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CBDA Drinking Water Subcommittee Meeting

April 23, 2004

04/05 Program Plan

What's New

- Targets Section – proposed targets from WQ Program Plan Appendix
- Delta Improvements Package
- Regional Planning RFP
- Implementing agencies and funding status identified
- Added NRCS to Participating Agencies

Accomplishments

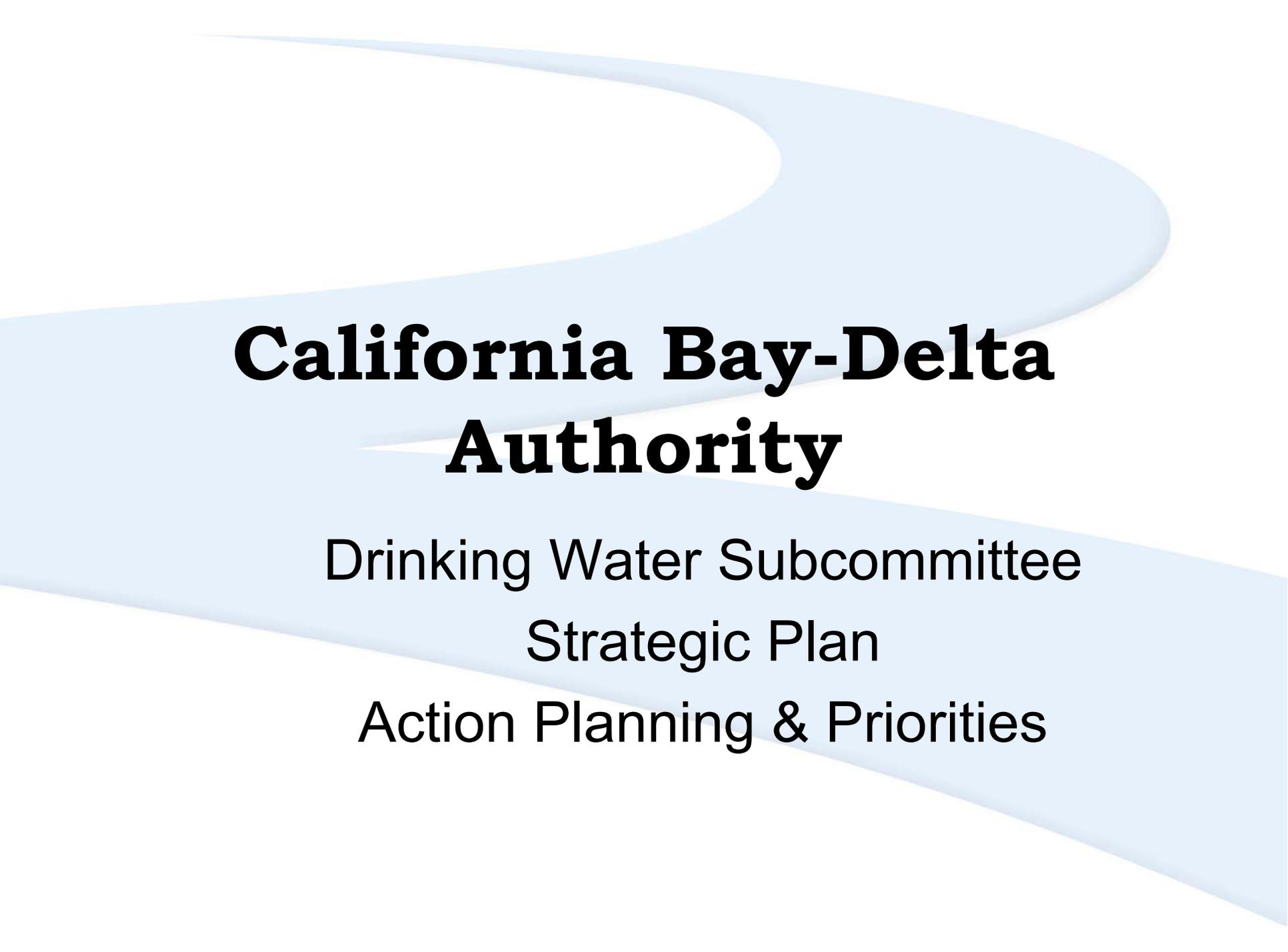
- 24 Projects awarded for \$40.5 million
 - Source Improvement, monitoring, and Science strongly represented
 - Rock Slough and Old River Projects
- Started Strategic Planning Process

Major Activities

- Drinking Water Policy for Delta and Tributaries will continue with full funding
- Delta Improvements Package – develop water quality targets and plans
- Regional Planning – DWQP supported efforts and SWRCB/DWR RFP
- Strategy, program evaluation, targets, performance measures, Science

DWQP Issues

- Staffing
- Funding Uncertainties:
 - Bond Programs \neq Program Plan Actions
- Funding for Science and Monitoring
- Technical Uncertainties: Benefits & Costs
- Timing: Source improvement is long term and incremental
- Drinking Water Policy Framework

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California Bay-Delta Authority

Drinking Water Subcommittee

Strategic Plan

Action Planning & Priorities

Action Planning & Prioritizing

- Purpose
 - Focus DWS discussion of actions and priorities
 - Increase group understanding of actions
 - Develop group concurrence on actions and priorities
- Agenda
 - Approach and Context
 - Prioritizing Factors
 - Regional Water Quality Planning
 - Discussion and Priorities of Actions

Prioritizing Exercise

- Approach
 - Simple scoring of each action
 - Based on “best professional judgment”
 - Iterative process
 - Scoring, Discussion, Scoring
 - Repeat until group concurrence & acceptance achieved
- Acknowledgements
 - Complete information is not available
 - Focus discussion on areas where there is wide discrepancy in the scoring
 - Adapt and revisit when new information is available
 - Seeking improved understanding and group acceptance

Example Results

Treatment Technology		Total	Count	Avg	High	Low	Std. Dev.	Subcategory
18	Develop Common Agreement on Public Health Risks	10	1	10.0	10	10	0.00	Other
17	Demonstrate Treatment Strategy to Reduce Largest Risk Contributors	9	1	9.0	9	9	0.00	Other
10	Demonstrate Organic Carbon Removal Technology	48	7	6.9	9	3	1.81	Organic Carbon
8	Demonstrate Groundwater Treatment Technology	47	7	6.7	10	5	1.83	Groundwater Contaminants
6	Demonstrate Bromide Removal Technology	46	7	6.6	9	4	1.50	Bromide
12	Demonstrate UV Disinfection Technology	46	7	6.6	10	3	2.66	Pathogen Disinfection
1	Assess Technology Timing	42	7	6.0	9	0	3.12	Adaptive Management
2	Establish and Use an Expert Panel	42	7	6.0	9	3	2.14	Adaptive Management
9	Demonstrate Algae Treatment Technology	39	7	5.6	8	2	1.76	Nutrients
4	Track External Research	36	7	5.1	10	1	2.80	Adaptive Management
3	Track Emerging Contaminants	31	7	4.4	9	1	2.61	Adaptive Management
5	Track Upcoming Regulations	30	7	4.3	9	1	2.60	Adaptive Management
15	Demonstrate Desalination as Treatment Technology	30	7	4.3	8	2	2.19	Salinity

- **Insert Lynda's Slides**

Coordinating Agencies

Implementing Agencies

DWR
USGS
Others?

CBDA
DWQP

EPA
DHS
SWRCB/
CVRWQCB

Source Improvement

- Continuous source WQ improvement
- Water Mgt.
- Research

Treatment Technology

- DW treatment research
- Technology Assessment
- Facilitate implementation

Regional ELPH Plans

Facilitate:

- Creation
- Integration
- Implementation

Science & Improved Understanding

- Public Health Index
- Affordability
- Monitoring & Assessment

Institutional & Program Mgmt.

- Funding
- Coordination
- Strategic Planning
- Outreach

**CBDA
DWQP
Imp.
Agency
Actions**



Regional Drinking Water Quality Management Plans (ELPH)

Research, Planning & Implementation Actions

- Source WQ improvement
- Water management

- Drinking water treatment
- Distribution system integrity
- Healthy tap water

Major Missing Actions

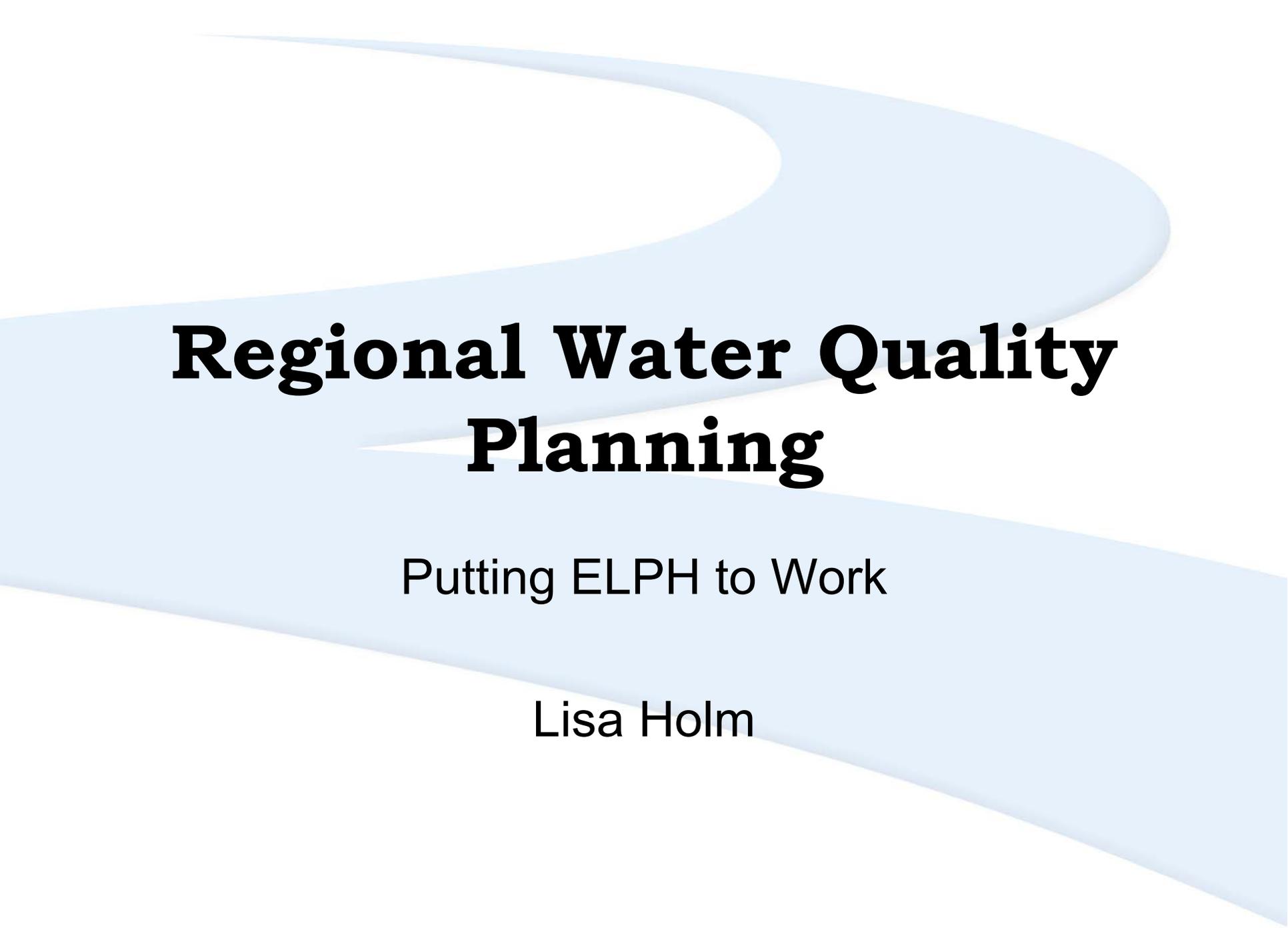
- Are there any major types of actions missing from the current list?
- Review and refine missing actions
 - Are they program-level actions?
 - What category do they belong in?
 - Can it be described as a specific action?
- We will review missing actions again when we discuss each category

Priority Factors

- Suggested Priority Factors
 - Developed by Work Group
 - Suggested for Consideration during Scoring
- Brief Discussion of Relative Importance of Priority Factors

Next Steps

- Complete Scoring Ballots
- Lunch
- Regional Water Quality Planning Presentation and Discussion
- Review and Discussion of Remaining Action Categories



Regional Water Quality Planning

Putting ELPH to Work

Lisa Holm

Background

- CALFED ROD – Regional Perspective (5 Regions)
- CALFED Water Quality Program Plan – actions grouped into 11 regions
- DWS: ELPH incorporates regional concept
- DWS: NGT identified regional planning as first and sixth priority

Regional Planning Objective

Support the development and implementation of local and regional water quality planning which employs the tools identified in the ELPH diagram.

(Use regional planning to implement other goals.)

Philosophy

- Drinking water quality improvement involves a combination of actions that occur at state, regional, and local levels
- Local leadership and stakeholder perspective should help determine at which level an action needs to occur
- CALFED should facilitate and coordinate regional water quality planning

Regional Planning Activities

- Workgroup is trying to define regional planning
- Regional Planning RFP drafted (\$850,000 total)
- Draft white paper on regional planning in progress

Criteria for a Region

- Geography
- Shared water supplies
- Similar drinking water quality problems
- Overlapping or adjacent drinking water infrastructure
- Connection to Delta water supply
- Existence of a governance structure that can easily absorb the ELPH strategy and oversee it's regional implementation

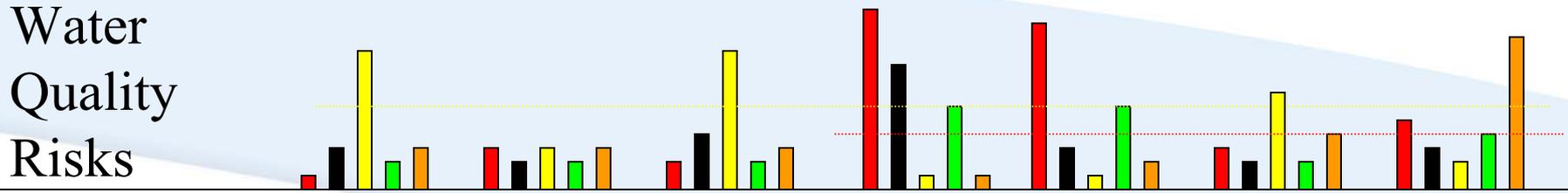
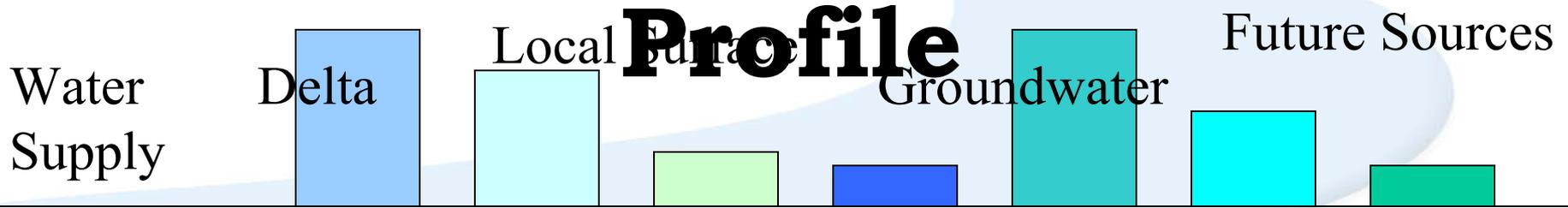
Advantages of Regional Planning

- Improves local/regional flexibility
- Improves ability to prioritize actions needed at a state level
- Improves local/region ability to compete for public funds
- Improves understanding of biggest drinking water quality problems and their links to the Delta
- Improves overall cost-effectiveness
- Improves response to emerging contaminants through a uniform understanding of water quality

Components of A Regional Plan

- Builds off local knowledge of water supplies and associated water quality
- Combines resources to identify the most cost-effective suite of actions to solve most critical risks to public health
- Is uniform, so that regions can work with each other to identify actions, yet allows each region to customize for their unique situation
- Includes robust stakeholder outreach and environmental justice components
- Includes commitment to coordinate, share data, participate in the CALFED program

Hypothetical Regional Profile



Projects
Costs

Identify projects that address water quality risks at local, regional and state levels and identify cost-effective suite of actions to meet goals



Next Steps

- Conduct RFP for Regional ELPH planning grants
- Develop criteria for Regional/Local ELPH plans
- Provide technical/financial assistance for regional ELPH planning activities
- Evaluate regional ELPH strategies
- Monitor regional ELPH strategies to ensure coordination



Treatment Technology Actions

Definition

- At drinking water treatment plants only
- Generally demonstration or pilot scale studies, application of new technologies to Delta water

Treatment and Distribution Goal

Reduce concentrations of constituents of concern in delivered water to reduce public health risks and improve taste and odor.

Grouping

- Adaptive Management
- Constituents:
 - Bromide
 - Pathogen Disinfection
 - Groundwater Constituents
 - Organic Carbon
 - Nutrients
 - Salinity