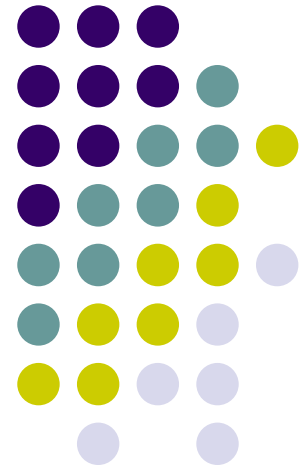
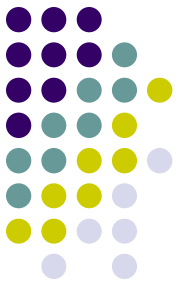


Putting the Integration Into IRWMP

Krista Sloniowski
President, Connective Issue Inc.

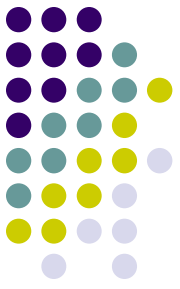


Background



- Today's Purpose: To Have a Public Dialog About What It Means to Integrate Water Resources & Share Some Thoughts.
- My Role on the Central OC IRWMP Was to Define a Draft Planning Methodology.
- The Official Central OC IRWMP Is Now Evolving Independently of Me. My Presentation Does Not Speak on Behalf of Any Agency.

Planning vs Project Focus



- Planning Defines What Should Be (Future).
- Engineering Defines How to Get There (Projects).
- Planning Analysis Is About How Things Change Over Time. Trajectory.
 - Characteristics of Change Allow You to Forecast the Future.
 - Past to Present = Proven Pattern of Change Over Time.
 - The Version of the Future You Want Directs You to the Mechanisms of Change That Are the Best Now.
- Without Vision, Mission, Goals and an Integrated Big Picture You Don't Have a Plan, You Have a Report.
 - To Create This Content for a Technical Subject, You Need Technical Planning.
- Planners Are New to Water Resource Issues.

Planning As A Profession

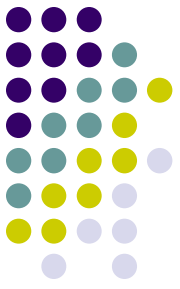


It is hard to imagine any local, regional, state, national or international planning effort in which water is not a key concern.

Yet, the planning profession has done surprisingly little to identify rules of thumb, best practices or fundamental propositions to guide the ways in which water policy is implemented, and how communities plan to meet their water needs.

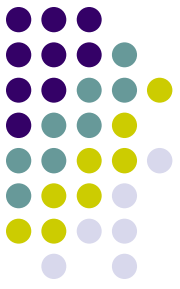
- Editors, Journal of American Planning Association, Spring 2007

Watershed Planning



- Most Watershed Plans Have Been Fairly Single Purpose. Salmon, Steelhead, Damn Removal....
 - Works For Organizing a Suite of Known & Technically Straight Forward Projects.
- Common Watershed Plan Template:
 - Principles, Vision, Mission, Goals, Objectives, Strategies/Benefits
- These Are Planning Outcomes, Not an Analysis or Planning Process Itself.
- Collaboration Processes Focus on Generalized “Benefits”.
 - Doesn't Help Much With Competing, Technical, Poorly Understood, Evolving and Place-based Watershed Issues.
 - Integration? Prioritization? Ecosystem Function?

Get Technical



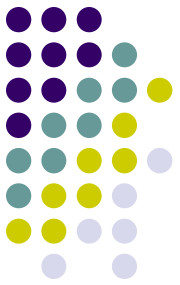
- IRWMP's Have Been Qualitative, Not Quantitative. Policy Based, Not Science Based.
 - Multipurpose... Multibenefit... Integrating Words.
- We Have Not Been Defining the Desired State of the Ecosystem As a Whole.
- Define the Challenge
 - Project Designers Need to Know What We Are Designing for.
- Do You Build on What's There Vs. Re Envision Your Infrastructure? How Do We Compare One Versus the Other?
- It's Cheaper to Address Technical Conflicts in Planning Processes Than in Project Implementation Processes.

Some Thoughts & Ideas...



- Integration = Science-Based Design.
- Need to Accommodate Both Regional Ecosystem Scale & Local Project Scale Drivers.
- **Technical Integration:** Integrate the Design of the System. Only Select Projects That Best Implement It.
- Physics → Chemistry → Biology
 - These Must Be Consistent With Each Other.
 - Many Kinds of Balanced Systems Possible. Find a System Balance That Works for Flood, Water Quality, Water Supply & Habitat Stakeholders.
 - First Get The Hydrology Right.
- **Policy Integration:** Stakeholder Consensus on Policy & Desired State Performance Objectives
 - If Projects all Implement a Common Desired State, Prioritization Is Only a Issue of When to Implement, Not If.

IRWMP Planning Methodology



Central Orange County IRCWMP Planning Diagram



State Implementation Strategy Projects, Programs & Policies

Water Supply Functions

1. Agricultural Water Use Efficiency
2. Urban Water Use Efficiency
3. Conveyance
4. System Re-operation
5. Water Transfers
6. Conjunctive Mgt. & Groundwater Storage
7. Desalination - Brackish and Seawater
8. Precipitation Enhancement
9. Recycled Municipal Water
10. Surface Storage -- CALFED
11. Surface Storage -- Regional/Local

Water Quality Functions

12. Drinking Water Treatment and Distribution
13. Groundwater / Aquifer Remediation
14. Matching Water Quality to Use
15. Pollution Prevention
16. Urban Runoff Management

Habitat Functions

17. Agricultural Lands Stewardship
18. Economic Incentives
19. Ecosystem Restoration
20. Recharge Areas Protection
21. Water-Dependent Recreation

Hydrologic Functions

22. Modify Flooding
23. Modify Impacts of Flooding
24. Modify Susceptibility to Flooding
25. Preserve and Restore Natural Resources