Role of Integration in Water Management

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California Department of Water Resources
California Water Policy Trends

- Water Development
- Resource Awareness & Conflict
- Sustainable Resources Management
Water Management of the Past Focused on Challenges
River Basin Planning: 10 Golden Rules

1. Develop a comprehensive understanding of the entire system
2. Plan and act, even without full knowledge
3. Prioritize for current attention, and adopt a phased and iterative approach to achieve long-term goals
4. **Recognize that basin-planning is iterative and often chaotic**
5. Enable adaptation to changing circumstances
River Basin Planning: 10 Golden Rules

6. Develop relevant and consistent thematic plans

7. Address issues at the appropriate scale by nesting local plans under the basin plan

8. Engage stakeholders with a view to strengthening institutional relationships

9. Focus on implementation of the basin plan throughout

10. Select the planning approach and methods to suit the basin needs
Transitioning from Planning to Implementation

- Gain Knowledge of Stressors
- Engagement to Strengthen Institutions Responsible for Basin Management
- Flexibility to Adapt to Change
- Basin Goals & Objectives
- Assessment of Basin Management Approaches
- Vision for Basin
- River Basin Plan
- Transition to Plan Based Implementation
- Implementation of Actions in Basin
### CVFPP Goals

<table>
<thead>
<tr>
<th>CVFPP Goals</th>
<th>Intended Outcomes</th>
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<tbody>
<tr>
<td><strong>Primary Goal: Improve flood risk management</strong></td>
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<tr>
<td>Reduce the chance of flooding</td>
<td>+ $ ⬆️</td>
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<tr>
<td>Reduce damages once flooding occurs</td>
<td>$ ⬇️</td>
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<tr>
<td>Improve public safety, preparedness, and emergency response</td>
<td>+ ⬆️</td>
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**Supporting Goals**

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<tr>
<td>Improve Operations and Maintenance</td>
<td>+ $ ⬆️</td>
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<tr>
<td>Promote Ecosystem Functions</td>
<td>⬇️ ⬆️</td>
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<tr>
<td>Promote Multi-benefit Projects</td>
<td>+ $ ⬆️</td>
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<tr>
<td>Improve Institutional Support</td>
<td>+ $ ⬆️</td>
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*CVFPP 2017 ROADMAP*
Goal: Investing in a Diverse Portfolio of Actions

- **Type I: Foundational Improvements**
- **Type II: Multi-Benefit Improvements**
- **Type III: Adding System Resiliency**
### Value of Outcome Based Planning

<table>
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<tr>
<th>As Is</th>
<th>To Be</th>
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