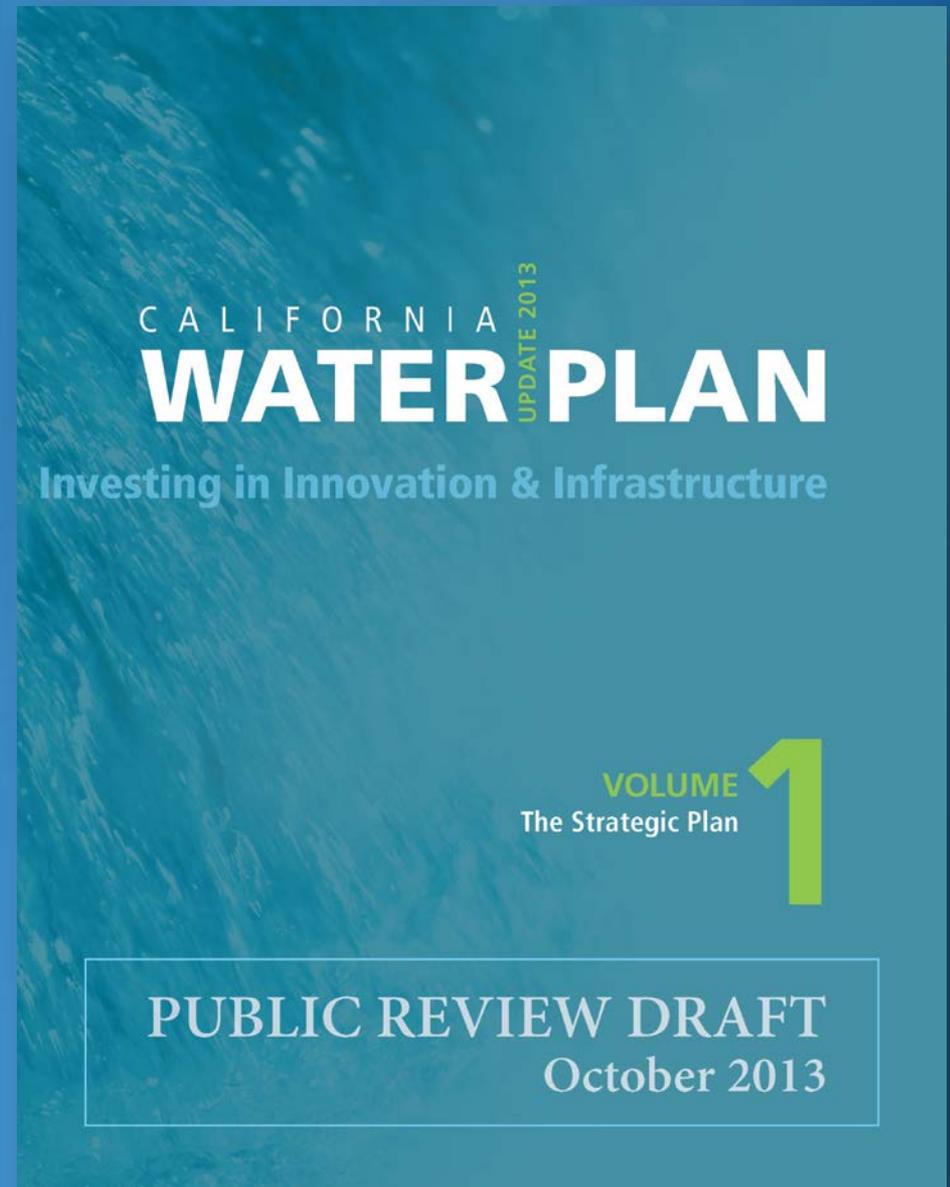


Water Plan Update 2013

Sketching Out The Highlights Booklet

California Water Plan Plenary

October 30, 2013



Water Plan Update 2013 Highlights Session Objectives

- Receive input regarding what should be in the Highlights booklet
- Sharpen and tailor the Water Plan message for key audiences

Water Plan Update 2013 Highlights

Primary Audiences

- State Legislature
- State government agencies
- Local and regional water managers
- Tribal and federal governments
- Academic Institutions
- Local land use decision-makers
- General public/voters

Highlights Content

*Using Update 2013 PRD
Executive Summary as
Starting Point*

Update 2013 Highlights

Purpose of Water Plan

- Update 2013 provides a roadmap that:
 - Informs legislative action
 - Supports planning and decision-making at all levels of government

Defining the Challenges *Imperative to Invest*

Water Plan Update 2013 Highlights

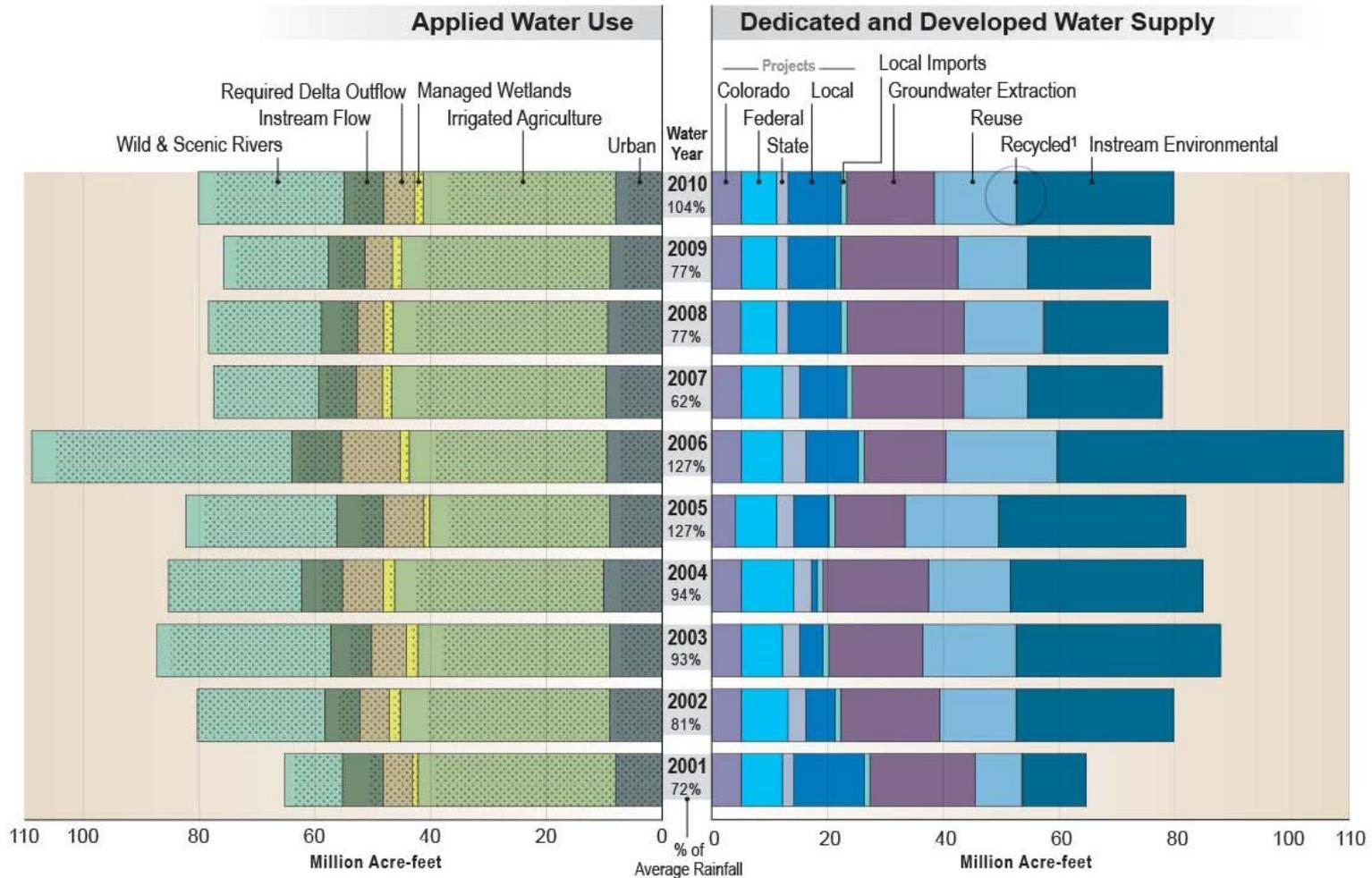
Challenges

- Recent investment has yielded benefits, however
- Many water conditions and trends in many areas of California need improvement
- Significant threats to future prosperity (public safety, environment and economy)
- All Californians (*and the Nation*) have a stake
- The future is highly uncertain

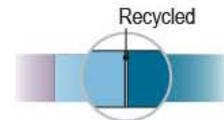
Update 2013 Public Review Draft *Challenges*

- California water managers are being asked to do more with less at a time of:
 - Economic downturn
 - Rising public sector debt
 - Weakening public support for additional investments
- Update 2013 - State's long-term strategic plan for guiding decisions under these challenging circumstances

Water Uses and Supply Sources (2001 – 2010)

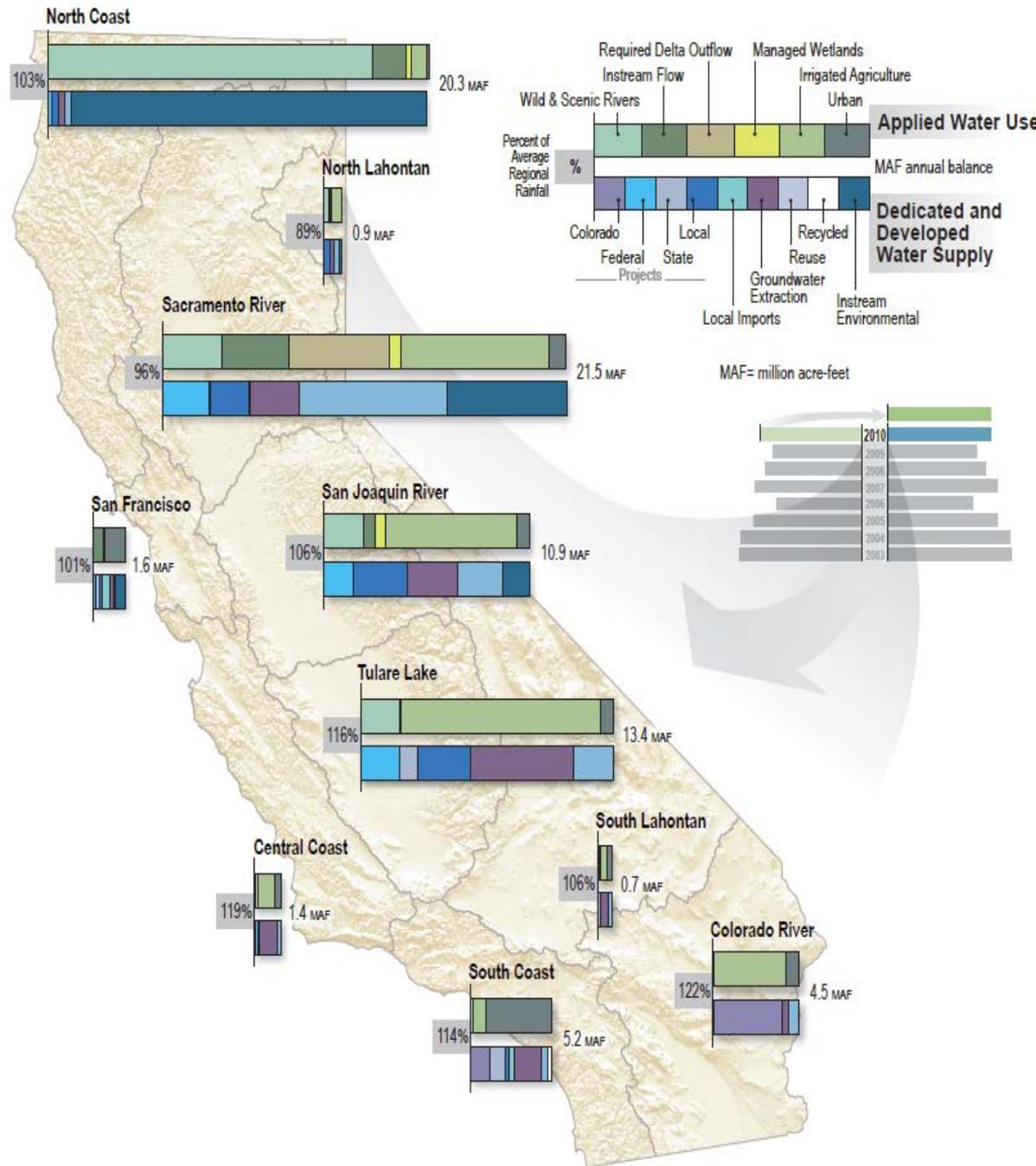


Stippling in bars indicates depleted (irrecoverable) water use (water consumed through evapotranspiration, flowing to salt sinks like saline aquifers, or otherwise not available as a source of supply)



¹ Detail of bar graph: For water years 2001-2010, recycled municipal water varied from 0.2 to 0.5 MAF of the water supply.

Regional Water Uses and Supplies (2010)

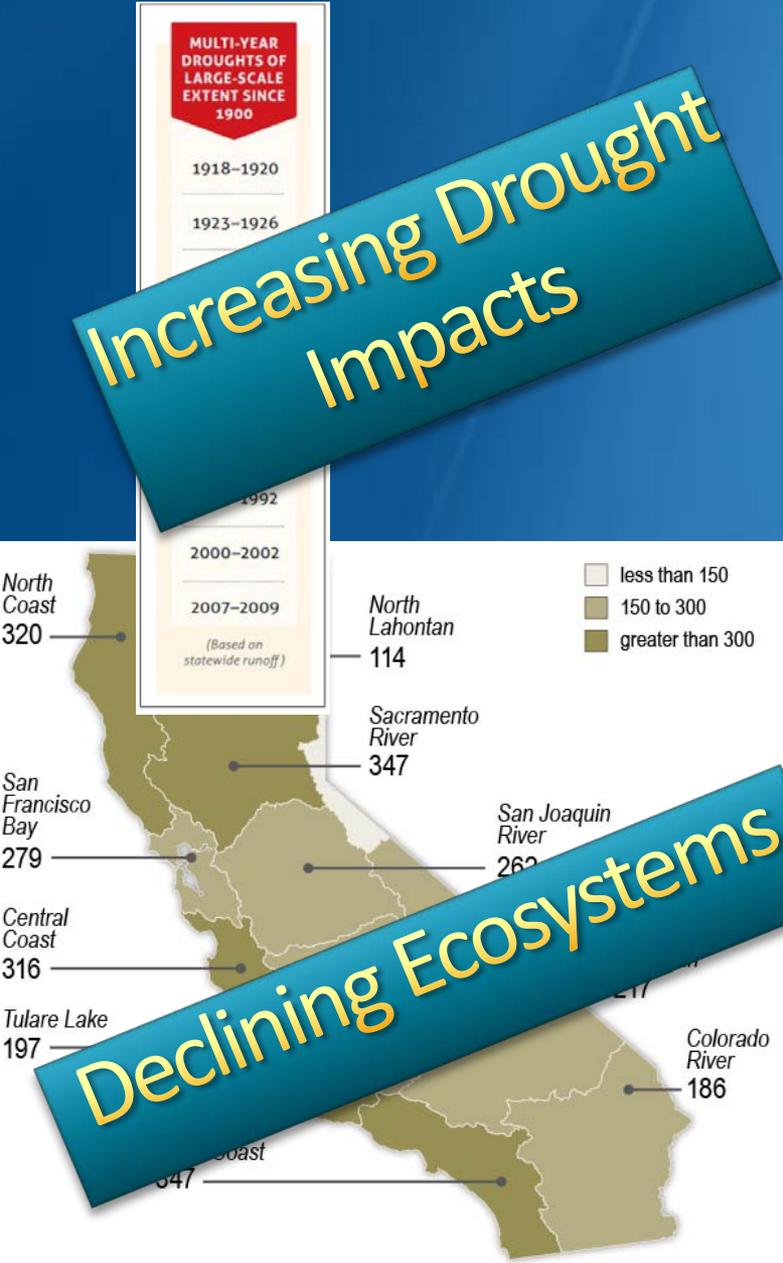
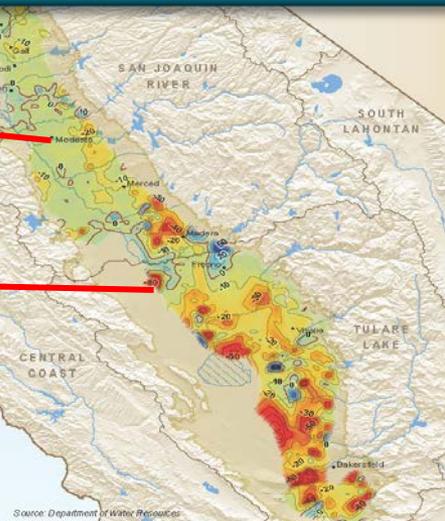
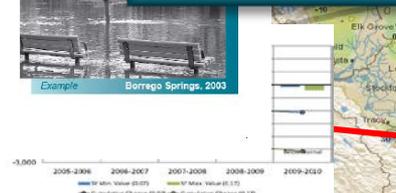


Challenges – Threats to Prosperity

Increasing Drought Impacts

Rising Flood Risk

Declining Groundwater Storage



Declining Ecosystems

Future is Uncertain - Climate Change

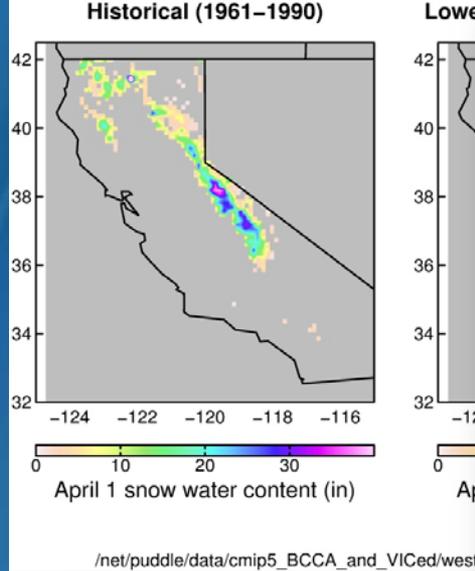


Figure 3-21 How Earlier Runoff Affects Water Availability

The conceptual impact of earlier runoff and increased summertime water demand is shown in the two curves. The curves show the general shape and timing of runoff and demand in California (individual watersheds will each have unique characteristics). Under "Current Conditions" (top box) runoff peaks in early spring only a few months before demand peaks in early summer. Much of the difference between high runoff and low demand in fall and winter can be captured and stored in the state's existing surface and groundwater storage facilities. That storage meets most of the demands later in spring and summer and shortages are minimal. Under "Projected Conditions" (lower box) runoff peaks in mid-winter, months before demand peaks in spring and summer. Summer-time demand is higher due to higher temperatures and high demand lasts longer into early fall due to longer growing seasons. Much of the earlier runoff is captured in storage facilities, but because the runoff arrives while reservoirs are being managed for flood protection, much of the runoff is spilled. In spring and summer demand far exceeds runoff and releases from storage, making shortages much more common.

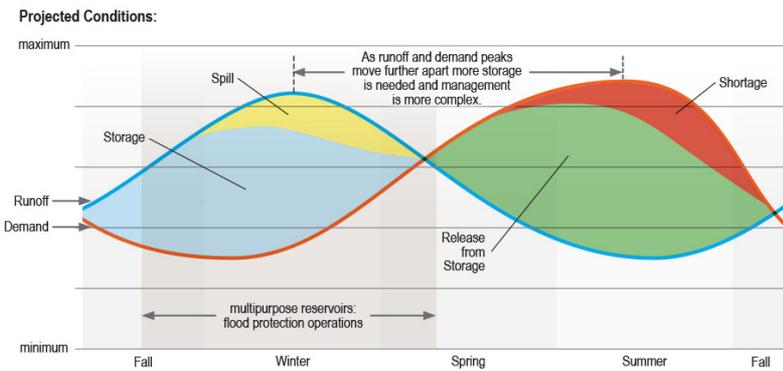
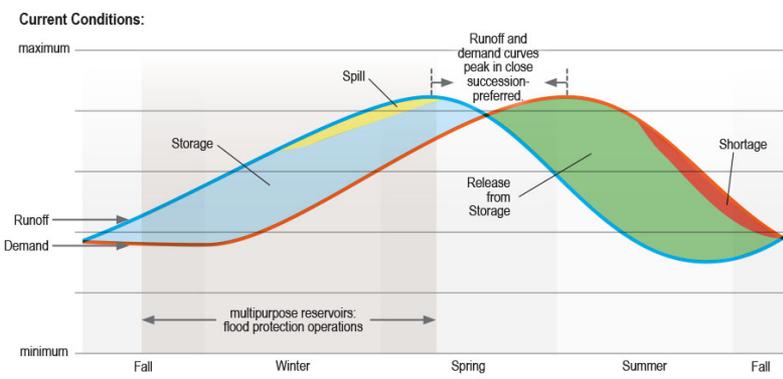


Figure 3-23 Sea Level Rise CA Study Bars

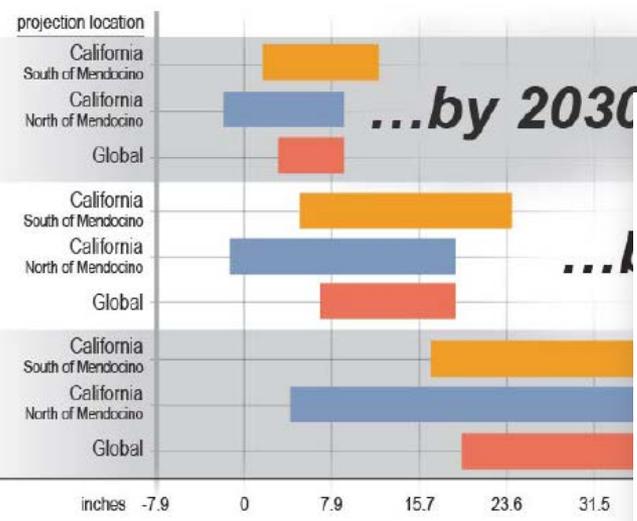
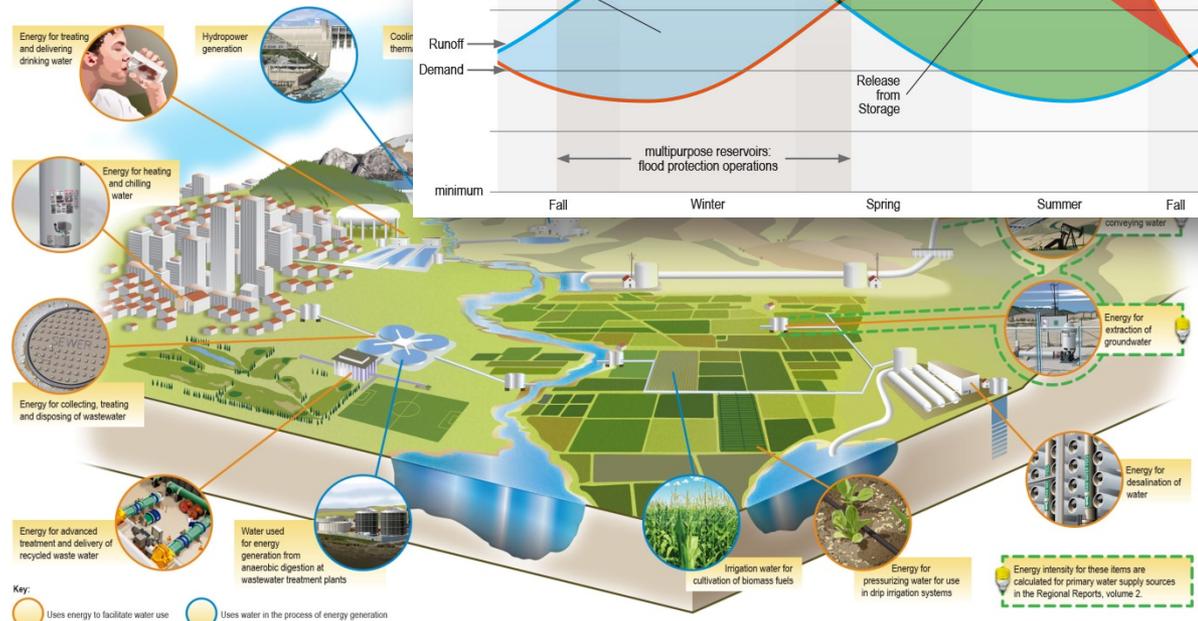


Figure 3-24 The Water and Energy Connection

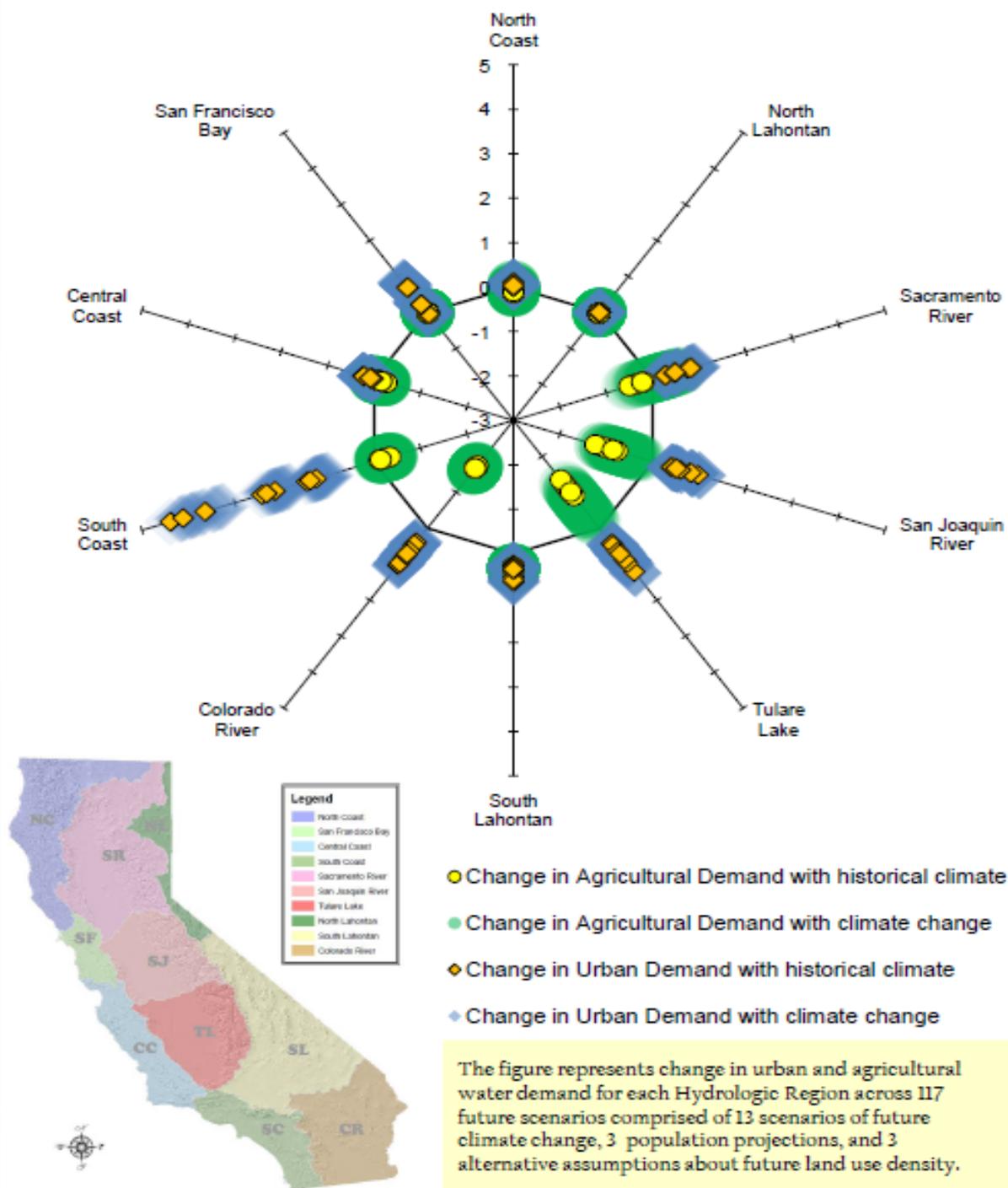


Future is Uncertain - *Statewide Water Demand in 2050*

Ag and Urban Demand Change



Future is Uncertain - Regional Water Demand in 2050



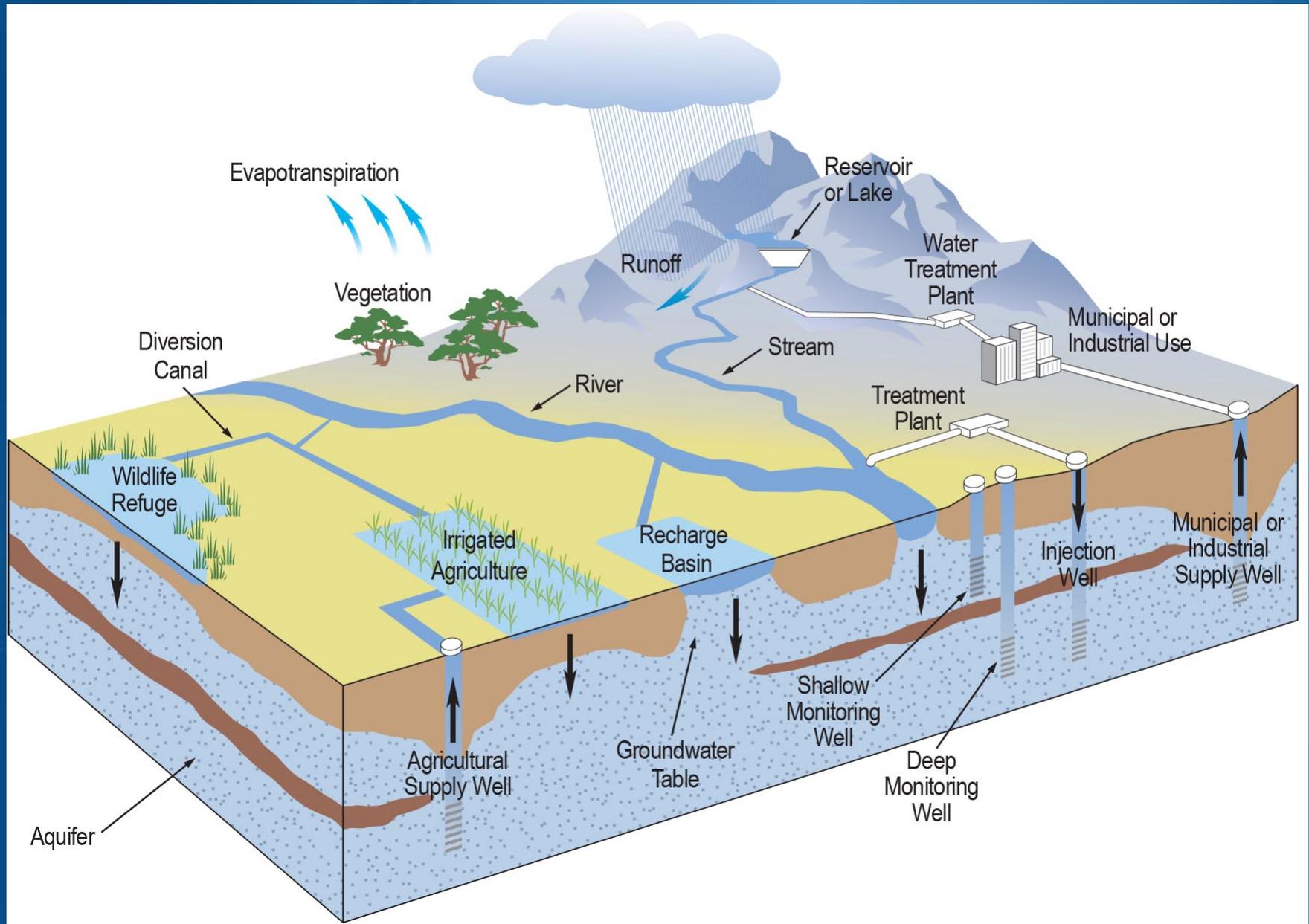
Framing the Solution

Water Plan Update 2013 Highlights

Framing the Solution

- Update 2013:
 - Vision
 - Goals
 - Guiding Principles
 - Objectives
 - Related Actions

Integrated Systems Require Integrated Management



Water Plan Update 2013 Highlights

Defining a Sustainable Future

Public Safety

- Reduce flood risk Statewide
- Provide safe drinking water
- Improve water quality for fisheries and recreation

Environmental Stewardship

- Enhance Bay-Delta ecosystem
- Restore terrestrial and aquatic habitats
- Improve watershed management
- Raise awareness and increase stewardship

Economic Stability

- Enhance State economic output
- Contribute to job creation and security
- Promote food production security
- Provide stable funding for infrastructure

Water Plan Update 2013 Highlights

Themes of Update 2013

Themes of 2013 California Water Plan

Integrated water management provides a set of principles and practices that include government agency alignment through open and transparent planning process. This leads to stakeholder and decision-maker support for investment ... in innovation and infrastructure.

Integrated Water Management

System flexibility and resiliency
Advocacy from implementers and financiers
Delivery of benefits using fewer resources

Government Agency Alignment

Clarification of state roles
Reduction in implementation time and costs
Efficient achievement of multiple objectives

Investment in Innovation and Infrastructure

Stable and strategic funding
Priority-driven funding decisions
Equitable and innovative finance strategies

Water Plan Update 2013 Highlights

Advancing Integrated Water Management

- Broad-based Knowledge
- High Value, Multiple Benefits
- Broad Access to Funding Sources
- Collaboration and Alignment

Water Plan Update 2013 Highlights

Strengthening Government Alignment

- Expedite implementation
- Help assure efficient achievement of multiple objectives
- Reduce implementation cost while protecting and enhancing natural resources

Water Plan Update 2013 Highlights

Invest In Innovation and Infrastructure

- Stable and strategic funding
- Priority driven funding decisions
- Equitable and innovative funding strategies

Water Plan Update 2013 Highlights

Role of Public Funding For Innovation and Infrastructure

Project type	Funding type
<p>Self-Funding Programs <i>supported through local users' fees</i></p>	 <p><i>local</i></p>
<p>Cost-Sharing Programs <i>supported through a combination of local and public funding</i></p>	 <p><i>local</i> <i>public</i></p>
<p>Public Benefits Programs <i>supported through public funding (State or federal)</i></p>	 <p><i>public</i></p>

Water Plan Update 2013 Highlights

Integrated Water Management in Action

- State, regional, and local entities must come together to deliver the resources needed to implement IWM actions

(A two page summary from each regional report will be included in the Highlights booklet)

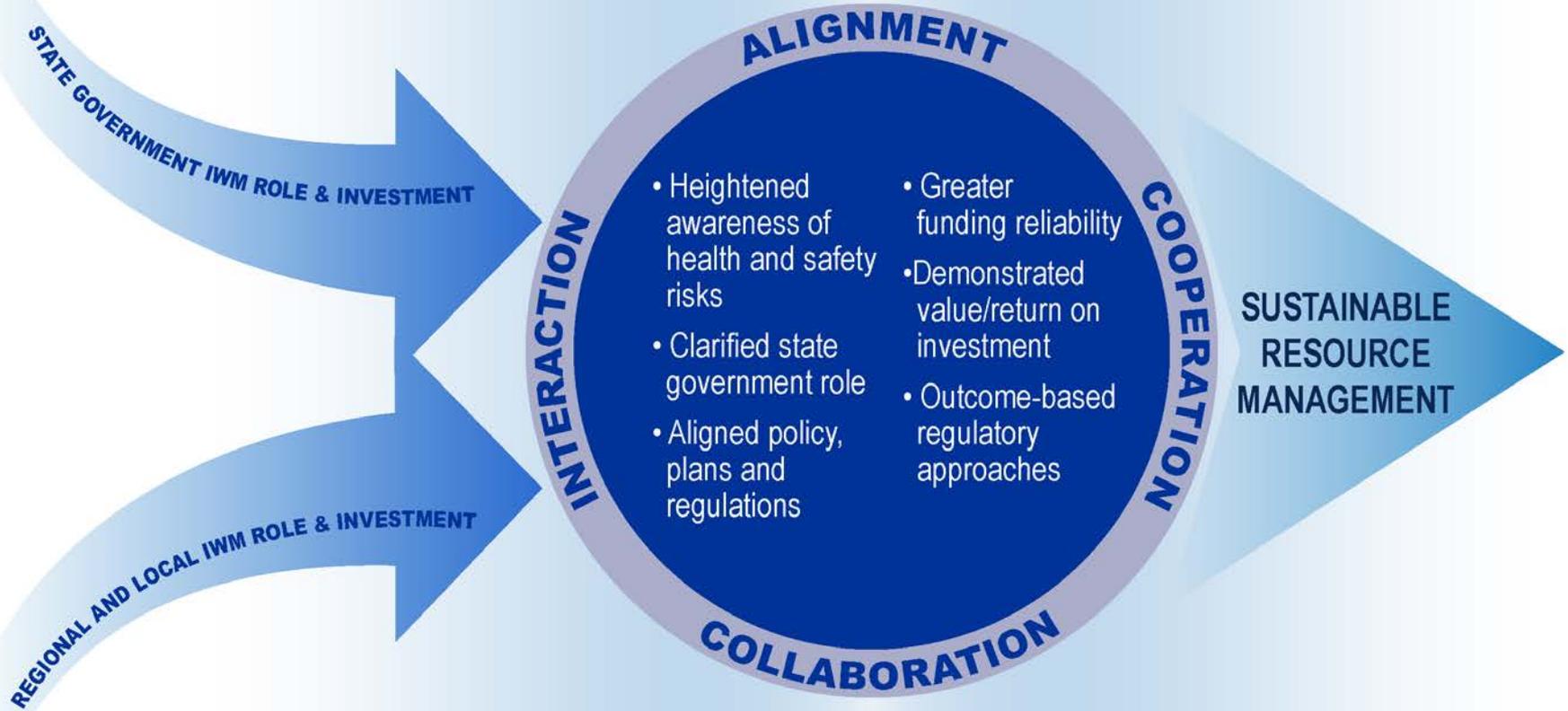
- Sustainable water management requires interaction, cooperation, collaboration, alignment

Water Plan Update 2013 Highlights

Integrated Water Management in Action

- Awareness of health and safety risks
- Clarified State government roles
- Aligned policy, plans and regulations
- Greater funding flexibility
- Demonstrated value/return on investment
- Outcome-based regulatory approach

Integrated Water Management in Action



Water Plan Update 2013 Highlights

Knitting 6 Central Messages Into Story

- Message #1: Significant threats to California's future prosperity
- Message #2: All Californians have a stake
- Message #3: Water managers are expected to do more with less

Water Plan Update 2013 Highlights

Knitting 6 Central Messages Into Story

- Message #4: Complex challenges require integrated solutions
- Message #5: State needs to innovate and adapt
- Message #6: Funding must be more stable and strategic

Themes of 2013 California Water Plan

Integrated water management provides a set of principles and practices that include government agency alignment through open and transparent planning process. This leads to stakeholder and decision-maker support for investment ... in innovation and infrastructure.

Integrated Water Management

System flexibility and resiliency
Advocacy from implementers and financiers
Delivery of benefits using fewer resources

Government Agency Alignment

Clarification of state roles
Reduction in implementation time and costs
Efficient achievement of multiple objectives

Investment in Innovation and Infrastructure

Stable and strategic funding
Priority-driven funding decisions
Equitable and innovative finance strategies

Water Plan Update 2013 Highlights Stakeholder Input

- What else do you think key people need to know about the Water Plan?
- How can the Highlights more clearly or thoroughly represent the intended message/story?