California Wetlands Monitoring Workgroup

Progress Update:
April 2, 2009

Participation in CWMW

- **Excellent participation**
  - 15 State and Federal agencies

- **Three recent meetings**
  - Nov. 2008, Jan. 2009, Mar. 2009

- **Two priority focus areas**
  - Development of a state wetland monitoring program
  - Wetland data portal

State Wetland Monitoring Plan

- **Question driven**
  - Flexible: support individual agency's info needs
  - Support, not subsume agency programs

- **Consistent Statewide Framework**

- **Regional Implementation**
  - Build on existing programs
  - Customize to meet regional/local needs

Elements of State Program

- Extent and distribution of wetlands (maps)
- Ambient condition of wetlands
- Location of wetland projects and their effect on wetland extent and condition
- Intensive monitoring data
  - insight into wetland function
  - support indicator development and refinement

Data Integration and Management

Progress on State Monitoring Program

- Agree upon consistent tools/approaches
- Mechanisms to share data/information
- Leverage existing agency efforts
  - Coordinate with State Board policy development

- **Next Steps:**
  - **Develop formal monitoring plan document**
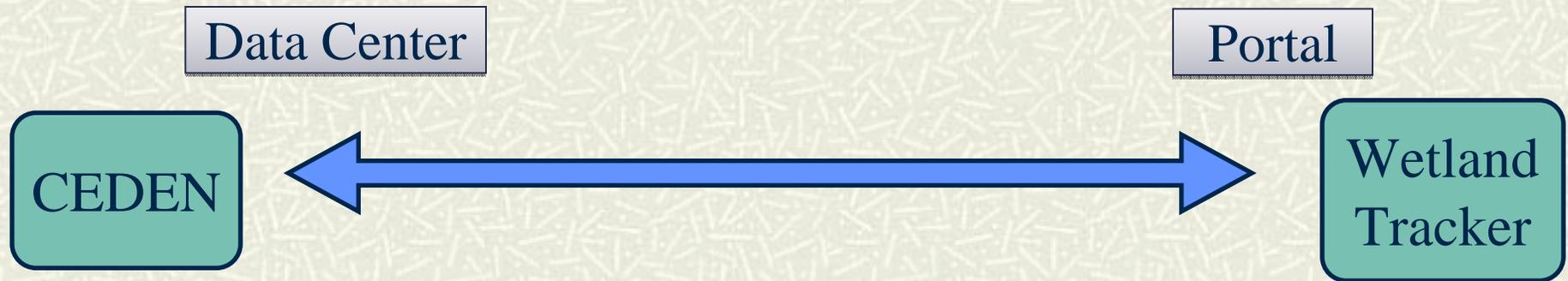 - **Develop implementation strategy (incl. funding)**

Development of Data Portals

- Portals move beyond databases

- Portals allow users to:
  - Access information
  - Explore data / ask questions
  - Integrate and aggregate information
  - Build networks with people, ideas, and information

Tracker and Portal

Data Center

Portal

CEDEN

Wetland Tracker

Two Categories of Questions

- Questions that State thinks the public wants to know, e.g. "Where are our wetlands?"

- Questions that public and agencies can ask of available data

Data Portals Build on Tracker

- Landing pages
- Content addressing "State defined questions"
  - Data upload and storage
  - Data query and retrieval
  - Data visualization and reporting
- Content that addresses "user-defined questions"
- Links to "external" sources of data

Dynamic Searching

User defined Queries

Personal Profiles

WETLAND TRACKER

Bay Area
Home | Project list | Map

Search

Project Locator...
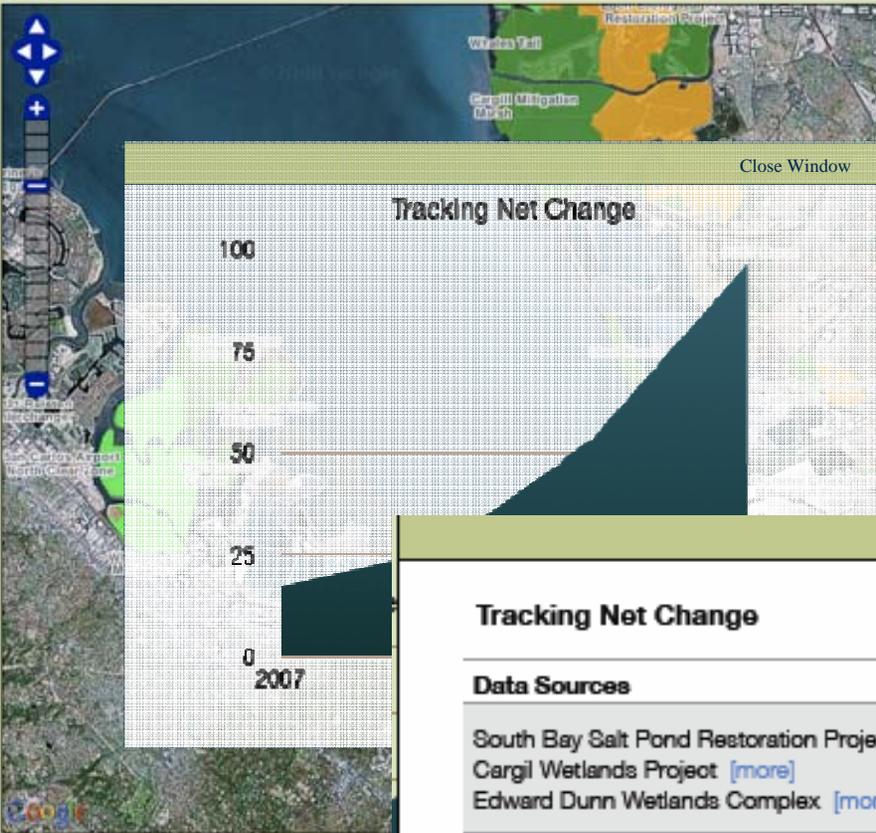
Actions
- Download
- Track Change
- New Map

Layers
- ☑ Wetland Projects
- ☐ Condition (CRAM)
- ☐ Modern Habitats
- ☐ Historical Habitats

Background
- ○ Basic
- ○ USGS Topo Maps
- ◉ Google Satellite
- ○ Google Terrain

Legend

Projects
- Construction completed
- Construction in-progress
- Construction planned
- estimate boundary

Close Window

Tracking Net Change

100

75

50

25

0
2007

Welcome, John
- ‣ **Profile**
  - o Messages
  - o Account Info
  - o Preferences
- ‣ **Favorites**
- ‣ **Recent Searches**
- ‣ **News**
- ‣ **Popular Content**
- ‣ **Help**
- ‣ **Search**

Related Information
- ‣ **Level 1 Data**
  - o Habitats
- ‣ **Level 2 Data**
  - o CRAM Assesments
- ‣ **Level 3 Data**
  - o Biosentinel Species
  - o Vegetation Surveys
  - o Mercury in sediment
  - o Methylmercury in water
  - o PCBs in Sediment
  - o PCBs in nearby tributaries
  - o More ->
- ‣ **Documents**

Close Window

Tracking Net Change

Data Sources

South Bay Salt Pond Restoration Project [more]
Cargil Wetlands Project [more]
Edward Dunn Wetlands Complex [more]

Methods

Lorem ipsum ....

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Tracking Net Change

Data Download

Edward Dunn Wetlands Complex	Info
	Excel | XML | SHP | PDF

South Bay Salt Pond Restoration Project	Info
	Excel | XML | SHP | PDF

Cargil Wetlands Project	Info
	Excel | XML | SHP | PDF

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Expanded Vision

Wetland Data Portal

Aquatic Ecosystem Health Portal

Wetlands Overlap with Most Aquatic Habitat Types of Interest

Aquatic Ecosystem Health

Streams	Lakes	Estuaries	Ocean	Other Wetlands
In-stream habitat	Deep OW	Deep Subtidal	Deep Subtidal	
Bank	Shallow OW	Shallow Subtidal	Shallow Subtidal	
Riparian	SAV	SAV	SAV	
	Flats	Mudflat	Riparian	
	Emergent Veg	Emergent Veg		
	Riparian	Riparian		
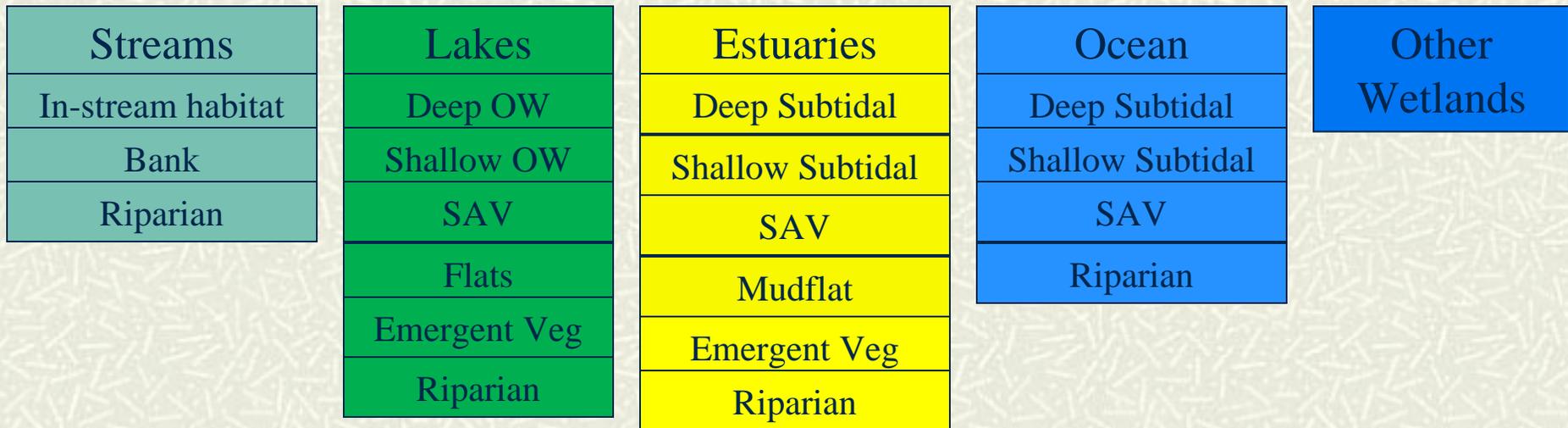
Similar Questions & Similar Information Needs

Wetlands Overlap with Most Aquatic Habitat Types of Interest

Aquatic Ecosystem Health

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	Riparian	Riparian		
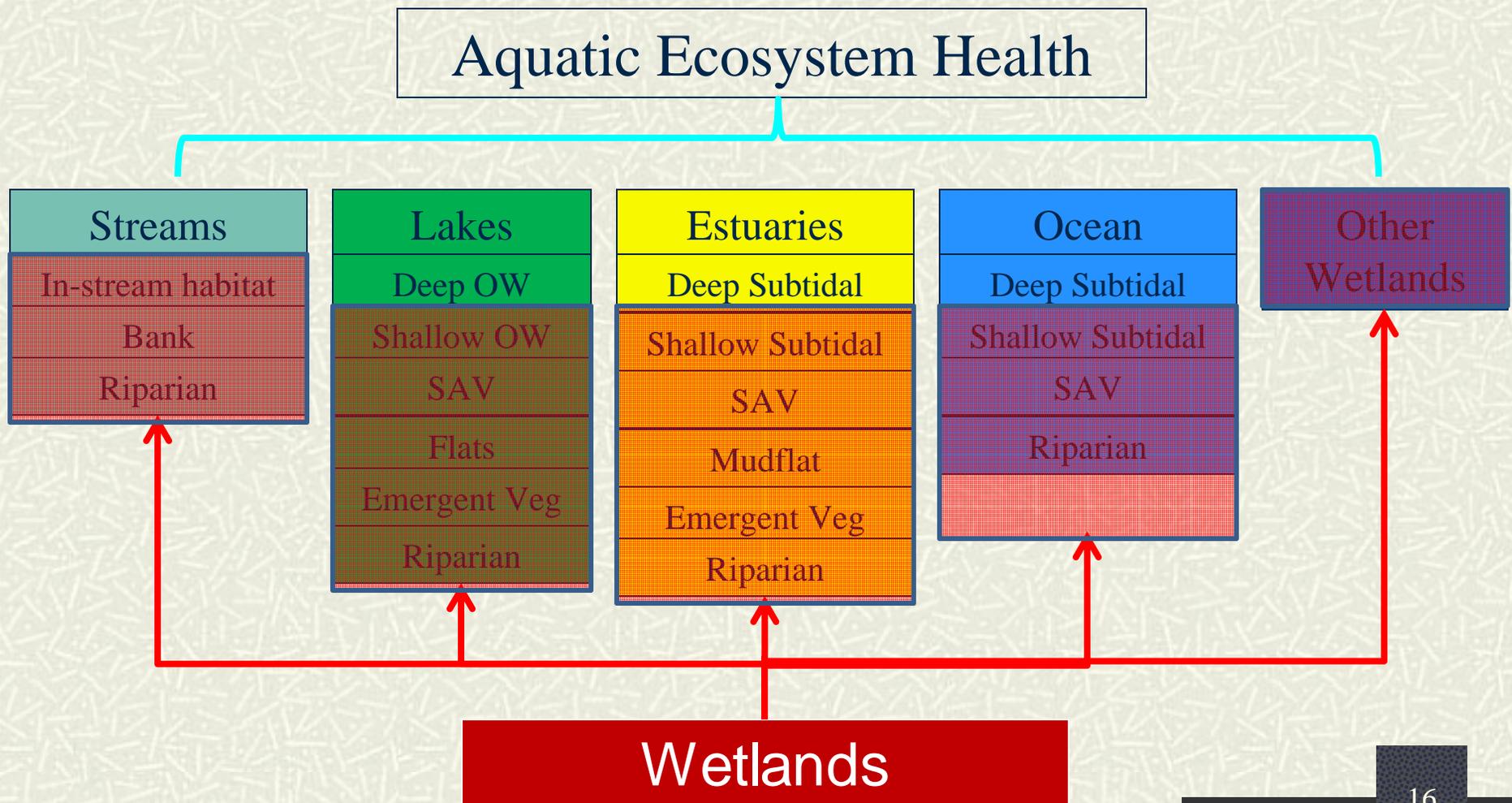
Wetlands

Recommendations

- Use existing Information Technical Team to develop core functionality

- Initial product focused on on wetland extent

- Partner with other "user communities" to add data and functionality over time

- Allow seamless integration of information across different types of aquatic resources

Thank You