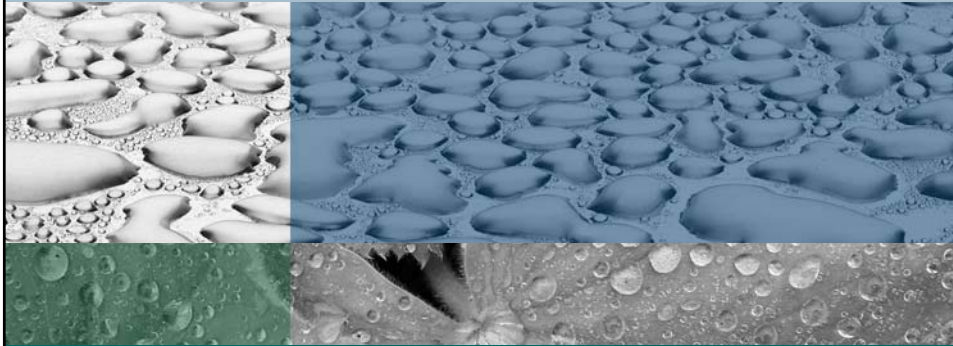


San Diego IRWMP Integration & Prioritization



March 19, 2007

Agenda

- Introduction
- Meeting Objectives
- Approach to Integration and Prioritization –
Alyson Watson
- Summary of IRWM Objectives Ranking –
Jon Van Rhyn
- Follow-Up Items
- Public Comments
- Next Meeting: April 23, 2007 (Meeting #6)
- Closing Remarks

2



Meeting Objectives

- Outline the Integration and Prioritization Approach that will be Presented in the Draft Plan
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3

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4

Context: IRWM Plan Guidelines

- Integration: Present the mix of water management strategies selected for inclusion in the Plan and **discuss how these strategies work together to** provide reliable water supply, protect or improve water quality, and **achieve** other **objectives**. Include a discussion of the added benefits of integration of multiple water management strategies.

5

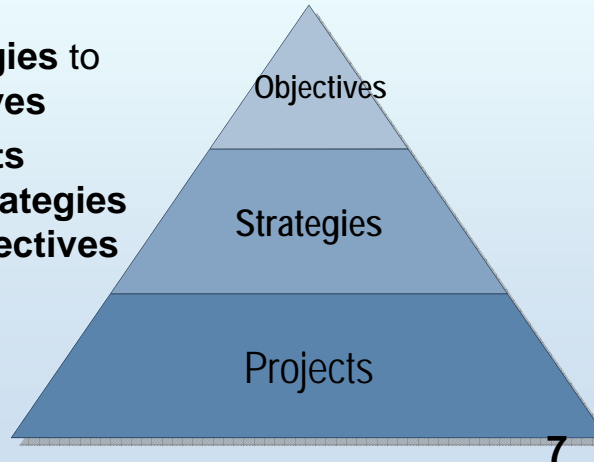
Context: IRWM Plan Guidelines

- Regional Priorities: Include short-term and long-term **priorities for implementation** of the Plan. Discuss the process for modifying priorities in response to regional changes.

6

*The Goal of Integration and Plan
Prioritization is to Integrate Projects to
Achieve Objectives*

- Integrate **strategies** to achieve **objectives**
- Prioritize **projects** incorporating **strategies** that achieve **objectives**



*Integration can be Achieved through a
Simple, Three-Step Process*



8

Proposed Objectives are Region-Specific

- | |
|--|
| A. Develop and promote integrated and regional approaches to water management planning |
| B. Maximize stakeholder and community involvement and stewardship |
| C. Effectively obtain, manage, and assess water resource data and information |
| D. Develop and maintain a diverse mix of water resources |
| E. Construct, operate, and maintain a reliable water infrastructure system |
| F. Reduce the negative effects on waterways caused by hydromodification and flooding |
| G. Further the scientific and technical foundation of water quality management |
| H. Effectively reduce sources of pollutants and environmental stressors |
| I. Protect, restore, and maintain habitat and open space that supports the management of water |
| J. Optimize water-based recreational opportunities |

9

Water Management Strategies Are Defined by the CA Water Plan and Proposition 50

- | | |
|---|--|
| <ul style="list-style-type: none">• Agricultural lands stewardship• Agricultural water use efficiency• Groundwater management• Conveyance• Seawater desalination• Potable water treatment and distribution• Economic incentives• Ecosystem restoration• Floodplain management• Groundwater aquifer remediation• Matching quality to use | <ul style="list-style-type: none">• Pollution prevention• Precipitation Enhancement• Recharge Area Protection• Recycled water• Regional surface storage• Reoperation & reservoir management• Urban land use management• Urban runoff management• Urban water use efficiency• Water transfers• Water-dependent recreation & public access• Watershed management & planning |
|---|--|

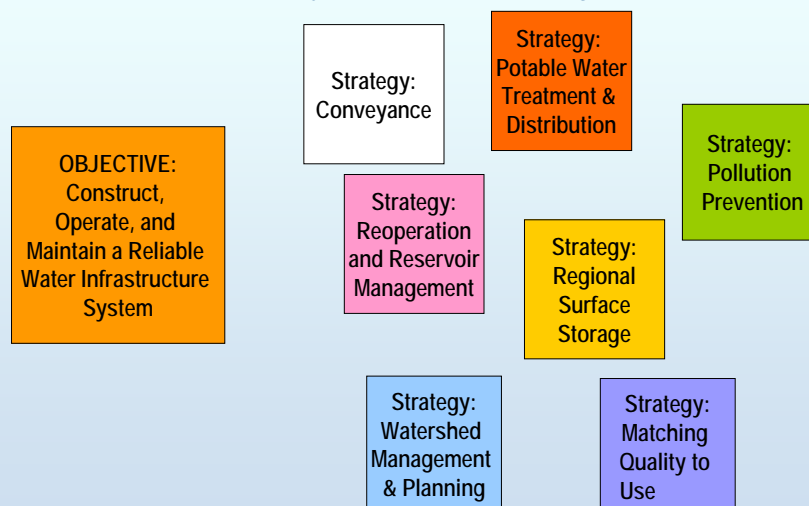
10

Every Objective is Addressed through a Combination of Strategies

Strategies	Objectives									
	A	B	C	D	E	F	G	H	I	J
Strategy 1		x	○		x					
Strategy 2	x	○	x			○				
Strategy 3		x			○	○				○
Strategy 4	x	○		○	x					
Strategy 5						x				x
Strategy 6	○		○	x		○				

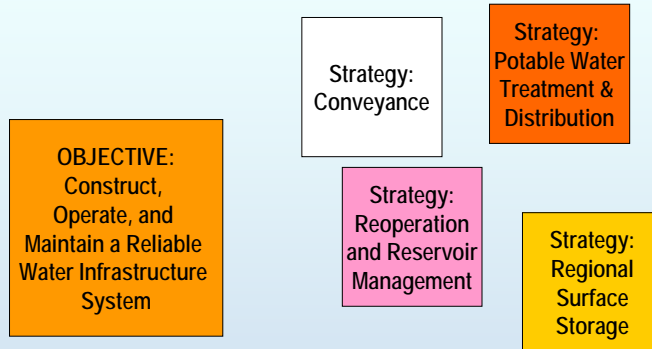
11

Example: Construct, Operate, and Maintain a Reliable Water Infrastructure System



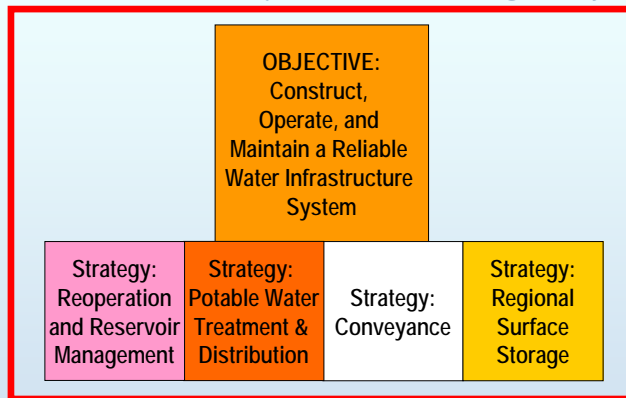
12

Integrating Water Management Strategies Provides a Basis for Achieving Objectives



13

Integrating Water Management Strategies Provides a Basis for Achieving Objectives



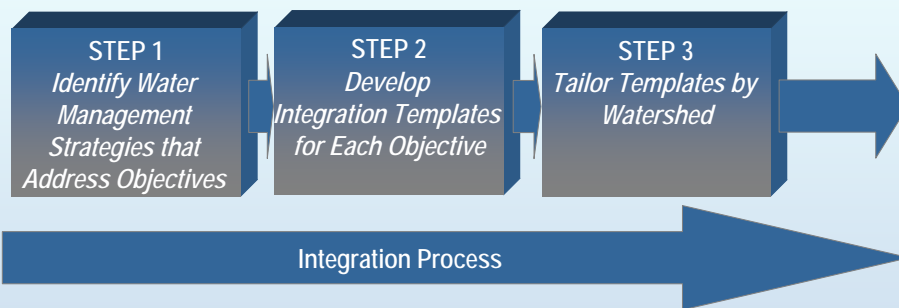
Integration Template

14

Integration Templates are Tailored to Each Watershed



Now That We've Integrated Strategies, How Do We Move From Strategies To Projects?



16

Plan Prioritization Builds on Integration & Replaces Strategies with Projects



17

Prioritization for the IRWM Plan should be Inclusive and Flexible

- Plan prioritization
 - Serves as a lens for viewing project benefits
 - Organizes projects while remaining inclusive
- Funding application prioritization
 - Considers additional factors
 - Narrows project lists based on funding opportunity

18

Each Watershed has Projects Identified that Incorporate Strategies



Each Watershed has a Suite of Strategies Identified to Achieve Each Objective



Through Prioritization, Projects are Mapped to Water Management Strategies

Project	Ag Land	Conveyance	Potable Water	Ecosystem Restoration	Floodplain Management	Match quality to use	Pollution Prevention	Recycled Water	Regional Storage	Reoperation	Water Use Efficiency	Recreation	Water Planning	Watershed
Sewer Main Rehab		○					×							
New Water Main		○	×											
Water Main Rehab		○	×								○			
Recycled Water Distribution		○						×						
Dam Modification		○	×		○				○	○				
Habitat Improvements		○			×									
Conservation Survey											×			

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21

Projects Are Linked to Primary Strategies

Project	Ag Land	Conveyance	Potable Water	Ecosystem Restoration	Floodplain Management	Match quality to use	Pollution Prevention	Recycled Water	Regional Storage	Reoperation	Water Use Efficiency	Recreation	Water Planning	Watershed
Sewer Main Rehab		○					×							
New Water Main		○	×											
Water Main Rehab		○	×								○			
Recycled Water Distribution		○						×						
Dam Modification		○	×		○				○	○				
Habitat Improvements				×			○							○
Conservation Survey											×			

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22

Projects Are Linked to *Secondary* Strategies

Project	Ag Land	Conveyance	Potable Water	Ecosystem Restoration	Floodplain Management	Match quality to use	Pollution Prevention	Recycled Water	Regional Storage	Reoperation	Water Use Efficiency	Recreation Water	Watershed Planning
Sewer Main Rehab		○					×						
New Water Main		○	×										
Water Main Rehab		○	×							○			
Recycled Water Distribution		○						×					
Dam Modification		○	×		○				○	○			
Habitat Improvements				×			○						○
Conservation Survey										×			

RMC

23

How are Projects Sharing a Strategy in the Same Watershed Prioritized?



24

Primary Strategies for Projects Have Been Identified

Project	Ag Land	Conveyance	Potable Water	Ecosystem Restoration	Floodplain Management	Match quality to use	Pollution Prevention	Recycled Water	Regional Storage	Reoperation	Water Use Efficiency	Recreation	Water Planning	Watershed
Sewer Main Rehab		<input type="radio"/>					<input checked="" type="checkbox"/>							
New Water Main		<input type="radio"/>	<input checked="" type="checkbox"/>											
Water Main Rehab		<input type="radio"/>	<input checked="" type="checkbox"/>								<input type="radio"/>			
Recycled Water Distribution		<input type="radio"/>						<input checked="" type="checkbox"/>						
Dam Modification		<input type="radio"/>	<input checked="" type="checkbox"/>		<input type="radio"/>				<input type="radio"/>	<input type="radio"/>				
Habitat Improvements				<input checked="" type="checkbox"/>			<input type="radio"/>							<input type="radio"/>
Conservation Survey											<input checked="" type="checkbox"/>			

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25

Projects with the Primary Strategy are Carried Forward to Prioritization

Project	Ag Land	Conveyance	Potable Water	Ecosystem Restoration	Floodplain Management	Match quality to use	Pollution Prevention	Recycled Water	Regional Storage	Reoperation	Water Use Efficiency	Recreation	Water Planning	Watershed
Sewer Main Rehab		<input type="radio"/>					<input checked="" type="checkbox"/>							
New Water Main		<input type="radio"/>	<input checked="" type="checkbox"/>											
Water Main Rehab		<input type="radio"/>	<input checked="" type="checkbox"/>								<input type="radio"/>			
Recycled Water Distribution		<input type="radio"/>						<input checked="" type="checkbox"/>						
Dam Modification		<input type="radio"/>	<input checked="" type="checkbox"/>		<input type="radio"/>				<input type="radio"/>	<input type="radio"/>				
Habitat Improvements				<input checked="" type="checkbox"/>			<input type="radio"/>							<input type="radio"/>
Conservation Survey											<input checked="" type="checkbox"/>			

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26

Rules for Prioritizing Projects

- Integration is the **most important factor**
- Projects are compared based on **number of strategies** employed
 - Projects receive 1 pt for every water management strategy addressed
- The project with the highest “score” is identified as the top priority

27



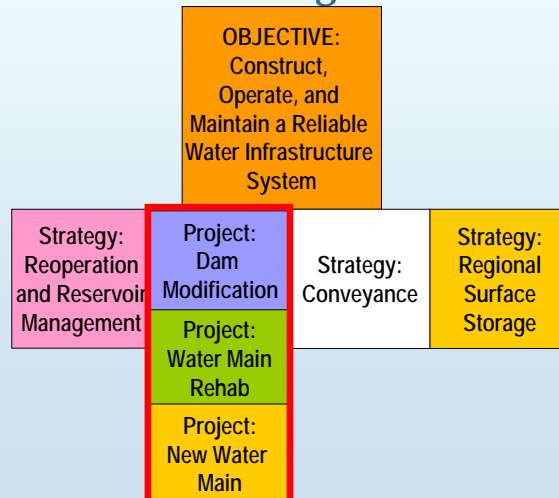
Prioritization Favors Integrated Projects

Project	Ag Land	Conveyance	Potable Water Restoration	Ecosystem Management	Floodplain Management	Match quality to use	Pollution Prevention	Recycled Water	Regional Storage	Reoperation	Water Use Efficiency	Water Recreation	Watershed Planning	TOTAL
New Water Main		○ (1)	✘ (1)											1
Water Main Rehab		○ (1)	✘ (1)								○ (1)			3
Dam Modification		○ (1)	✘ (1)		○ (1)				○ (1)	○ (1)				5

28



Prioritized Projects Replace Strategies in Integration Templates forming Integrated Implementation Packages



29

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Prioritization for Funding Applications will Address Additional Criteria

- Program Preferences
 - What is the goal of the funding program?
- Beneficiaries
 - Local beneficiaries or regional benefits?
- Partnerships
 - One agency sponsor? Multiple agencies?
- Benefits to Disadvantaged Communities (DACs)
 - DAC benefits? Environmental justice project? Both?
- Degree of Benefit
 - Contribution to measurable targets?
- Cost-effectiveness
 - Unit cost low? Med? High?
- Readiness to Proceed
 - Planning stage? Design? Environmental documents complete?

30

San Joaquin
Integrated Regional
Water Management

Summary

- Integration: Responsive to Objectives
 - Identify **water management strategies** addressed by **each objective**
 - Tailor suites of water management **strategies** to achieve **each objective** in **each watershed**
- Plan Prioritization: Flexible and Inclusive
 - Identify **primary** and **secondary** water management **strategies** for **each project**
 - **Rank** projects by **strategy** and **watershed**
- Funding Application Prioritization: Based on Funding Guidelines
 - Incorporates other **criteria specific to the funding program**

31

Questions?

32

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34

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35

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36

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37

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38