

Layer List

- Surface Water Assessment Areas
- Wellhead Protection Areas
- Animal Operations
- Superfund Program Sites
- National Priority List Sites
- Non Discharging Permits
- NPDES Permits
- Old Landfill Sites
- PCB Sites
- Pollution Discharges
- Haz. Waste Gen./Trans. Sites
- Hazardous Waste Treatment, Storage, Disposal Sites
- Contaminated Disposal Sites
- Soil Remediation
- Solid Waste Facilities
- Tier II Chemical Storage Sites
- Underground Injection Permits
- Underground Storage Tanks

# SOURCE WATER PROTECTION AT THE WATER BOARDS

REQUIREMENTS, CURRENT PROJECTS, FUTURE PLANNING

1996

**Safe Drinking Water Act outlines SWP requirements**

- DWSAP (DHS 1999)
- 92% of assessments completed (2003)

2016

**Two-day workshop to explore SWP actions at Water Boards**

- Current efforts supporting SWP
- Recommended efforts to enhance SWP activities

**Transfer of Drinking Water Program to Water Board**

- Transition Plan- GAMA Program coordinates implementation
- Contract with UC Davis ICE expired

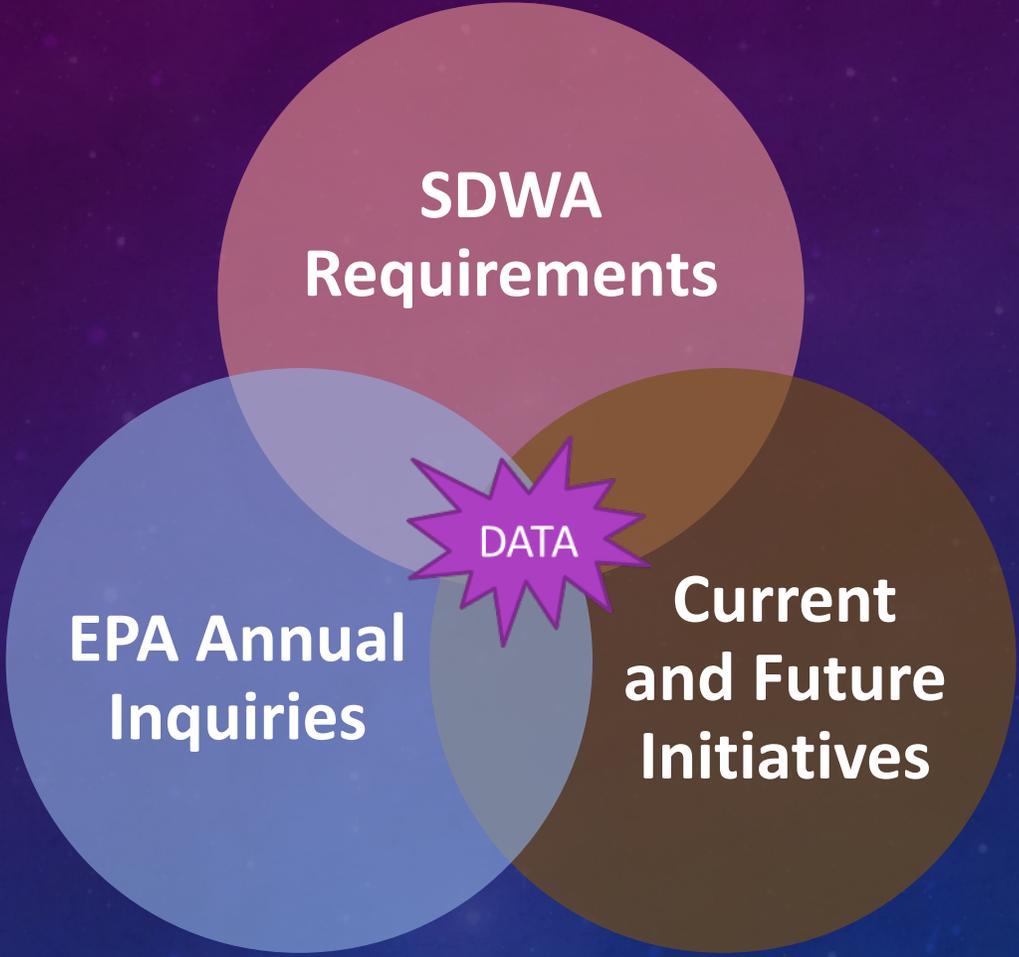
2014

**SWP Workgroup frames Plan and Initiative doc**

- Two-part plan

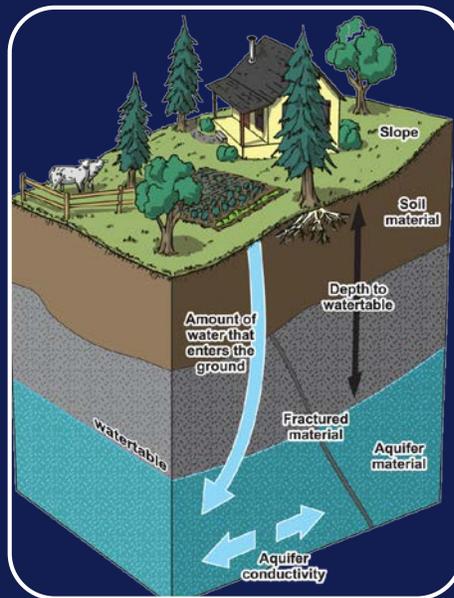
2016–2018

SOURCE WATER PROTECTION  
*BACKGROUND*



**SOURCE WATER PROTECTION  
*NEEDS***

# SOURCE WATER PROTECTION *DATA HUB*



## The SWP Data Hub

- Centralize ground and surface water data to assess vulnerability of drinking water sources to contaminants
- Provide data and location for assessment tool
- Allow public accessibility and data downloads
- Provide proximity search tools
- Does not reflect delivered, treated drinking water

# SOURCE WATER PROTECTION

## EXAMPLE INFORMATION TO BE PROVIDED IN DATA HUB

### Informational Data

Public Water Sources (wells, surface water intakes)

Protected Areas (Federal, State, Tribal, etc.)

Water Quality Information

Soil Properties (SSURGO)

Land Cover (NLCD)

### Program Designations

Existing SWAs and Plans

IRWMs

TMDLs

319 (h) Grant Projects

Aquifer Exemptions

### Contaminants

Railroads, Roads, Hazardous Materials Routes

Clean-Up Wells (wells under Water Board authority)

Impaired Waters (303(d))

Potentially Contaminating Activities (animals, landfills, etc.)

Facilities Permitted to Discharge to Water (NPDES)

# SOURCE WATER PROTECTION

## GEOTECHNICAL ANALYSES OF EACH SOURCE



A capture zone is calculated to determine various travel time scenarios for potential sources of contamination

Workgroup of DDW staff in progress to develop parameters of assessment tool



EPA tools may be used to delineate most accurate zones (hydrologic conductivity, pump rate, soils)

Wellhead Analytic Element Model (WhAEM)



In systems with lack of hydrogeological data, a more conservative, calculated fixed-radius is determined

# SAFE TO DRINK PORTAL WATER QUALITY MONITORING COUNCIL- MY WATER QUALITY PORTAL

- [mywaterquality.ca.gov/safe\\_to\\_drink](http://mywaterquality.ca.gov/safe_to_drink)
- Provides information about:
  - Quality of drinking water
  - Regulating agencies that oversee public water systems
  - Private wells

## Find Out About Your Water

Most Californians receive their drinking water from public water systems. These systems are subject to many state and federal regulations intended to ensure that the water the systems provide to their customers is safe. On this page you can find links to information about the quality of your drinking water, as well as information about the regulating agencies that oversee public water systems. There's also information for private well owners.

## Regulating Agencies

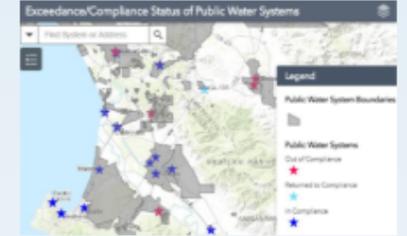
- The [U.S. Environmental Protection Agency](#) (U.S. EPA) administers the federal Safe Drinking Water Act and adopts regulations to implement the Act. However, the U.S. EPA grants primary enforcement responsibility for the federal act and regulations to those states that meet certain criteria.
- [Division of Drinking Water](#) (DDW) has been granted primary enforcement responsibility by U.S. EPA for public water systems in California and is also responsible for regulating public water systems, under the state Safe Drinking Water Act. DDW also is responsible for developing regulations for the use of recycled water to supplement drinking water supplies.
- Click on the [map](#) below to find your Division of Drinking Water district office.



- Some smaller public water systems are regulated by County Environmental Health Departments. These are called "Local Primacy Agencies." Some even smaller water systems, called state small water systems, are subject to minimum requirements that are enforced by local health agencies.

## Human Right to Water Portal

- At the [Human Right to Water Portal](#), you can find information about your drinking water system's water quality.



- There are also maps, links to compliance data, frequently asked questions, and access to the [Drinking Water Watch](#) website.

## Consumer Confidence Reports

If you receive your water from a public water system, the water system is required to provide to you an annual Consumer Confidence Report (CCR), which contains information about the system's water quality. Contact your water supplier for questions about the CCR. A number of CCRs are available at the [Drinking Water Watch](#) website.

## Contact the Division of Drinking Water

- By phone at (916) 449-5577
- By email at [DDW-PLU@waterboards.ca.gov](mailto:DDW-PLU@waterboards.ca.gov)

# SOURCE WATER PROTECTION PRODUCTS & BENEFITS

<b>SWP Product/Benefit</b>	<b>Legislation/Basis</b>	<b>Served By</b>
New Source Assessments	SDWA 42 U.S. Code § 300j-13(a)(2) and CA HSC §116762.60	Data Hub- Assessment Tool
Public Availability of Data	SDWA 42 U.S. Code § 300j-13(a)(7) and CA HSC §116762.60	Data Hub
Pollution Prevention	SDWA intent	Data Hub
Annual Questions from EPA R9	Region 9 local data needs	Data Hub
Initiatives	Water Boards coordination	Plan document/coordination



# SOURCE WATER PROTECTION *PLAN COMPONENTS*

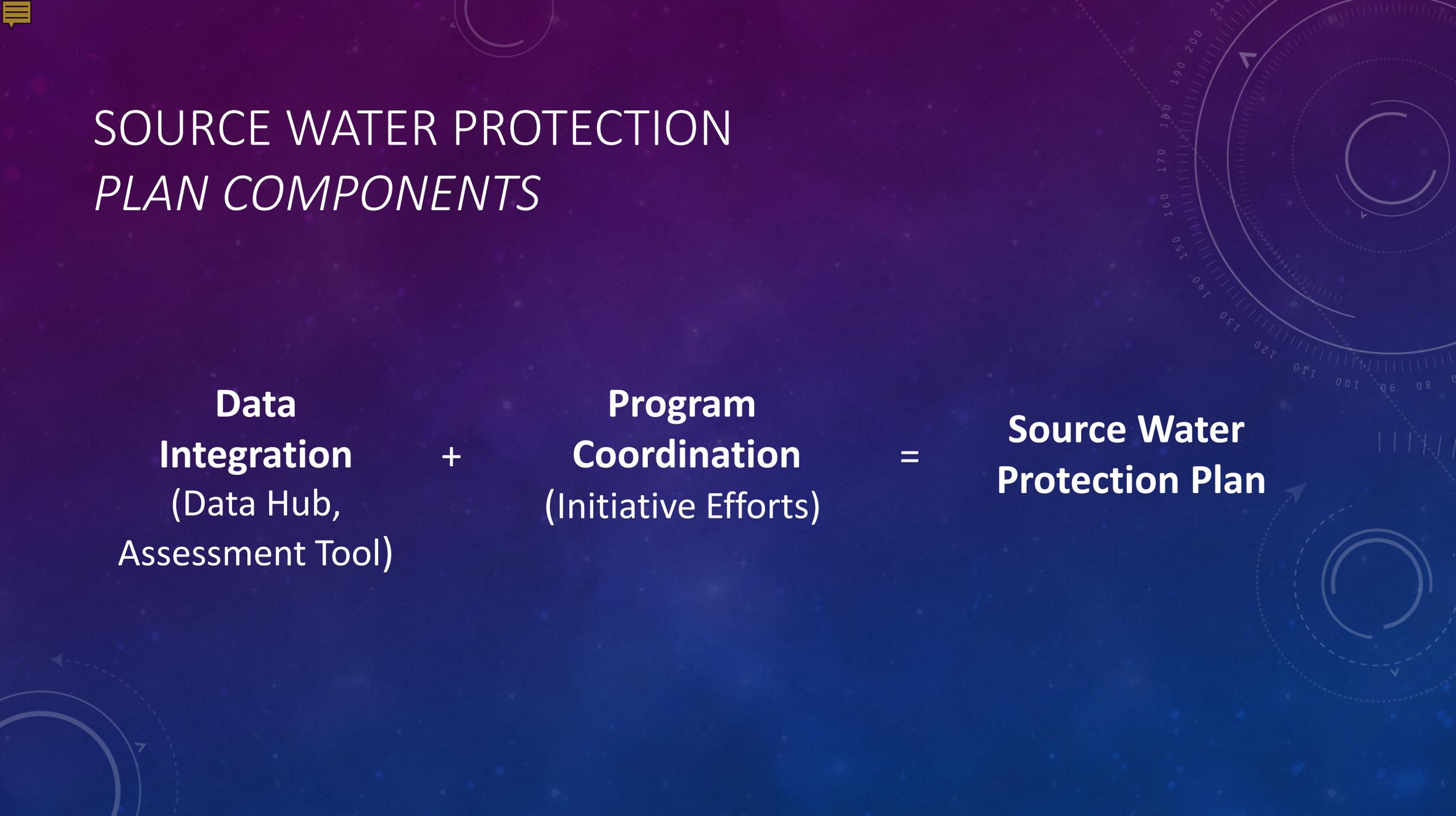
**Data  
Integration**  
(Data Hub,  
Assessment Tool)

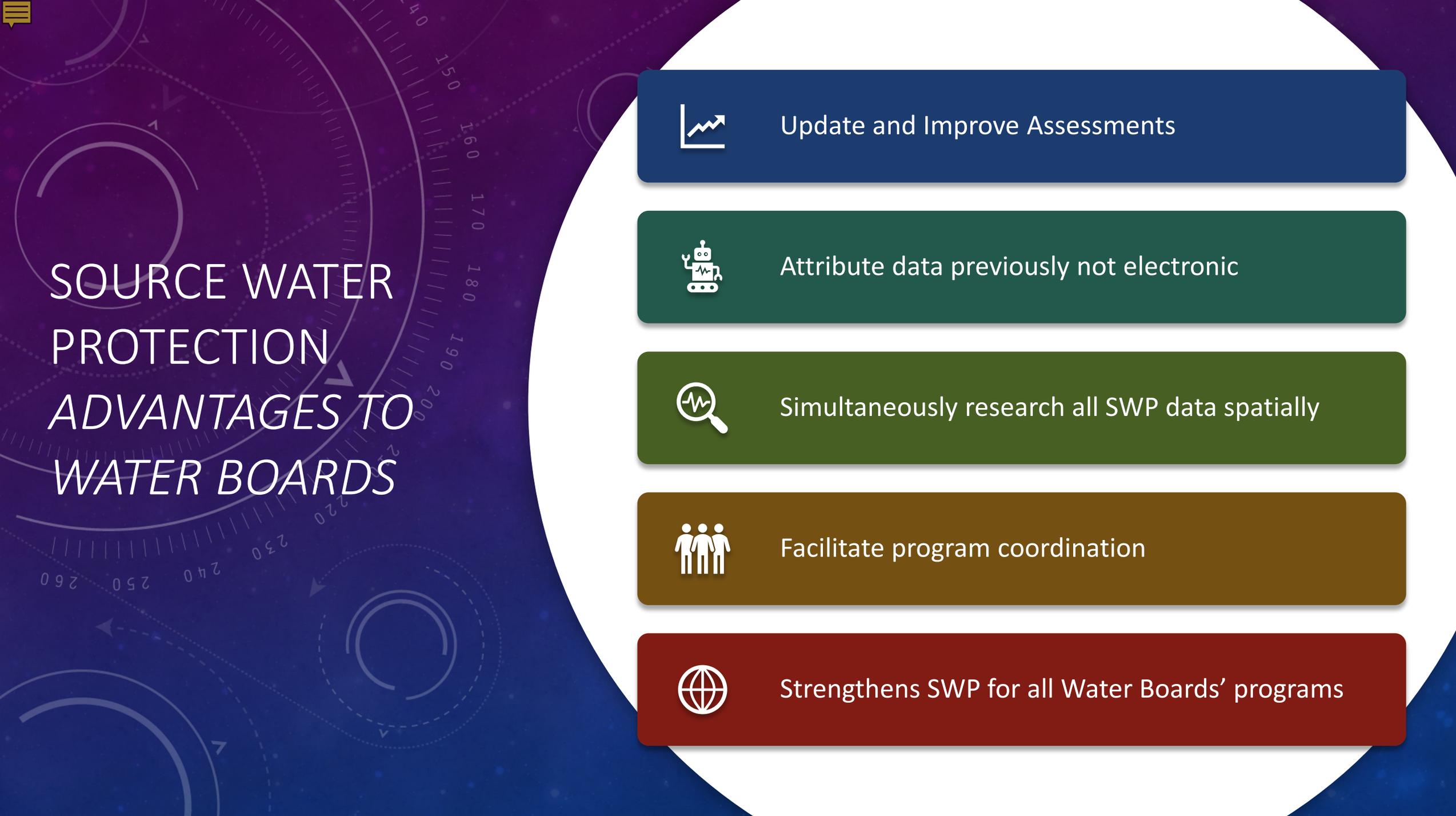
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**Program  
Coordination**  
(Initiative Efforts)

=

**Source Water  
Protection Plan**





SOURCE WATER  
PROTECTION  
*ADVANTAGES TO  
WATER BOARDS*



Update and Improve Assessments



Attribute data previously not electronic



Simultaneously research all SWP data spatially



Facilitate program coordination



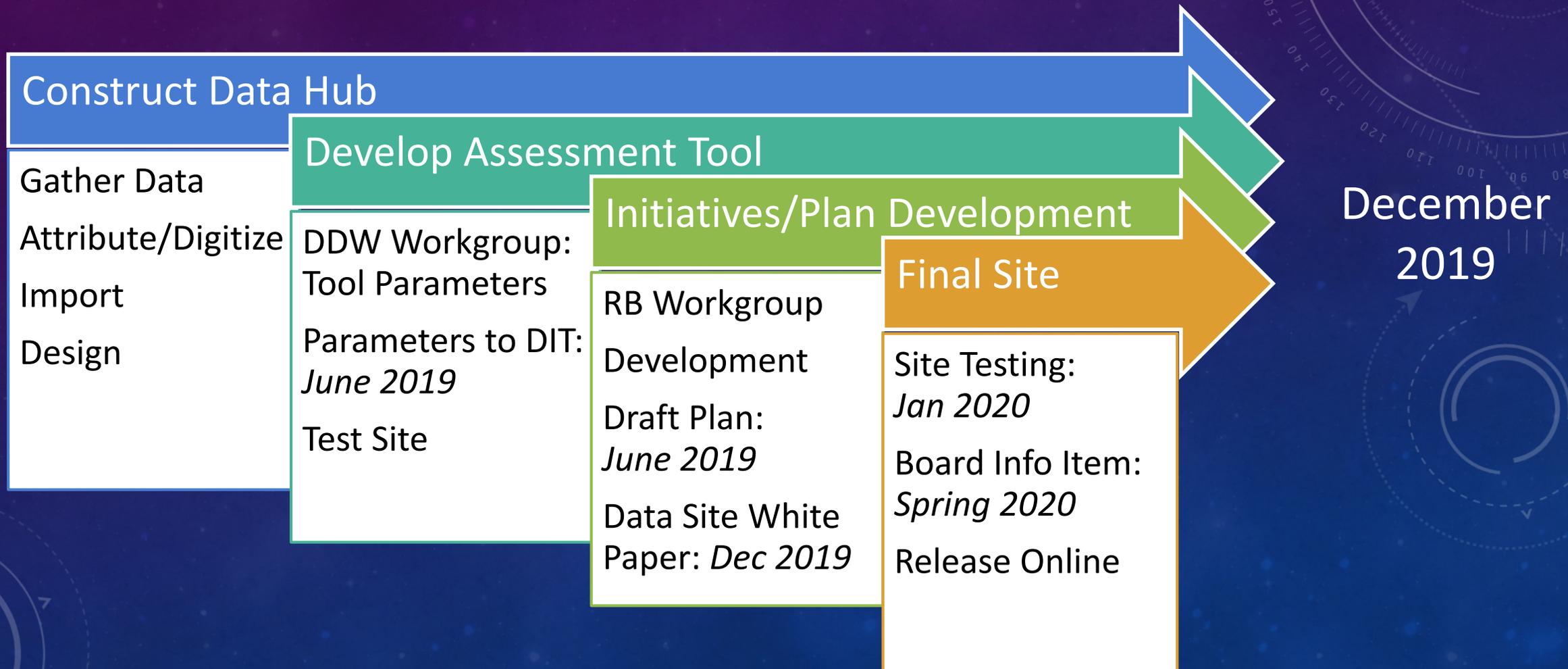
Strengthens SWP for all Water Boards' programs

# SOURCE WATER PROTECTION: A PREVENTATIVE APPROACH

- Raw ground and surface waters
- Flags all potentially contaminating activities to source
- Central data hub
- Assessment Tool resource for water systems
- Previous Source Water Assessments
- U.S. Safe Drinking Water Act – prevent pollution

*Characterizes contamination potential*

# SOURCE WATER PROTECTION PROJECT MILESTONES



# SOURCE WATER PROTECTION *PROJECT CONTACTS*

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