

MONTEREY COUNTY
BOARD OF
SUPERVISORS

Monterey County Water Future – First Steps toward a 21st Century Water System

Regional Water Forum Themes

Existing Work Underway – We are Problem-Solving Now
March 15, 2022

Importance of a Water Secure Future
September 20, 2022

How do we Complete Our 21st Century Water System
Scheduled for December 13, 2022

MONTEREY COUNTY BOARD
OF SUPERVISORS MEETING
SEPTEMBER 20, 2022

Agenda

Regional Water Forum #2

- Welcome, Introductions, and Opening Remarks
- Presentation
- Federal and State Perspectives
- Special District and Regulated Utility Perspectives
- Public Comment

Water is the lifeblood of our communities in Monterey County

The **interdependence** of water

Water is essential to human health and central to agricultural— the future will require refining priorities

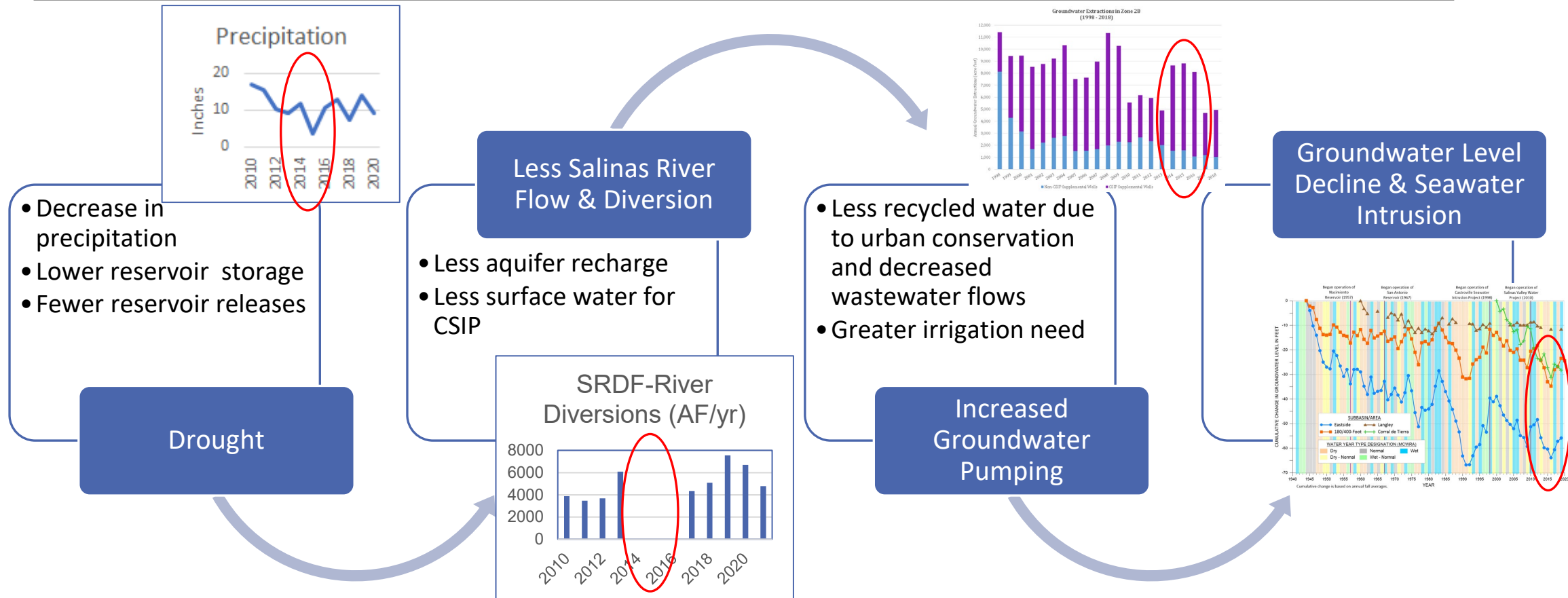
We have **relationships** with our neighbors

Further scientific understanding of our aquifers shows the **inter-relatedness of aquifers** in North County

Collaboration is required for success

Increasing demands on water and impacts from climate variability calls for a strategic, coordinated, and **urgent** approach

Climate variability calls for a coordinated approach to better understand, manage, and secure water



Challenges to Water Security

Climate change and drought test operational assumptions
Irregularity of precipitation and increased evaporation both matter

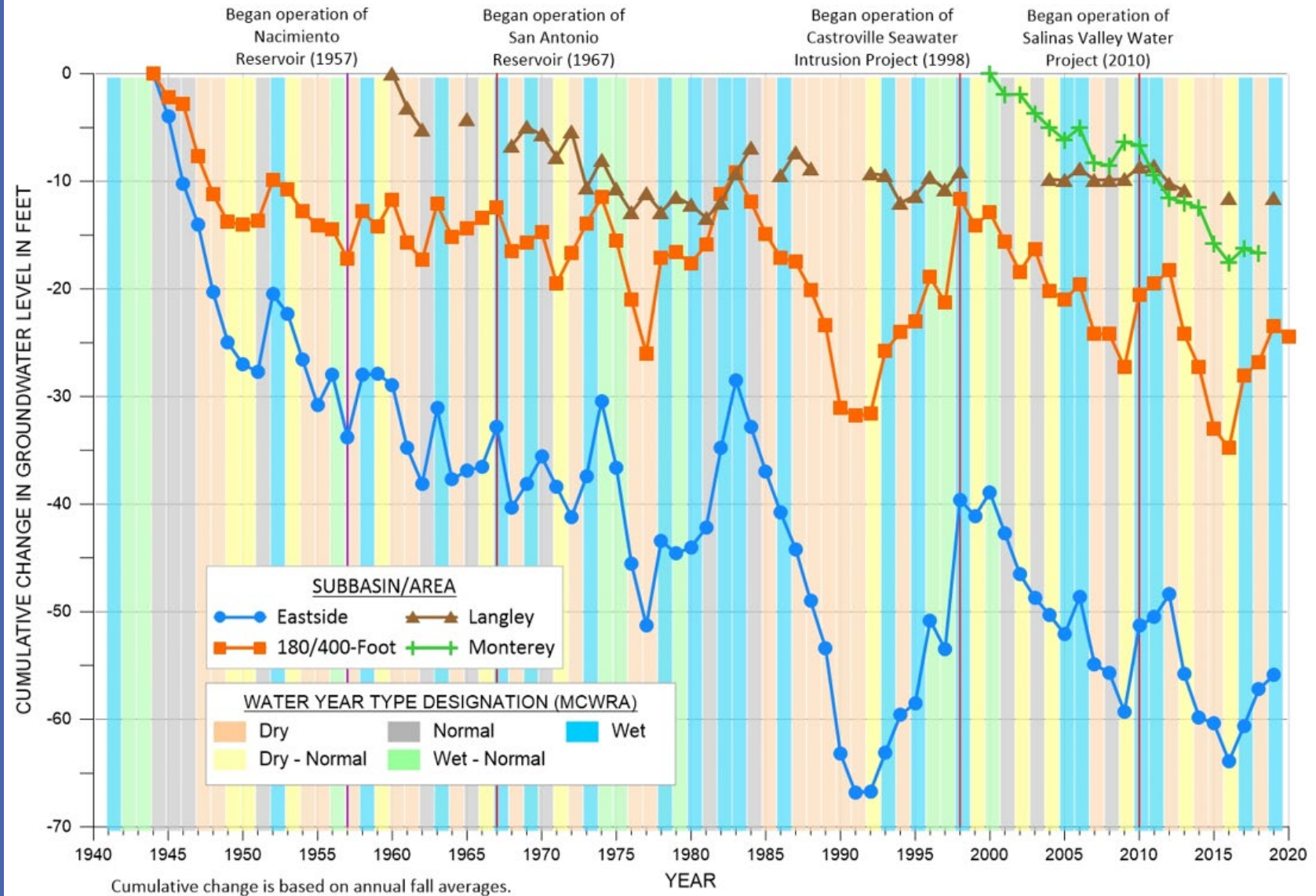


Water supply reliability & demand need to be co-assessed
Plan "B" may need to be quickly developed as conditions require
Supplies are interrelated



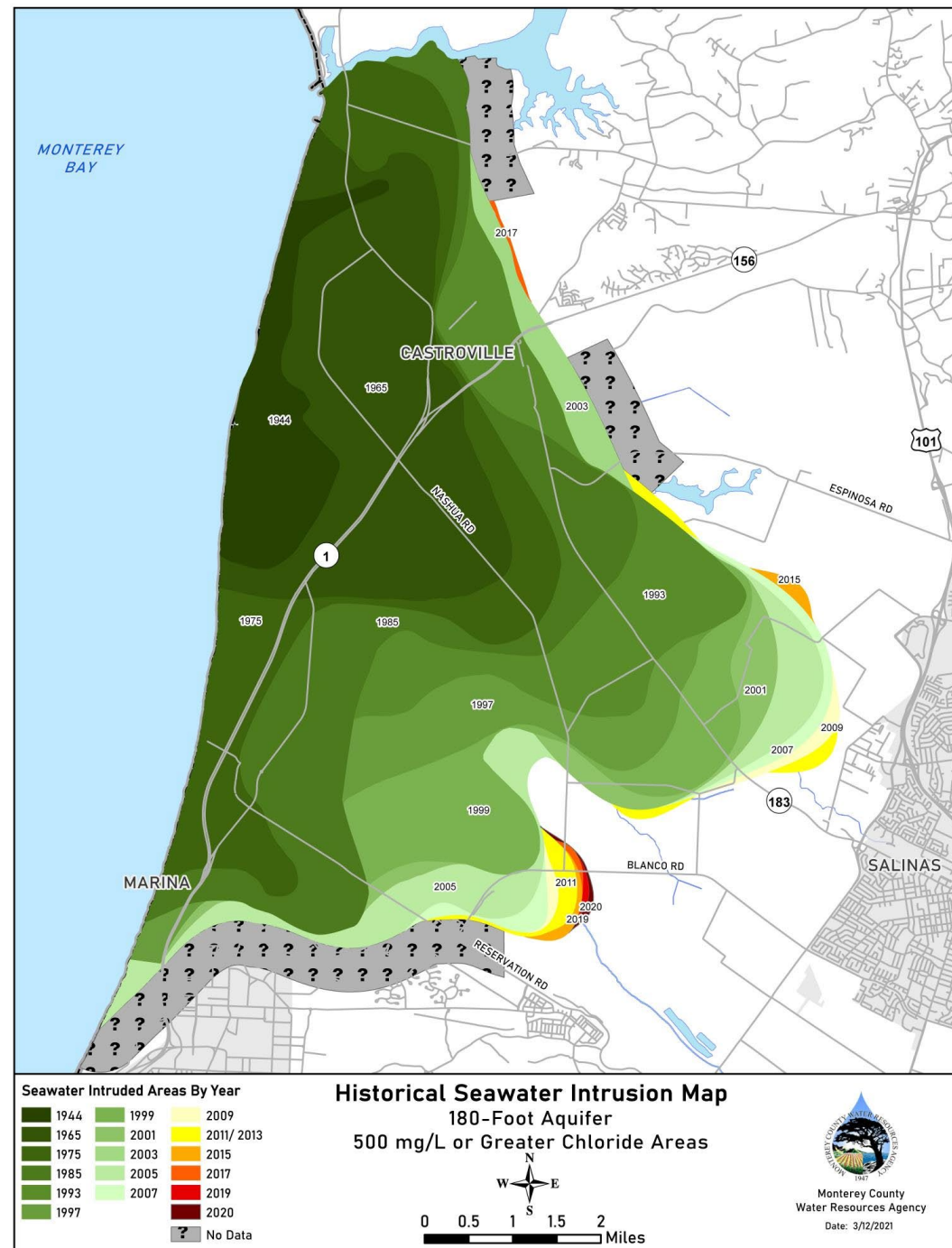
Cost of water
Environmental/permitting requirements
Complexity of funding projects

Current Challenges — Declining Groundwater Levels

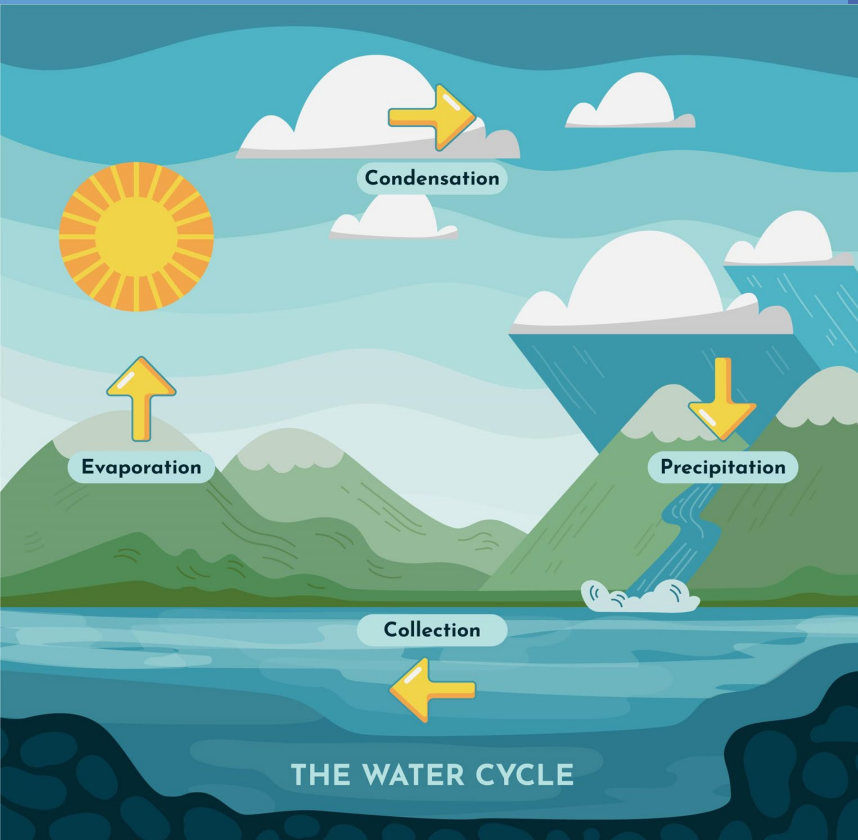


Current Challenges

Seawater Intrusion



Future Water Security Solutions



1. Better utilization of current supplies
 - Recycled water
 - Stormwater capture
 - Increased storage (above and below ground)
2. Create new supplies
 - Desalination
 - Brackish water desalting
3. Find ways to use less water
 - Leakage management
 - Demand management
 - Conservation
4. Planning for redundancy and reliability
 - Affordability
 - Fire protection
 - Emergency operations (power outages)
 - Interties

Our Water System Today

CSIP
Optimization



Pure Water Monterey



Stormwater
Recharge,
Conservation, &
Recycled Water Use



Deep Aquifers
Management



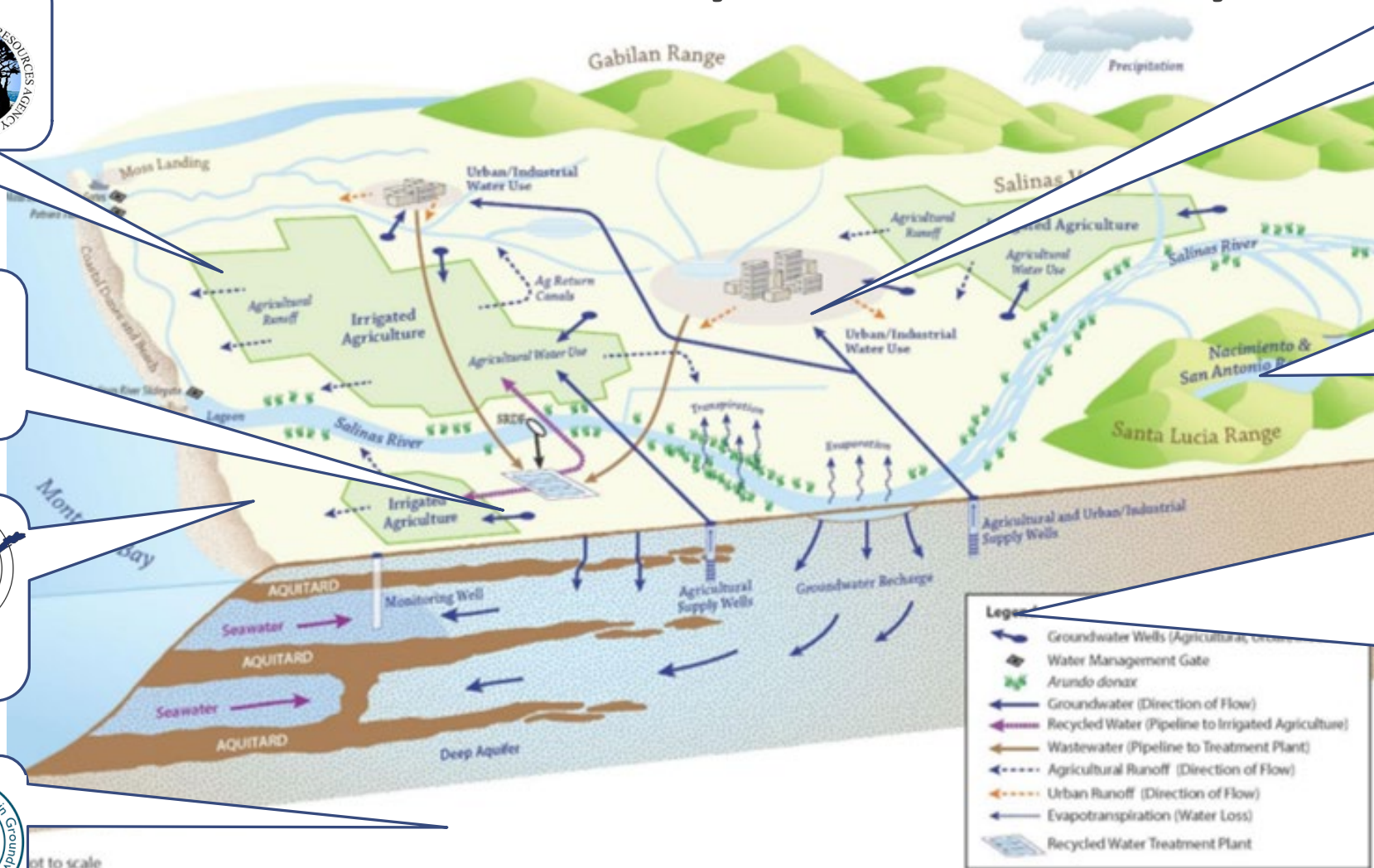
Providing safe water
for domestic users

Reservoirs:
Assets to
Maintain

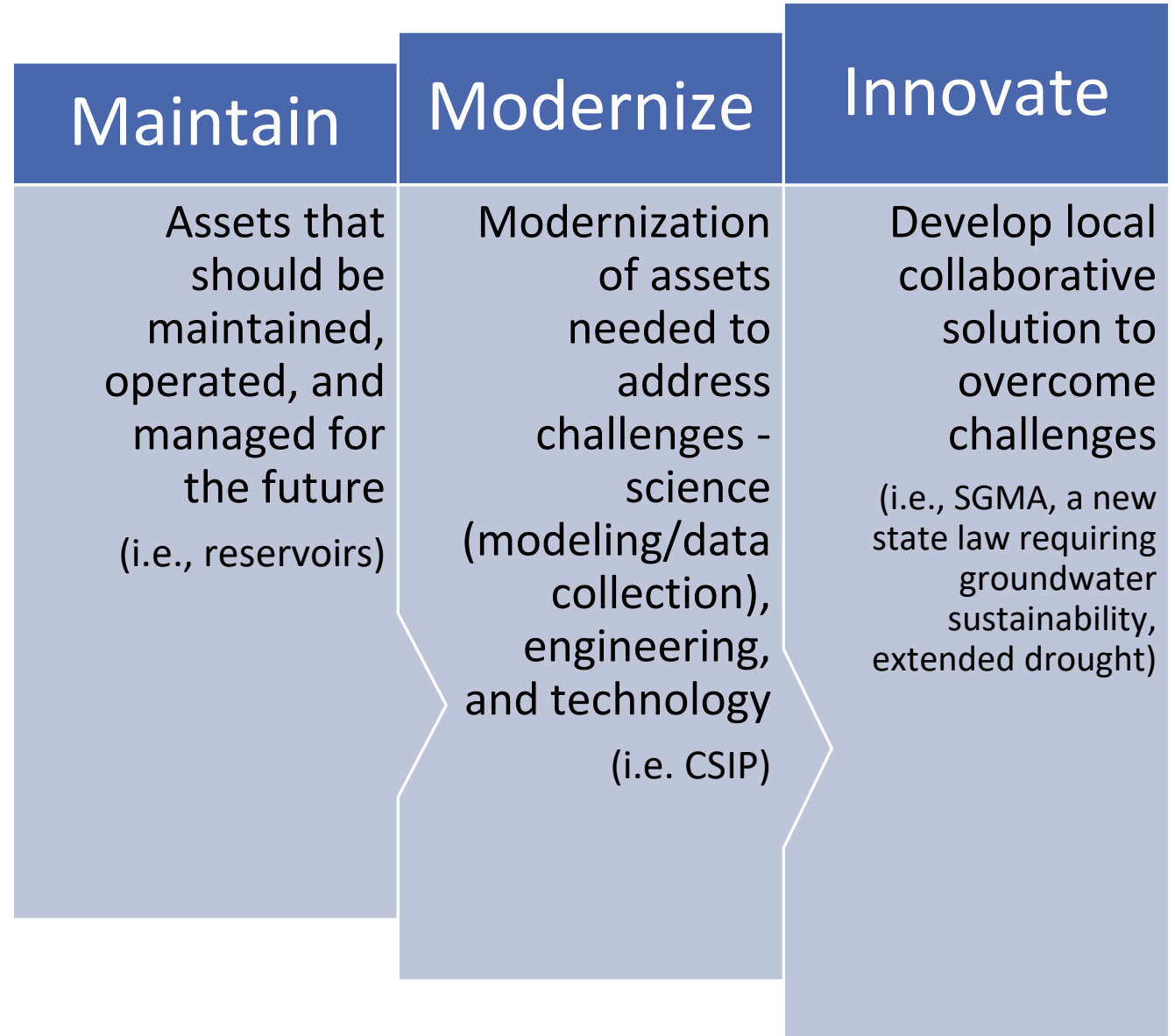


Groundwater
Sustainability Plans:

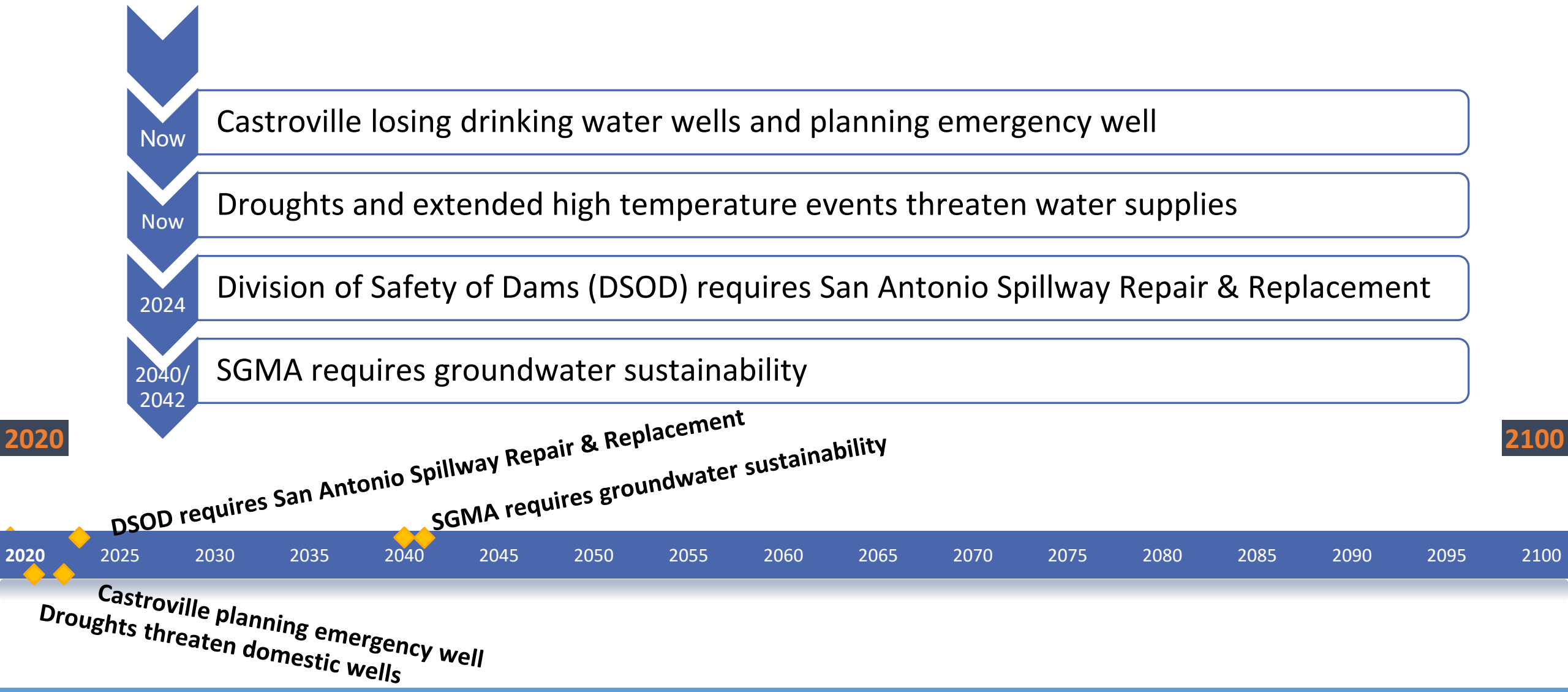
- 180/400-Foot
Aquifer Subbasin
- Langley Area
Subbasin
- Eastside Aquifer
Subbasin
- Monterey
Subbasin



Building on 75-
years of water
infrastructure
assets, we need to:



Pressing Timeline



Regional Priorities - Examples

Coordination on Operations

- Water scheduling in CSIP

Impact Avoidance – surface and groundwater

- Water Quality
- Reduced groundwater elevations

Evaluating Feasibility – affordability, effectiveness

- Aquifer Storage and Recovery in the 180/400
- Brackish water desalting

Pursuing Projects

- Nacimiento/San Antonio repairs/rehabilitation
- Pure Water Monterey

Obtaining Funding



Work Ahead:

Vision of a 21st Century Water System

Environmental benefits	Provide aquatic habitats with sufficient water
Good quality water	Have water quality suitable for urban and agricultural users
Groundwater sustainability	Fulfill groundwater regulatory requirements –SGMA
Healthy groundwater ecosystems	Groundwater dependent ecosystems and interconnected surface waters
Economic prosperity	Meet economic and social needs (housing RHNA goals, agriculture, underrepresented communities, etc.)
Climate resilient	Have a robust, resilient water system amidst climate change

Today's Board Listening Session

Federal and State Perspectives and Funding Opportunities

Potential regional project partners

- Special District Water Agencies and Regulated Utilities
- Questions
 - Where do you see progress towards regional solutions in the next five years?
 - What are the biggest challenges to getting there?

Public Comments

Board Comments