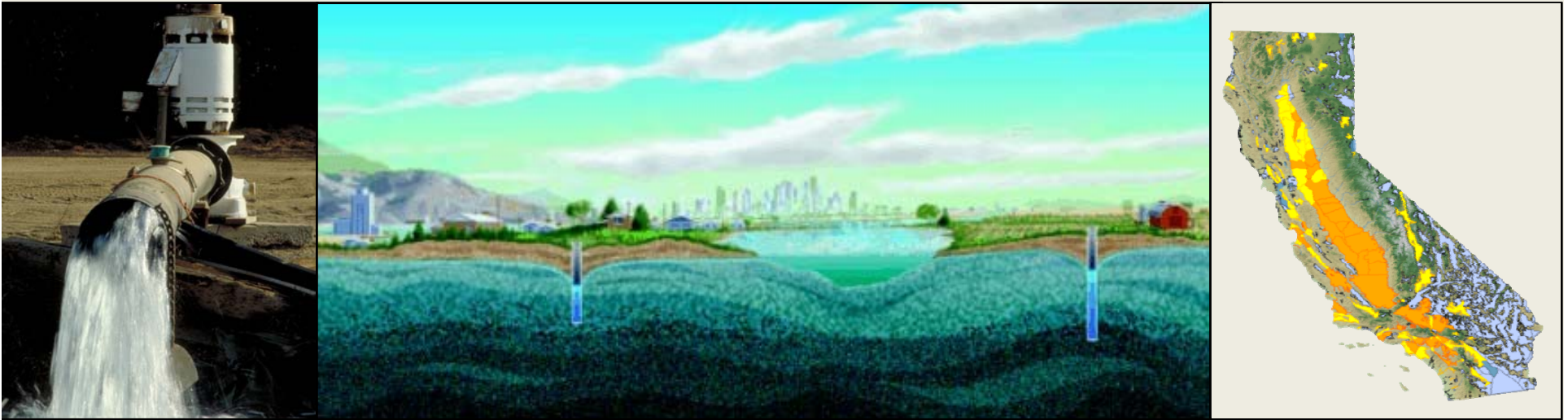


Data Availability & Assistance to GSA's

1



25th GRA Annual Meeting

Steven Springhorn, PG

Senior Engineering Geologist

DWR's Sustainable Groundwater Management Branch

1

DWR Local Assistance

“A central feature of SGMA is the recognition that groundwater management in California is best accomplished locally.”

Governor Jerry Brown, September 2014



Financial Assistance

- Prop 1

Planning Assistance

*- Facilitation
- GSA Support*

Technical Assistance

*- Statewide Datasets, Analysis, and Tools
- Best Management Practices
- Water Available for Replenishment Report*

**Sustainable
Groundwater
Management**

SGMA Technical Assistance

Chapter 7 (10729)

- (b) The department ***may provide technical assistance to any GSA in response to that agency's request*** for assistance in the development and implementation of a GSP. The department shall use its best efforts to provide the requested assistance.
- (c) The department shall prepare and publish a report by ***December 31, 2016***, ...that presents the department's best estimate, based on available information, of ***water available for replenishment of groundwater*** in the state.
- (d) (1) By ***January 1, 2017***, the department shall publish on its Internet Web site ***best management practices*** for the sustainable management of groundwater

SGMA Technical Assistance

GSP Regs (354.18)

- (d) The Agency shall utilize the following ***information provided***, as available, ***by the Department***...or other data of comparable quality, to develop the water budget:
 - Historical water budget information for mean annual temperature, mean annual precipitation, water year type, and land use.
 - Current water budget information for temperature, water year type, ET, and land use.
 - Projected water budget information for population, population growth, climate change, and sea level rise.
- (f) The ***Department shall provide*** the California Central Valley Groundwater-Surface Water Simulation Model (C2VSIM) and the ***Integrated Water Flow Model*** (IWFM) for use by Agencies in developing the water budget.

History of Technical Assistance

Technical Expertise



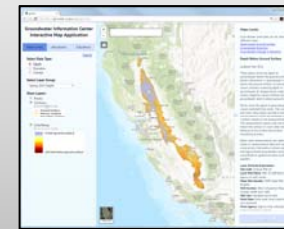
Integrated Water Management

DIRWM

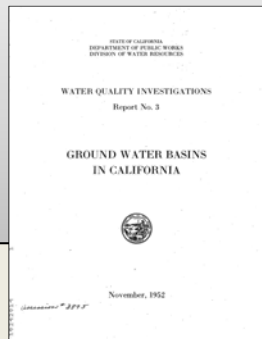
DSIWM

DWR Region Offices

Data, Tools, and Analysis



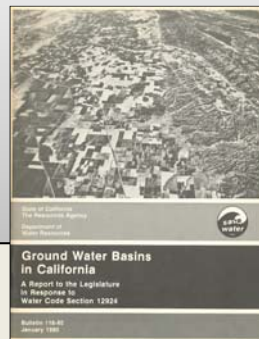
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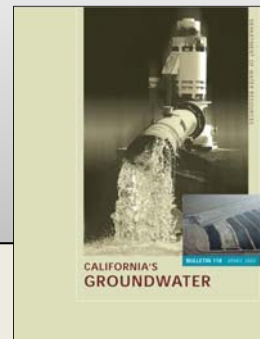
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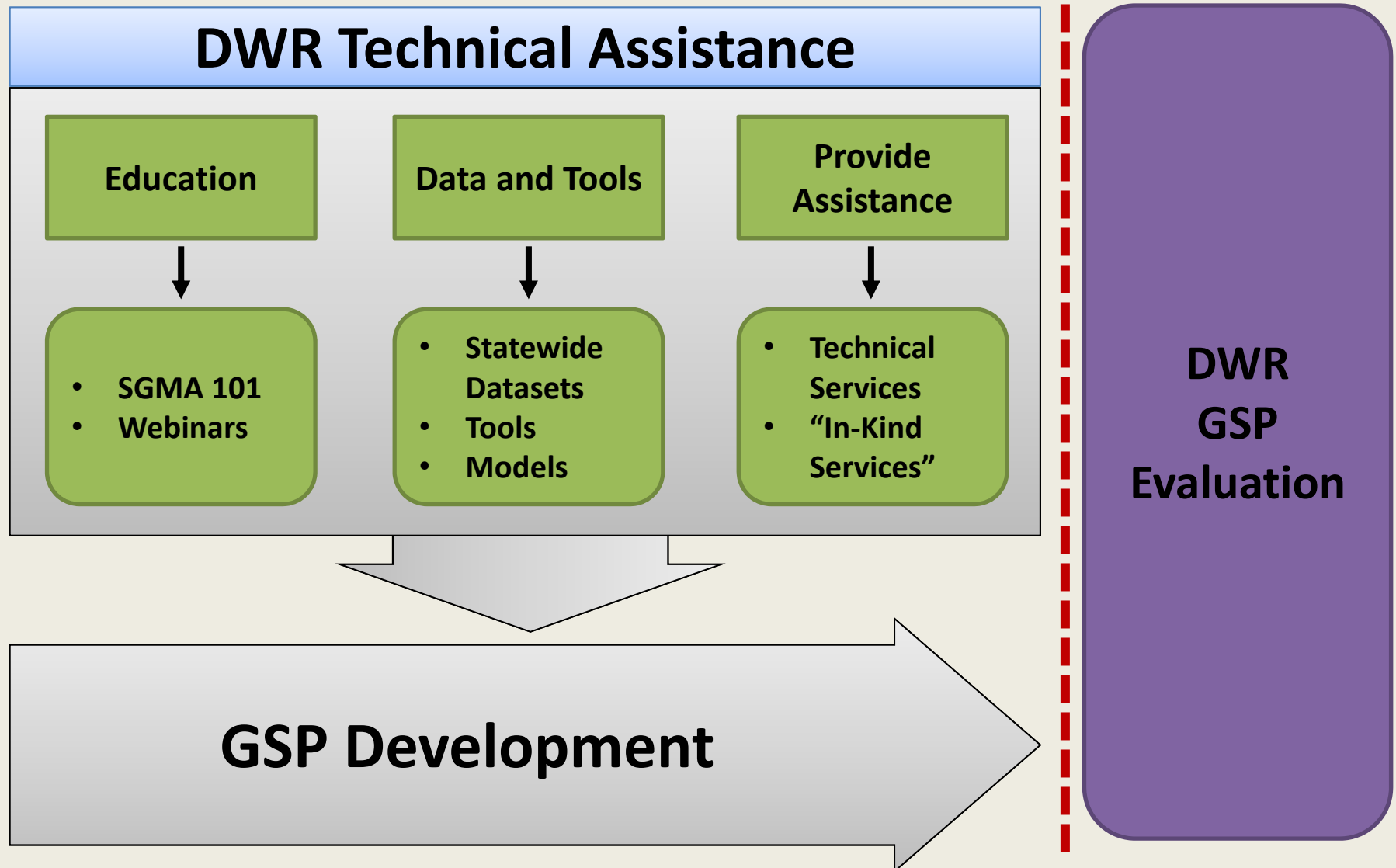


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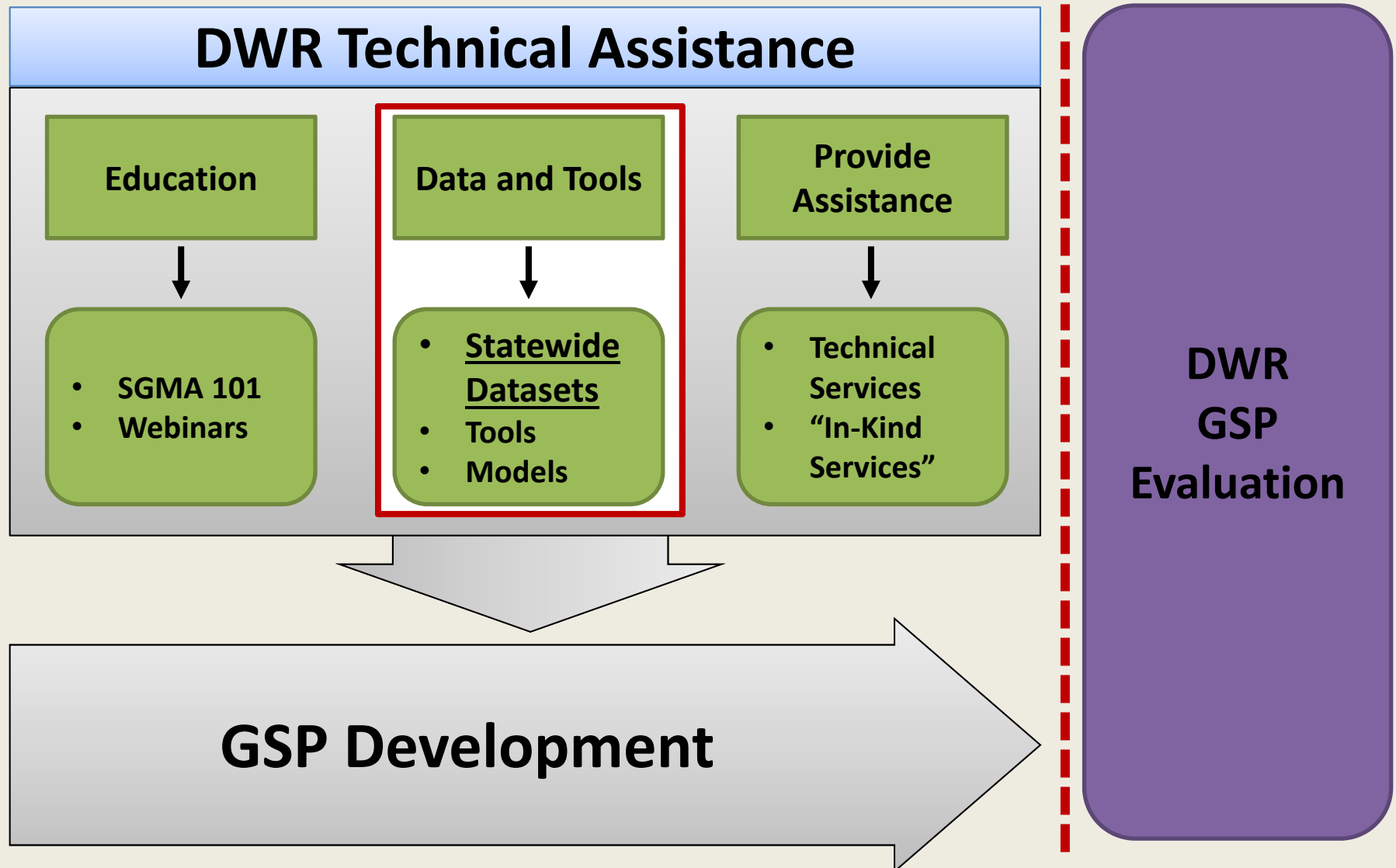


CA Water Plan

Proposed SGMA Technical Assistance



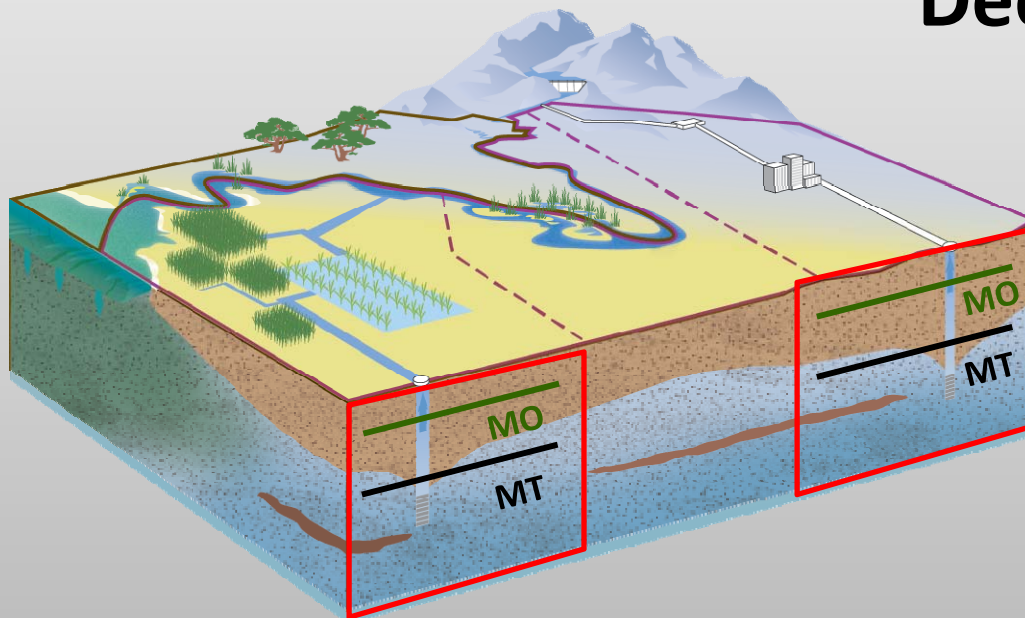
Proposed SGMA Technical Assistance



Overarching Vision for Data Management

DWR's water information is organized and integrated in such a manner that it is universally accessible and supports watershed-based water budgets for integrated water management.

Data → **Information** → **Informed Decisions**

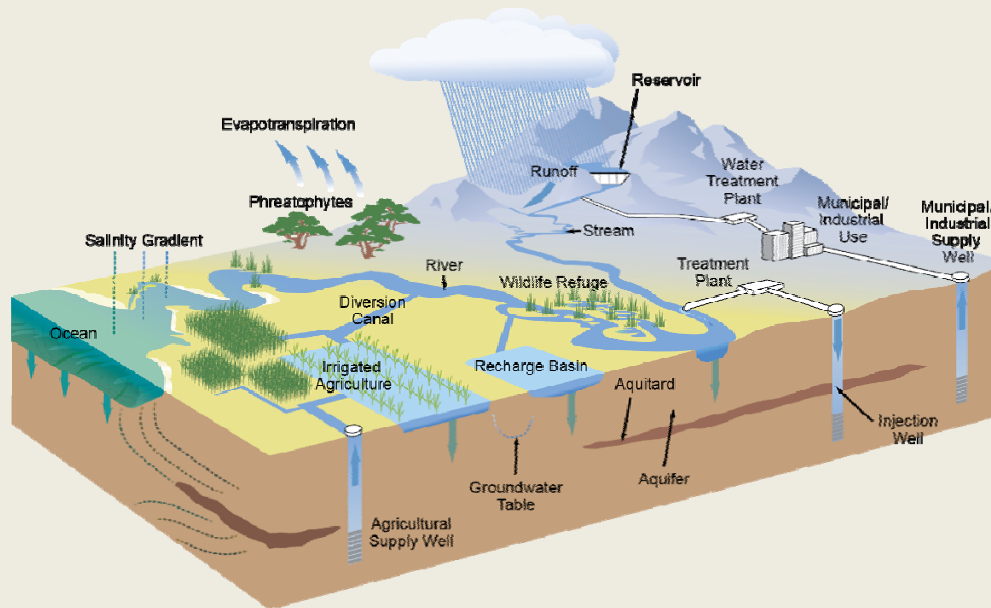


SGMA Data Challenges

Variety

>80 – GSP Requirements to Compile Data

>20 – Websites Containing SGMA Data

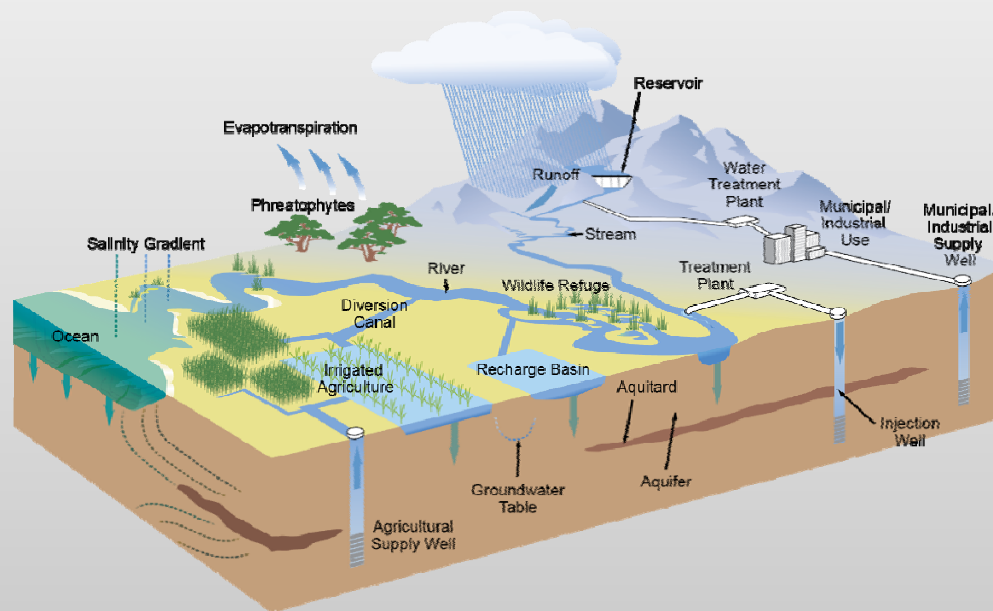


Department of Water Resources
CALIFORNIA DATA EXCHANGE CENTER

SGMA Data Challenges

Volume

- Data Collection and Reporting for Entire basin



Undesirable Results:

Significant and Unreasonable



Lowering
GW Levels



Reduction
of Storage



Seawater
Intrusion



Degraded
Quality



Land
Subsidence

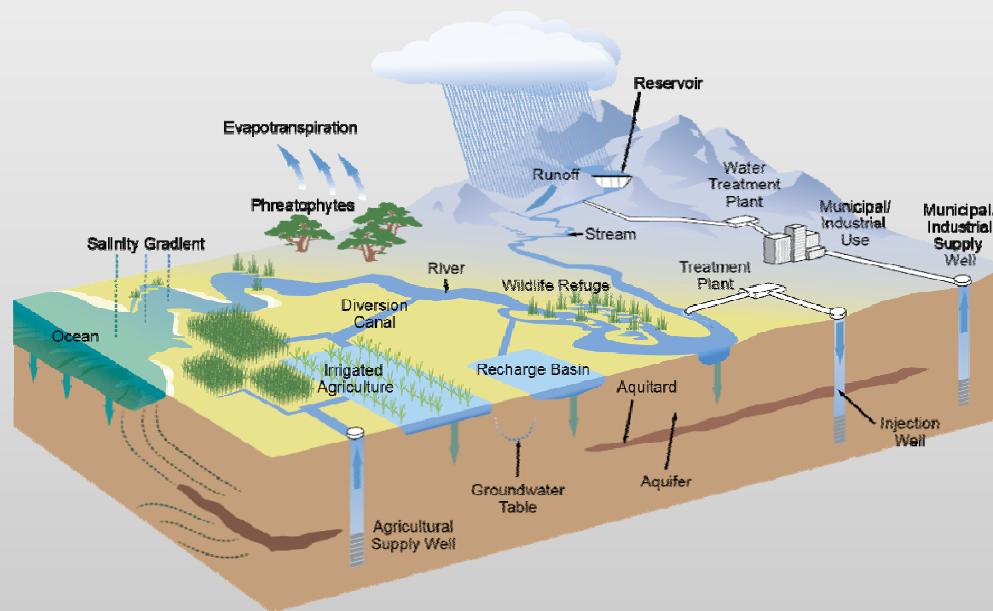


Surface Water
Depletion

SGMA Data Challenges

Velocity

- At Least Semi-Annual Data Collection
- Annual Data Reporting



Undesirable Results:

Significant and Unreasonable



Lowering
GW Levels



Reduction
of Storage



Seawater
Intrusion



Degraded
Quality

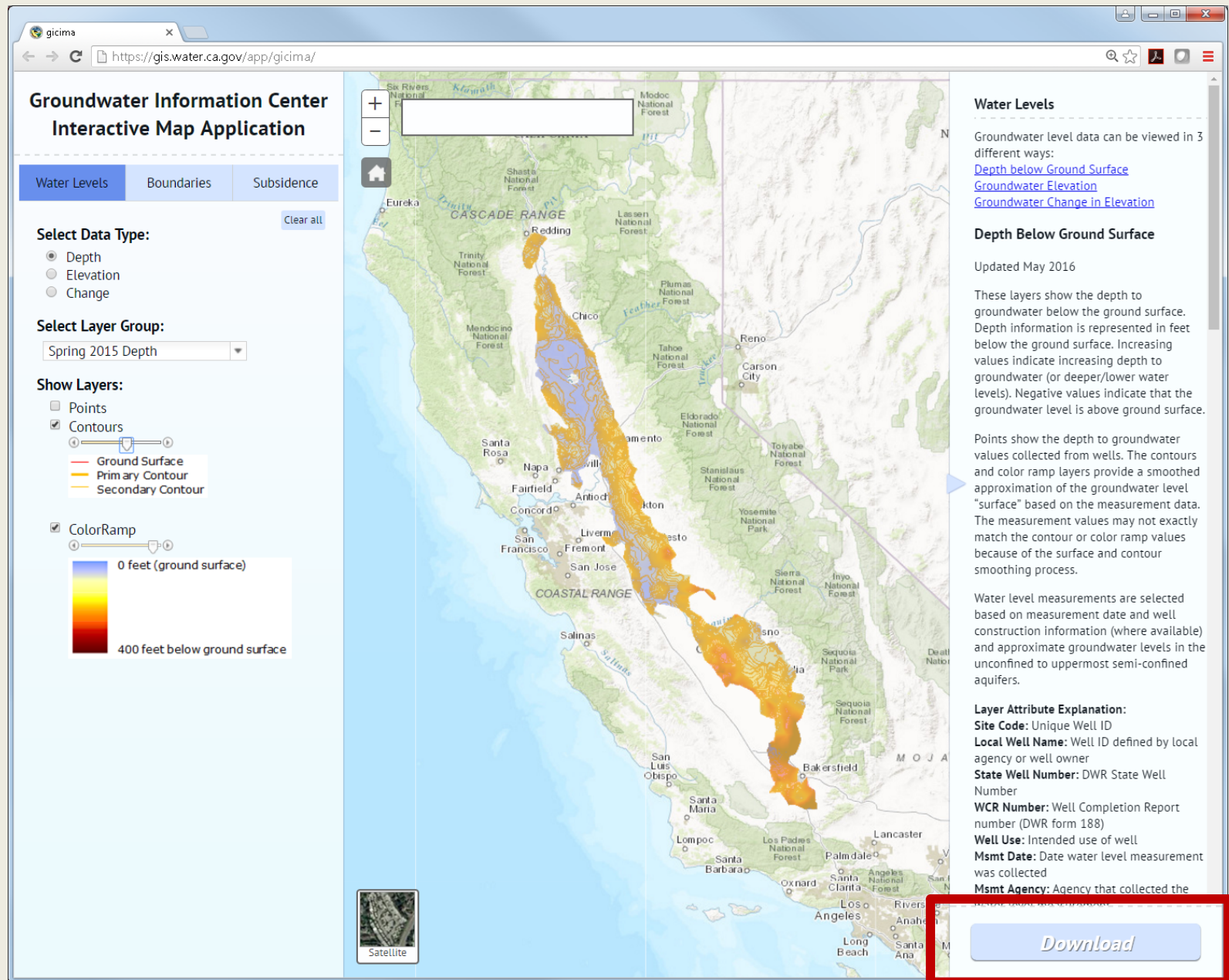


Land
Subsidence

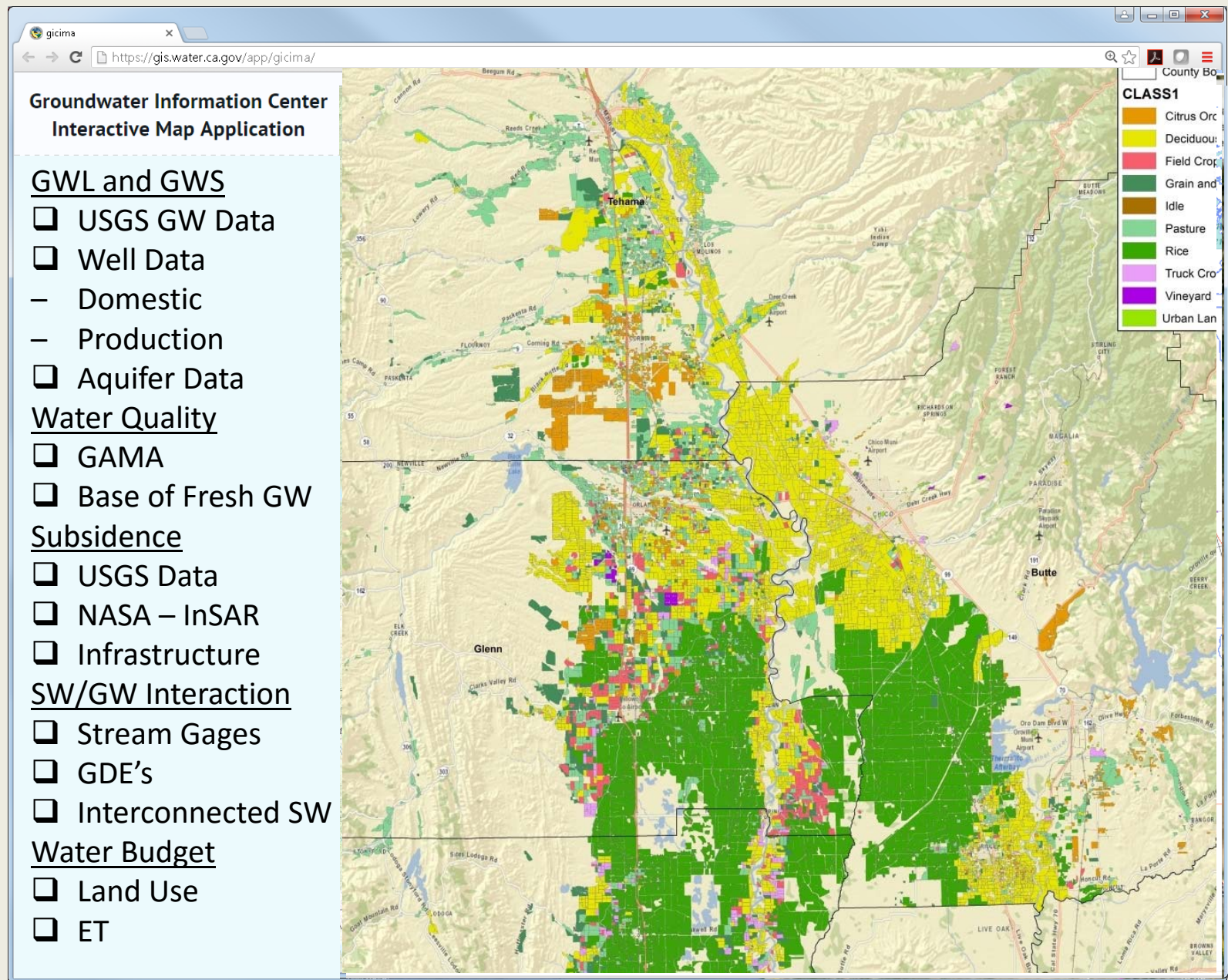


Surface Water
Depletion

Existing Statewide Datasets



Potential Statewide Datasets – Aligned to SGMA



Next Steps

- **Develop** – Scope and Capacity
- **Engage** – Practitioners and Stakeholders
- **Prioritize** – Datasets, Tools, Analysis, and Funding
- **Build & Expand** – Data Platform & Tech. Assistance
- **AB 1755** – The Open and Transparent Water Data Act
 - Signed into law – September 23, 2016

AB 1755 Overview

Overall Goal (§12415): Integrate existing water and ecological data from multiple autonomous databases managed by federal, state, and local agencies and academia using consistent and standardized formats

Drivers (§12405): SGMA, Improved Water Management, Greater Transparency to Water Transfers and Market



In consultation with..

- Relevant Federal Agencies
- Interested Stakeholders
 - Tech and Open Data Experts
 - Water Data Users



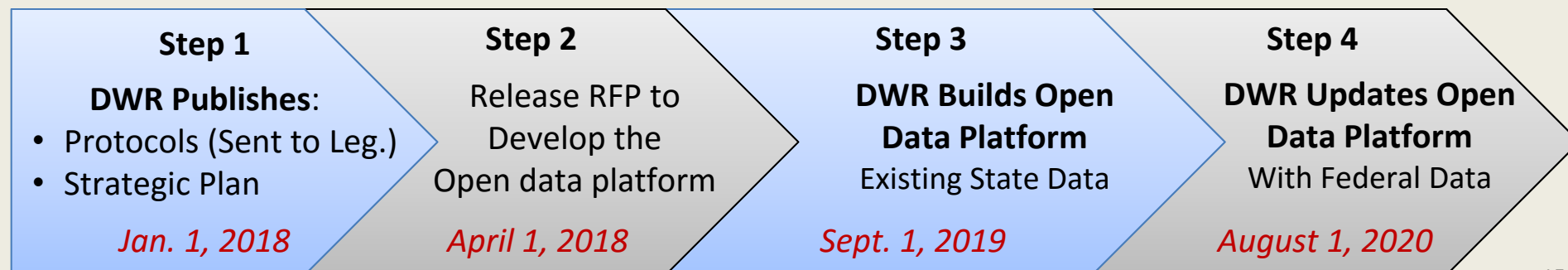
State Datasets

- SWP Operations
- Groundwater Use & Levels
- Urban Water Use & Land Use
- Water Transfers
- Water Rights
- Water Diversions
- Water Quality (CDEN)
- Fish Abundance
- Fish Distribution



Federal Datasets

- CVP Operations
- Water Transfers
- Streamflow (NWIS)
- Fish Abundance



DWR Groundwater Contacts & Data

DWR Sacramento:

- Steven Springhorn
Steven.Springhorn@water.ca.gov

Data

- Water Data Library (water level data)
www.water.ca.gov/waterdatalibrary/
- DWR Groundwater Information Center
www.water.ca.gov/groundwater/gwinfo/index.cfm
- GIC Interactive Map (water level and subsidence maps)
www.water.ca.gov/groundwater/MAP_APP/index.cfm
- SGMA Water Management Planning Tool (boundaries map)
Main Page - <http://www.water.ca.gov/groundwater/sgm/>
Interactive map - www.water.ca.gov/groundwater/boundaries.cfm

DWR Regional Offices:

