

A Portfolio-Based BDCP Conceptual Alternative

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A Portfolio-Based BDCP Conceptual Alternative

- Delta challenges
- Current BDCP choices and issues
- A portfolio-based alternative
- Next steps

Current challenges in the Delta

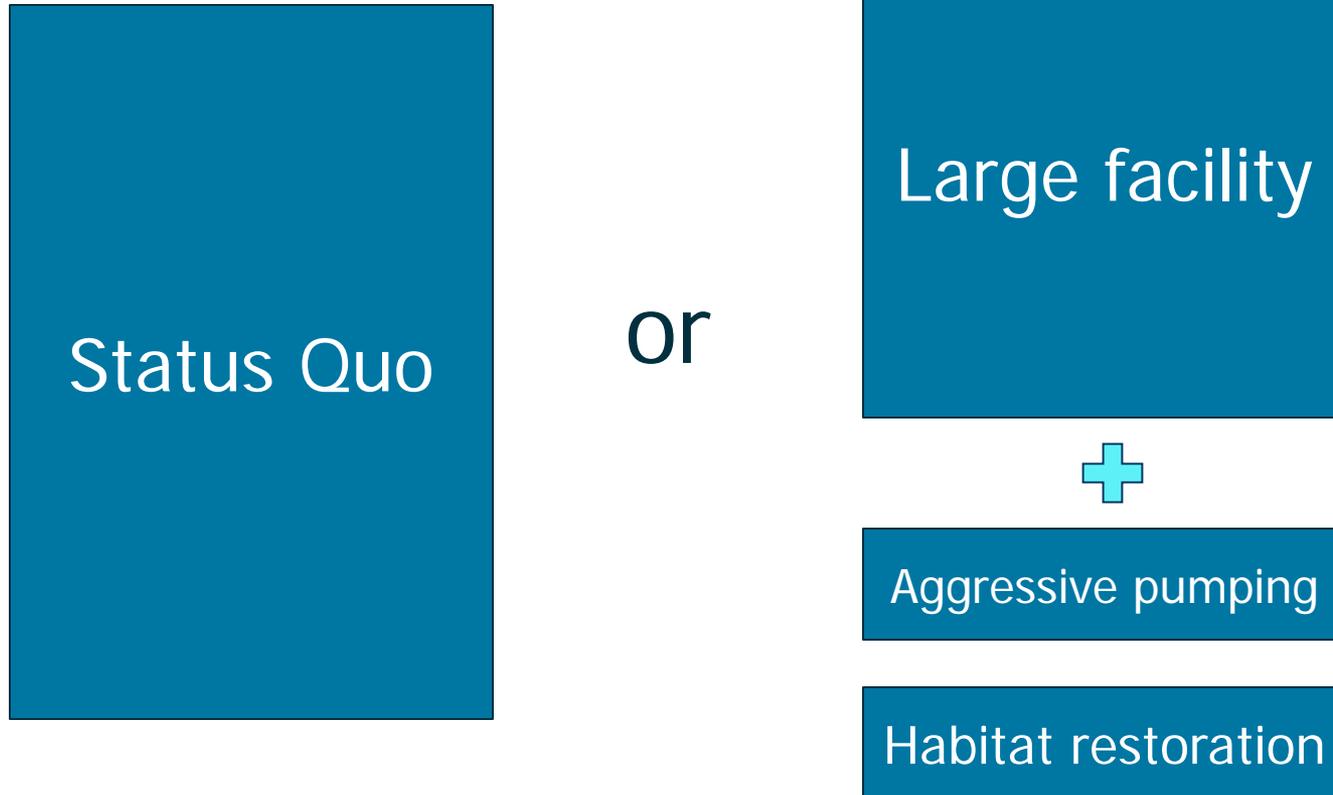
Crashing ecosystem

Vulnerable levee system

Water quality concerns

Institutions
struggling to
solve
problems

Current choices in BDCP



Questions about current direction

Water Reliability

- How would it reduce physical vulnerability?
- Would it provide improved reliability in droughts?

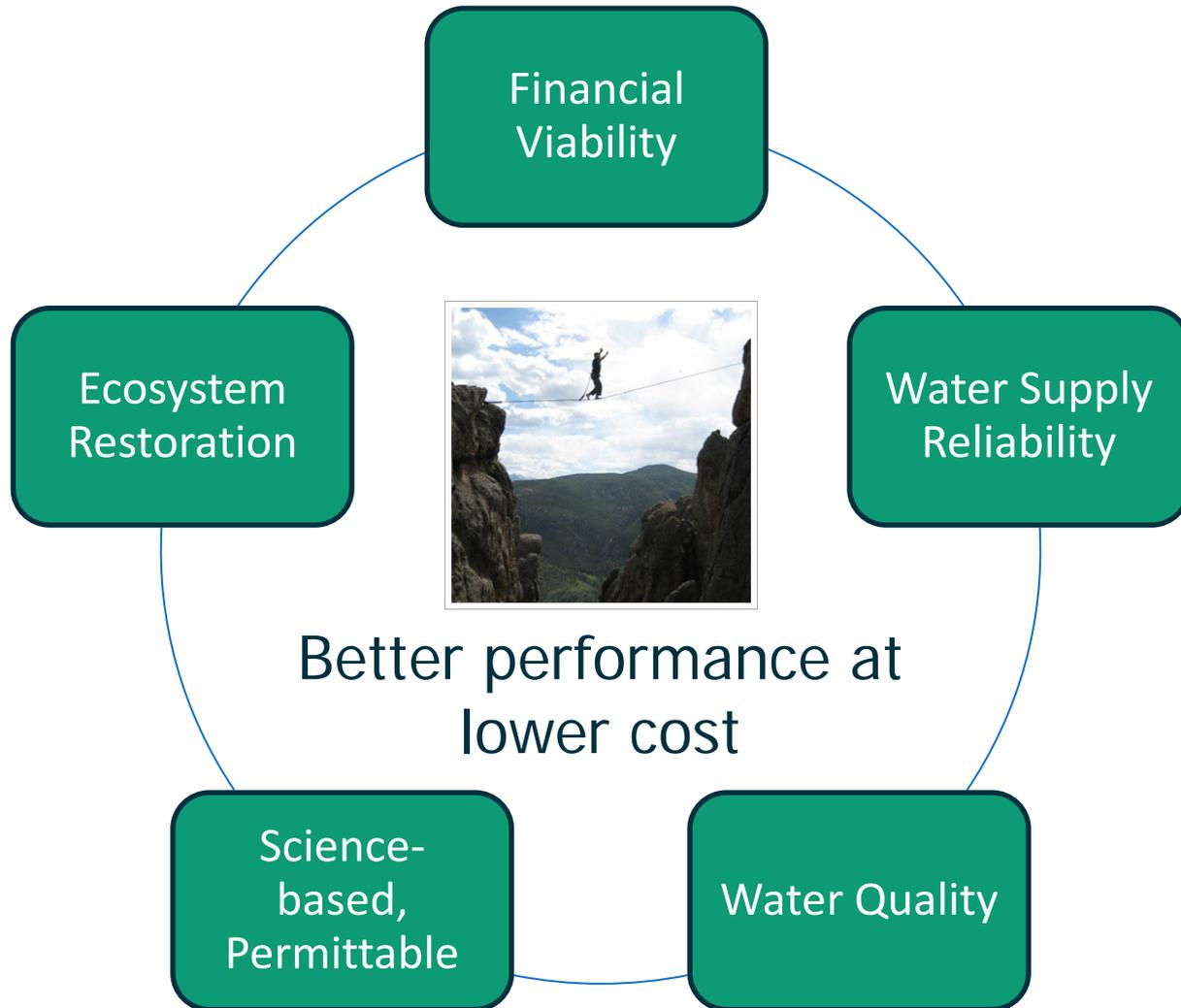
Ecosystem and Science

- Would it improve, or worsen, ecosystem health and water quality?
- Is it legally permissible?

Economics

- Is it financially feasible?

Selection criteria for Delta solution



Best solution will require thinking outside the current BDCP “Box”



Alternative portfolio-based approach

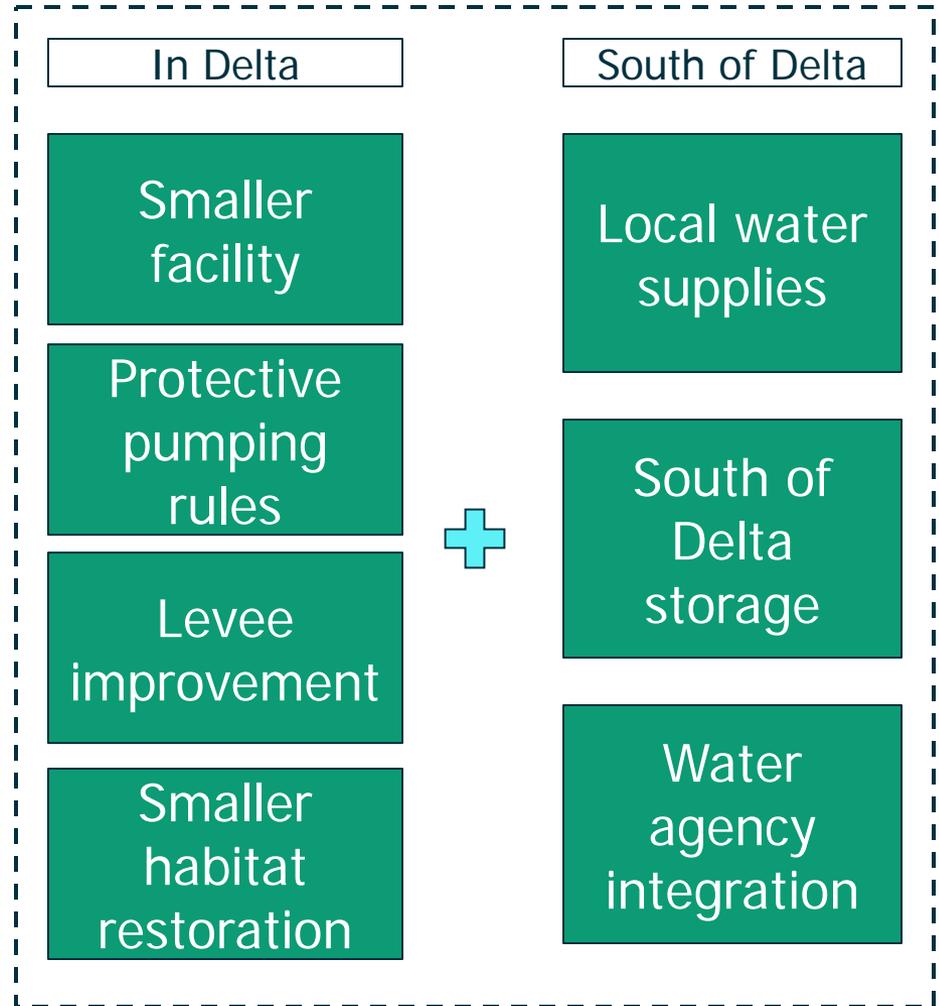
Large facility



Aggressive pumping

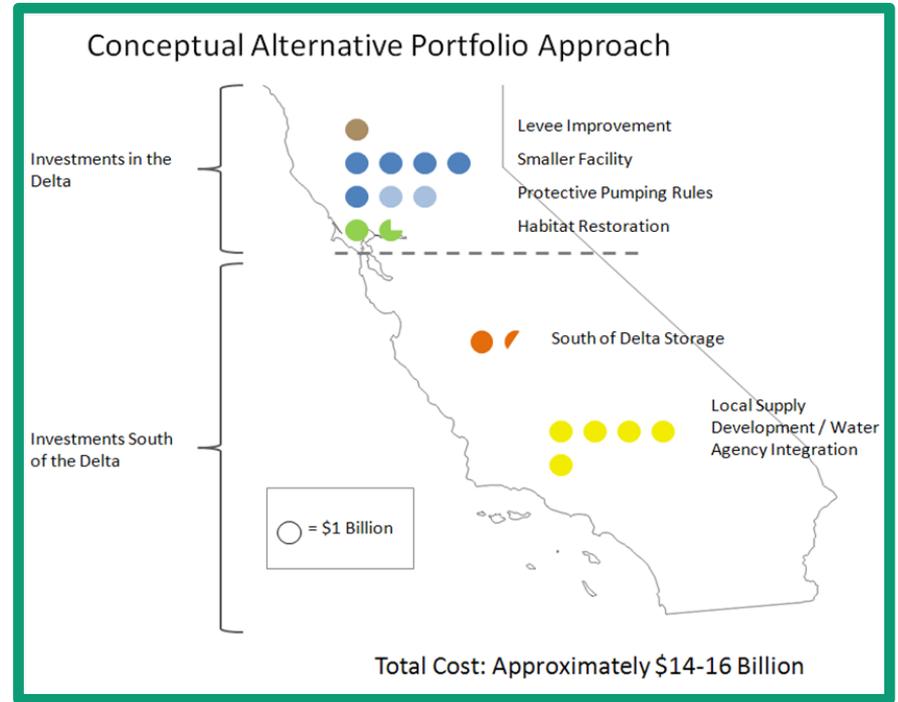
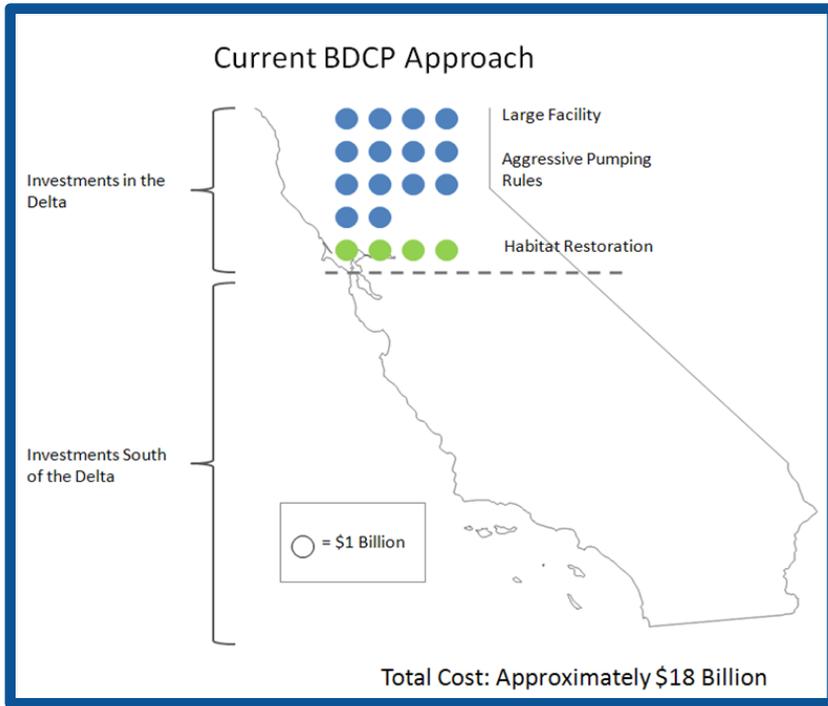
Habitat restoration

VS



Alternative portfolio-based approach

Summary of costs



Potential benefits of portfolio approach

Financial viability

- Lower capital cost for export water users
- Reduced energy use
- Faster delivery of benefits

Reliability

- Greater water supply reliability
 - Less vulnerable to levee failures, earthquakes and sea level rise
 - Less affected by extended droughts
- More water for export water agencies?

Ecosystem restoration

- Contributes to Bay-Delta ecosystem and salmon restoration

Science-based, Permittable

- Based on science, more likely to successfully obtain permits

Water quality

- Promising, but additional modeling required

Other

- Reduced reliance on Bay-Delta water supplies – Per SB 7X7
- More local control
- Creation of local jobs in export areas that are paying for project
- Reduced greenhouse gas emissions

Potential benefits of portfolio approach

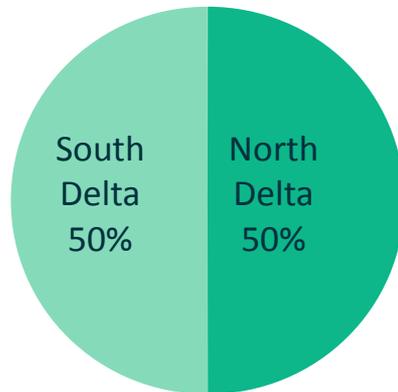
The bottom line

- More water
- Improved reliability
 - Dry years
 - Droughts
 - Levee failures
- Better environmental results
- Lower cost
- Broad support for further analysis
 - Southern California
 - Bay Area
 - Delta

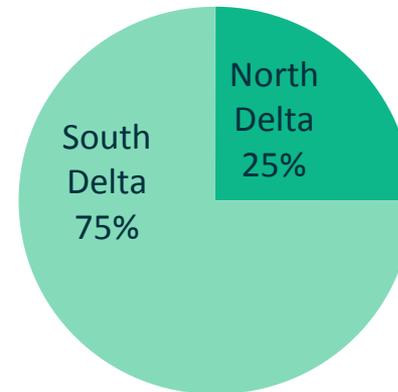
Water supply reliability

- A large facility still relies on south of Delta pumping

Normal Year



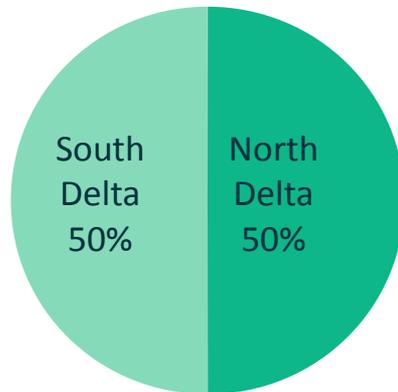
Dry Year



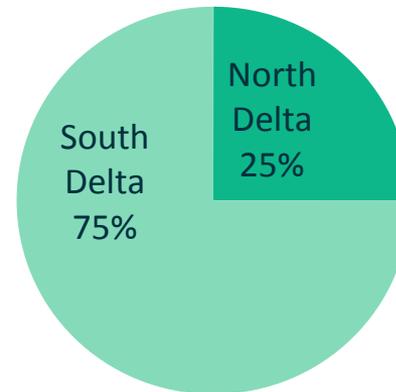
Water supply reliability

- Even with a large facility, a Delta levee failure leads to a large water supply loss

Normal Year



Dry Year



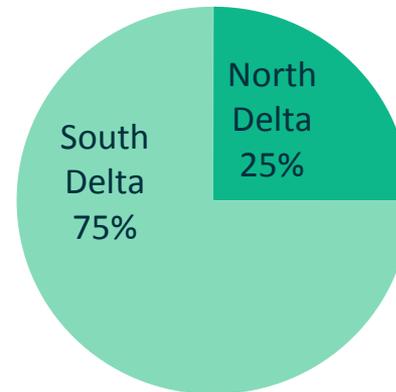
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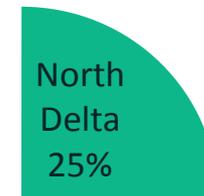
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Normal Year



Dry Year



Water supply reliability

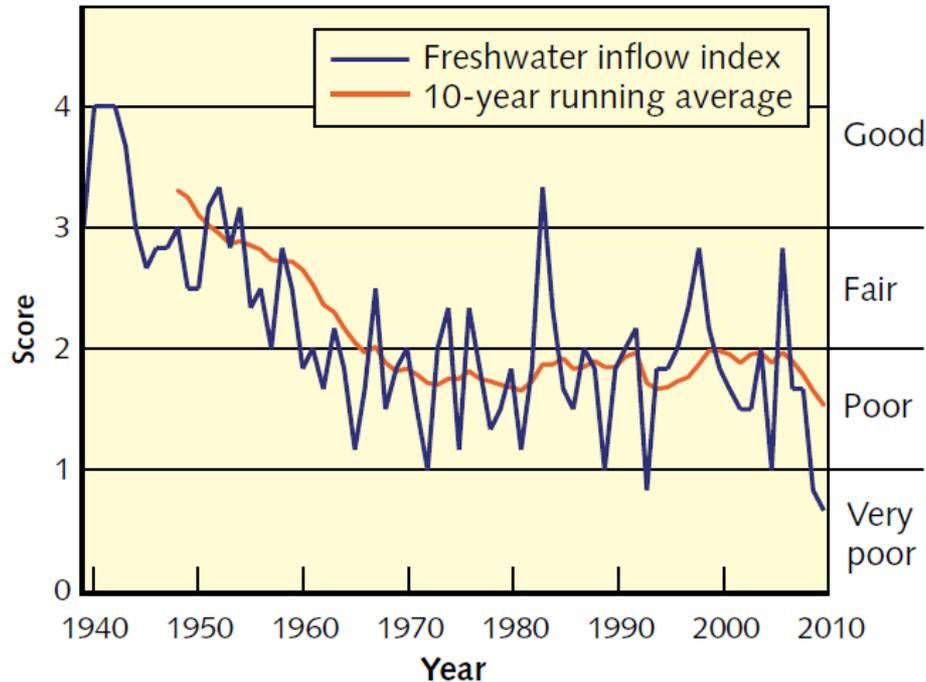
Portfolio-based approach

- 3,000 cfs facility
- Levee investments
- Conservation and water recycling
- South of Delta storage



Portfolio-based approach

Balancing reliability and ecosystem health



- Declining flows
- 69% of inflows diverted in Spring of 2010
- Increased flow and ecosystem conflicts

Portfolio-based approach

Balancing reliability and ecosystem health



Ecosystem Restoration

- Science-based Bay-Delta standards
- Habitat restoration

Water Supply Reliability

- South of Delta storage
- Local tools to reduce Delta reliance

Conceptual alternative – Not a proposed project

- Based on currently available information and science
- Limited modeling
- Better cost estimates needed
- Refinements required for final plan
- Request that BDCP analyze, not adopt, the portfolio-based alternative

Support for further analysis

- 7 urban water providers
 - Alameda County Water District
 - City of San Diego
 - Contra Costa Water District
 - East Bay Municipal Utility District
 - Otay Water District
 - San Diego County Water Authority
 - San Francisco Public Utilities Commission
- 4 environmental groups
 - Defenders of Wildlife
 - Natural Resources Defense Council
 - Planning and Conservation League
 - The Bay Institute
- 3 business groups
 - Contra Costa Council
 - Environmental Entrepreneurs
 - San Diego Regional Economic Development Corporation

Support for further analysis

- Elected officials
 - San Diego Mayor Bob Filner
 - Congressman George Miller
 - Congressman John Garamendi
 - Congresswoman Doris Matsui
 - Congressman Jerry McNerney
 - Congressman Mike Thompson
 - Congressman Ami Bera
 - Contra Costa County Supervisor Mary Piepho
 - Contra Costa County Supervisor Karen Mitchoff
 - Contra Costa County Board of Supervisors
- Delta Protection Commission
- Newspaper Editorials
 - San Diego Union Tribune
 - Merced Sun Star
 - Sacramento Bee
 - Chico News and Review

Next steps

- Discuss with state and federal agencies
- Discuss alternative among stakeholders
- Further analysis by BDCP agencies?