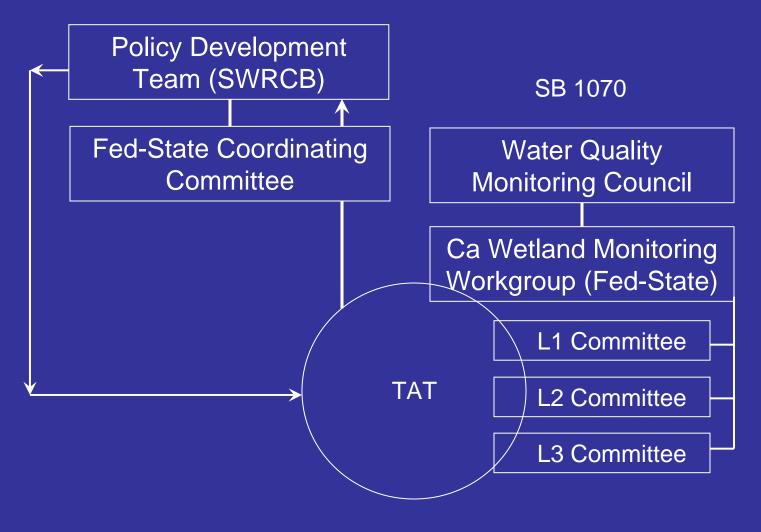
Science Support for Policy Development

State Board Resolution



Science Support for Policy Development

TAT Disbands after Policy Is Established

Regional Data Centers
Regional WRAMPs

Water Quality
Monitoring Council

Ca Wetland Monitoring
Workgroup

L1 Committee

L2 Committee

L3 Committee

Wetlands Regional Monitoring Program (WRMP)

Landscape-level tools:

Map-based inventories

Landscape analysis



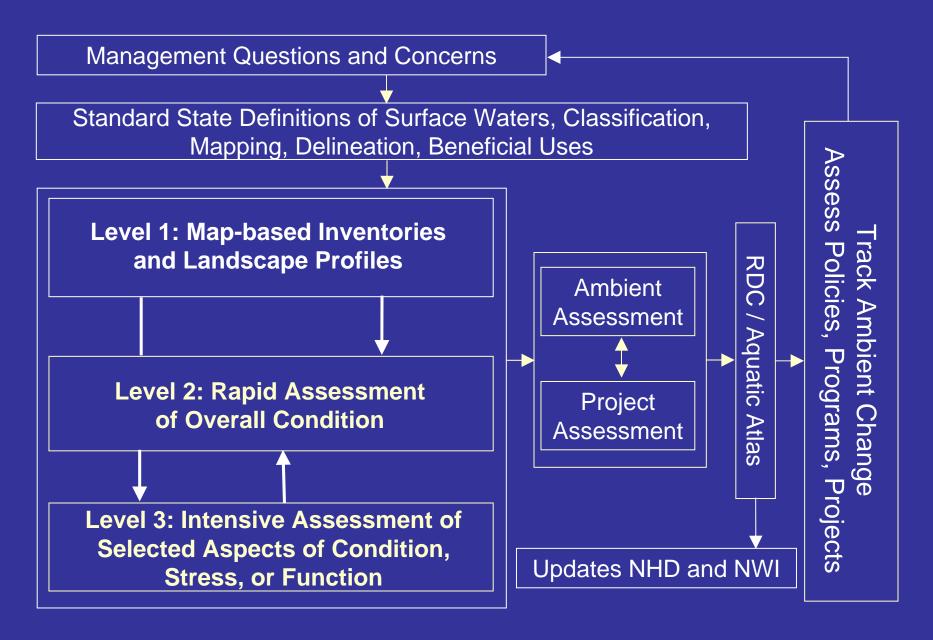
California Rapid Assessment Method (CRAM)





Geomorphic protocols Riparian biosentinels

WRAMP Framework



2003 USEPA
"Elements Letter"
calls for 1-2-3
Framework

2008 Ca State Water Board Resolution 2008-0026 calls for WRAPP

> Team (1 CWMW

and

for the PDT

Technical Advisory

2009 Revised USACE 404(b)(1) Guidance calls for watershed approach to 404 2006 Ca SB 1070 Calls for Water Quality Monitoring Council (WQMC)

Implementation Projects

Ongoing

- Willits 101 Bypass
- Tahoe WRAMP
- Napa WRAMP
- Bay Area WRAMP
- Russian River Tributary WRAMP
- S. Coast Byte WRAMP
- Willits 101 Bypass

Possible - Likely

- Delta Conveyance
- High Speed Rail

2008 Inter-agency Coordinating Committee (ICC)

2008 WRAPP Development Team (PDT)

2007 CA WQMC

2008 Ca Wetland
Monitoring
Workgroup (CWMW)

Wetland and Riparian Area Monitoring Program (WRAMP)

L1 Committee (CDFG) (Linked to NWI and NHD)

- Stream, Wetland, Riparian Definitions
- Mapping Standards
- ClassificationStandards
- Status -Trends Plan

L2 Committee (SWRCB)

 CRAM Development and User Guidance

L3 Committee as needed

L3 Protocol Development and User Guidance

Regional Data Centers (linked to CEDEN)

Future of Tracker?

Data In (local)

Aquatic resources maps

Ambient sites

Reference sites

CRAM

L3 data (Counts & Measurements Photos & Video) **Project locations**

Project/Permit Info 401/404/1600

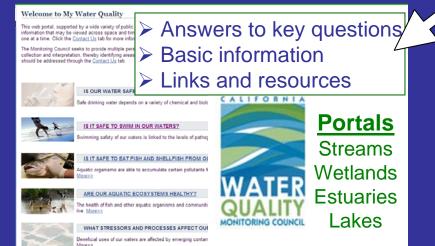
CRAM

L3 data

A more integrated Portal



Info Out



Data & Info Out

Statewide reporting at the watershed scale

- ➤ WRAPP mitigation & regulation
- ➤ Policy and program assessment

Local and regional reports

- ➤ Local permits info
- ➤ Regional net change
- ➤ Special regional needs

My Water Quality Portals

- Answers to key public stakeholder questions
- Links to Regional Data Centers
- Links to key programs
- Updated news bulletins
- Managed by Water Quality Monitoring Council



California Environmental Data Exchange Network (CEDEN)

- Statewide archive of Regional Data Center contents plus other public environmental data
- Data hub among Regional Data Centers
- Data source for My Water Quality Portals
- Managed by Natural Resources Agency



Regional Data Centers

- Habitat trackers
- Permit trackers
- Project trackers
- Regional archive for ambient and project data
- Web-based query tools
- Managed by regional JPAs and SWRCB

California Aquatic Resource Inventory (the base map)

- Standardized maps of tidal waters, lakes, rivers and streams, wetlands, riparian areas
- Base map for Regional Data Centers, CEDEN, My Water Quality Portals
- Basis for assessing aquatic resource extent
- Automates watershed mapping
- Intensifies NHD of USGS and NWI of USFWS
- Managed by CDFG

- My Water Quality Portals provide easily understood authoritative answers to frequently asked questions about water quality raised by various stakeholder groups. The portals also provide links to related sources of information, programs, and projects.
- The Ca Environmental Exchange Network (CEDEN) compiles data from the Regional Data Centers and elsewhere to support statewide programs and reporting. CEDEN enables data and information sharing among Regional Data Centers and populates the My Water Quality Portals with information.
- Regional Data Centers compile publically funded data from grants, contracts, programs, and projects. The data can be harvested by CEDEN and accessed by the public. Data can be remotely uploaded, queried, and downloaded. They are used to assess ambient change as well as project and program performance.
- Ca Aquatic Resource Inventory (CARI) is the statewide aquatic resources base map. There are regional versions (e.g., BAARI in Bay Area, TARI in Tahoe, SCARI in South Coast).