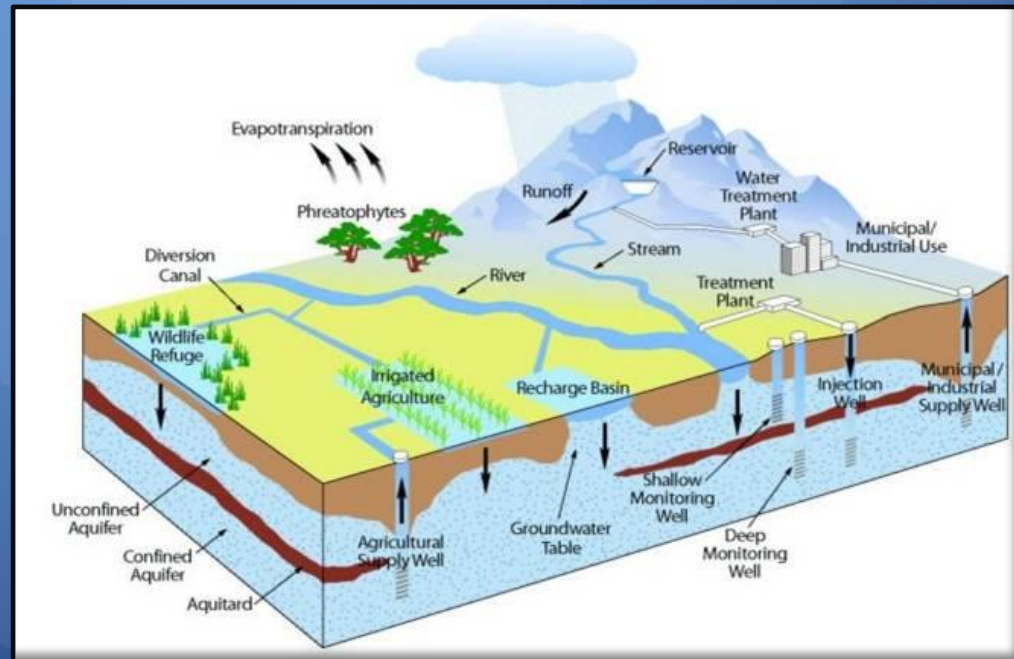


Sustainable Groundwater Management in California



Presentation Overview:

- *Setting the Framework*
- *State Intervention*



Setting the Framework

SGMA Milestones for Success

Groundwater Sustainability Agencies

- Formation by June 30, 2017
- Only local agencies can be GSAs

Groundwater Sustainability Plans

- January 31, 2020 for critically overdrafted basins
- January 31, 2022 for all other high and medium priority basins
- Multiple GSPs in a basin must coordinate

Groundwater Sustainability

- 20-year implementation period
- 50-year planning horizon

GSA Interactive Map

This interactive map shows the location of local agencies that have elected to become Groundwater Sustainability Agencies (GSAs). The boundaries of the GSAs are based on information submitted to DWR by those local agencies. While DWR makes every effort to provide accurate information, DWR has not reviewed the GSA boundary information contained in this map and makes no warranties as to the suitability of this map for any particular purpose. Where multiple local agencies have claimed the same portion of a groundwater basin, the areas of overlap are indicated by a darker color within the GSA boundaries.

In addition to GSA boundaries, the interactive map application shows the following: (1) Bulletin 118-2003 groundwater basins; (2) CASGEM basin prioritization; (3) adjudicated areas listed in Water Code § 10720.8 (full list available soon); and (4) local agencies listed in Water Code § 10723(c) (available soon).

If you have questions related to GSAs or have comments related to the interactive map please contact Mark Nordberg at Mark.Nordberg@water.ca.gov. The GSA Interactive Map was last updated on August 10th, 2015.



DWR SGM Immediate Actions

Identify Basins Subject to Critical Conditions of Overdraft

Evaluation due 2015-2016
Completed (January 2016)

Develop Emergency Regulations - Basin Boundary Revisions

Regulations due January 1, 2016
Regulations Completed (November 2015)

Develop Emergency Regulations - (Groundwater Sustainability Plans)

Final Regulations due June 2016
Draft expected release in February 2016

Update Basin Prioritization

Used existing - January 2015
Re-prioritization following basin boundary revisions in 2017

Groundwater Sustainability Agency Formation

Complete Notifications and No Overlapping GSAs

Facilitation Services

18 Applications

Water Available For Recharge

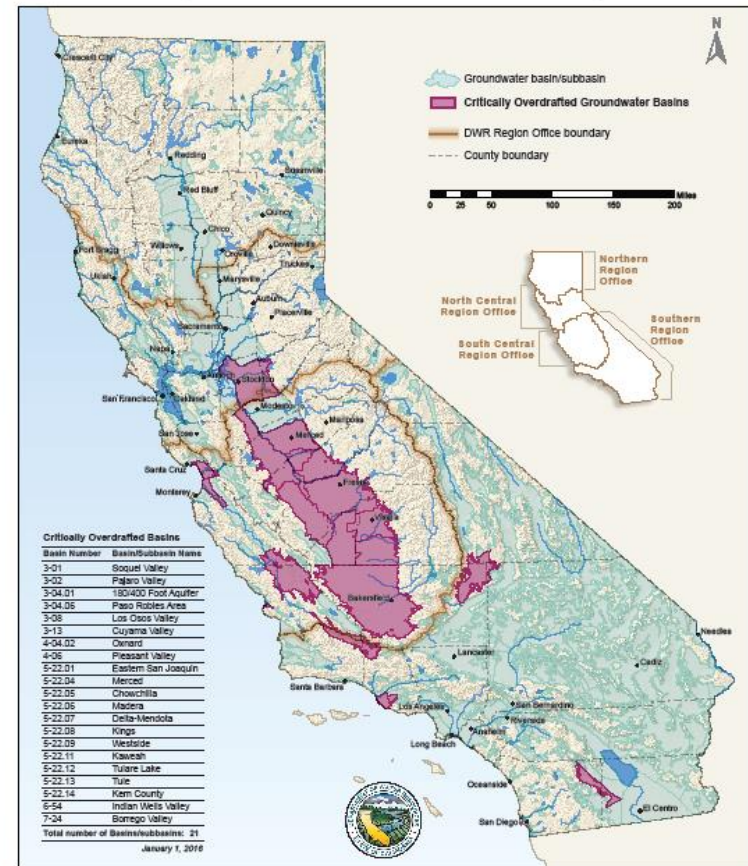
Due December 31, 2016
Draft White Paper
Complete February 2016

Basins Subject to Critical Overdraft

Identify Basins Subject to Critical Conditions of Overdraft

Completed January 2016

Critically Overdrafted Groundwater Basins – January 2016



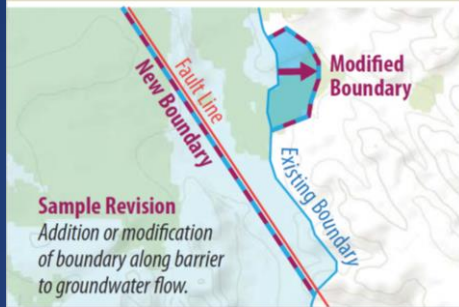
Basin Boundary Regulations

Article 3

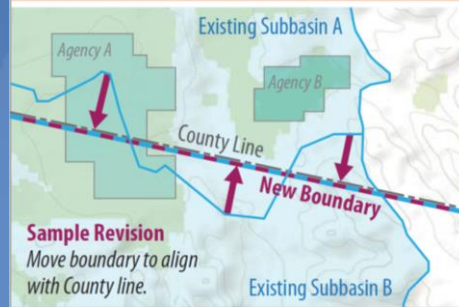
Scientific

Jurisdictional

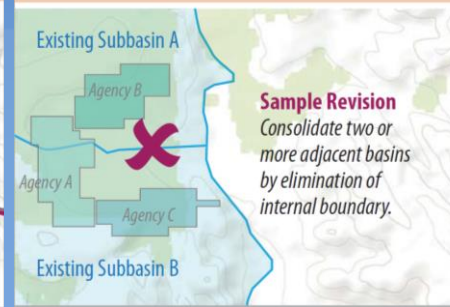
Scientific



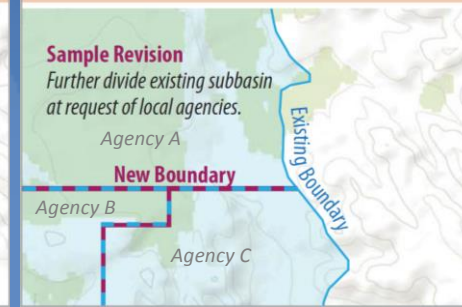
Internal (Jurisdictional)



Consolidation (Jurisdictional)



Subdivision (Jurisdictional)



Develop Emergency Regulations - Basin Boundary Revisions

Draft Regulations Posted (July 2015)

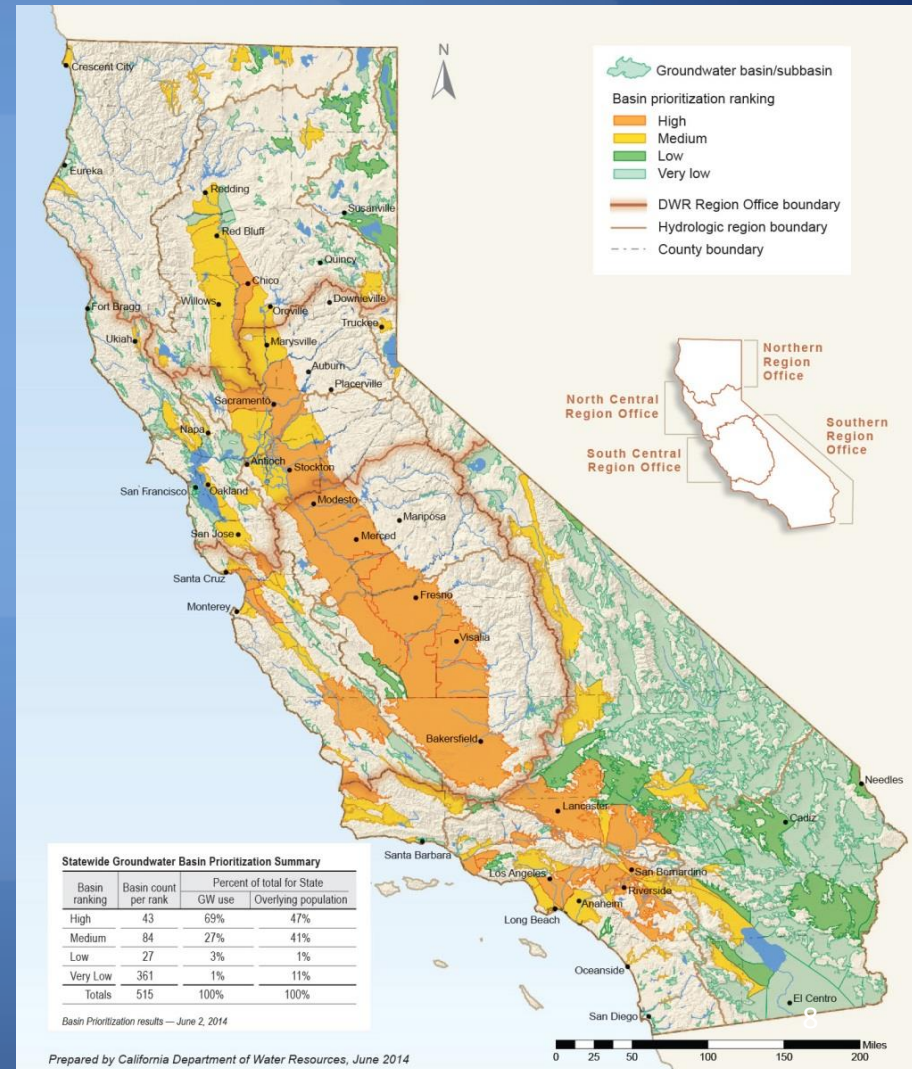
Public Comments Closed (Sept 2015)

Regulations Completed (November 2015)

SGMA Basin Prioritization

Update Basin Prioritization

Used existing - January 2015
 Re-prioritization following basin
 boundary revisions in 2017



Groundwater Sustainability Plan Regulations

Groundwater Sustainability



*Undesirable Results:
Significant and Unreasonable...*



Surface Water
Depletion



Reduction
of Storage



Degraded
Quality



Seawater
Intrusion



Land
Subsidence



Lowering
GW Levels

Governance

Coordination

Land Use

State of the Basin

Sustainability
Goal

Measurable
Objectives &
Undesirable
Results

Monitoring Plan

Implementation
& Reporting

Alternative
Plans & Frings
Areas

Draft Regulation Components

Overview

Governance & Coordination

"Who is managing & participating"

Basin Setting

"What are the current conditions"

SGM Planning

"How will GW be managed & measured"

Evaluation

"Reporting, Evaluation, & Adaptive Management"

Equivalent GSPs

Draft Regulation Articles

Article 5 – Administrative Information
Article 8 - Coordination Agreements

Article 5 – Basin Setting

Article 5 – Sustainable Management Criteria
Article 5 – Monitoring Networks
Article 5 – Projects and Management Actions

Article 6 – Evaluation and Assessment

Article 9 - Alternatives

Stakeholder Input

All Topics

6 - Coordination Agreements

7 - State Agency Coordination

8 - Water Budgets and Coordination

3 - Land Use & County Involvement

2- Pre SGMA Conditions and Undesirable Results

1 - Measurable Objectives

2- Pre SGMA Conditions and UR's

8 - Water Budgets and Coordination

10 - Adaptive Mgt. and Focus Areas

1 - Measurable Objectives

2- Pre SGMA Conditions and UR's

9 - Data Collection, Mgt., & Reporting

9 - Data Collection, Mgt., & Reporting

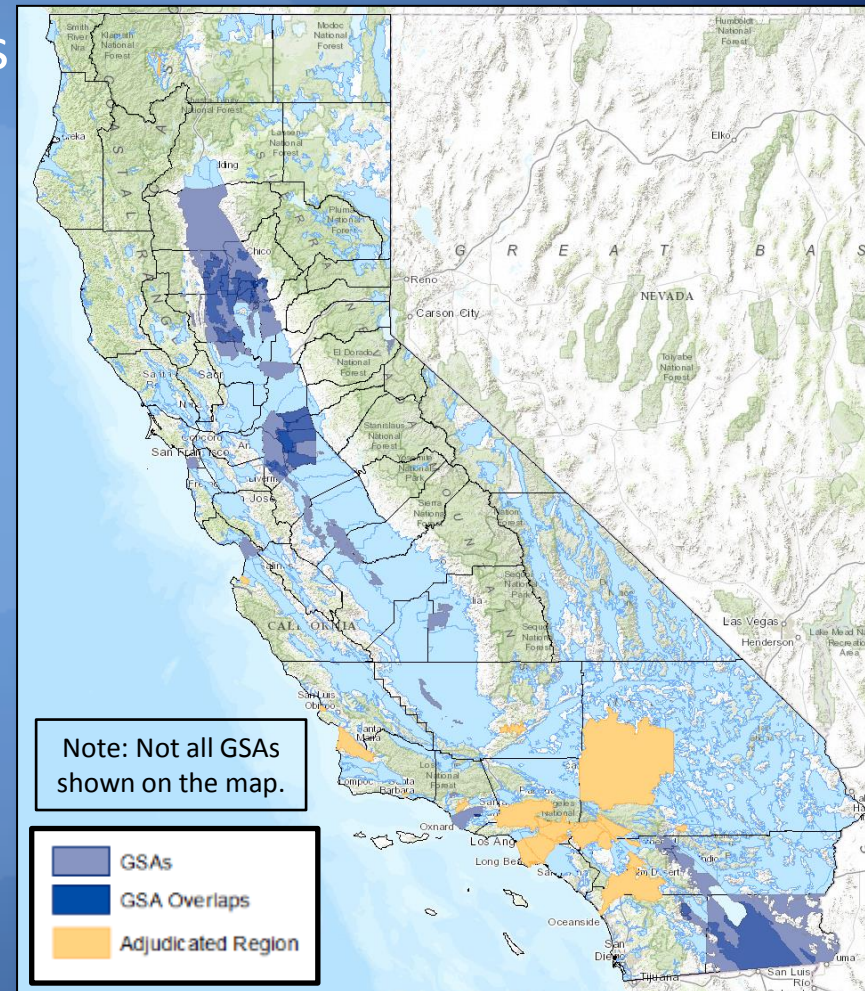
10 - Adaptive Mgt. and Focus Areas

4 - Alternative GSP

5 - Boundaries, Overlapping & Unmanaged Areas

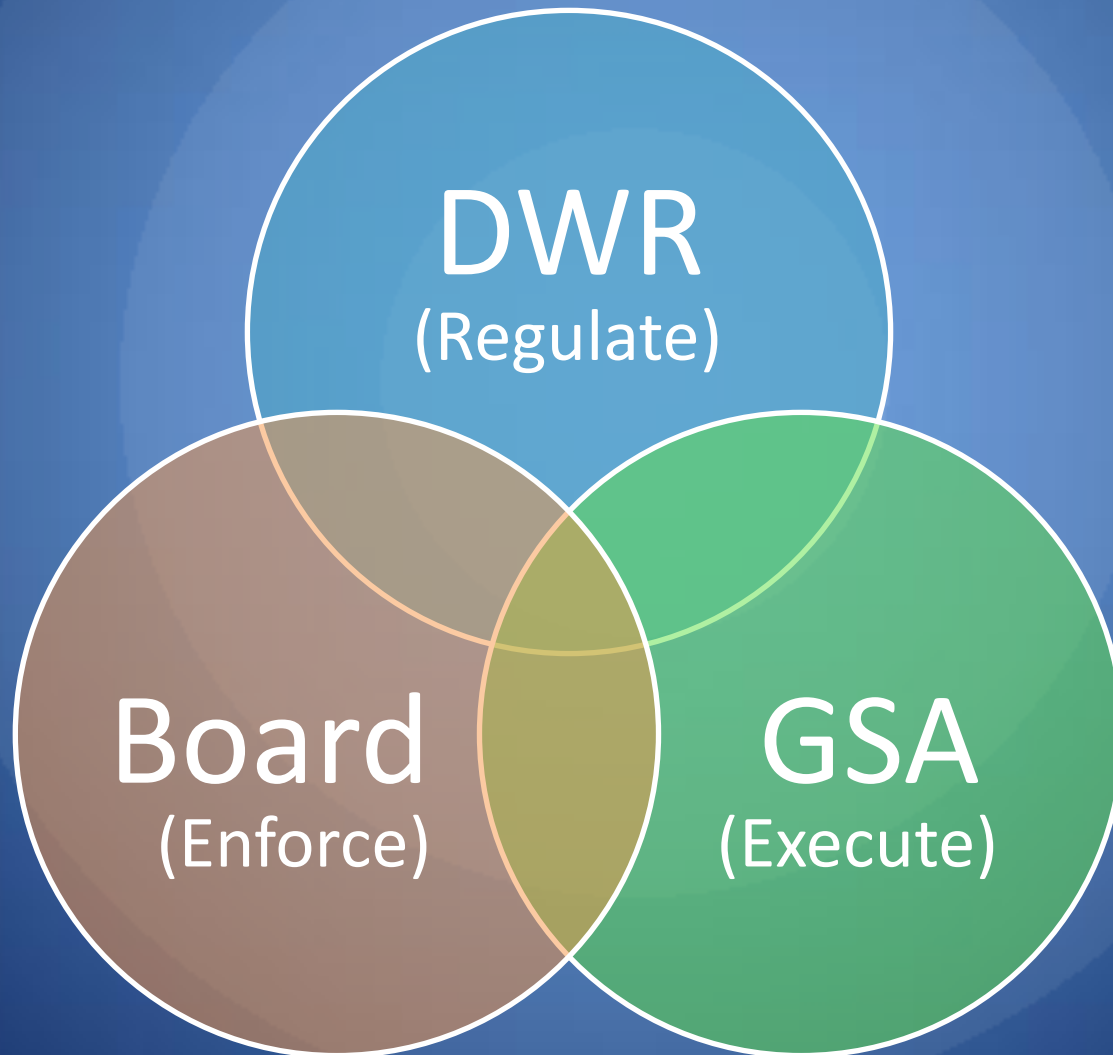
Status of GSA Formations (March 2016)

- 69 separate GSA formation notices have been submitted
 - 43 have overlap in one or more basins that must be resolved
 - 19 are “Exclusive GSAs” in one or more basins
 - 4 have an active 90-day period
 - 3 have been determined incomplete
 - 1 has an incomplete map
 - 1 did not submit an MOU
 - 1 proposed to overlie an Exclusive GSA
- 64 basins have GSAs
 - 35 basins are high- or medium-priority
 - 29 basins are low- or medium-priority



State Intervention

SGMA needs are driven by role



Intervention Basics

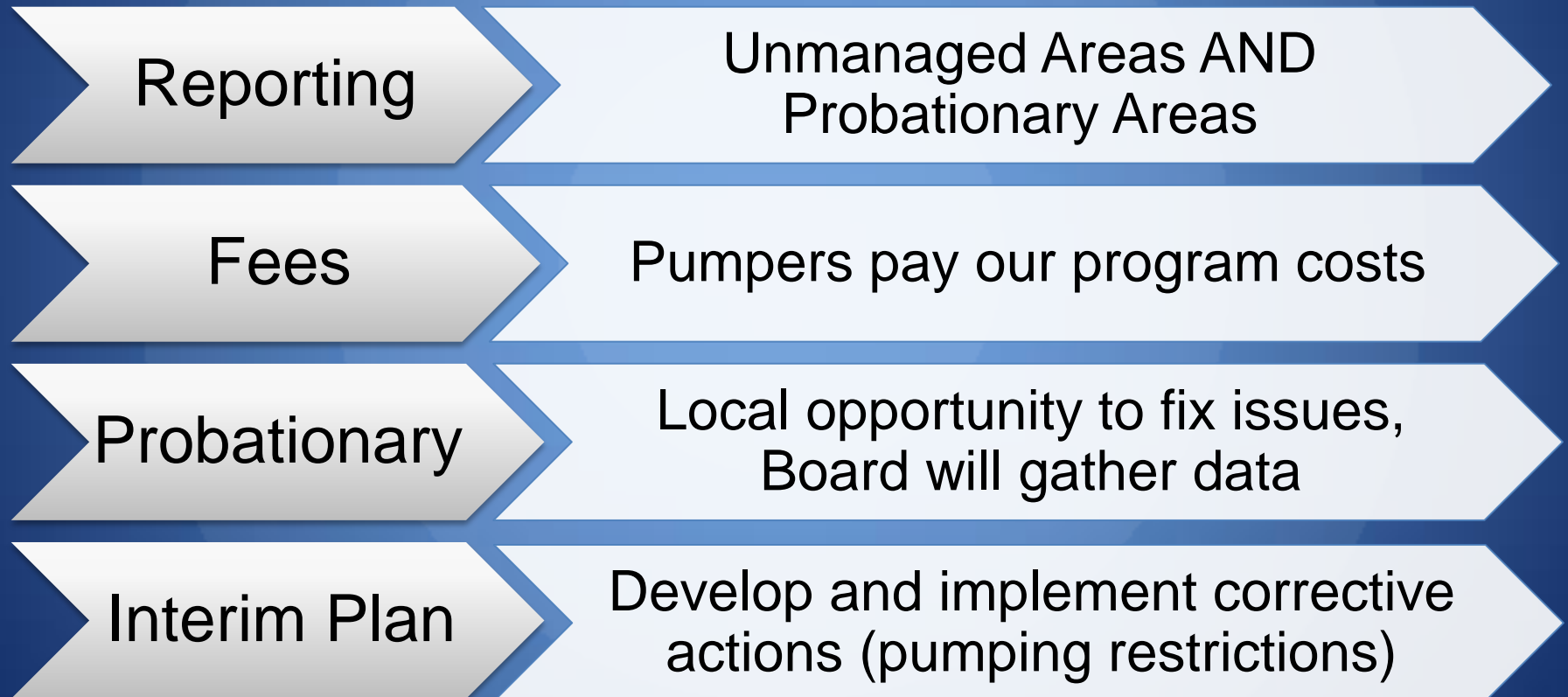
- In every circumstance, State Board can only step in when local efforts fail
- Timing and role of State Board intervention depends on how locals fail
- Numerous off-ramps for locals to avoid management by the state

The “Backstop” State Board Intervention

After	Intervention Trigger
June 30, 2017	Unmanaged Areas
Jan. 31, 2020	Basin in critical overdraft and either: 1) No plan 2) Inadequate plan
Jan. 31, 2022	1) No plan, or 2) Basin in long-term overdraft and inadequate plan
Jan. 31, 2025	Significant depletions of interconnected surface waters and inadequate plan

In all triggering events, intervention is the result of failure by locals to create a GSA or adopt and implement a GSP

State Board's Role as Basin Manager



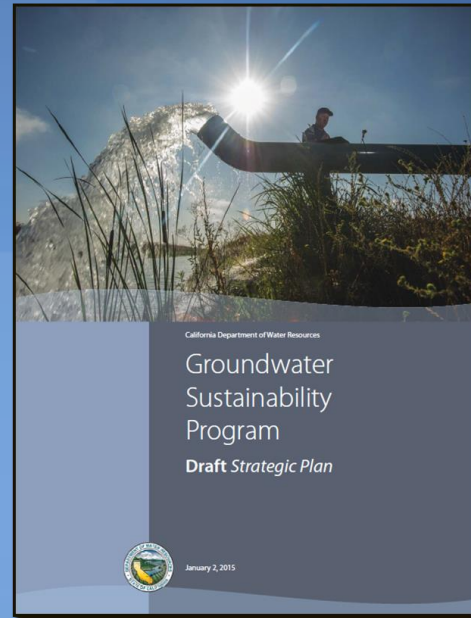
Data-related and Modeling Tasks

- Report collection system
 - Must be highly scalable
 - Enforceable
 - Publically Available and Transparent
- Identification of corrective actions
 - Long-term overdraft
 - Significant and unreasonable depletions of interconnected surface waters

Questions

When properly managed, groundwater resources will help protect communities, farms, and the environment against the impacts of prolonged dry periods and climate change.

California Water Action Plan 2014



State: groundwater.ca.gov

DWR: water.ca.gov/groundwater

SWRCB: waterboards.ca.gov/gmp

