



OWOW PROGRAM

STATUS UPDATE FOR THE OWOW STEERING COMMITTEE

MAY 24, 2018



OWOW Plan Update 2018

- Chapter Updates
- Call for Projects to be included in the Plan

Disadvantaged Communities Involvement Program

- Strengths & Needs Assessment
- Trust the Tap
- Technical Assistance

Proposition I IRWM Grant Program

- Expected late 2018
- Some new / changed processes from DWR

OWOW PROGRAM EFFORTS UNDERWAY

OWOW PLAN UPDATE 2018

- To-date have eight Pillar workgroup chapters submitted
- Other two are expected next week
- At least 100 people actively engaged in writing, editing, producing content
- Reminder: Chapter Outline
 1. Pillar links to Goals & Objectives
 2. Recommended Management Strategies
 3. Recommended Policy Strategies
 4. Basis for the Recommendations
 5. Integration
 6. Other Sections
 7. Contributors

TIMELINE FOR OWOW PLAN UPDATE 2018

March

- OWOW SC issues call-for-projects for inclusion in the Plan

April

- Internal Review Draft
- Pillars & Non-Pillar content

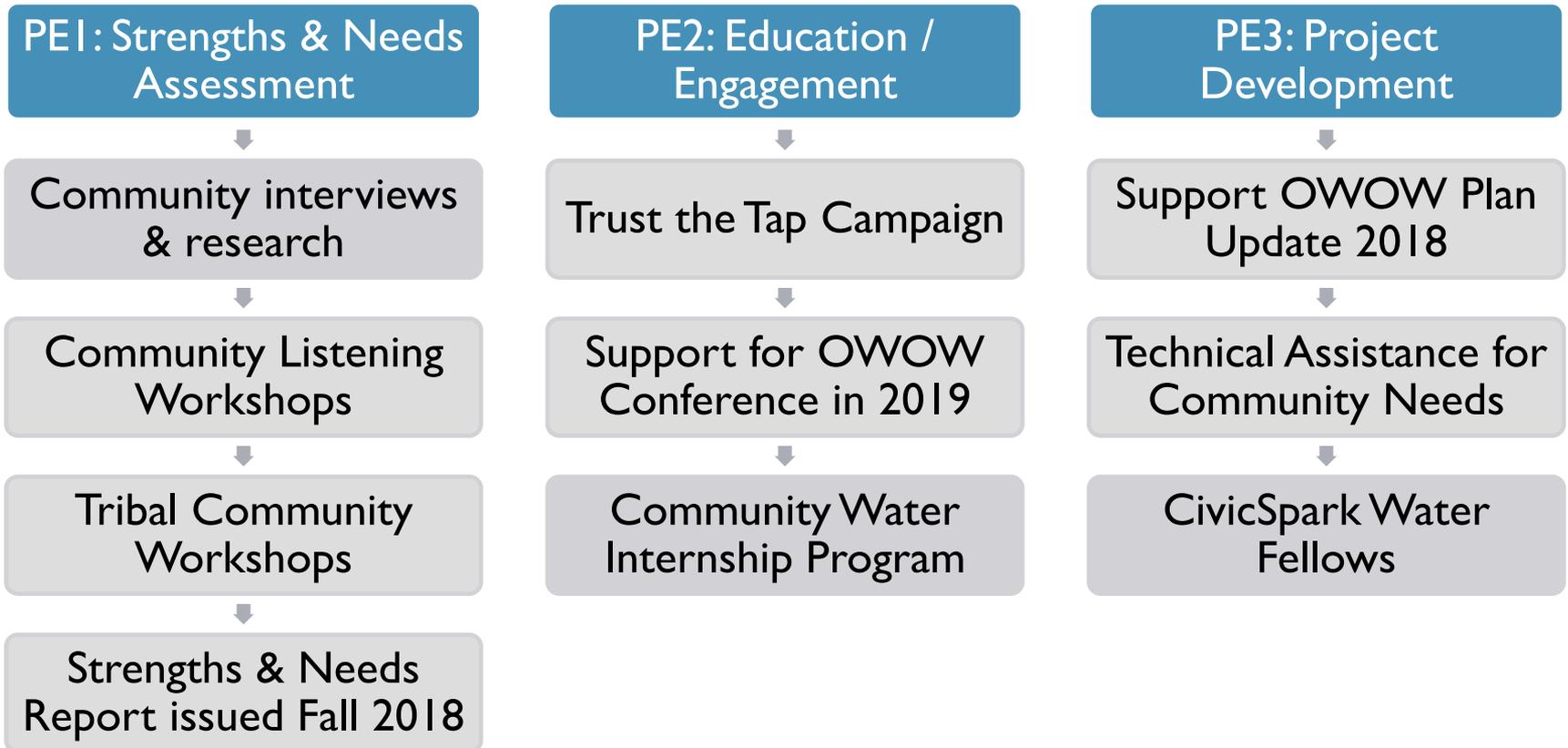
July

- Public Review Draft
- OWOW SC release for 4-6 week public review

November

- Final Plan
- Approval by OWOW SC
- Concurrence by SAWPA Commission

UNDERWAY IN DCI PROGRAM



UPCOMING IN DCI PROGRAM

PE1: Strengths & Needs Assessment

Strengths & Needs Report issued Fall 2018

PE2: Education / Engagement

Engagement best practices publications

Support for OWOW Conference in 2019

Education / training

Community Water Internship Program

PE3: Project Development

Technical Assistance for Community Needs

CivicSpark Water Fellows

PROPOSITION I IMPLEMENTATION GRANTS

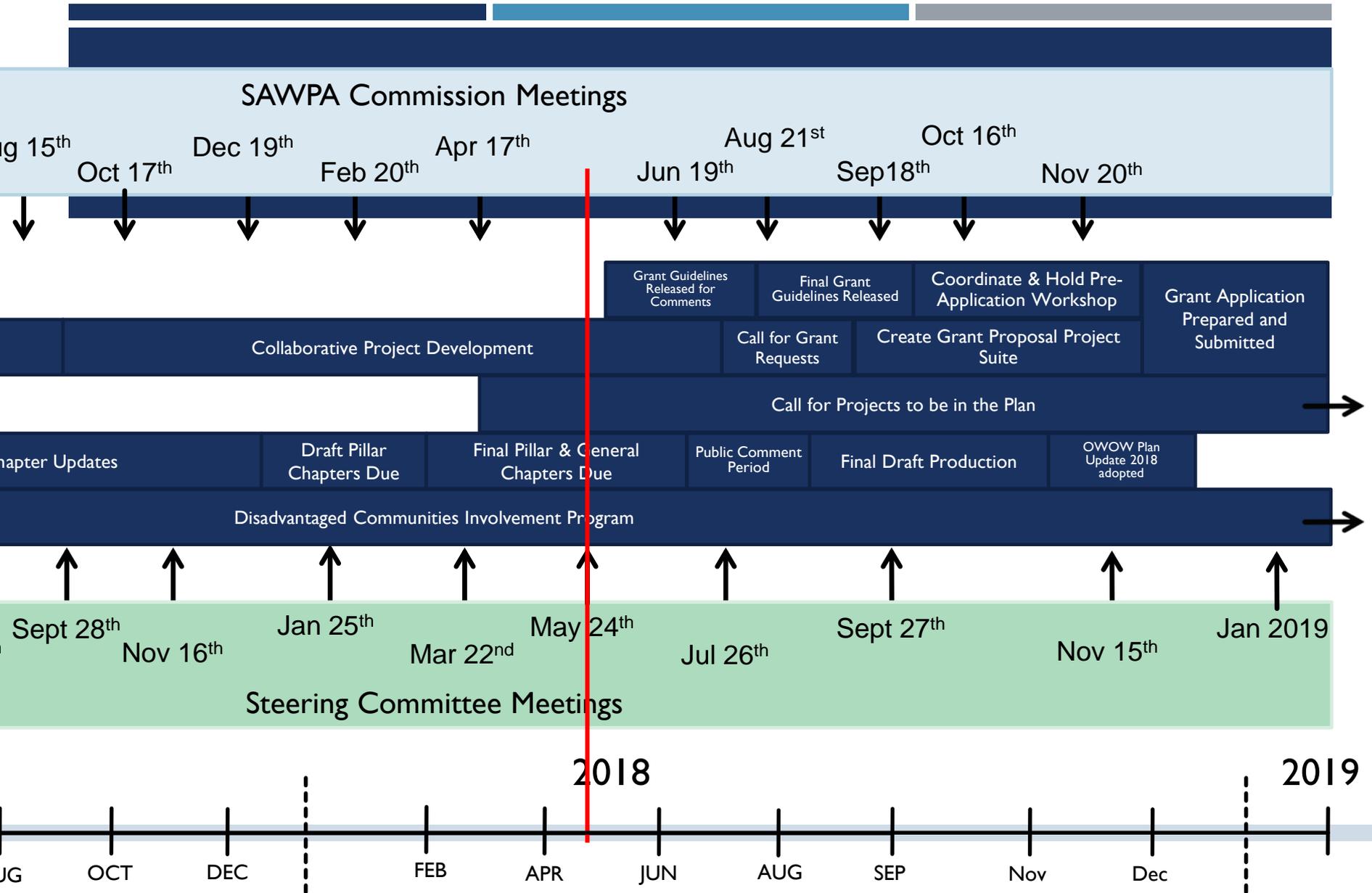
- Department of Water Resources
 - Project Solicitation Package (PSP)
 - Project selection
 - Pre-Application Workshop (NEW)
 - Full Proposal

SCHEDULE*

- Late June 2018 – DRAFT PSP and Guidelines
- August 2018 – 3 Public Meetings
- Fall 2018 – FINAL PSP and Guidelines
- November 2018-April 2019 – Pre-Application Workshops
- January 2019 – First Application Submitted
- Early 2019 – Final Award and Grant Agreement Execution following set time period after Pre-Application Workshop

*Schedule subject to change

OWOW PROGRAM SCHEDULE



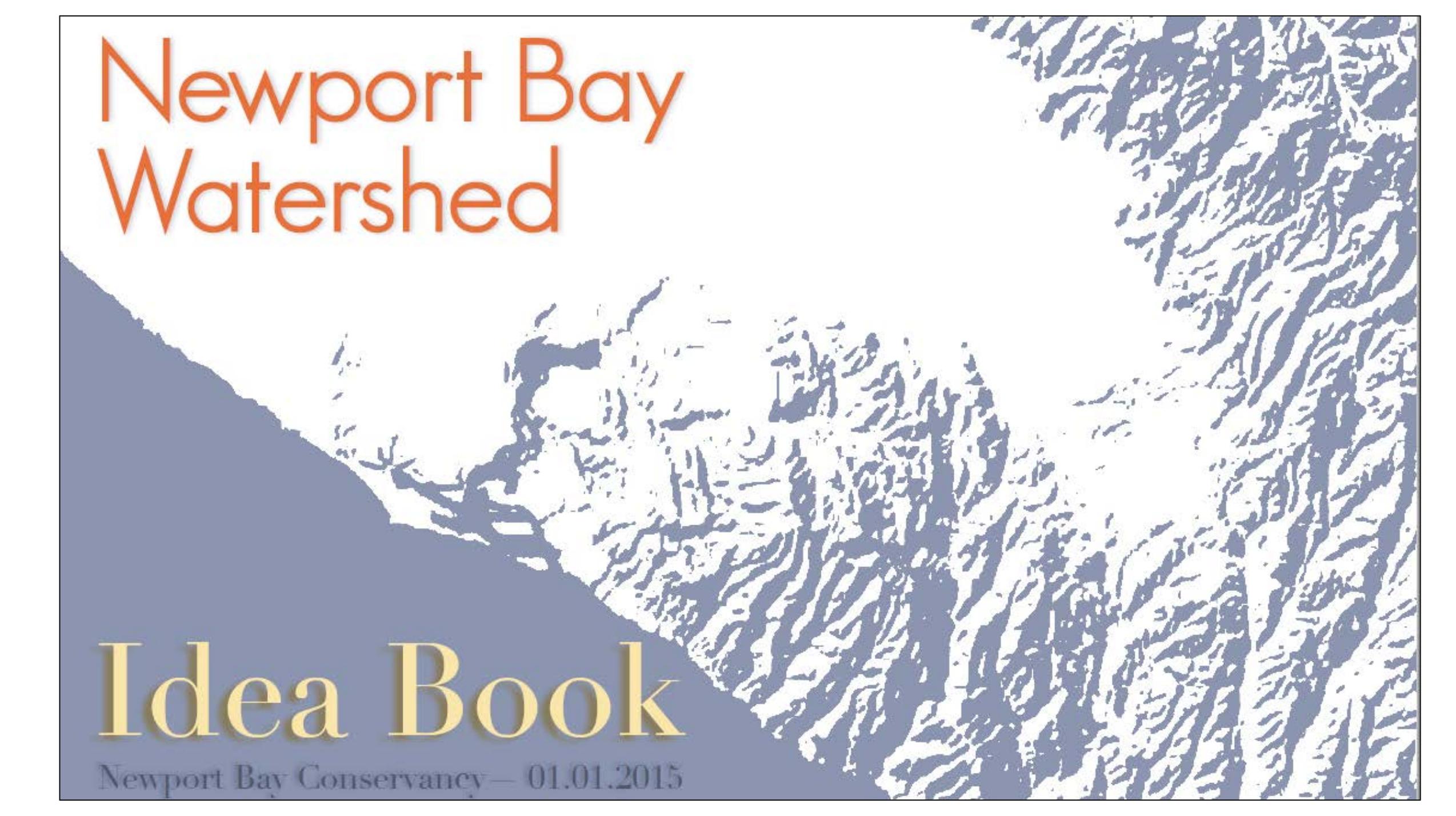


It is recommended that the OWOW steering committee receive, review and if appropriate provide comment to SAWPA staff about the OWOW program.

RECOMMENDATION



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An aerial photograph of a rugged, mountainous landscape. The terrain is characterized by steep, rocky slopes and a network of narrow, winding roads. A prominent river valley runs through the center of the image, with a river visible in the distance. The overall scene is one of a wild, mountainous region.

Newport Bay Watershed

Idea Book

Newport Bay Conservancy — 01.01.2015

Original Purpose:

- Newport Bay Conservancy was awarded a DWR Watershed Coordinator Grant to develop strategies for funding watershed restoration and management locally.
- First, what is the scope & scale of that?
 - Is it possible to define system-scale water resource integration and sustainability for the Newport Bay Watershed as a whole?
 - Would it be possible to implement that?
 - What might that look like?
 - How could such a thing pencil out?

Systems Thinking Principles

Hydrologic Systems

- A watershed is a hydrologic system.
- Hydrologic resiliency is about a dynamic equilibrium between the force of a stream vs the resistance of its channel.
- Force = Physics

Ecological Systems

- In ecological systems: physics > chemistry > biology
- What biological indicator can we use to establish the required hydrology for this system as a whole?
- What is the net planning target for hydrologic function system wide?

Biological Indicator & Hydrologic Planning Target

- In the Newport Bay, Eelgrass is the best indicator of the ecological function of the entire watershed.
 - If it's supported, most everything else is supported.
- Requires an approximate reduction of 4,000 af off peak flows.
 - Consistent with Regional Board targets for the watershed.
 - This also achieves 100 year storm protection, which could otherwise cost @ \$2 billion to achieve through flood channel widening.

Suitability Mapping Started With Ground Water Replenishment

- Layer other goals into opportunity identification analysis.
- Water supply, economic development, transportation, community greening, etc.....

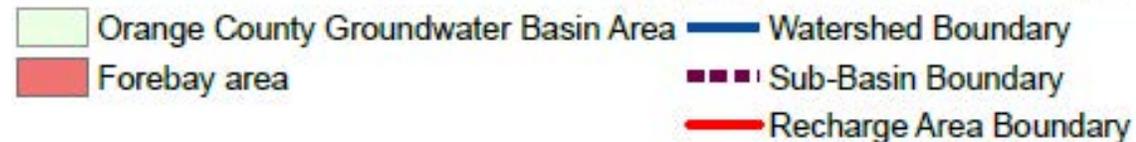
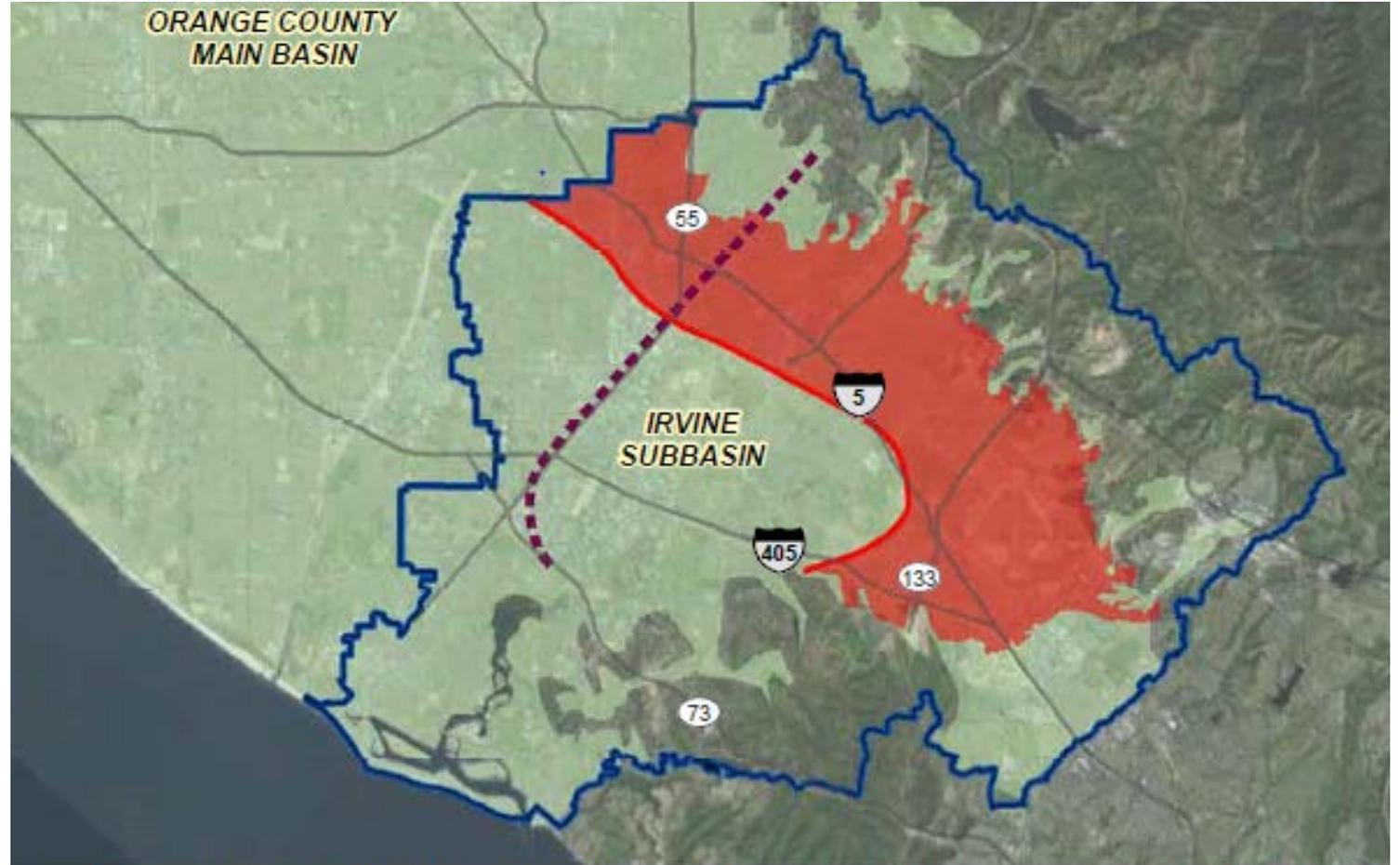


Figure 4: Orange County Main Basin

Layer Biological Opportunities Into Strategy Development

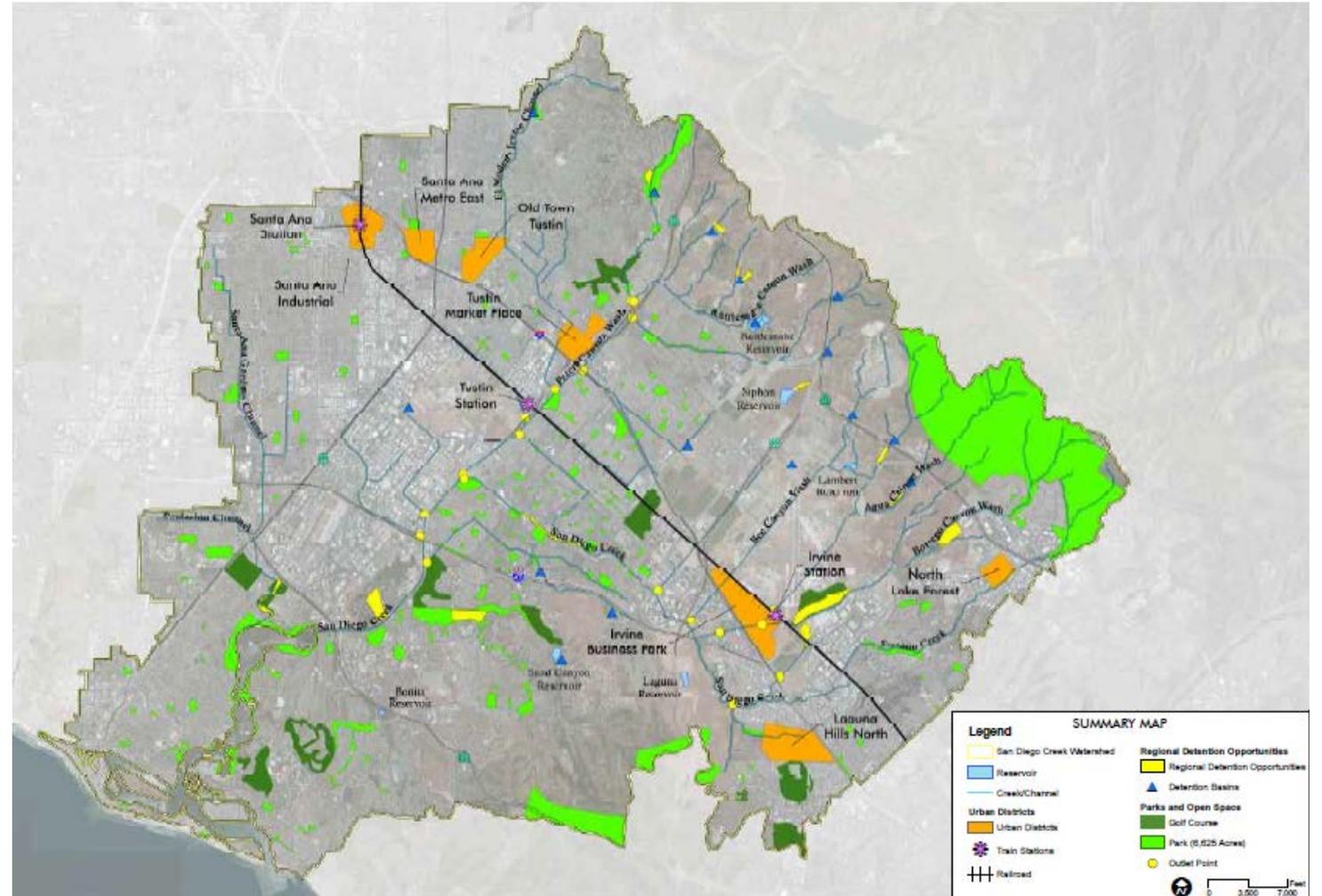
- Include the goals of your regulators so that all projects implement their needs and they can become partners.
- Development projects can implement system-scale watershed & ecological restoration.



Project Strategies Are Only Concept Level

- Opportunities were identified using science-based suitability analysis to be technically possible.
- But, they were identified to imagine what a sustainable watershed system could mean.
- They are in no way vetted by anyone.... They just support a conversation moving forward.

Includes Site, Neighborhood & Regional Scale Project Ideas

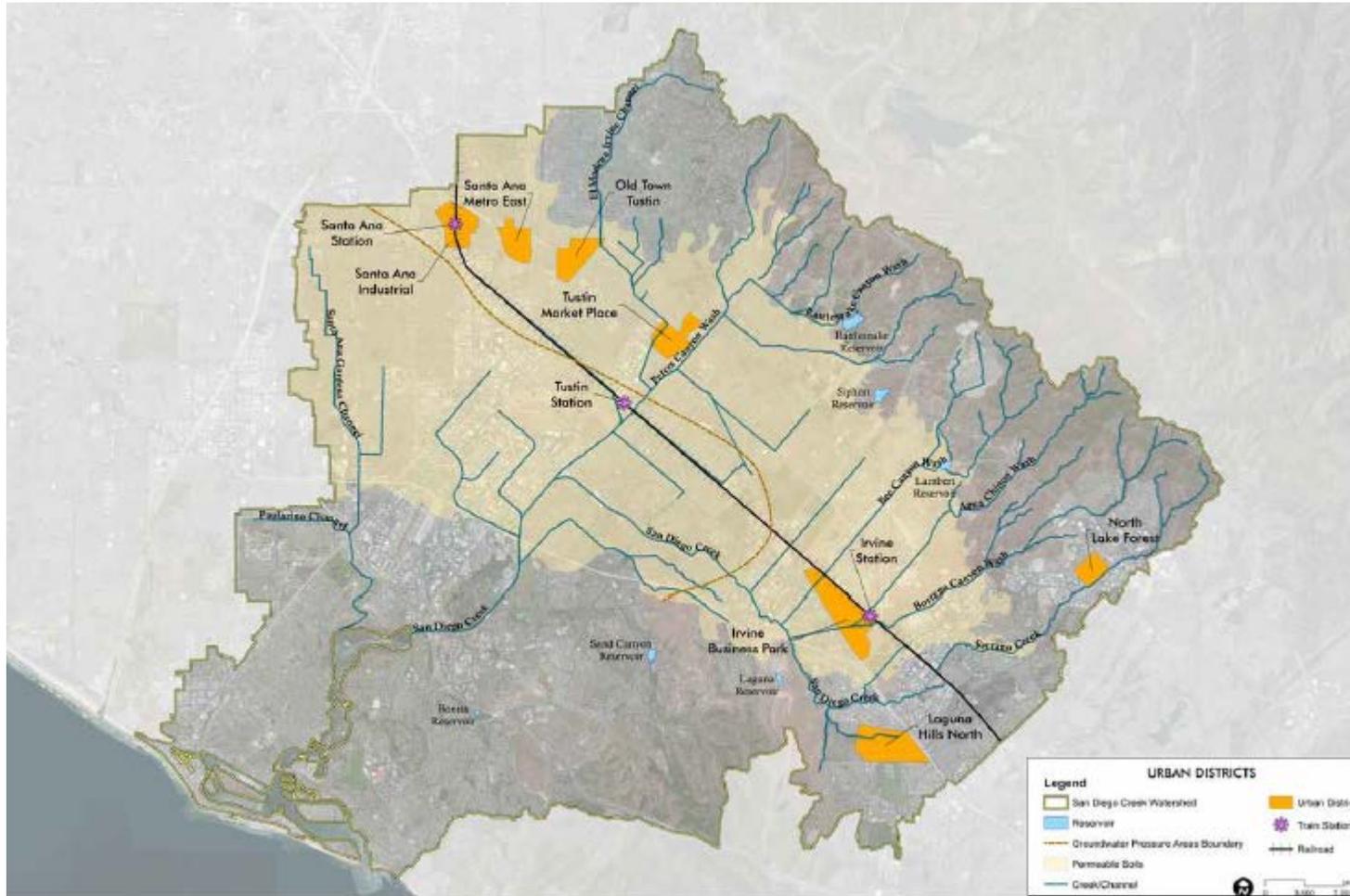


Site Scale: Park & Golf Course Retrofits



Habitat Landscape at Leslie Park Golf Course, Washtenaw County Water Resources Commissioner's Office Facebook

Neighborhood Scale: 7 Urban Districts



Santa Ana TOD: Santa Ana Blvd & Santiago

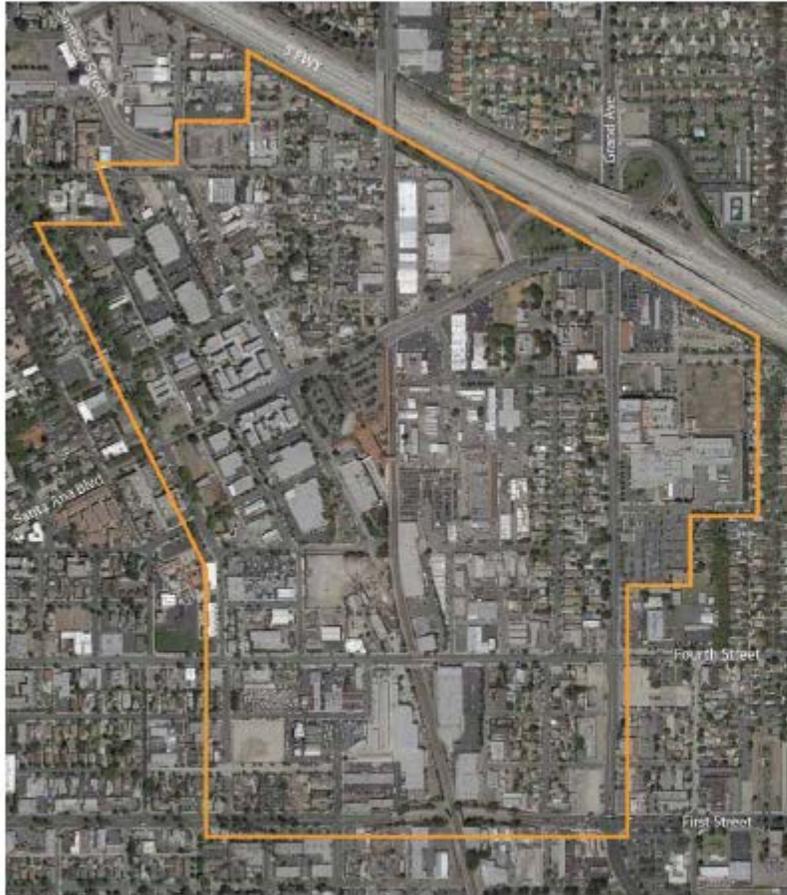


Figure 22. Existing Conditions Aerial

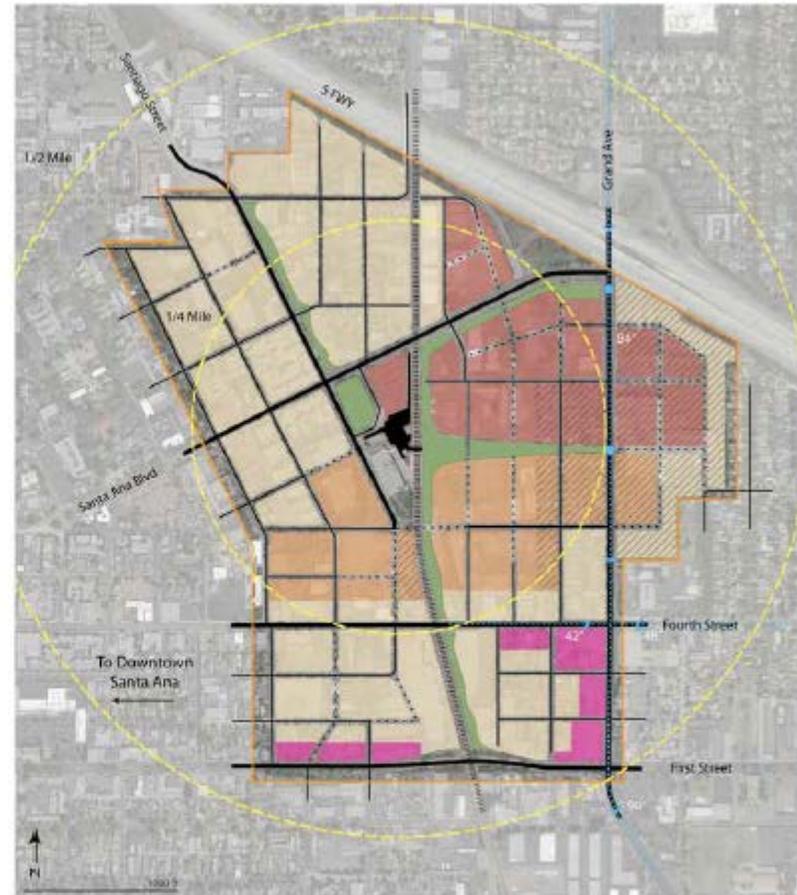
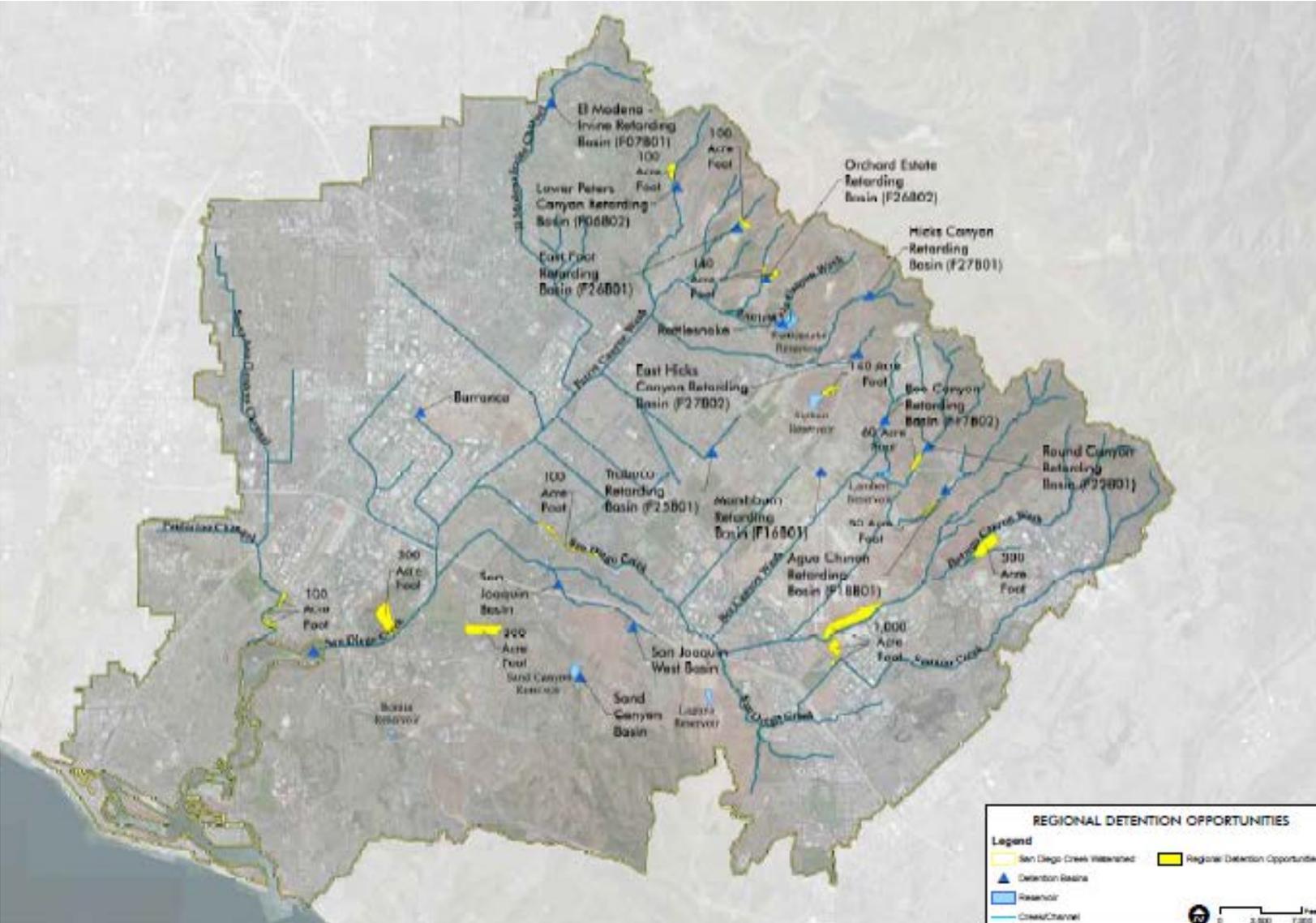


Figure 23. Santa Ana Industrial Concept Plan

Regional Scale: In Stream Or Stream Adjacent Retention



Failed IRWD Mitigation Property



Expand Foothills Detention Basins



Figure 42: Orchard Estate Retarding Basin

Developments & Next Steps

- The “impact investment” finance community views this kind of planning as investible at a very large scale.
 - Enables public/private approaches.
 - Identifies partnerships for return on investment ‘deal flow’.
 - Enhanced Infrastructure Financing District (EIFD) fits this model.
 - Organizes participants.
 - Reduces unknowns and risk.
- It is providing a planning basis for DWR’s results-based sustainability initiatives at the local level in their 2018 Water Plan pilot project.
- Working with FHBP, NBC, DWR, CA Forward and Infrastructure Funding Alliance on next steps.
- If implementers are interested in refining ideas, the State and investors will provide the resources to do that.

Thank You

Krista Sloniowski, Connective Issue

Mike Wellborn, Friends of Harbors Beaches and Parks

Idea Book can be found at:

newportbay.org/watershed/watershed-coordinator/



Sustainability Assessment for the Santa Ana River Watershed

OWOW Plan Update 2018

Betty Andrews, PE, Environmental Science Associates (ESA)
And Peter Vorster, The Bay Institute (TBI)

Steering Committee Meeting
May 24, 2018

Where we're headed: Selection of Indicators

Goals



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graph TD; Goals[Goals] --> Indicators[Indicators];
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Indicators

- If our efforts were advancing a given OWOW Plan goal, what evidence would we see of change in the watershed?

Where we're headed: Selection of Indicators

Indicators will be:

- Responsive to actions
- Easy to implement
- Meaningful to stakeholders

and will, if possible:

- Draw from indicators previously identified through other efforts.
- Allow for updated assessment annually.

Draft OWOW Plan Goals

Achieve resilient water resources through innovation and optimization.

Ensure high quality water for all people and the environment.

Preserve and enhance recreational areas, open space, habitat, and natural hydrologic function.

Engage with members of disadvantaged communities and associated supporting organizations to diminish environmental injustices and their impacts on the watershed.

Educate and build trust between people and organizations.

Improve data integration, tracking and reporting to strengthen decision-making.

Goals, Indicators, Metrics

Achieve resilient water resources through innovation and optimization.

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Water that is stored or sourced locally is more reliable than water that must be imported and immediately used. Optimizing supplies and storage in the region will make us more resilient.

Indicator: Efficiency of outdoor water use

The green spaces of our watershed rely too heavily on precious water, and diminish our resilience. Making irrigation efficient, and landscapes less irrigation dependent, is where we must continue to innovate.

Goals, Indicators, Metrics

Achieve resilient water resources through innovation and optimization.

Indicator: Reliability of locally-managed supplies

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Achieve resilient water resources through innovation and optimization.

Indicator: Reliability of locally-managed supplies

Water that is stored or sourced locally is more reliable than water that must be imported and immediately used. Optimizing supplies and storage in the region will make us more resilient.

- *Metric: Percent of annual use derived from locally-managed supplies*

Indicator: Efficiency of outdoor water use

The green spaces of our watershed rely too heavily on precious water, and diminish our resilience. Making irrigation efficient, and landscapes less irrigation dependent, is where we must continue to innovate.

- *Metric: Percent of agencies using parcel-level data to assess outdoor water use*

Goals, Indicators, Metrics

Ensure high quality water for all people and the environment.

Goals, Indicators, Metrics

Ensure high quality water for all people and the environment.

Groundwater basins are the watershed's most important local water storage tool, and salinity levels are a primary consideration for maintaining a high-quality water supply.

Bathers in our streams, lakes, and coastal waters must not be exposed to health hazards from water quality impairment.

Goals, Indicators, Metrics

Indicator: Maintenance of groundwater salinity at or below target levels

Groundwater basins are the watershed's most important local water storage tool, and salinity levels are a primary consideration for maintaining a high-quality water supply.

Indicator: Safety of water for contact recreation

Bathers in our streams, lakes, and coastal waters must not be exposed to health hazards from water quality impairment.

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Goals, Indicators, Metrics

Ensure high quality water for all people and the environment.

Indicator: Maintenance of groundwater salinity at or below target levels

Groundwater basins are the watershed's most important local water storage tool, and salinity levels are a primary consideration for maintaining a high-quality water supply.

- *Metric: Non-exceedance of groundwater salinity standards*

Indicator: Safety of water for contact recreation

Bathers in our streams, lakes, and coastal waters must not be exposed to health hazards from water quality impairment.

- *Metric: Percentage of monitored sites identified as high risk due to bacterial contamination*

Goals, Indicators, Metrics

Preserve and enhance recreational areas, open space, habitat, and natural hydrologic function.

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Preserve and enhance recreational areas, open space, habitat, and natural hydrologic function.

Healthy and abundant vegetation within the riparian corridors of the watershed provides valuable habitat for a large number of species, including those with special status. It also provides beauty and shade for people recreating alongside streams and lakes.

Maintaining the recreation and ecosystem values of open space requires explicit management and deliberate protection.

Goals, Indicators, Metrics

Preserve and enhance recreational areas, open space, habitat, and natural hydrologic function.

Indicator: Abundance of vegetated riparian corridor

Healthy and abundant vegetation within the riparian corridors of the watershed provides valuable habitat for a large number of species, including those with special status. It also provides beauty and shade for people recreating alongside streams and lakes.

Indicator: Abundance of conserved open space

Maintaining the recreation and ecosystem values of open space requires explicit management and deliberate protection.

Goals, Indicators, Metrics

Preserve and enhance recreational areas, open space, habitat, and natural hydrologic function.

Indicator: Abundance of vegetated riparian corridor

Healthy and abundant vegetation within the riparian corridors of the watershed provides valuable habitat for a large number of species, including those with special status. It also provides beauty and shade for people recreating alongside streams and lakes.

- *Metric: Change in area of vegetated riparian corridor*

Indicator: Abundance of conserved open space

Maintaining the recreation and ecosystem values of open space requires explicit management and deliberate protection.

- *Metric: Change in area of conserved open space*

Goals, Indicators, Metrics

Engage with members of disadvantaged communities and associated supporting organizations to diminish environmental injustices and their impacts on the watershed.

Goals, Indicators, Metrics

Ensuring that all people in the watershed have clean drinking water is essential to human health and prosperity within the watershed.

Engage with members of disadvantaged communities and associated supporting organizations to diminish environmental injustices and their impacts on the watershed.

Increased dangerous heat is predicted as a climate change impact in the watershed, and vulnerable people will be inequitably impacted.

Goals, Indicators, Metrics

Engage with members of disadvantaged communities and associated supporting organizations to diminish environmental injustices and their impacts on the watershed.

Indicator: **Access to clean drinking water**

Ensuring that all people in the watershed have clean drinking water is essential to human health and prosperity within the watershed.

Indicator: **Resilience to climate change in all communities**

Increased dangerous heat is predicted as a climate change impact in the watershed, and vulnerable people will be inequitably impacted.

Goals, Indicators, Metrics

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Indicator: **Access to clean drinking water**

Ensuring that all people in the watershed have clean drinking water is essential to human health and prosperity within the watershed.

- *Metric: Difference in the drinking water contaminant index from CalEnviroscreen between more and least resourced parts of the community*

Indicator: **Resilience to climate change in all communities**

Increased dangerous heat is predicted as a climate change impact in the watershed, and vulnerable people will be inequitably impacted.

- *Metric: Difference in tree and shrub density between more and least resourced parts of the community*

Goals, Indicators, Metrics

**Educate and build trust
between people and
organizations.**

Goals, Indicators, Metrics

Educate and build trust between people and organizations.

Many of the complex challenges facing the watershed cannot be overcome by a single organization, so collaborative action with shared outcomes must be prioritized.

Making conservation a way of life in California involves education and civic action. As more people learn how precious our water and watershed are, many of the challenges will be more easily overcome.

Goals, Indicators, Metrics

Educate and build trust between people and organizations.

Indicator: Collaboration for more effective outcomes

Many of the complex challenges facing the watershed cannot be overcome by a single organization, so collaborative action with shared outcomes must be prioritized.

Indicator: Adoption of a watershed ethic

Making conservation a way of life in California involves education and civic action. As more people learn how precious our water and watershed are, many of the challenges will be more easily overcome.

Goals, Indicators, Metrics

Educate and build trust between people and organizations.

Indicator: Collaboration for more effective outcomes

Many of the complex challenges facing the watershed cannot be overcome by a single organization, so collaborative action with shared outcomes must be prioritized.

- *Metric: Percent of water quality compliance actions carried out in partnership*

Indicator: Adoption of a watershed ethic

Making conservation a way of life in California involves education and civic action. As more people learn how precious our water and watershed are, many of the challenges will be more easily overcome.

- *Metric: Gallons of water used per capita per day (residential)*

Goals, Indicators, Metrics

Improve data integration, tracking and reporting to strengthen decision-making.

Goals, Indicators, Metrics

Everyone who uses water is a decision-maker. Helping people understand how much they are using in context will improve decisions and make us more resilient.

Our ability to create data is outstripping our ability to make effective use of it. Ensuring that data produced is meaningful, is applied to decision-making, and is shared freely without jeopardy is a critical next step for the watershed.

Improve data integration, tracking and reporting to strengthen decision-making.

Goals, Indicators, Metrics

Indicator: **Broaden access to data for decision-making**

Everyone who uses water is a decision-maker. Helping people understand how much they are using in context will improve decisions and make us more resilient.

Indicator: **Participation in an open data process**

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Goals, Indicators, Metrics

Improve data integration, tracking and reporting to strengthen decision-making.

Indicator: Broaden access to data for decision-making

Everyone who uses water is a decision-maker. Helping people understand how much they are using in context will improve decisions and make us more resilient.

- *Metric: Percent of customers who receive relative performance information about their water use*

Indicator: Participation in an open data process

Our ability to create data is outstripping our ability to make effective use of it. Ensuring that data produced is meaningful, is applied to decision-making, and is shared freely without jeopardy is a critical next step for the watershed.

- *Metric: Percent of water supply agencies participating in a regional data system consistent with the State's Open and Transparent Water Data System (AB 1755)*

Indicators for the Goals

Achieve resilient water resources through innovation and optimization.

- *Reliability of locally-managed supplies*
- *Efficiency of outdoor water use*

Ensure high quality water for all people and the environment.

- *Maintenance of groundwater salinity at or below target levels*
- *Safety of water for contact recreation*

Preserve and enhance recreational areas, open space, habitat, and natural hydrologic function.

- *Abundance of vegetated riparian corridor*
- *Abundance of conserved open space*

Engage with members of disadvantaged communities and associated supporting organizations to diminish environmental injustices and their impacts on the watershed.

- *Access to clean drinking water*
- *Resilience to climate change in all communities*

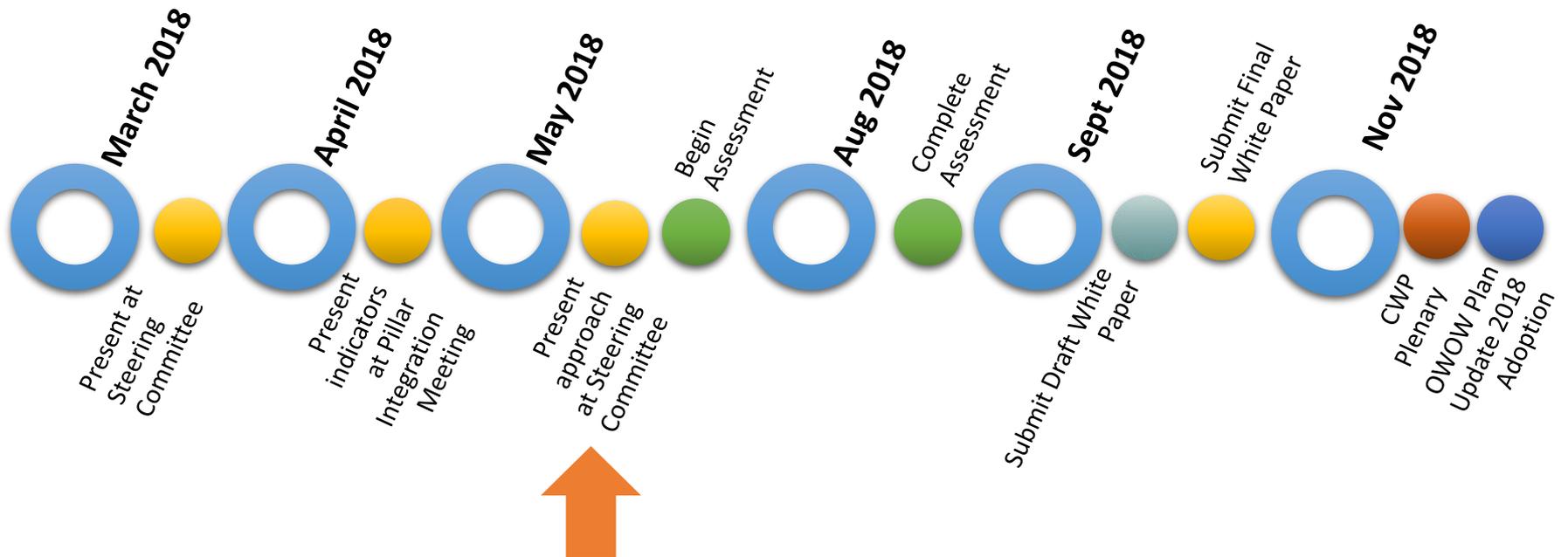
Educate and build trust between people and organizations.

- *Collaboration for more effective outcomes*
- *Adoption of a watershed ethic*

Improve data integration, tracking and reporting to strengthen decision-making.

- *Broaden access to data for decision-making*
- *Participation in an open data process*

Where we're headed: Next Steps



Feedback? Questions?



Photo credit: The Press-Enterprise

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RATING & RANKING CRITERIA

PROPOSITION 1 IRWM GRANT PROGRAM

MAY 24, 2018





It is recommended that the OWOW steering committee receive, review and provide comment to SAWPA staff about the ongoing work to develop a rating & ranking system for evaluating projects that may qualify for proposition 1 integrated regional water management (IRWM) program grant funding.

RECOMMENDATION



WHY RATING & RANKING?

1

The structure of a regional competition for grants

2

Describes our current most critical needs

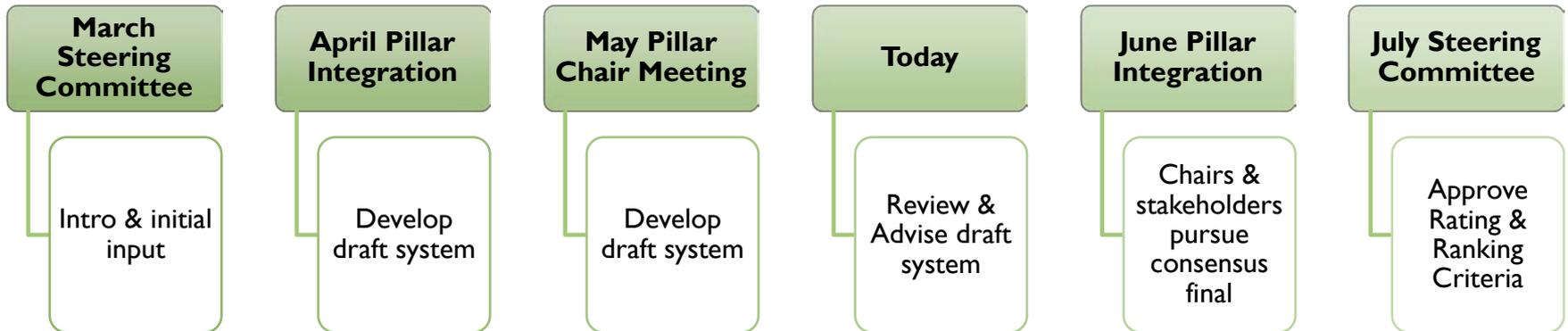
- “Among our priorities, what do we need to do with the available resources?”

3

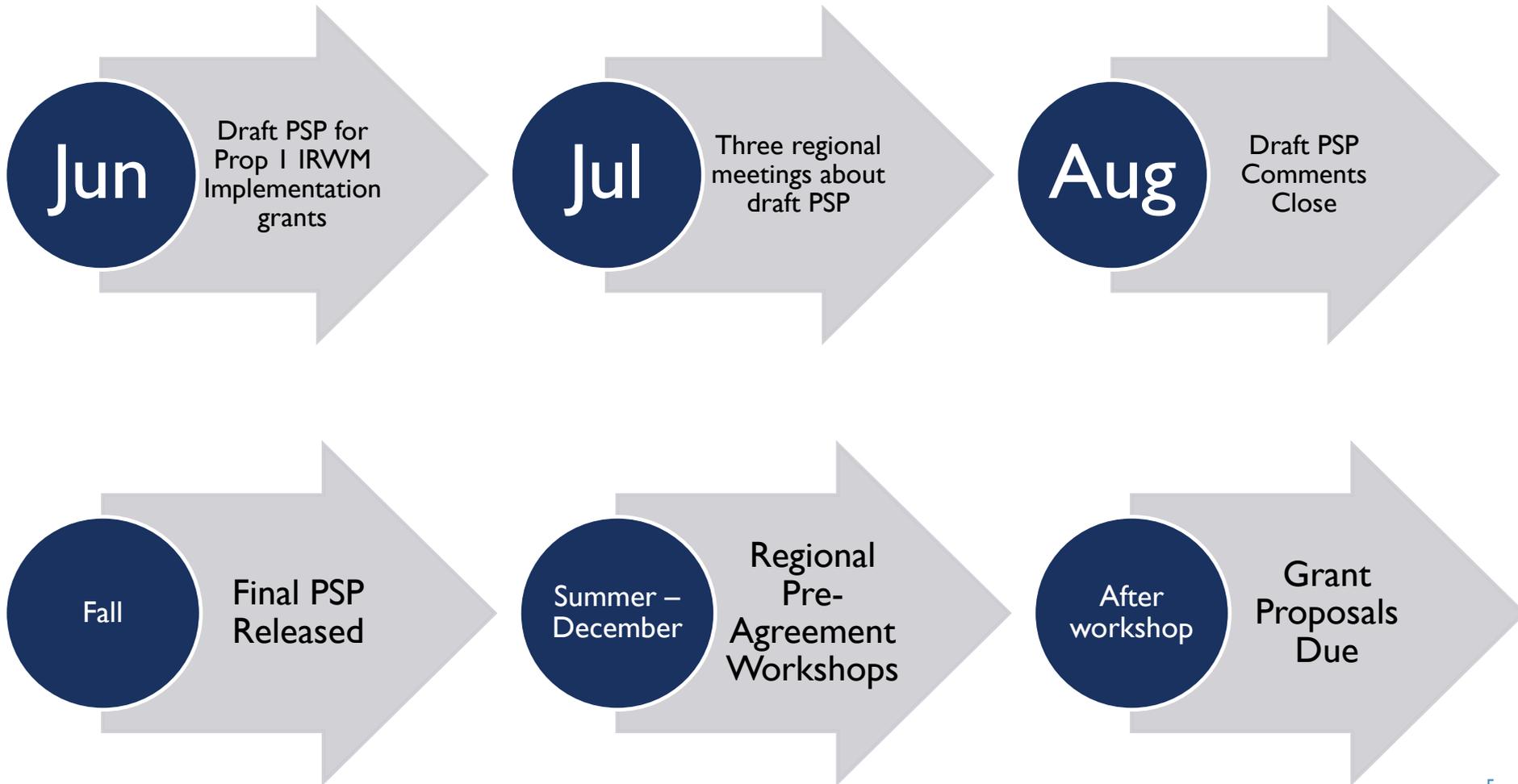
Encourages project development

- Draws together partnerships
- Drives towards innovation

TIMELINE



PROP I IRWM GRANT FUNDING DWR COMMUNICATION



PROP 84 ROUND 4 – OWOW RATING & RANKING

Benefit Class:	Factor(s):	Points:
Benefit to the watershed	Population served, area served	20 points
Water supply	New supply, dry year yield augmentation	40 points
Hydrology & flood control	Flood risk reduction, natural hydrology	15 points
Enhancement of natural environment	Functional habitat value, invasive plant species, rec or open space	10 points
Pollution management	Nonpoint source, contaminant & salt removal, GHG	25 points
Cost efficiency	Ratio grant dollars to benefits	10 points
Disadvantaged Community benefit	(presence / absence)	5 points

CURRENT PROPOSAL

- Eligibility Criteria (Yes or No)
- Rating Criteria
- Ranking System

CURRENT PROPOSAL – ELIGIBILITY

- Eligibility Criteria
- Rating Criteria
- Ranking System

Eligibility Criteria	Indicator
Collaborative project (multiple partners)	More than one org supplying resources (dollars, labor, land, etc.)
Project resilient to changing conditions	<i>needs more thinking</i>
Contains at least two benefits	Benefit classes below, auto populate with the Y or N
Is consistent with the CA Water Action Plan	Identify which pieces, brief description
Benefits achieved without expense to others	<i>needs more thinking</i>
Has identified 50% match funding	List source, cannot be other unawarded grant proposal
Per DWR, construction projects need CEQA	CEQA ready in six months after award

CURRENT PROPOSAL - RATING

- Eligibility Criteria
- Rating Criteria
- Ranking System

Benefit Classes	Weighting
Water supply reliability, conservation, efficiency	9.2
Groundwater recharge and management	8.9
Reclaim water, treat and convey	8.5
Multipurpose flood & stormwater (monitor, capture, storage, cleanup, treat, manage)	8.4
Watershed / ecosystem / wetland protection, restoration	7.7
Benefits large area of watershed	7.6
Drinking water treatment, distribution	7.4
Contains public education component	7.4
Non-point source pollution (reduce, manage, monitor)	7.1
Fisheries restoration / protection	6.9
Removal invasive non-native species	6.3

CURRENT PROPOSAL – RANKING

- Eligibility Criteria
- Rating Criteria
- Ranking System

Benefit Class	Weight	Pts	Max
Water supply reliability, conservation, efficiency	9.2	20	184
Groundwater recharge and management	8.9	20	178
Reclaim water, treat and convey	8.5	20	170
Multipurpose flood & Stormwater (monitor, capture, storage, cleanup, treat, manage)	8.4	20	168
Benefit area of watershed	7.7	20	154
Watershed / ecosystem / wetland protection, restoration	7.6	20	152
Drinking water treatment, distribution	7.4	20	148
Contains public education component	7.4	20	148
Non-point source pollution, reduce, manage, monitor	7.1	20	142
Fisheries restoration / protection	6.9	20	138

Required to expend 10% of grant dollars on projects that benefit members of disadvantaged communities



Rating & Ranking Draft Idea

- For each benefit class, points bonus if the benefit is received by members of disadvantaged communities
- Proposed: Points achieved \times 1.5
- Weighted by % project benefit accruing to members of disadvantaged communities

DISADVANTAGED COMMUNITY BENEFIT

SMALL AND LARGE PROJECTS – DRAFT IDEA

Per Steering Committee request

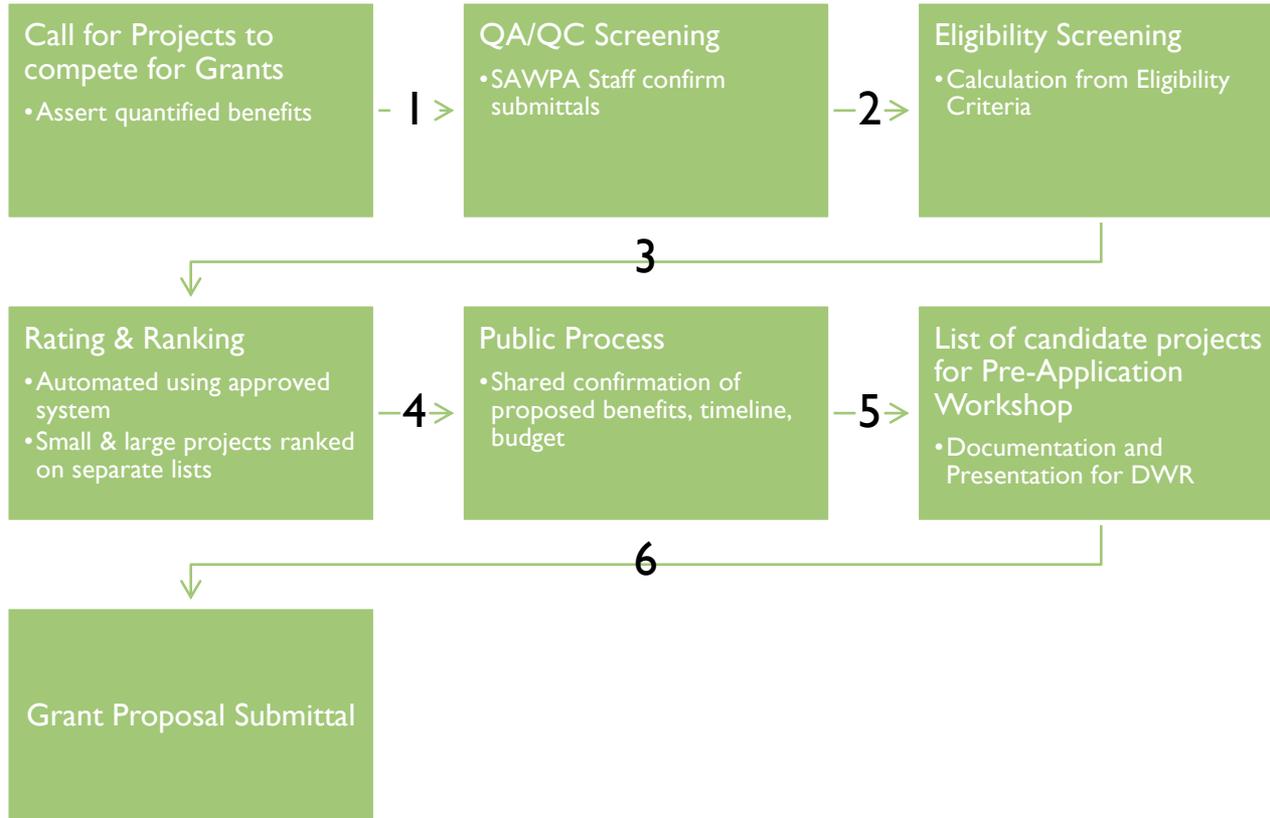
- A way for small, innovative and multi-benefit projects to compete with the larger projects that, because of scale, achieve more benefits

Draft Idea

- Of the ~\$52,000,000 available
- 10% reserved for competition for small budget projects
- 90% reserved for competition for large budget projects
- Over/under \$1M grant request

The idea would result:

- Projects with small budgets
 - Rated and ranked against each other
 - Seeking grant support from ~\$5.2M
- Projects with large budgets
 - Rated and ranked against each other
 - Seeking grant support from ~\$46.8M



USING THE SYSTEM



It is recommended that the OWOW steering committee receive, review and provide comment to SAWPA staff about the ongoing work to develop a rating & ranking system for evaluating projects that may qualify for proposition 1 integrated regional water management (IRWM) program grant funding.

RECOMMENDATION

