

## Integrated Resources Planning Committee

Item 4c

Subject: 2015 IRP Update Local Water Resources Issue Paper Addendum

Purpose: the purpose of this presentation is to provide an overview of the Final Draft IRP Issue Paper Addendum

IRP Committee/October 27, 2015

Integrated Resources Planning Committee

Item 4c

Review the highlights of the 2015 IRP Issue Paper Addendum, which identifies current and potential issues, opportunities, and actions for local water resources



# IRP Technical Update Issue Paper Addendum

Integrated Resources Planning Committee  
Item 4c  
October 27, 2015

# 2015 IRP Technical Update

## Issue Paper Addendum

### Purpose

To help inform future water resource discussions by identifying current and potential issues, opportunities, and actions

Is aimed to help advance the regional discussion on water resources by identifying current and potential issues, opportunities, and actions.

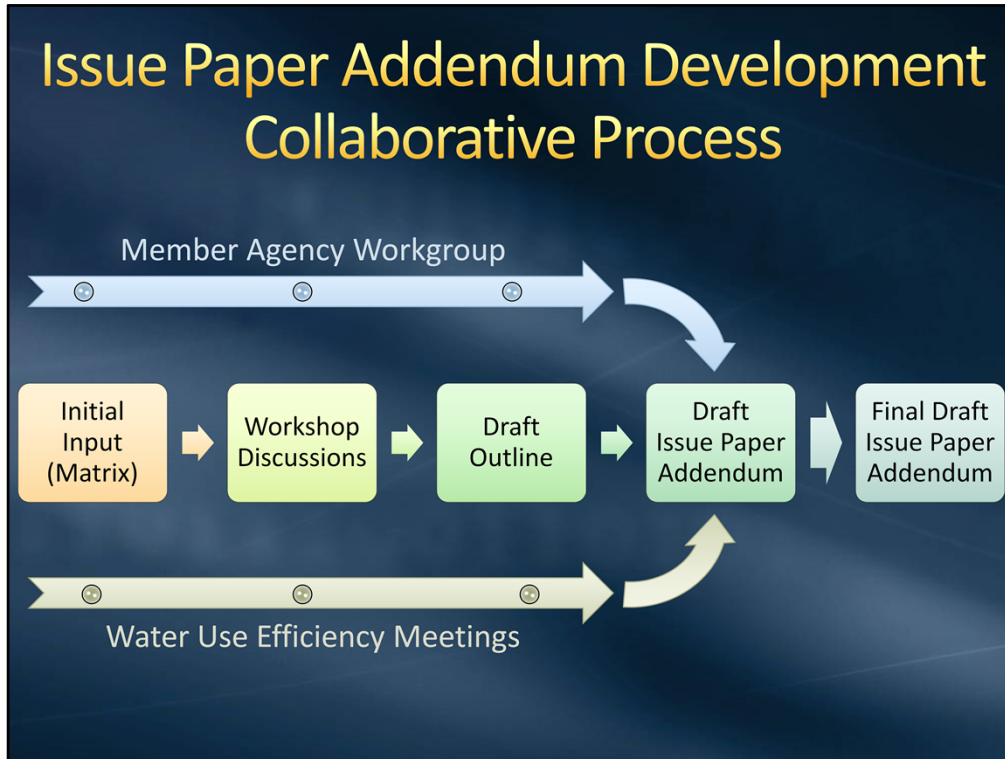
**Not** aimed to dictate policy, rather to provide information to **help** with the policy discussion. This is also **not** a textbook on each resource.

We are aiming for an effective (meaning concise and readable) comprehensive document.

## 2015 IRP Issue Paper Addendum Background

- Builds on the 2010 IRP Issue Papers
- To be transmitted to Board in November
- Includes the following areas:
  - Conservation
  - Groundwater (including stormwater and other recharge)
  - Recycled water
  - Seawater desalination
  - Graywater
  - Resource interrelations

The 2010 IRP included the development of 6 individual issue papers based on each resource area (involving in-depth workgroup discussions). This addendum builds on that base of information.



The process of collaborating regional on the development of this issue paper addendum started at the IRP kickoff meeting with your member agencies back in April of this year. We also received input from external experts.

Collaborative process with your member agencies of receiving input, discussing the compiled information, and then going through the steps of developing this final draft issue paper addendum

Thank you for all your participation and input. Hopefully we captured your input and represented the key points in this paper.

Input matrix: introduced at the kickoff meeting, comments due 5/15

Presentations on the compiled input and issue paper content from 6/11 (groundwater part 2 workshop) to 6/24 meeting on local resources (all other resources)

Draft outline: presented and sent out for review on 7/8 (comments due 7/15)

Parallel process

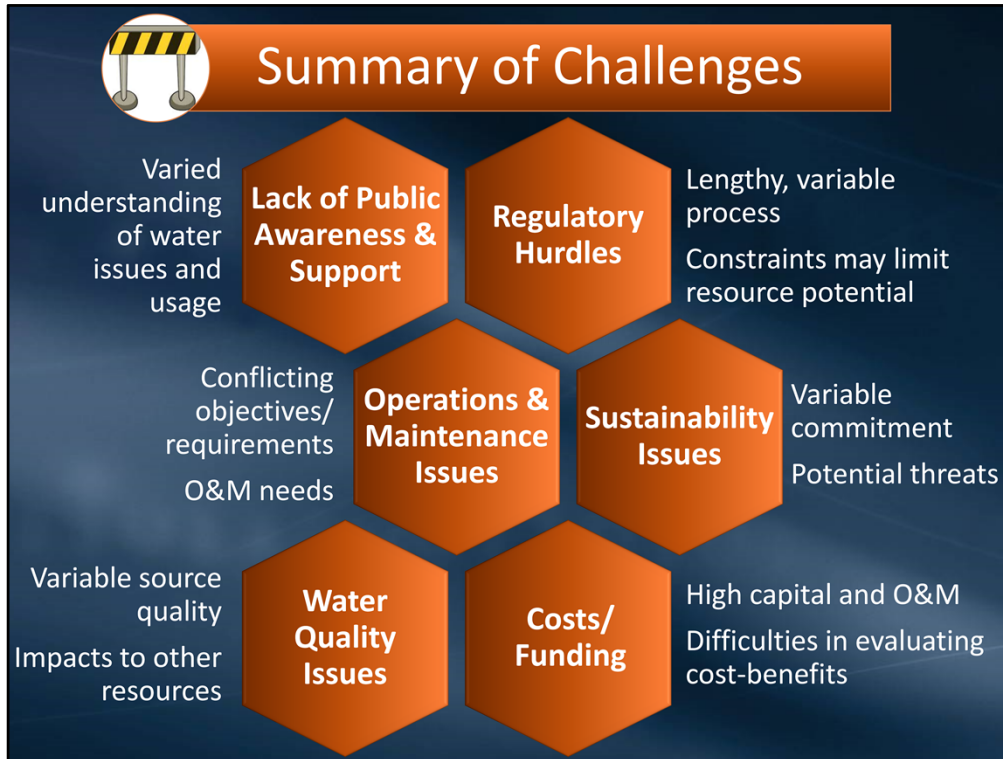
Utilizing an already established venue: monthly WUE meetings, comprised of member agency and Metropolitan conservation staff (generally on the 3<sup>rd</sup> Thursday of every month)

# Issue Paper Addendum Key Informational Areas



The addendum is organized by resource. These are the key informational areas discussed in each resource section.

For this presentation, I'll provide a general overview of the types of challenges, opportunities, and recommendations identified in the Issue Paper Addendum



Not exactly how the paper is laid out, but it does give you a flavor of the types of challenges discussed in the paper

Challenges/barriers to developing these future resources can be summarized into these general categories

**Public Awareness/Perception:** Difficulties communicating water usage to the end user...even ways to impact behavior can be challenging for example with prop 218. Strong opposition in some areas. As well as misinformation.

**Regulatory Hurdles:**

**O&M:** balancing flood control and stormwater capture and recharge, sediment removal, brine disposal, energy use, improper maintenance, need for operator training

**Sustainability:** difficult to sustain commitment to conservation during non-drought years, threats to groundwater sustainability

**Water quality:**

Source: RW - influent water quality from the WWTP, groundwater contamination, wastewater reduction impacts influent water quality

Impacts: graywater may have potential health and soil impacts , potential groundwater basin salt loading, And conflicts with other sources

**Costs:** low-hanging fruit may be gone (including demand hardening). In some areas, it's



difficult to assess benefits due to lack of water savings data (especially for measures that depend on behavior...shower heads) and data on project yield (stormwater)...essential to investment decisions and planning



## Summary of Opportunities

### Drought has created momentum

- Heightened awareness of water
- New regulatory pathways
- Improved public perception

### Technological Advances

- New technology
- Research and case studies

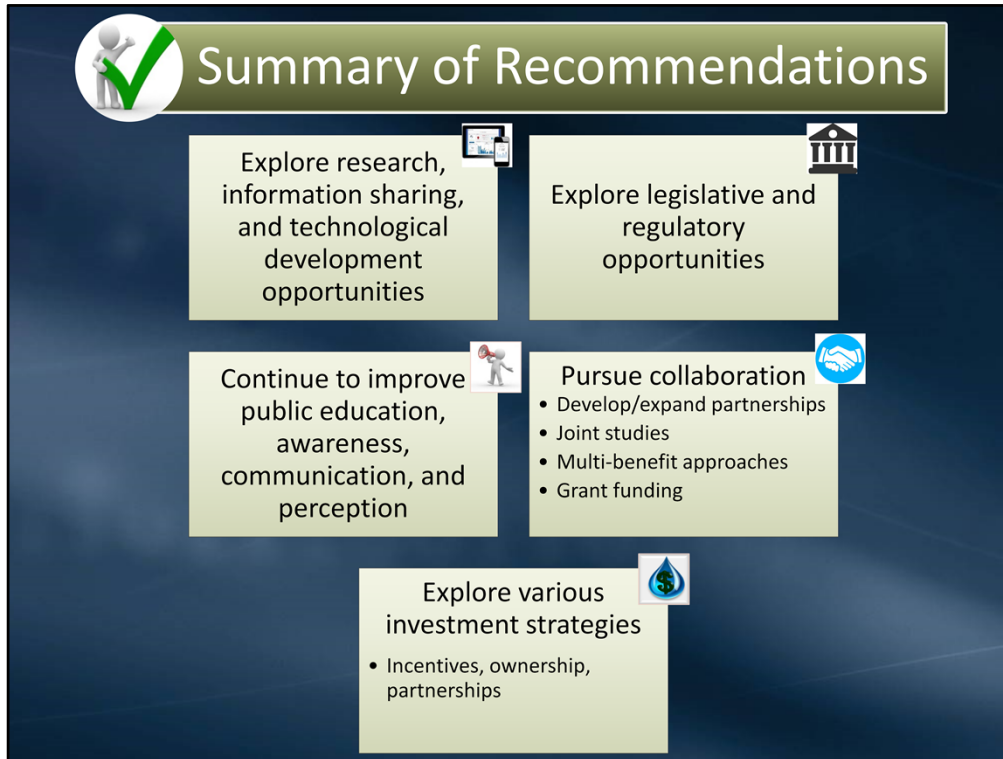
### New Funding Opportunities

- Variety of sources and applications

### Collaboration

- Integrate resources and manage risks
- Collaboration on multi-benefit projects and grant funding

Heightened awareness and new regulatory pathways (e.g., AWT can be used as blend water)



You will see that the recommendations are more broad categories of recommendations versus detailed steps, as we are very careful to allow flexibility and not to presume to dictate policy, which is in phase 2

Collaboration: e.g., continue to assist with model ordinances

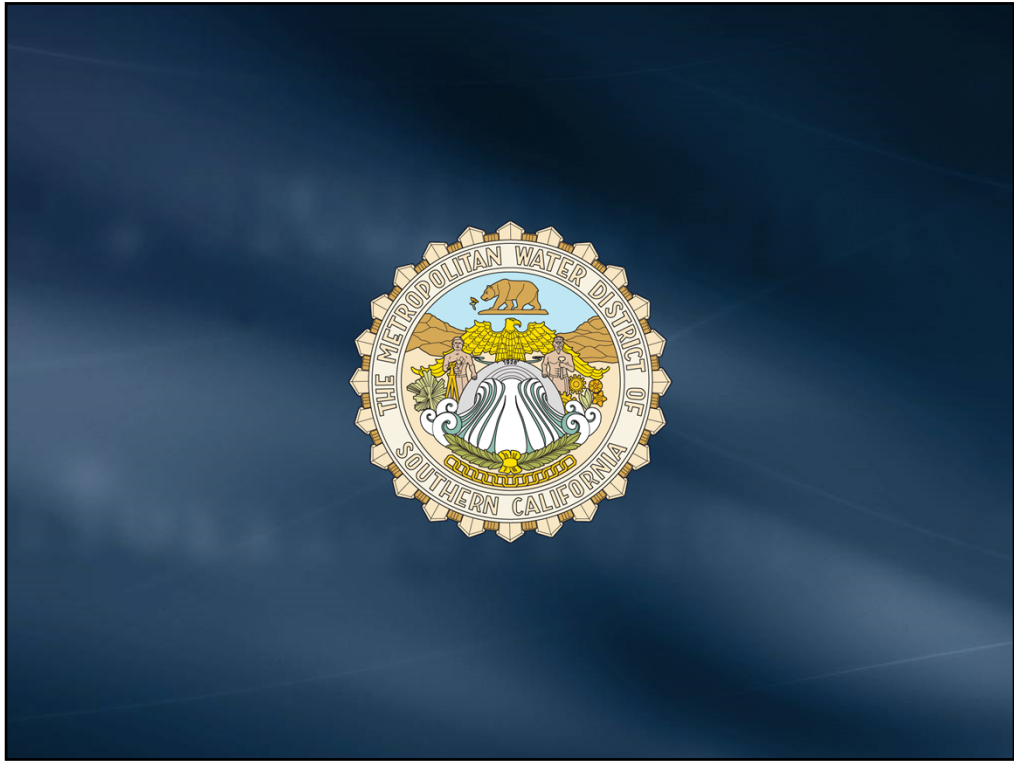
Explore integrated approaches (optimizing resource interactions)

Integrating programs: existing and new funding, research, etc. programs

## 2015 IRP Issue Paper Addendum Conclusions

- Represents input received in the process
- Serves to inform policy discussions in Phase 2
- Serves as a reference for technical issues
- Will be included as an appendix to the 2015 IRP Technical Update Report

(i.e. disclaimer, these are not our recommendations)



# Supporting Slides

Additional Details per Resource

# Conservation

## Challenges

- Difficult to sustain commitment to conservation during non-drought years
- Conflicting institutional objectives
- Communicating water use to end users
- Demand hardening
- Compliance with Prop. 218 requirements
- Availability of water savings data

## Opportunities

- Drought has created momentum
- Technological advances
- Behavior modifications and market transformation

## Recommendations

- Evaluate existing programs & explore new programs
- Continue to assist with model ordinances
- Provide targeted outreach and education
- Explore research opportunities
- Develop opportunities for information sharing & communication
- Explore incentive strategies

# Groundwater (including stormwater and other recharge)

## Challenges

- Loss in groundwater production capability due to ongoing drought
- Continued loss in recharge due to urbanization, conservation, and other
- Future climate change
- Groundwater contamination and salt loading

## Opportunities

- Adjudication amendments have improved management flexibility
- Regulatory changes help maximize recycled water recharge
- New technologies for treatment/disposal

## Recommendations

- Explore opportunities to address ongoing sustainability issues
- Explore innovative projects/partnerships
- Continue to provide an avenue for open regional discussion on stormwater



# Recycled Water

## Challenges

- Lengthy and variable permitting process
- Varied public acceptance and perception
- Costs
- Water quality issues
- Operational & institutional barriers

## Opportunities

- Progress toward new regulatory process
- Improving public perception
- New funding opportunities
- New technologies & research

## Recommendations

- Explore opportunities to improve the permitting process
- Improve public education and awareness
- Explore various investment strategies (i.e., incentives, ownerships, and partnerships)
- Consider joint technical studies

# Seawater Desalination

## Challenges

- Costs
- Permitting and new regulations
- Demand risk
- NGO opposition

## Opportunities

- Improve permitting process
- New technologies & research
- Improving public communications
- Partnerships to share risks

## Recommendations

- Explore legislative, regulatory, and communications opportunities
- Continue investment in research and innovation
- Investigate partnership opportunities

# Stormwater Direct Use

## Challenges

- Rainfall patterns
- Operation and maintenance

## Opportunities

- New regulations that allow capture and reuse
- Increased public understanding of water issues

## Recommendations

- Evaluate business case analysis for providing additional incentives
- Continue to provide an avenue for open regional discussions
- Encourage information sharing

# Graywater

## Challenges

- Permitting
- Cost
- Potential health and soil impacts
- Conflicts with other resources

## Opportunities

- Recent regulatory changes and streamlined permitting
- Improved public acceptance

## Recommendations

- Continue to encourage research of potential and impacts
- Continue to improve public awareness

# Resource Interrelations

## Common elements and resource interconnections

### Shared Challenges

- Water quality
- Regulatory challenges
- Costs and limited funding
- Lack of public support

### Opportunities

- Collaboration on multi-benefit projects and grant funding
- Technology, research, and info sharing
- Heightened public awareness and regulatory reform during drought
- Optimizing resource interactions

### Recommendations

- Explore partnership opportunities & funding strategies for multi-benefit approaches
- Explore research & tech development opportunities
- Investigate integrating regulatory & outreach/education efforts
- Explore integrating resource, program, & planning opportunities

Opportunities to optimize our resources by collaborating on multi-benefit projects and grant funding