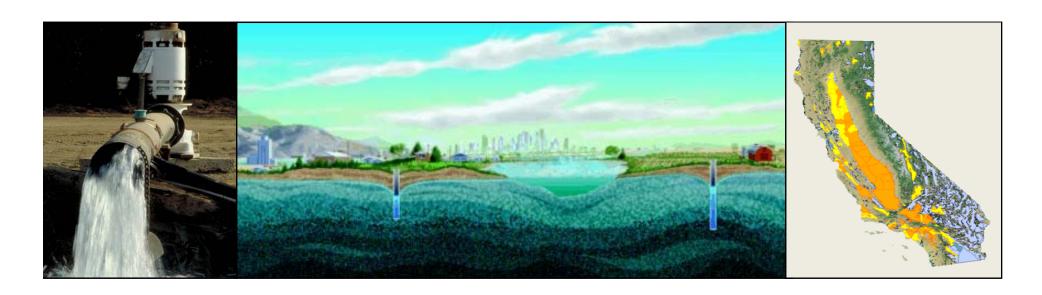
SGMA Technical Assistance

- Building Capacity to Achieve Sustainability -





WEF Land Subsidence Workshop

August 16th, 2017

Presentation Overview

- > Technical Assistance Background
- > Approach to SGMA Technical Assistance
- Next Steps
- > Feedback

History of Technical Assistance

Technical Expertise



Integrated Water Management

DIRWM

DSIWM

DWR Region Offices

Data, Tools, and Analysis



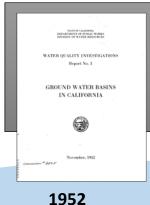




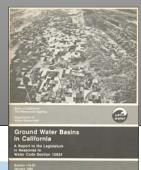


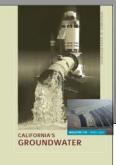


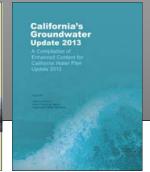
Reports











3

B-118-75

B-118-80

B-118-03

CA Water Plan

DWR SGMA 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

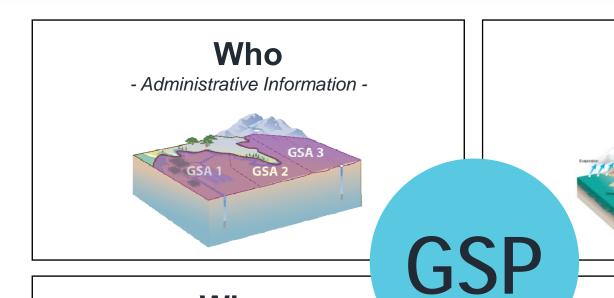
DWR
Evaluation of
GSPs

Sustainable Groundwater Management

Advisory Role

Evaluation Role

General GSP Components



What - Basin Setting Anaples Propose Propos

Where

Sustainable Management Criteria -Monitoring Network -

























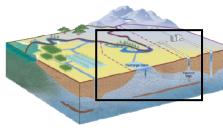




How

- Projects & Management Actions -





SGMA Technical Assistance

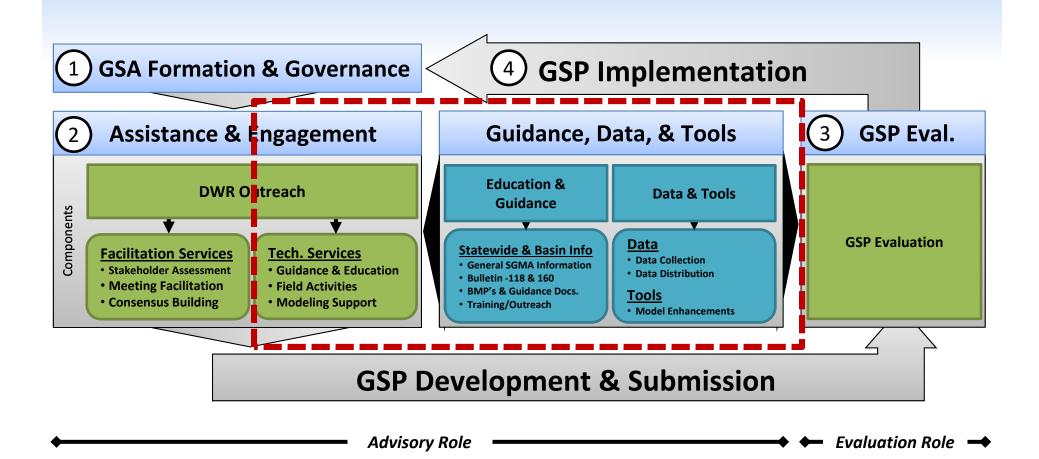
SGMA - Chapter 7 (§ 10729)

- 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.
 - ✓ Water Available for Replenishment of Groundwater (Dec. 31, 2016)
 - ✓ Best Management Practices (Jan. 1,2017)

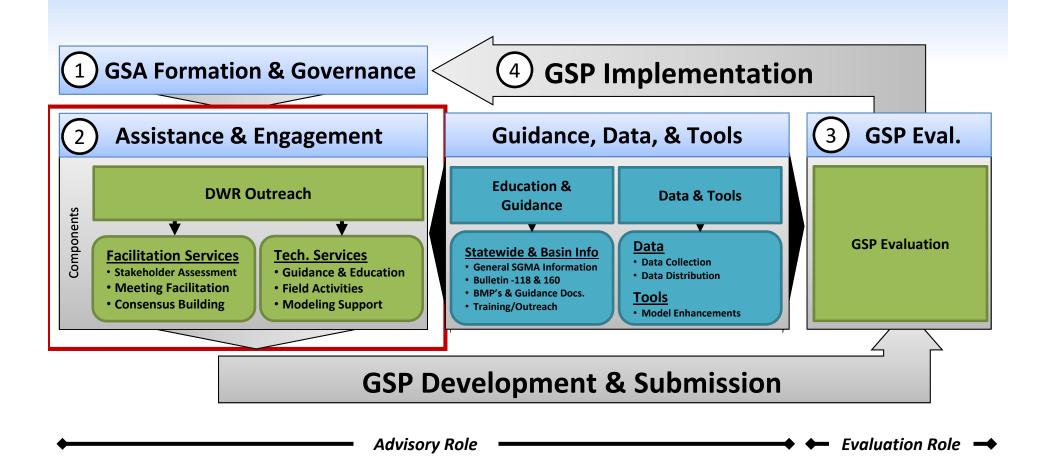
GSP Regulations - (Article 5 - § 354.18)

- GSA's shall utilize information provided, as available, by the
 Department...or other data of comparable quality, to develop the water budget
- 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.

SGM Program Implementation



SGM Program Implementation



Assistance & Engagement

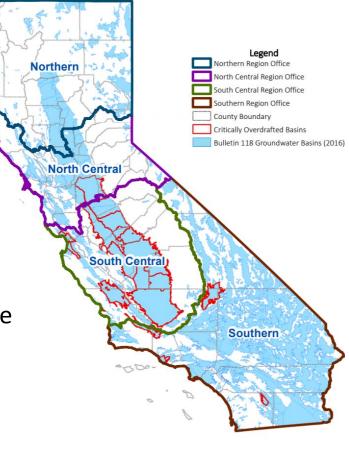
- Facilitation Support Services (FSS) -

Services Offered through DWR funded Professional Facilitators

- Stakeholder identification and engagement
- Meeting facilitation
- Interest-based negotiation/consensus building
- Public outreach facilitation

Who is Eligible?

- GSAs developing GSPs, or other groups coordinating with the GSAs in developing GSPs,
- Agree to work in an open, inclusive, and collaborative manner toward the development of a GSP.
- Support an inclusive process that seeks, promotes, encourages, and welcomes the involvement of all stakeholders and interested parties.



FSS Resources

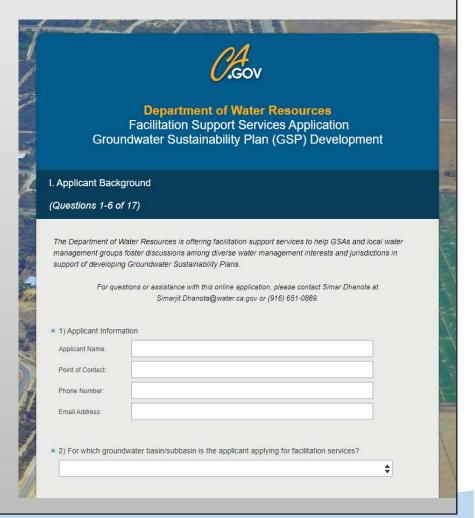
1. DWR FSS Website

http://www.water.ca.gov/groundwater/sgm/facilitation_services.cfm



2. FSS Application Portal

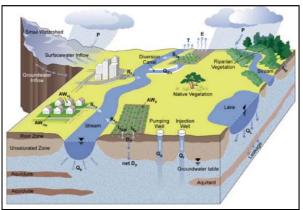
https://www.surveymonkey.com/r/FSS application01

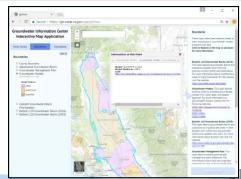


Assistance & Engagement

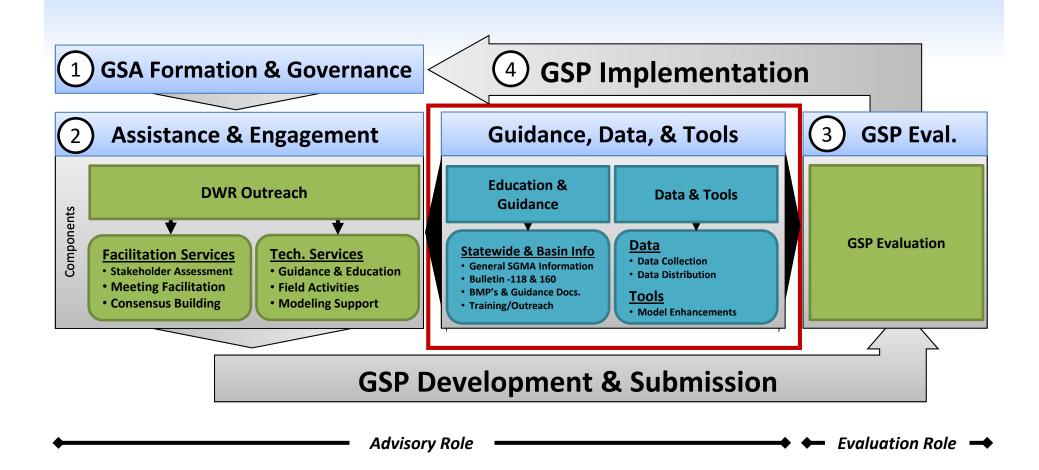
- Draft Technical Support Services (TSS) -
- Guidance and Education
- Field Activities
 - ☐ Groundwater Level Training
 - ☐ Well Video Logging
 - Geophysical Logging
 - ☐ Monitoring Well Installation
- Modeling and Tools
 - ☐ Modeling Questions
 - ☐ Training
 - ➤ IWFM and IDC Workshops Sep/Oct 2017
 - http://cwemf.org







SGM Program Implementation



Education and Guidance

- Statewide & Regional References
 - DWR's SGMA Webpages
 - Bulletin 118
 - Bulletin 160 GW Content
- SGMA References
 - Water Available for Replenishment



Best Management Practices

- BMP 1: Monitoring Protocols, Standards, Sites
- BMP 2: Monitoring Networks and Identification of Data Gaps
- BMP 3: Hydrologic Conceptual Model
- BMP 4: Water Budget
- BMP 5: Modeling

Guidance Documents

- Preparation Checklist for GSP submittal
- GSP Annotated Outline
- Engagement with Tribal Governments
- Stakeholder Comm. & Engagement

Future BMP

Sustainable Management Criteria

Data and Tools

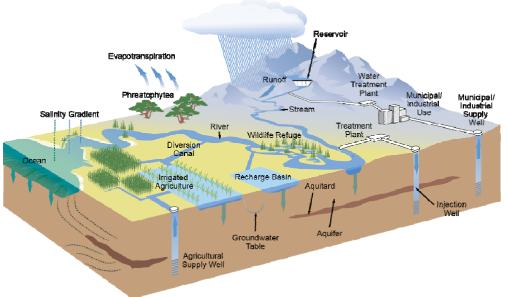
Existing Data Challenges

>80 – GSP Requirements to Compile Data

>20 – Websites Containing SGMA Data

























Data and Tools

New Data, Tools, and Reports Webpage

- 1. Download Data
- 2. Groundwater Tools
 - ➤ Interactive Maps
 - ➤ Modeling Tools
- 3. Maps and Reports
 - >SGMA BMPs
 - ➤ Statewide GW Maps



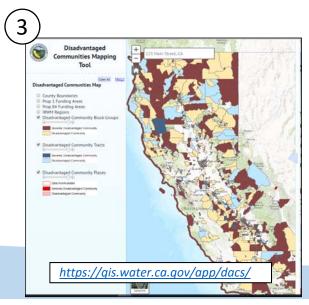
http://www.water.ca.gov/groundwater/sgm/data_tools_reports.cfm

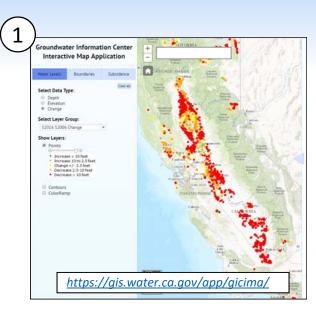
Data & Tools

Tools - Interactive Maps

- 1. Groundwater Information Center
- 2. Water Management Planning Tool
- 3. Disadvantaged Communities Tool
- 4. Basin Boundary Tool
- ➤ More Tools will be added soon

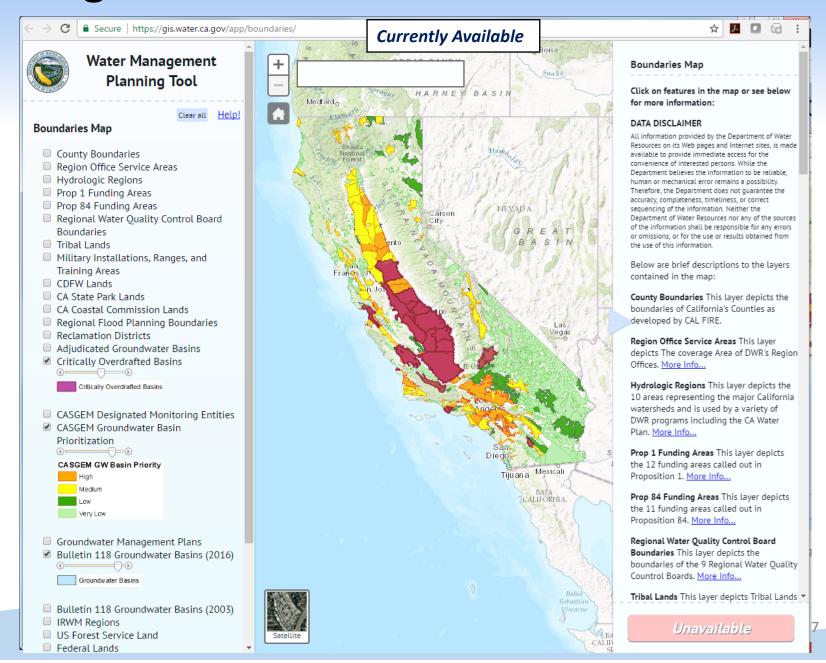


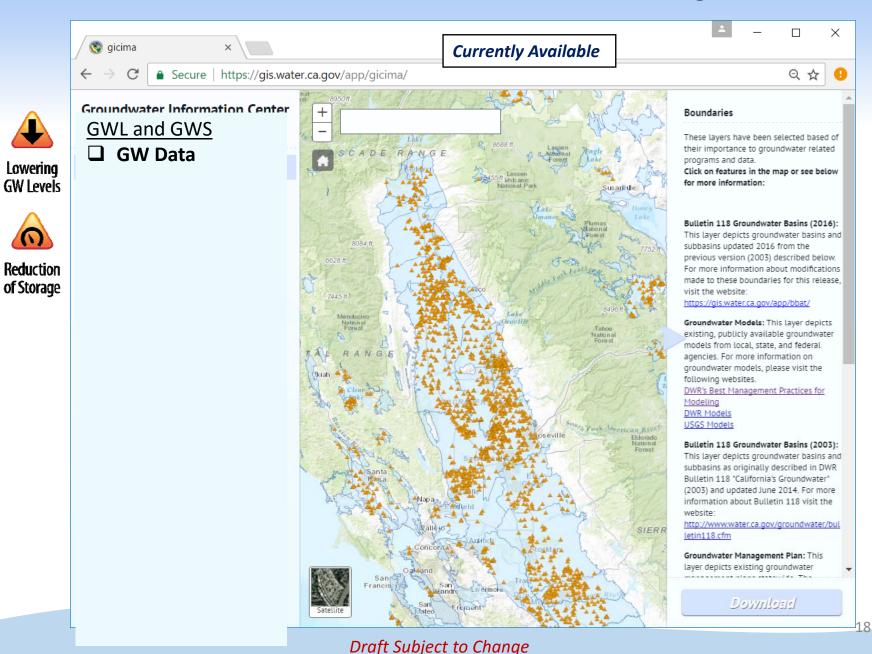






Existing Statewide Datasets & Tools



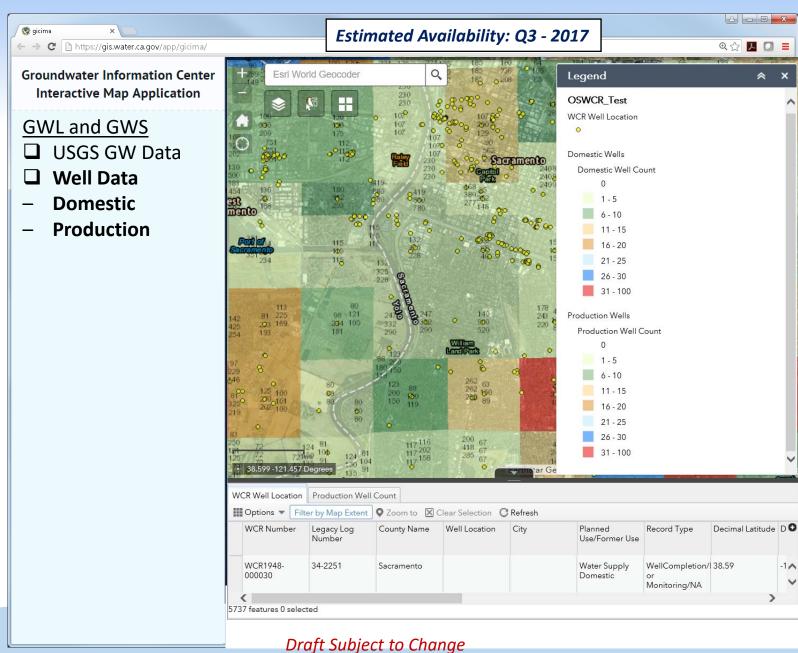


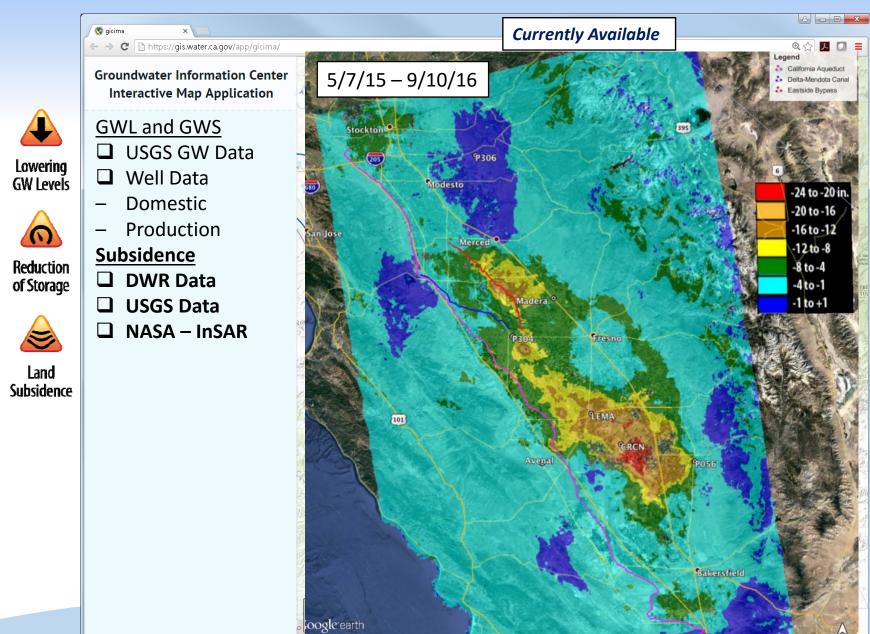
Lowering

GW Levels

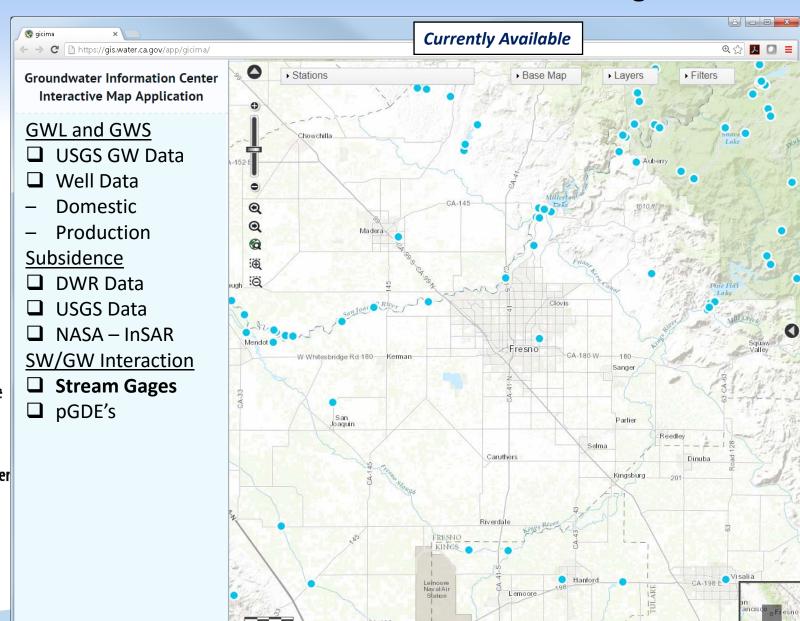
Reduction

of Storage





raft Subject to Change



Draft Subject to Change

CalFire FRAP, CalOES, NIFC, USDA | Sources: Esri, HERE, DeLorr



Lowering GW Levels



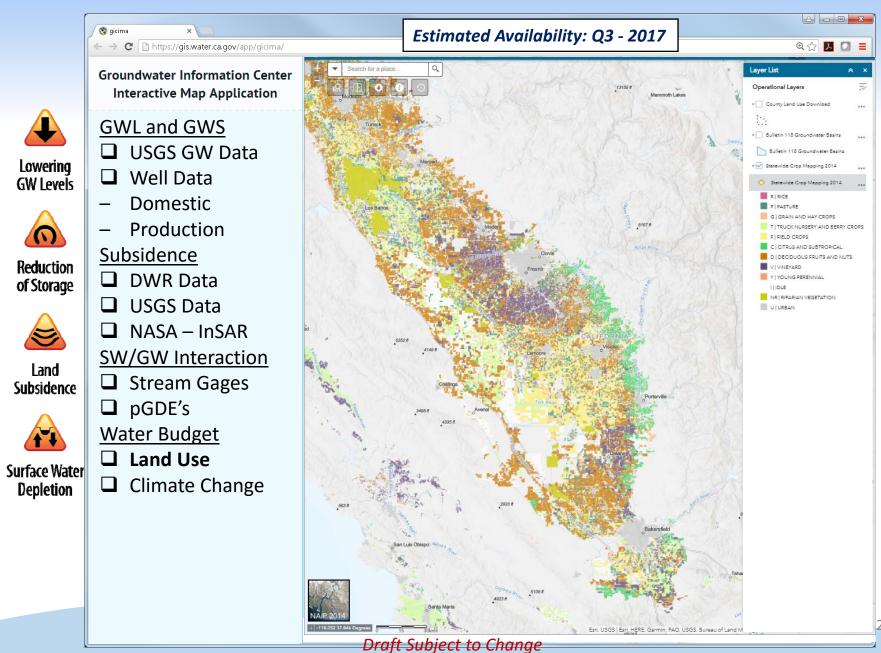
Reduction of Storage



Land Subsidence



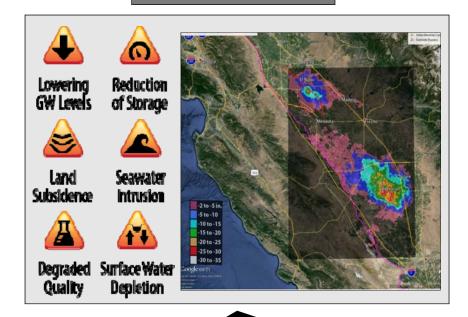
Surface Water Depletion



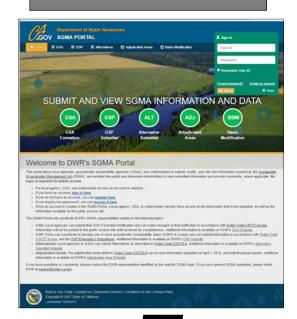
Flow of SGMA Information



1. Data Access



2. Data Submittal



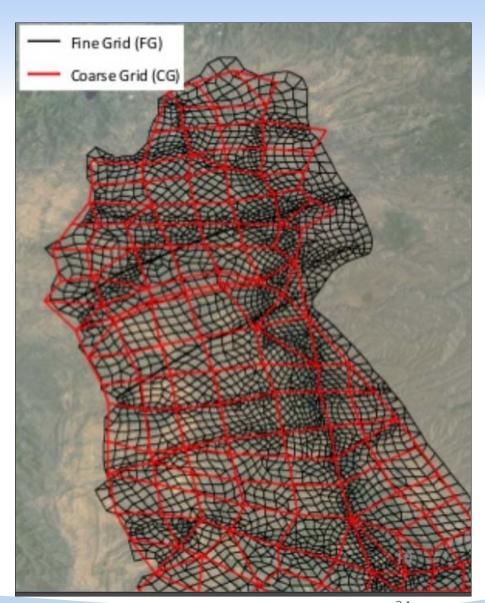
50 Yr Planning Horizon

Data and Tools

Tools – Models

- C2VSim Fine Grid (Q1 2018)
- IWFM (Currently Available)

	Coarse Grid	Fine Grid
Nodal Spacing		
Minimum	0.6 mi	0.4 mi on rivers
Maximum	9.4 mi	1.5 mi on edge
Average	14.4 m i ²	0.6 mi ²
Model Grid		
Nodes	1,393	30,179
Elements	1,392	32,537
River nodes	449	4,529
Run Time		
88 years	3-6 min	Appx 6 hrs
uggested use	s:	
- CG reg	ion-scale anal	yses
- FG loca	al-scale analys	PS



Next Steps

- Develop Scope, Capacity, Partnerships
- Engage Practitioners and Stakeholders
 - ➤ GSP Workshop in Clovis, September 20, 2017
- Prioritize Datasets, Tools, Analysis, Funding
- Build & Expand Technical Assistance Capacity
- Maintain Data Collection, Distribution, Funding

DWR Contacts & SGMA Resources

DWR Sacramento:

Steven Springhorn

Steven.Springhorn@water.ca.gov

SGMA Resources

DWR SGMP Webpage

www.water.ca.gov/groundwater/sgm/index.cfm

Subscribe to DWR SGMP Email List

www.water.ca.gov/groundwater/sgm/subscribe.cfm

DWR Data, Tools, and Reports Webpage

www.water.ca.gov/groundwater/sgm/data tools reports.cfm

DWR Regional Offices:

