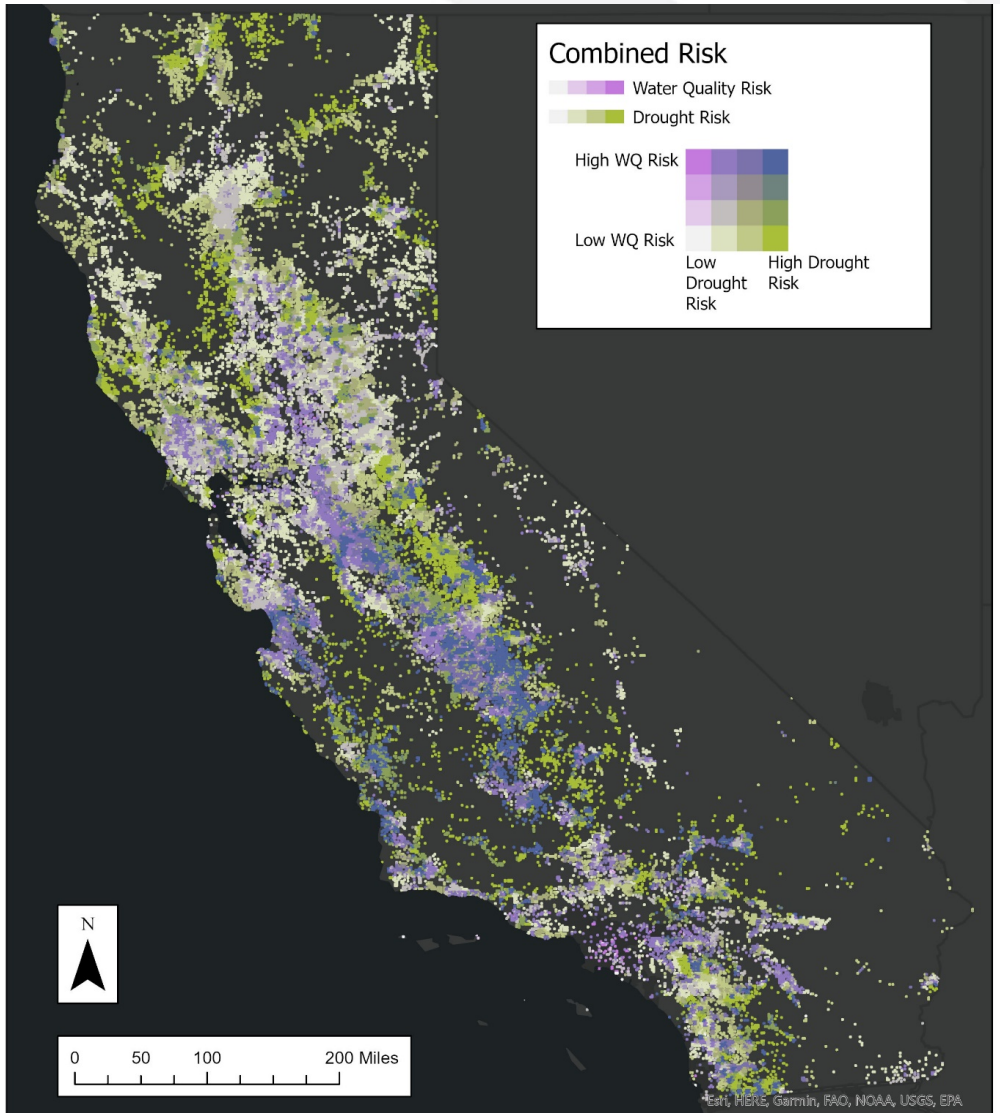
Strategy for State Small Water Systems and Domestic Wells

State Small Water Systems and Domestic Wells (SSWS/DW)





Explore the Data: Combined Risk Assessment Map



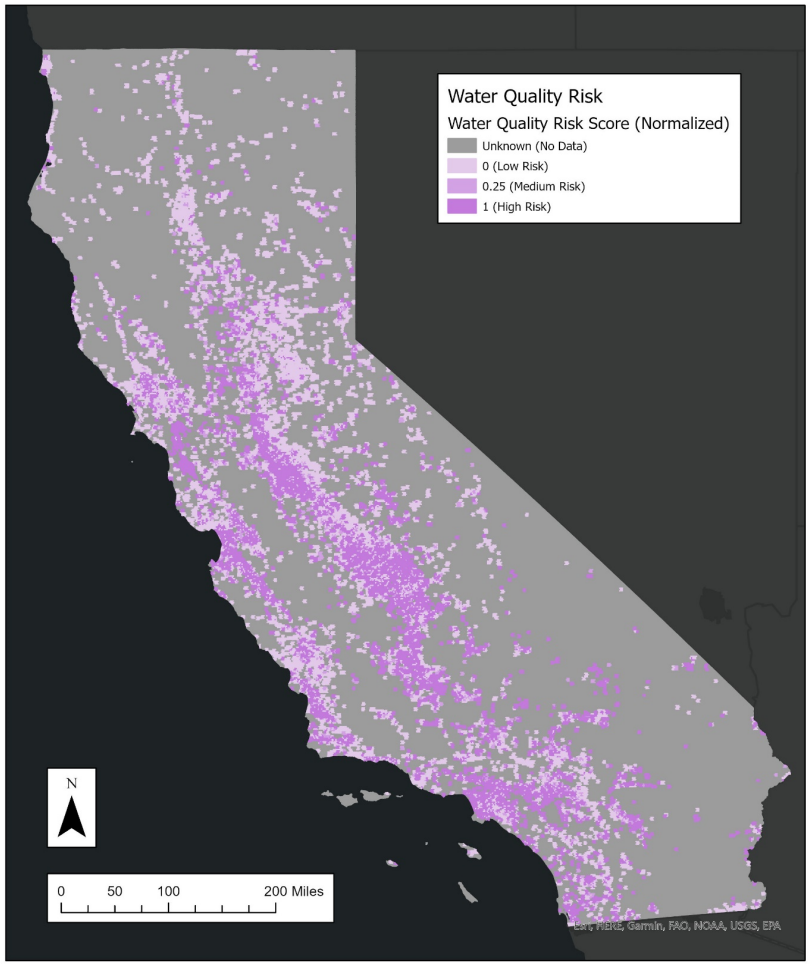
Map: https://bit.ly/3o2k7Qb

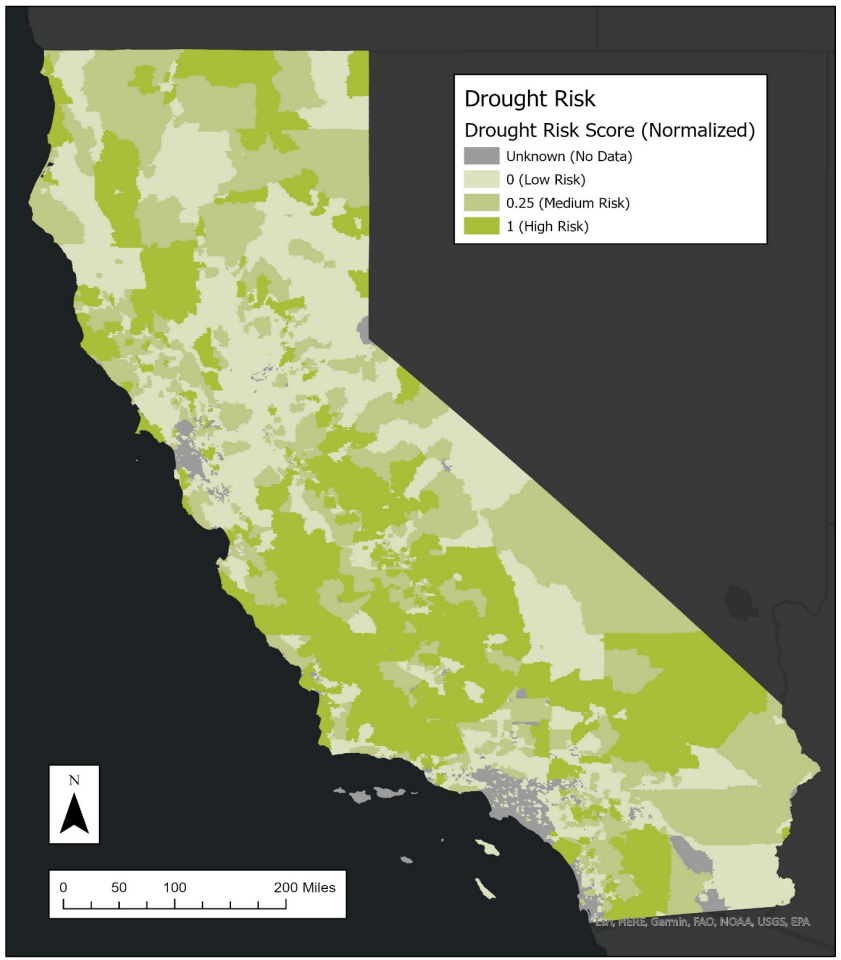
Map Features:

- Mask/un-mask areas with known SSWSs & domestic wells.
- Add layer to see **CalEnviroScreen (CES)** data for each census tract:
  - CES 4.0 score
  - Pollution burden
  - Population characteristics
  - Race/ethnicity population
  - Population living two times below the federal poverty level

Explore the Data: Water Quality & Drought Risk Maps

Users can explore the results of the water quality and drought risk assessments separately.





Potential Solutions for State Smalls/Domestic Wells

Funding for County-wide and Regional Programs

- Addresses water quality and/or water shortage issues:
  - Well sampling
  - Interim supplies (e.g., bottled or hauled water)
  - Long-term solutions (e.g., consolidation, treatment, well replacement)
- Promotes opportunities for consolidation, especially at a regional-scale
- Proposes Point-of-Use (POU) and Point-of-Entry (POE) Pilot

Current Regional/County-wide Program Enrollees
(as of July 28, 2022)

Recipient	Regional Program	Enrolled Households
Self-Help Enterprises (San Joaquin Valley)	Bottled Water*	1,956
	Tanks and Hauled Water	1,157
	Household POU/POE*	114
	Well Replacement/ Repair and Connection	313

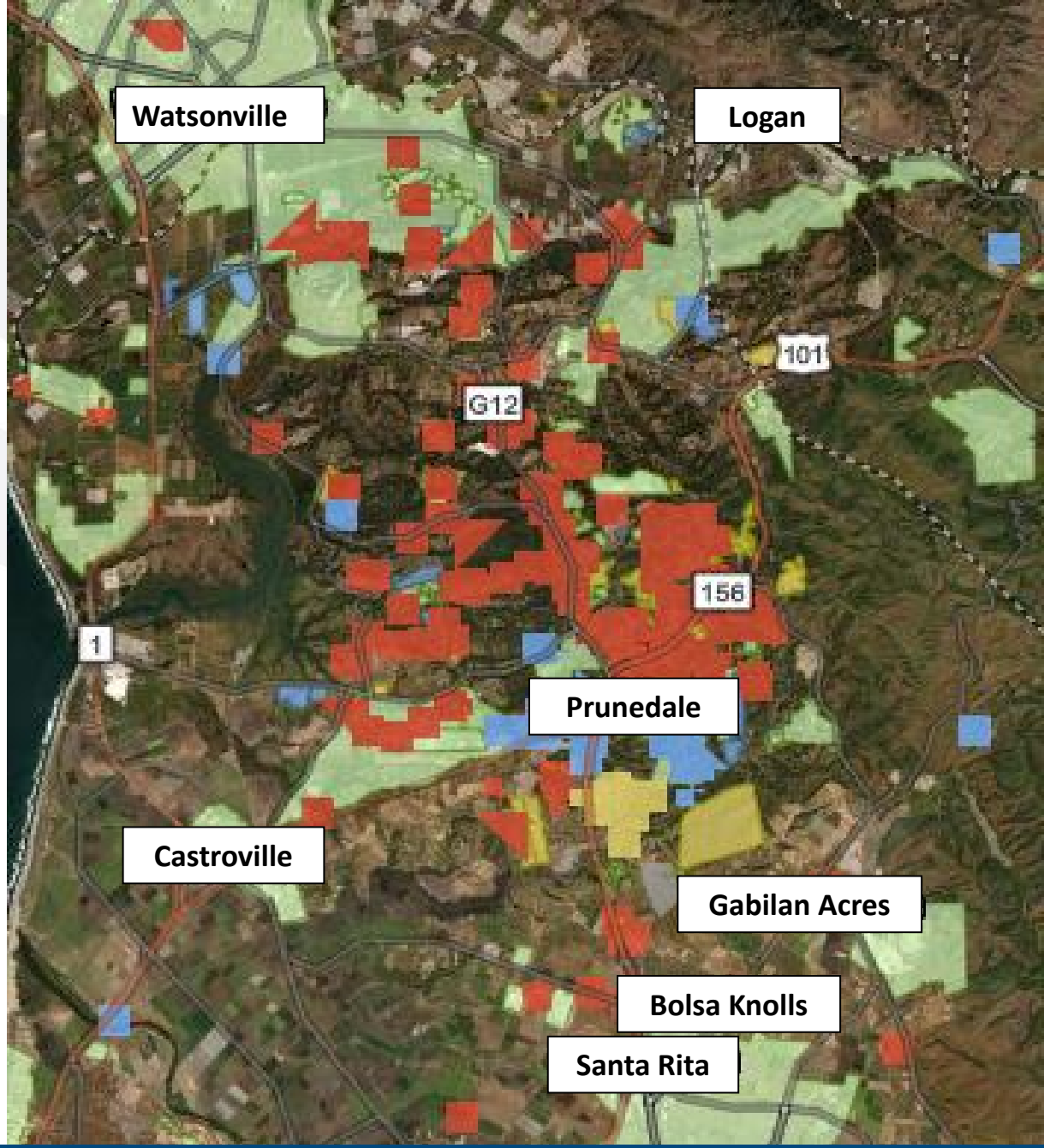
Recipient	Regional Program	Enrolled Households
Tulare County	Countywide Bottled Water	1,110
Community Water Center	Bottled Water* (Central Coast)	198
Rural Community Assistance Corporation	Well Replacement (Statewide)	77
Shasta County	Well Repair/Replacement	8
Santa Cruz County	Well Testing and Hauled water*	0

*** program also addresses water quality impacts**

DAC SSWs/DWs Partnership Projects

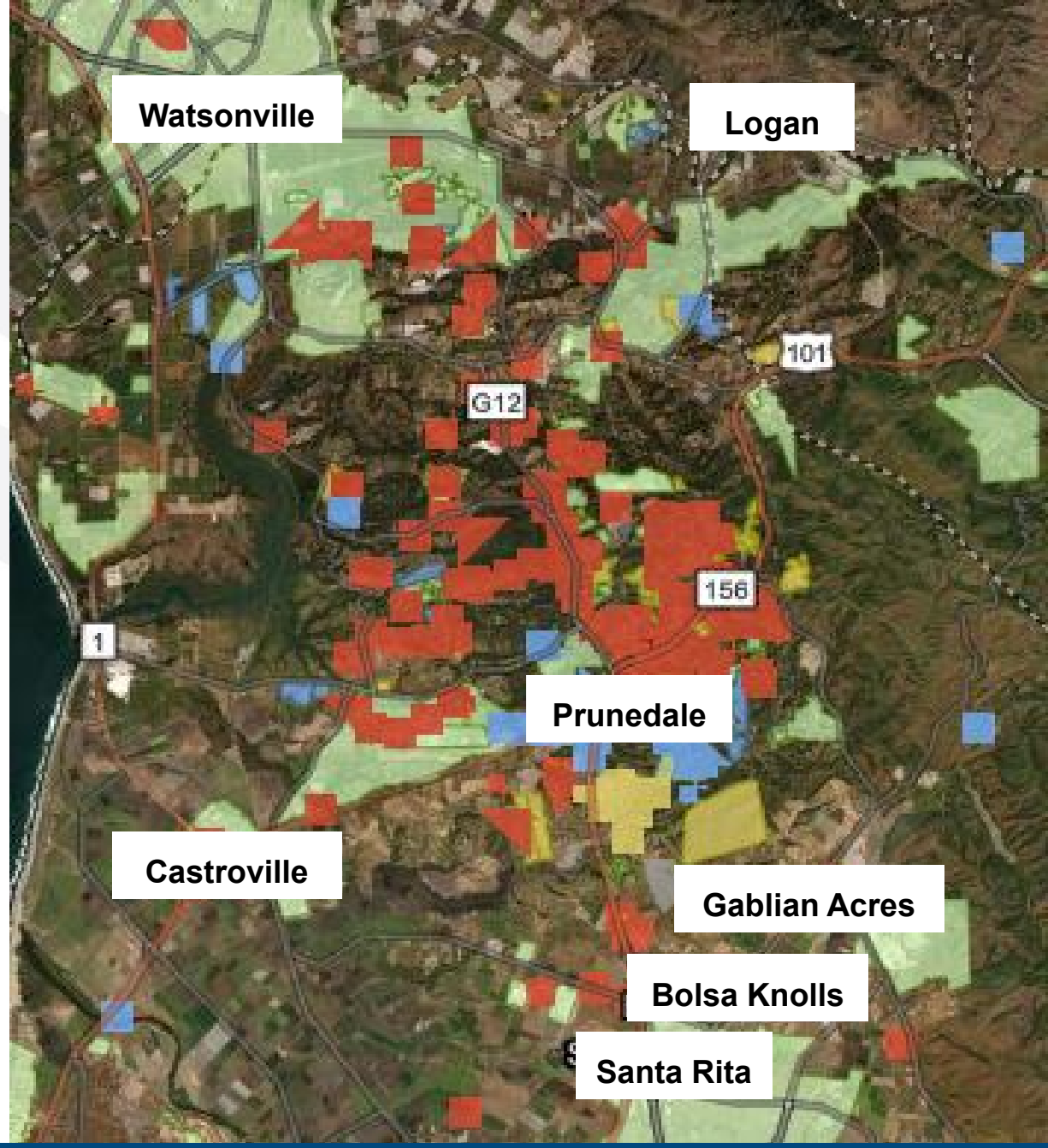
Existing consolidation projects

- **Upper Lake (Lake)**– domestic wells with MTBE contamination
- **City of Santa Rosa (Sonoma)** – state small water systems with arsenic contamination
- **City of Stockton (Stanislaus)** – domestic wells with nitrate contamination
- **Apple Avenue (Monterey)** – state small water systems in 1,2,3-TCP contaminated areas



Larger Regional-Scale Consolidation Efforts

- **Town of Mendocino (Mendocino)** – shallow, drought impacted DWs (~200)
- **Olivehurst PUD (Yuba)** – connecting DWs with failing septic, methane (~185)
- **City of Red Bluff (Tehama)** – connecting DWs with nitrate/failing septic (~500)
- **Prunedale Area (Monterey)** – outreach SSWS opportunities (~250 WSs)



SAFER Technical Assistance & Support for State Smalls and Domestic Wells

County-wide and Regional Funding Programs

- Can be used by Counties or their non-profit partners for: Outreach, bottled water, hauling, POU/POE, well repairs, small consolidations, etc.
- https://www.waterboards.ca.gov/safer/funding_solicitation.html

* Most of the San Joaquin Valley are already supported by Self-Help Enterprises for the above.

Baldwin Lake Area (San Bernardino)

- Feasibility study to address elevated uranium

Tecopa Water Kiosk (Inyo)

- Water vending project seeking O&M support

POU/POE Projects and Surface Water Issues

- Imperial Valley (Imperial) POE implementation pilot project for surface water systems
- Clearlake Area (Lake) educational support for homes supplied directly by surface water

Discussion Questions

1) What feedback do you have about the different approaches for state smalls and domestic wells?

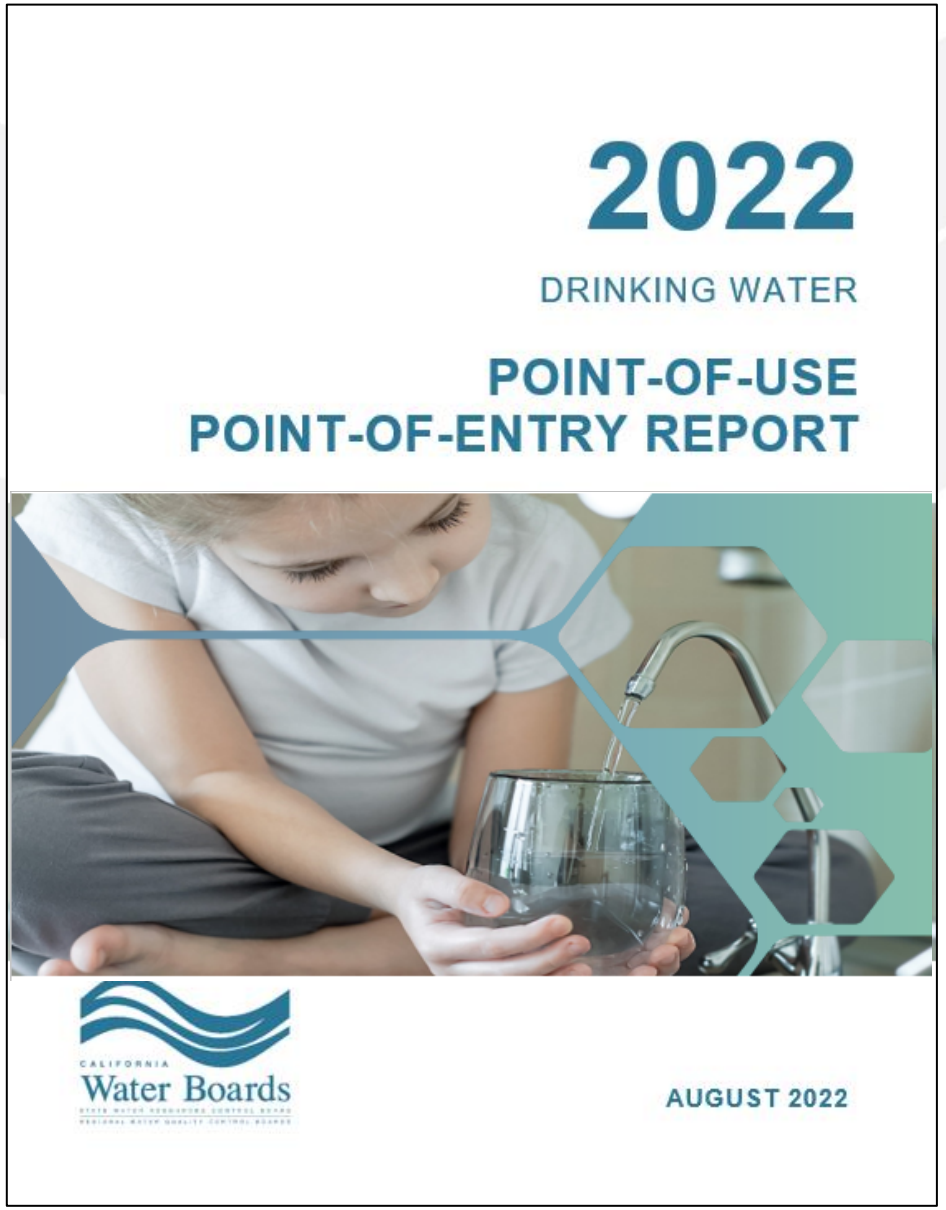
2) Are there other approaches we should consider for state smalls/domestic wells?

Discussion Session #3:

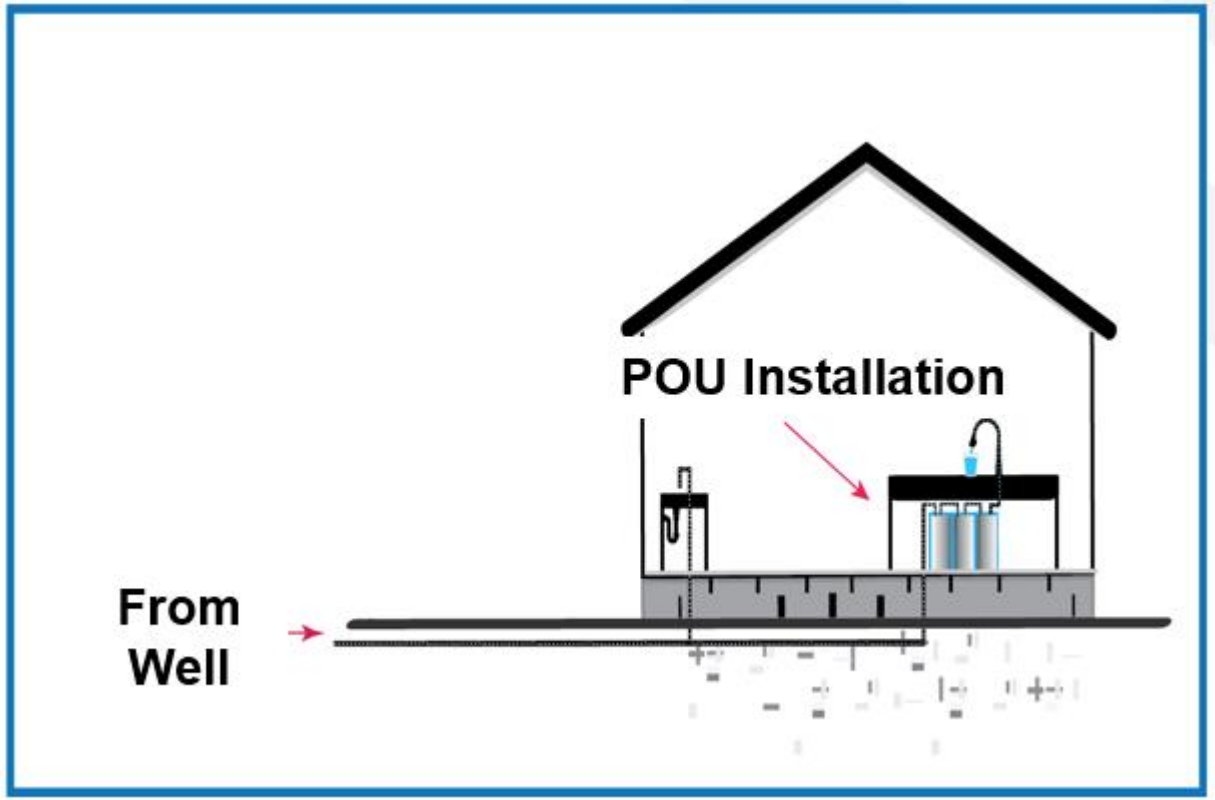
Drinking Water Solutions
Point of Use and Point of Entry Report

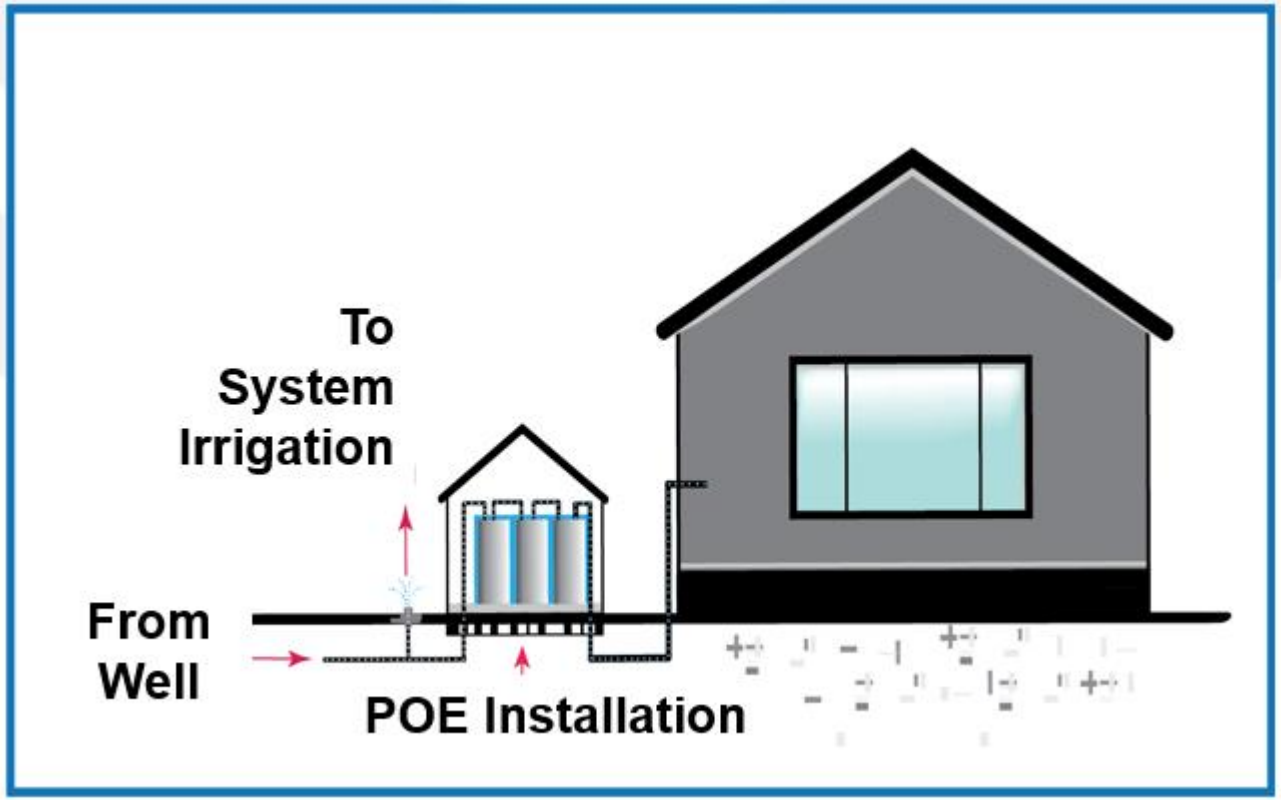
Point of Use / Point of Entry (POU/POE) Report

- Understand use and obstacles to successful POU/POE implementation
- Draw conclusions and make recommendations
- Identify pilot studies to better understand and overcome obstacles



Point of Use / Point of Entry





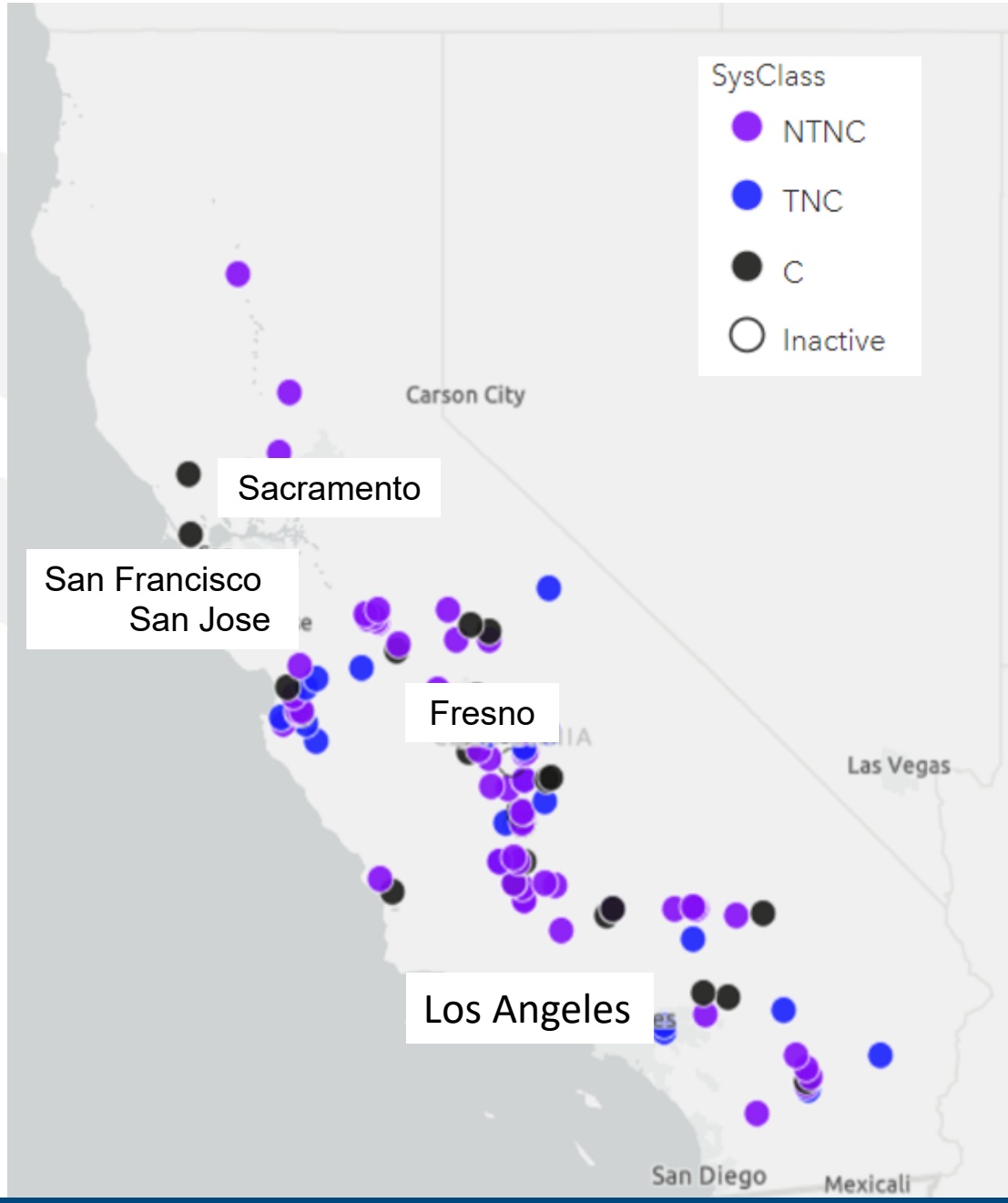
- **POU** – Single treated access point
- **POE** – Entire residence (internal use) receives treated water

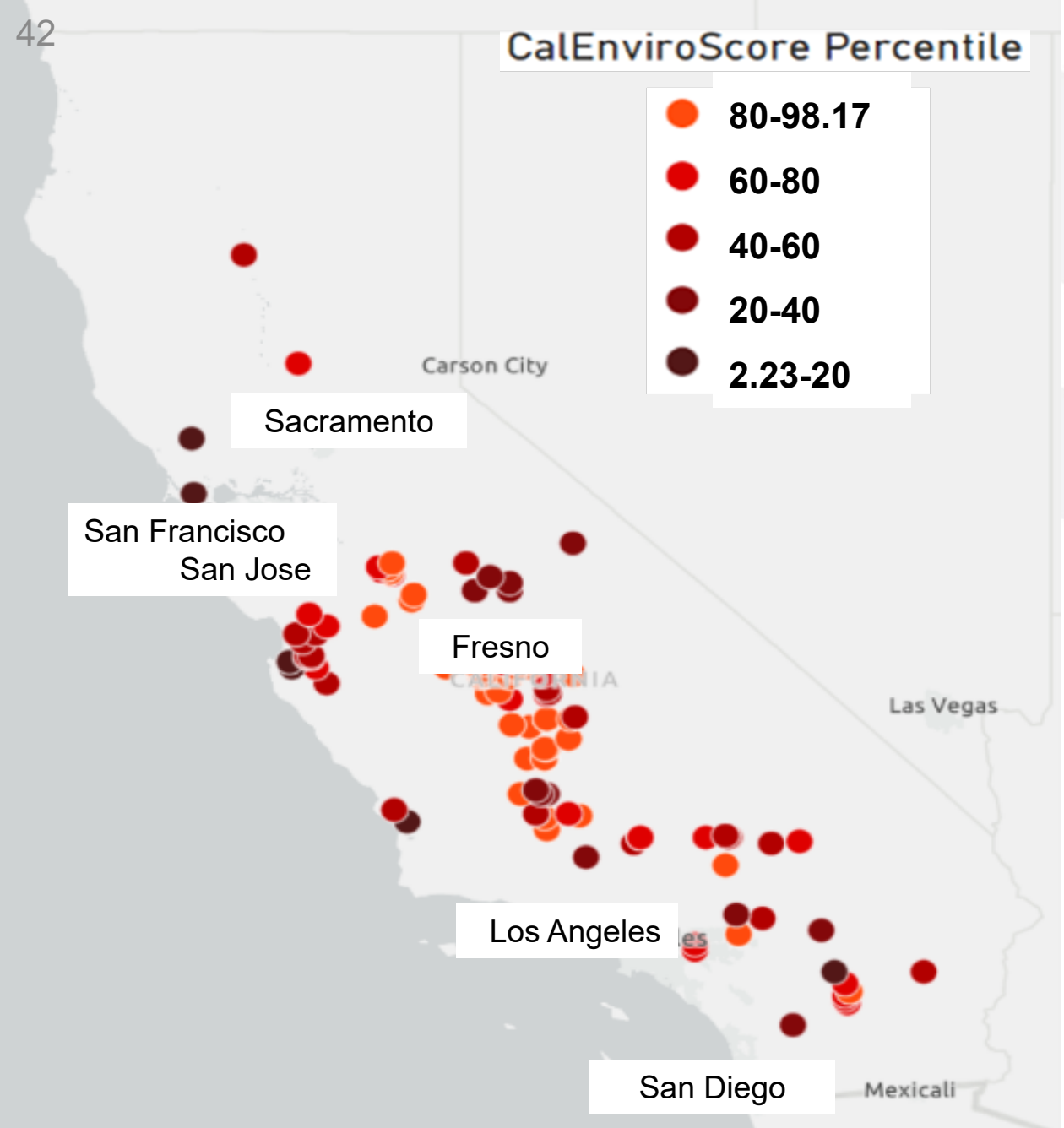
Current POU/POE Treatment
122 Public Water Systems

PWS Classification	Number of POU/POE Permitted PWS	Number of POU/POE Proposed PWS	Total Number of PWS with POU/POE
Community	20	6	26
Non-transient non-community	42	27	69
Transient	22	5	27

NTNC – Non-transient noncommunity
TNC – Transient noncommunity

C – Community
Inactive – Inactive water system

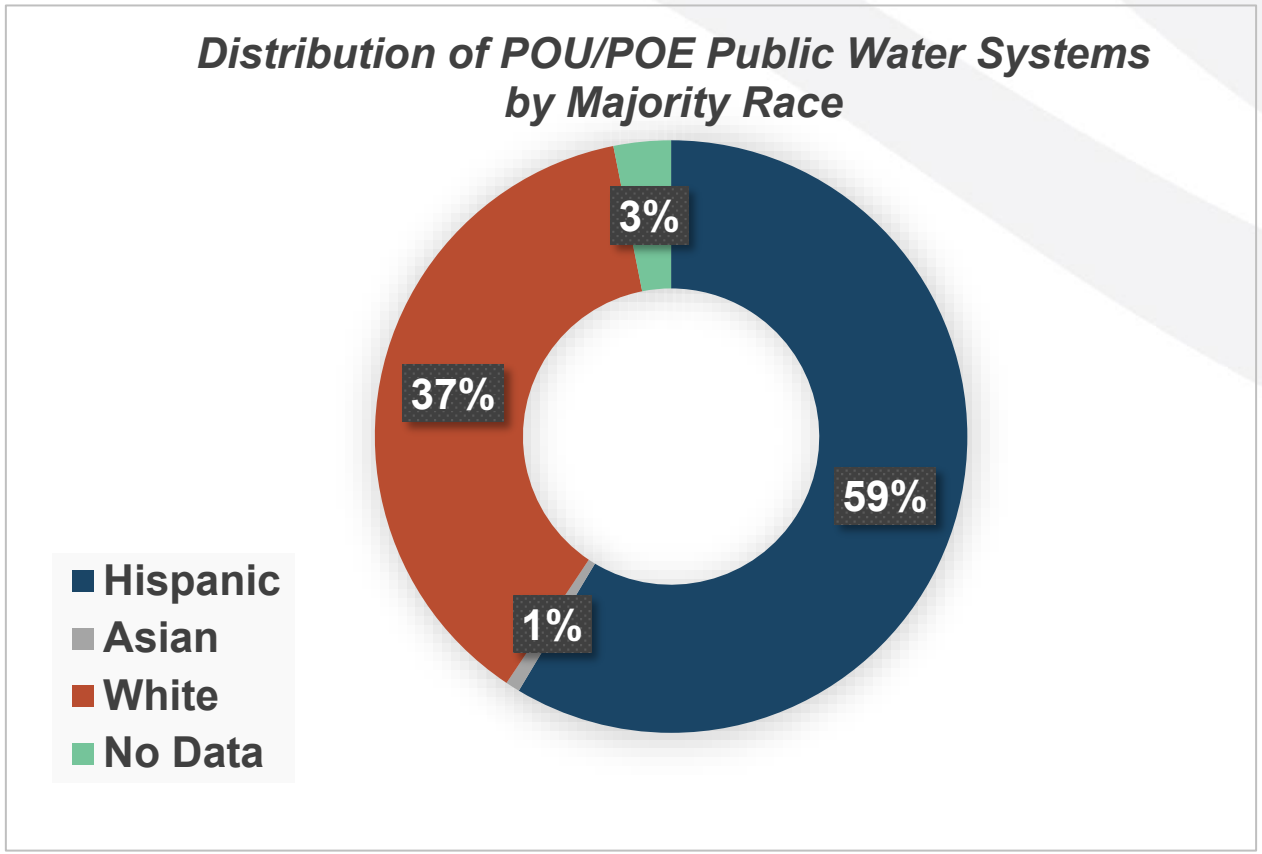




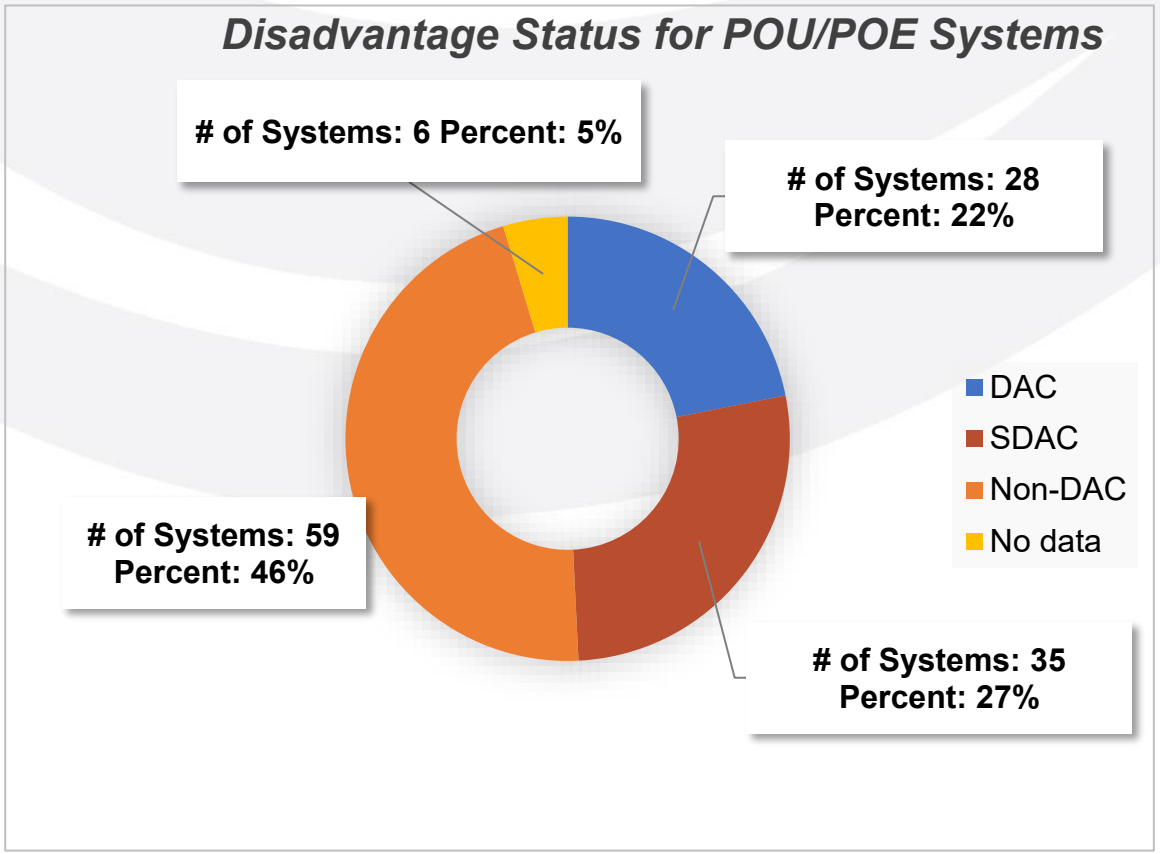
Equity Considerations

- Majority race
- Disadvantaged Communities

Equity Considerations by Majority Race



Equity Considerations: Disadvantaged Communities

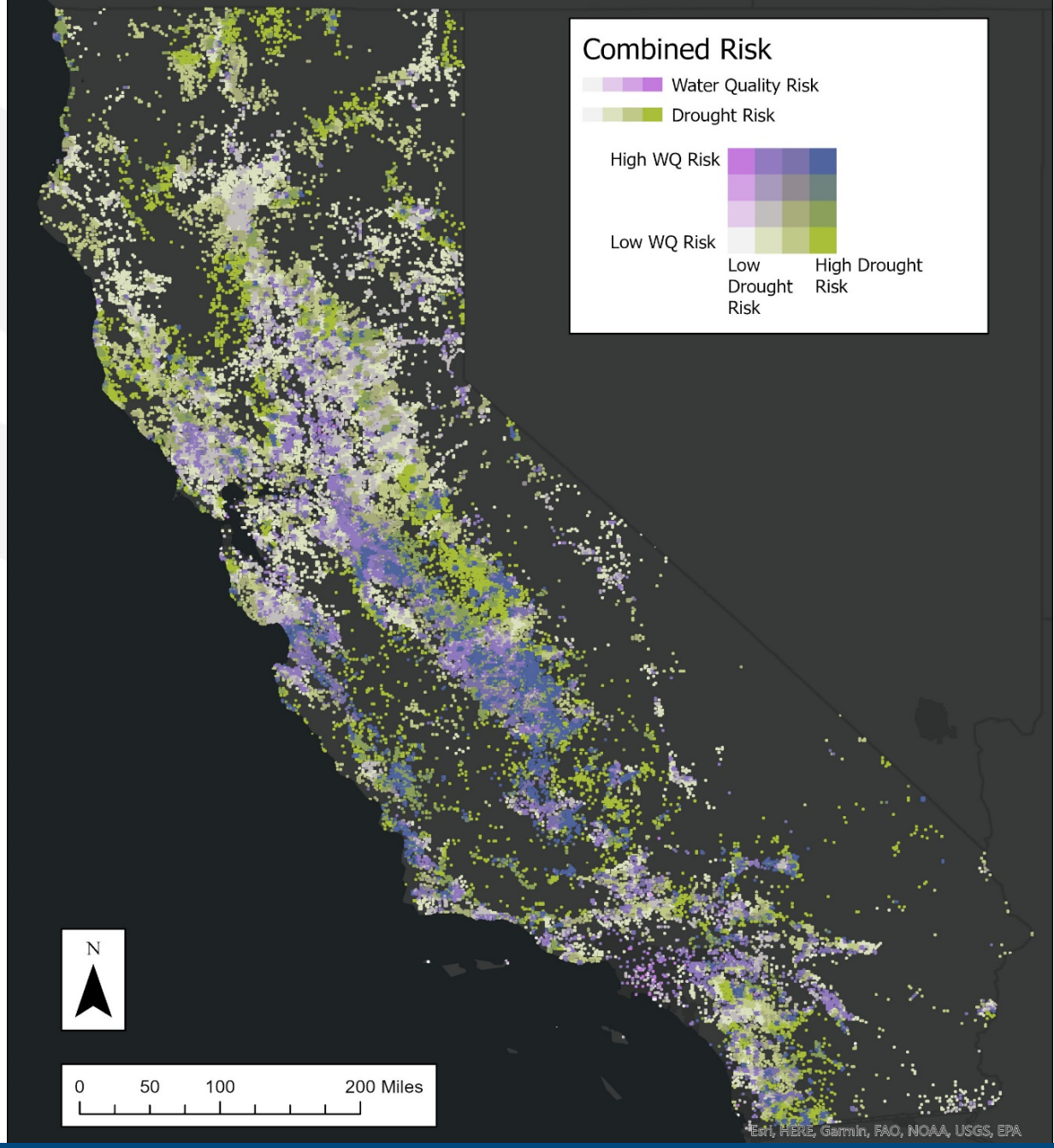


DAC – Disadvantaged communities
SDAC – Significantly disadvantaged communities
Non-DAC – Non-disadvantaged communities
No Data – no data for the corresponding public water system

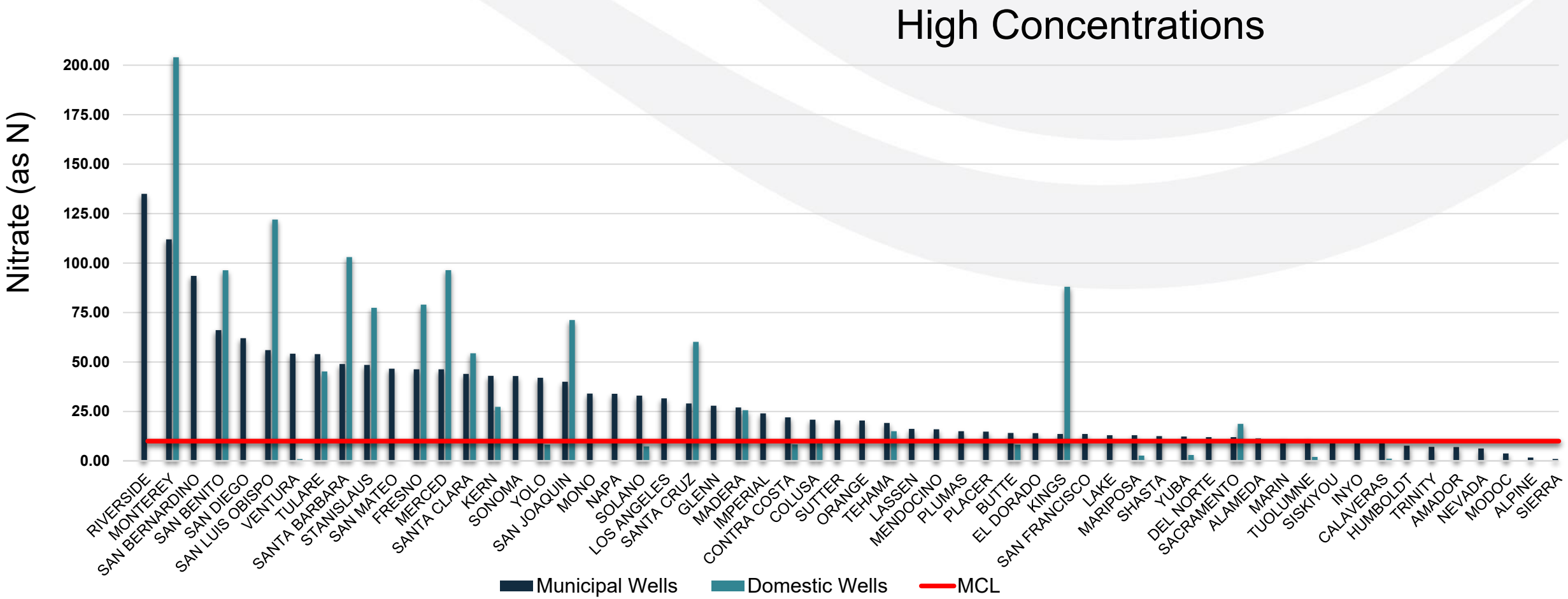
Domestic Wells

- **SAFER Needs Assessment:**
  - Water Quality Risk shows future needs
- **Different paradigm than PWS:**
  - Less oversight/support
  - Less sampling
  - County/Regional implementation

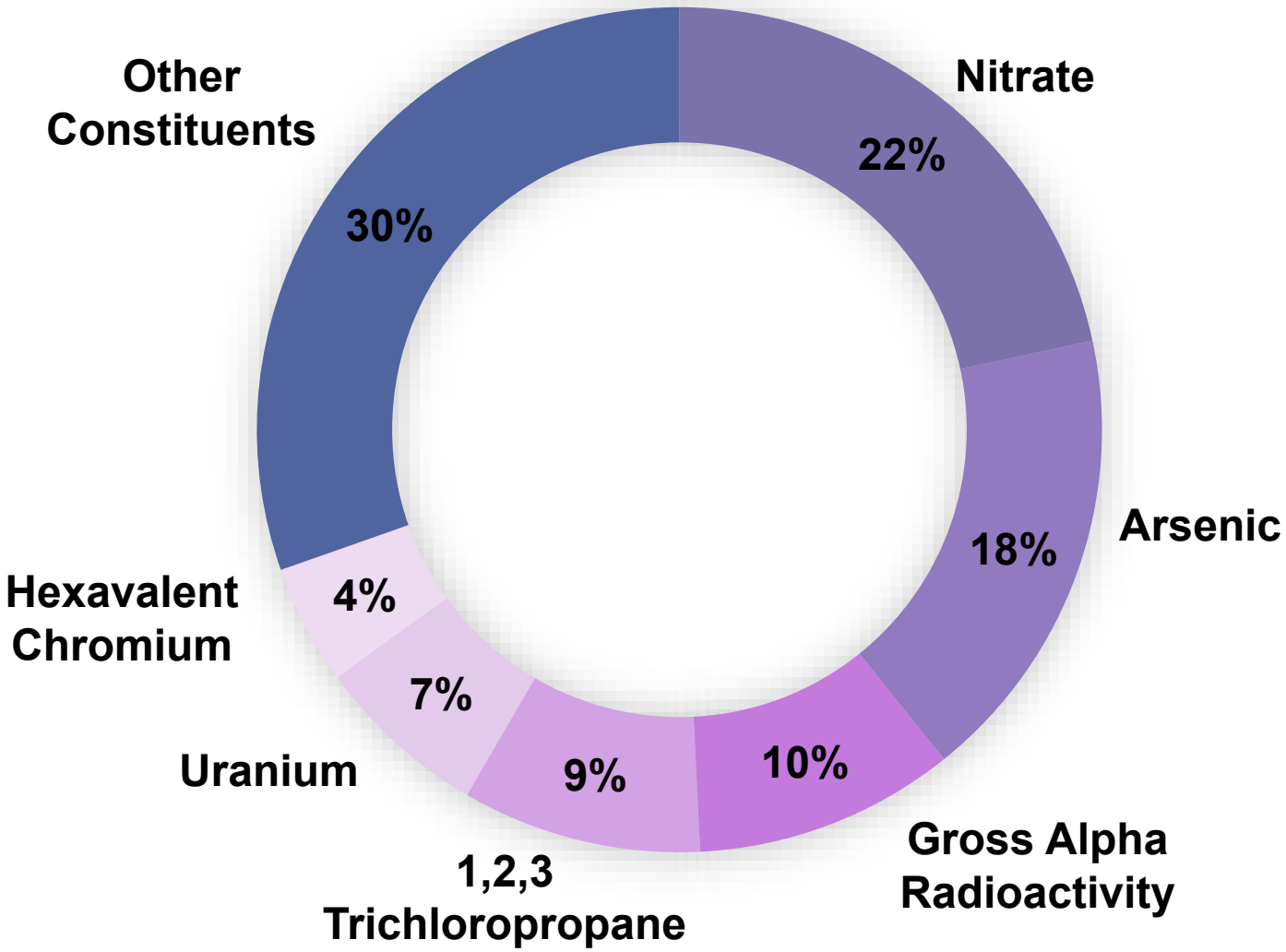
System Type	Long-Term Solutions: POU and POE	Interim Solution: POU and POE
PWS	106	196
SSWS	303	473
Domestic Wells	36,911	55,888



Water Quality Challenges



Multiple Contaminants



Outreach

1. What are the limitations/obstacles for POU/POE success?
2. Outreach Sessions
   - Practitioners / Technical Assistance
   - Local Government
   - Environmental Justice
   - Water Industry (Certifiers/Manufacturers)

Recommendation Highlights

- **Equity**
  - Awareness and monitoring for equitable use of POU/POE
  - Shift to POE for all long-term applications
- **Awareness**
  - Multi-lingual informational materials
- **Outreach**
  - Establish regular community meetings in communities with POU/POE
  - POU/POE Operator Education Cohort and Workforce Development
- **Technical**
  - Additional certification for California specific contaminants and high nitrate
  - Bacteriological contamination alternatives
- **Legislative and Regulatory**
  - Address 100% participation requirements & expedited process for interim solutions

Pilot Studies

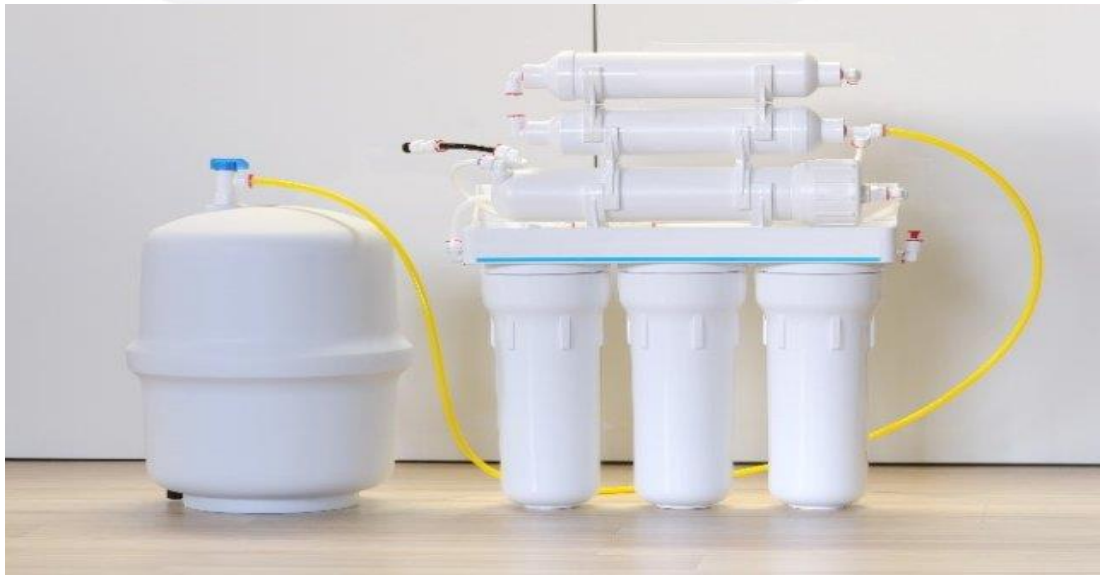
- **Educational Strategy and Materials**
  - Develop a strategy and multilingual materials to educate and involve individuals on POU/POE.
- **Performance Certification**
  - Applicable to POU and/or POE
  - Develop performance certification for TCP, Cr6, uranium, high nitrate.
- **Bacteriological Contamination in Domestic Wells** – *Applicable to individual surface water*
  - Install UV disinfection in combination with POU/POE at domestic well residences.
  - Gather data to determine real world pathogen reduction.
- **Smart Devices**
  - Continuous performance monitoring and less intrusive O&M.
  - Real time device performance, optimized O&M and increased individual/community trust.
- **Operator Education Cohort**
  - Develop an educational program to implement POU/POE in communities.
  - Workforce development, community outreach, trust building, installation, technical aspects, and O&M.
- **POU vs. POE**
  - Ease of installation, resident perception, ease of operation and maintenance, ease of access and treatment effectiveness.

Conclusions

- Community/Individual trust determines success
- Share water treatment responsibility with residents
- POU/POE less sustainable solution, must track and consider equity
- POU/POE lack of educational resources and trusted specialized providers
- Installation and compliance is difficult
- Fundamental differences in implementation
- County/Regional Programs are needed to implement for DW/SSWS
- Device certification
- Bacteriological contamination is prevalent

Next steps to address Domestic Wells

- State Water Board funded County/Regional programs
- Direct outreach to individuals
- Implement recommendations and pilot studies
- Resources website to support programs and individuals
- Regional water quality workshops



Discussion Questions

1. What strategies should local agencies use for outreach and education efforts?
2. For the workforce development pilot study, what is the best strategy to recruit people who are not involved in the water sector?
3. Based on the pilot studies proposed on slide 49, do you have suggestions for additional efforts?
4. For POU/POE solutions, what equity tracking metrics should be prioritized?

Questions?

Comment or technical assistance, email safer@waterboards.ca.gov

BREAK

SAFER Program Updates

SAFER Program Updates

- State Auditor's Office Report
- Hexavalent Chromium
- Advisory Group Application
- Drinking Water Bills
- Affordability Assessment
- Racial Equity
- SAFER Webinar Series
- SAFER Timeline

SAFER Timeline

July - September

7/25 - 9**/23** Advisory Group Application Period

8/8 Proposed Updates to the Cost Assessment Model Webinar

8/8 Drinking Water Webinar Series Survey

8/11 Affordability Workshop 1

8/15 Release of Draft FEP

8/16 Board Workshop on FEP

9/9 Advisory Group Mtg #3

9/20 Affordability Workshop 2

October - December

10/11 & 10/13 POU/POE Workshops

10/TBD Release of POU/POE Report

10/TBD Administrator Handbook Workshop

~~11/1~~ **10/03** Board Considers Adoption of FEP

11/1 Affordability Workshop 3

11/TBD Cost Assessment Workshop

12/1 Advisory Group Mtg #4

12/TBD Board Meeting on Administrator Handbook

12/TBD Advisory Group Members Selected

12/TBD 2023 Needs Assessment Workshop

Questions?

Comment or technical assistance, email safer@waterboards.ca.gov

BREAK

Advisory Group Member Announcements

Advisory Group Member Announcements

- Project title/Event title
- Project timeline/Event date
- Purpose/Objective
- Intended outcomes/Next steps
- Project/Event resources
- 3-5 minutes per announcement

Public Comments

1. Email Comment to safer@waterboards.ca.gov.
2. Follow instructions in the return email to join Zoom.
3. Wait to be called on. You will have 3 minutes to speak.
4. Technical or language assistance, email safer@waterboards.ca.gov.

Adjourn

Thank you!

safer@waterboards.ca.gov
916-445-5615