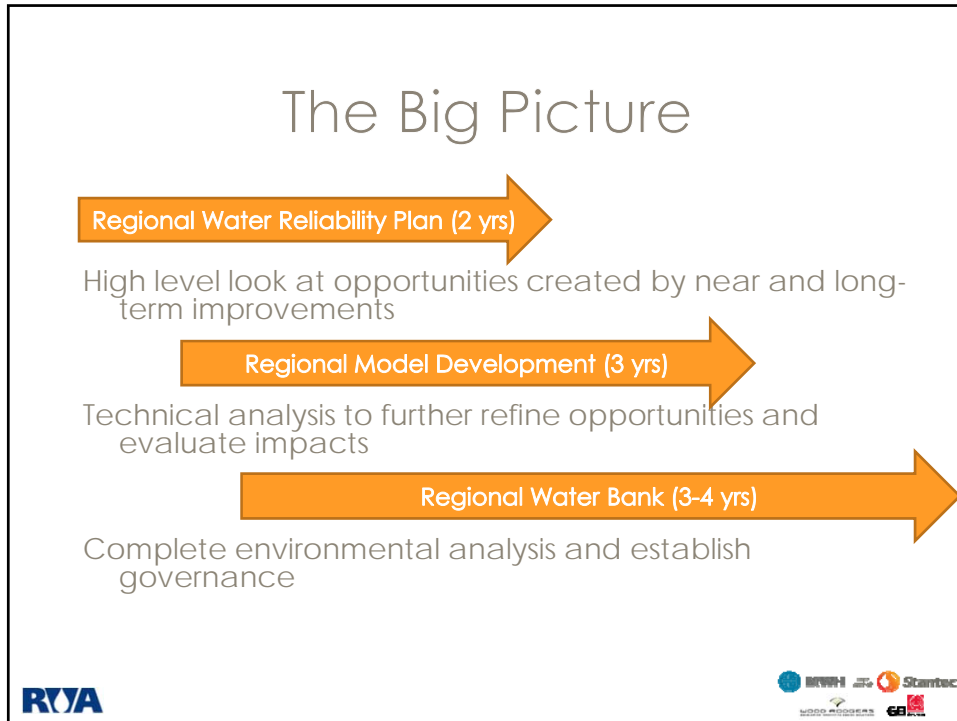


Today's Agenda

- 1 Project Management Update
- 2 RDCP / RWRP Refresher
- 3 Vulnerability Assessment Update
- 4 Sub-Regional Work Group Update
- 5 Mitigation Actions/Opportunities Update
- 6 WaterSMART Grant Application
- 7 Next Steps





- ## 1. Project Management Update
- Status of Scopes and Budgets (RDCP/RWRP/IRWMP)
 - Status of Project Agreements (RWRP)
- RYA**
-

Status of Scopes and Budgets

RDCP & RWRP Tasks	Status	Consultants		
		Budget	Expended	Remaining
Task 1 - Vulnerability Assessment		\$ 128,300	\$ 127,600	\$ 700
Task 2 - Mitigation Actions & Response Actions		\$ 122,000	\$ 93,700	\$ 28,300
Task 3 - Conjunctive Use Program Operational Analysis		\$ 190,900	\$ 18,000	\$ 172,900
Task 4 - Implementation Road Map (operational & administrative framework, update process, framework for larger conjunctive use opportunities & regional groundwater bank)		\$ 74,400	—	\$ 74,400
Task 5 - Documentation and Reporting (RDCP & RWRP)		\$ 90,800	—	\$ 90,800
Task 6 - Prepare Proposition 1 IRWM Planning Grant Application		\$ 25,000	\$ 13,302	\$ 11,698
Task 7 - CVP Partner Engagement		\$ 25,000	—	\$ 25,000
Task 8 - Administrative Activities (RDCP DPTF, C&O Plan, drought monitoring; RDCP & RWRP work plans; RDCP & RWRP project management)		\$ 52,700	\$ 32,700	\$ 20,000
TOTALS		\$ 709,100	\$ 285,302	\$ 423,798



2. Regional Drought Contingency Plan/ Regional Water Reliability Plan (RDCP/RWRP)

Drought Planning Task Force Meeting



What is an RDCP?

- Drought contingency planning processes are structured to address the following questions:
 - How will we recognize the next drought in the early stages?
 - How will drought affect us?
 - How can we protect ourselves from the next drought?
- Proactive approach to building long-term resiliency to drought
- \$200K planning grant from Reclamation Drought Response Program
- To be completed by September 30, 2017



North American Basin RDCP

- **GOAL** to increase the resiliency of the region's water resources in the face of future climate and drought conditions.
- **PURPOSE** is to develop (1) a prioritized list of actions to improve regional water supply reliability, and (2) recommendations for implementation
- Study Participants:
 - 5 water agencies with Reclamation water service and settlement contracts
 - 12 water agencies in North American Basin
 - RWA, Water Forum, DWR, Reclamation



What is an RWRP?

- 2013 RWA Strategic Plan calls for development of a Regional Water Reliability Plan
- Approach to reliability planning is to identify:
 - Vulnerabilities of each agency
 - Mitigation measures to help overcome vulnerabilities
- Intent is to have “basic levels of service” as defined by each water agency under varying conditions
- Considers both current and long-term (20 years) demands



3. Vulnerability Assessment Update

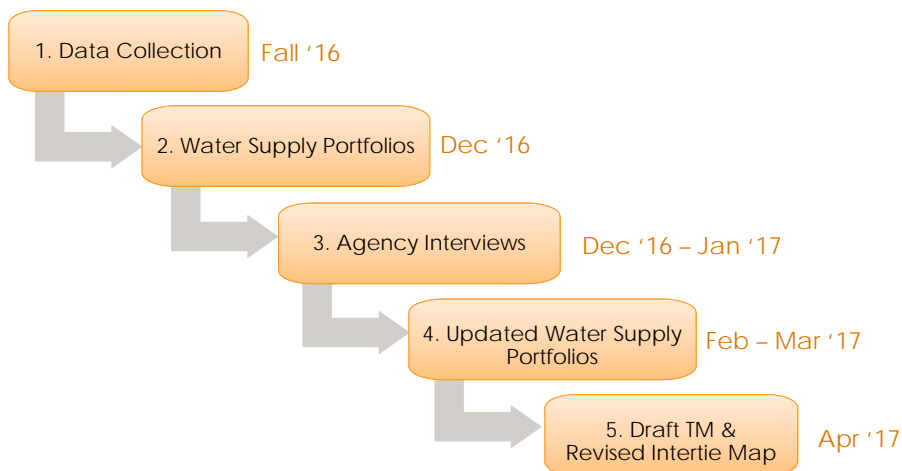


RDCP Six Required Elements

- 1. Drought Monitoring • Establish data metrics to indicate drought conditions
- 2. Vulnerability Assessment • Assess risks and impacts of current and future droughts
- 3. Mitigation Actions • Identify & prioritize actions to mitigate vulnerabilities
- 4. Response Actions • Identify & prioritize response actions to ongoing drought
- 5. Operational & Administrative Framework • Define procedures for conducting drought monitoring, initiating mitigation and response actions
- 6. Update Process • Define process for monitoring and updating the RDCP



Vulnerability Assessment Process



RDCP/RWRP Deliverables

- **Draft Data Collection TM**

1. Agency Water Supply Portfolios
2. Draft Regional Intertie Map

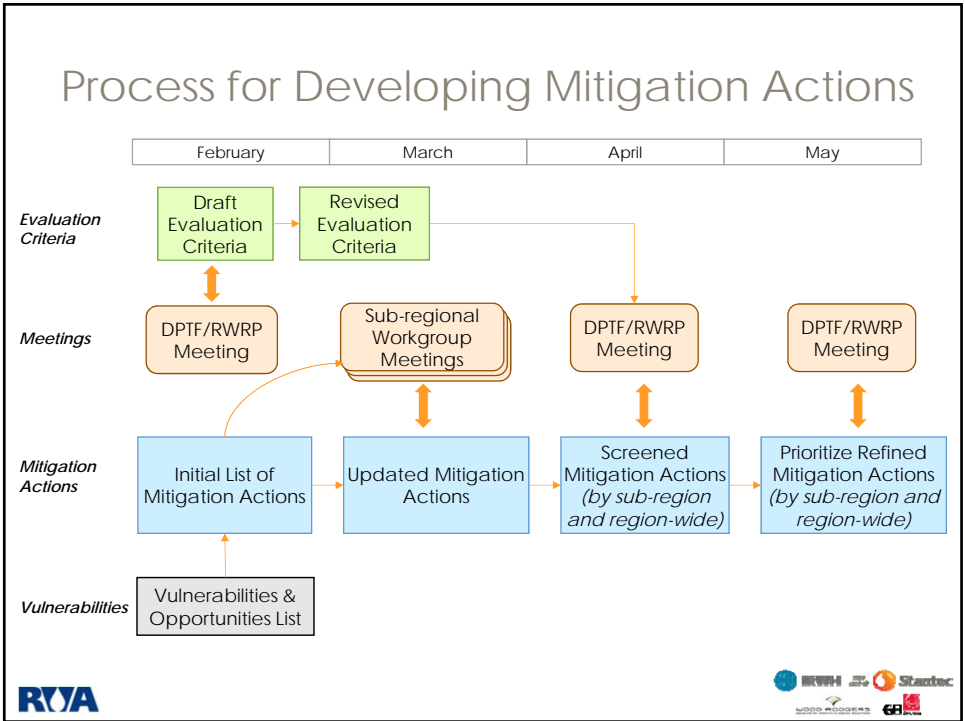
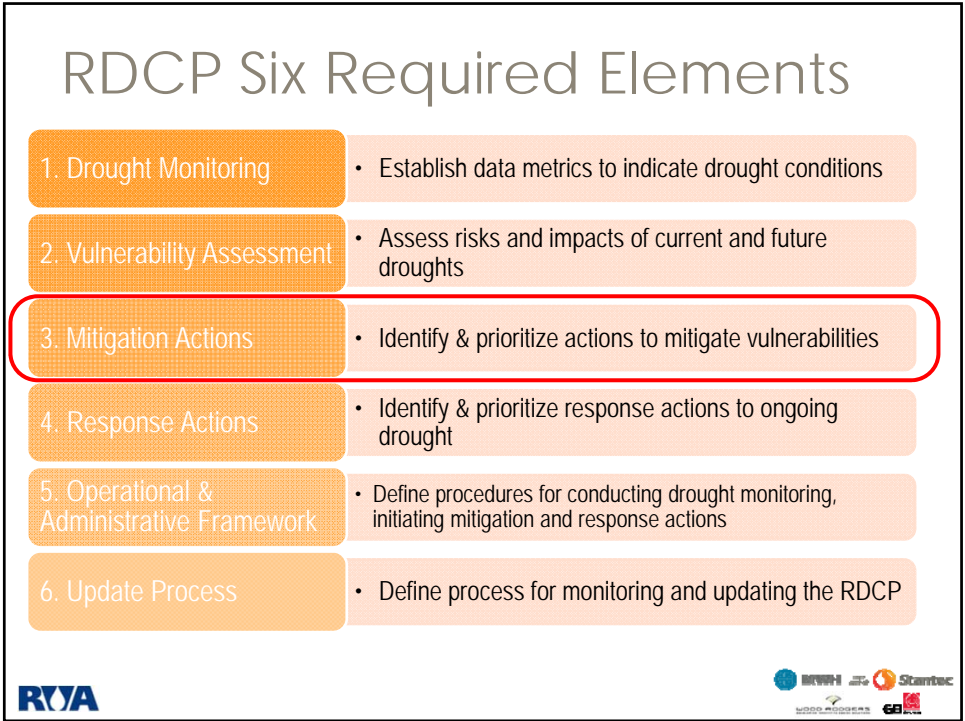
- **Draft Vulnerability Assessment TM**

1. Methodology
2. Vulnerability Assessment Outcomes:
 - Key Overall Vulnerabilities
 - Drought-Specific Vulnerabilities
 - Effect of Climate Change



4. Sub-Regional Work Group Update





Sub-Regional Workgroup Meetings

Held 4 sub-regional workgroup meetings in April

Developed **sub-regional** and **regional** management actions/opportunities for the RDCP/RWRP to:

- Improve drought resiliency
- Enhance conjunctive use



RYA



Workgroup Meeting Discussion

- Limitations on Ability to Sharing Supplies
- Surface Water Vulnerabilities
- Groundwater Vulnerabilities
- Infrastructure Vulnerabilities
- Other Challenges and Opportunities

RYA



Workgroup Meetings Summary

- **138** vulnerability-mitigation actions identified & discussed
- Updated mitigation action tables and meeting summaries:
 - Sent on April 5
 - Comments by Friday, April 14th



5. Mitigation Actions/Opportunities Screening & Evaluation



Screening & Evaluation Approach

1. Screening of Identified Actions:

- Contribution to objectives
- Implementation status
- Duplicate/Redundant

2. Evaluation of Retained Actions

- Qualitative assessment of effectiveness and implementation requirements

3. Prioritization of Retained Regional & Sub-regional actions



Contribution to Objective #1

Improve Drought Resiliency:

- **High** = Increase ability to receive additional supplies during drought or emergency conditions. ◆◆◆
- **Moderate** = Indirectly improves drought resiliency by improving groundwater conditions through conjunctive use or recycled water use. ◆◆
- **Low** = Limited to no benefit to drought resiliency, or beyond scope of drought contingency plan. ◆



Contribution to Objective #2

Enhance Conjunctive Use:

- **High** = improve ability for direct or indirect recharge ◆◆◆
- **Moderate** = improve or maintain groundwater extraction capability ◆◆
- **Low** = Limited to no benefit to conjunctive use, or beyond scope of Regional Water Reliability Plan. ◆



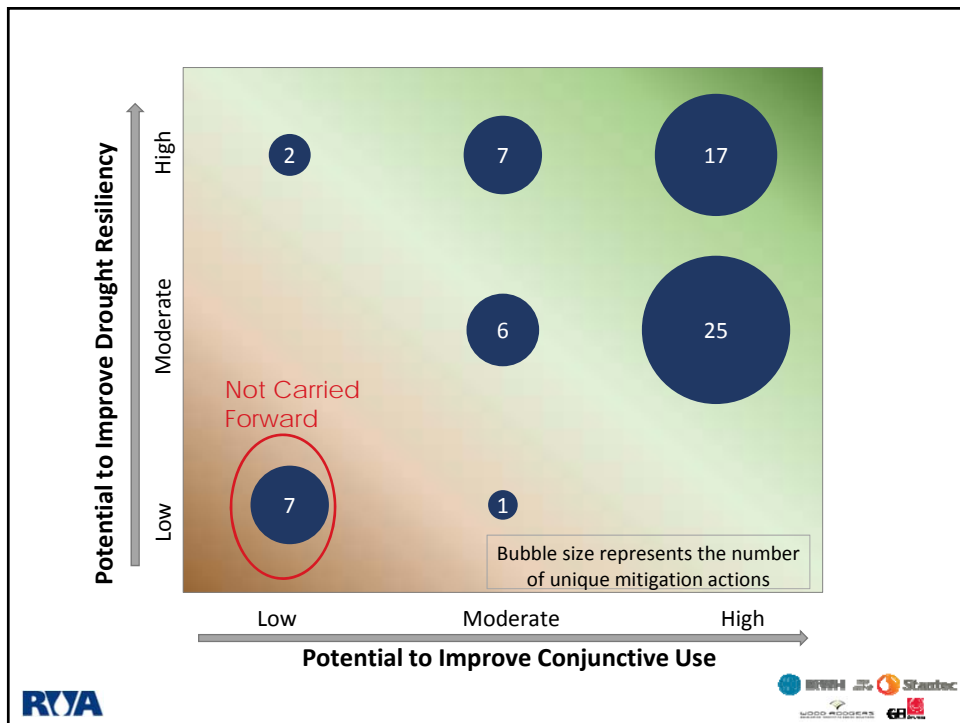
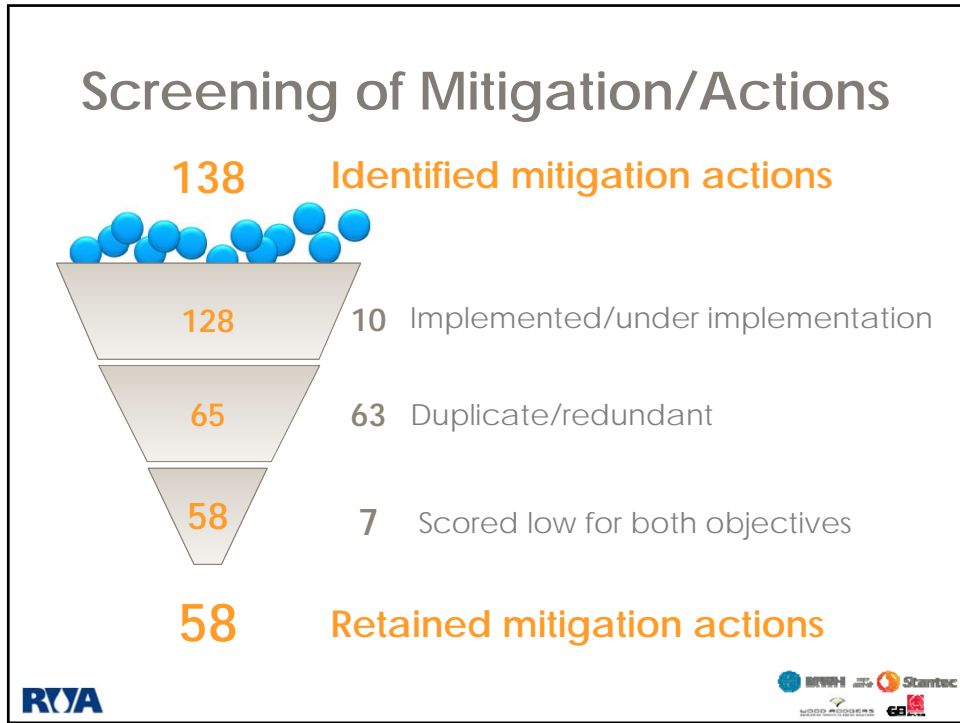
Identified Mitigation Actions

Mitigation Action Type	Count	Drought Resiliency	Conjunctive Use
Interties	23	◆◆◆	◆◆◆
Conjunctive Use	16	◆◆	◆◆◆
Water transfers/ wheeling/ banking	14	◆◆	◆◆◆
Recycled Water	12	◆◆	◆◆
Surface Water (treatment, storage)	10	◆◆◆	◆◆◆
Groundwater (treatment, rehab, new well)	9	◆◆◆	◆◆
Contingency Plans (non-drought)	8	◆	◆
Groundwater Well Injection	6	◆◆	◆◆◆
Booster pump/ Pressure Reduction	6	◆◆	◆◆◆
Maintenance	6	◆	◆
Expand POU/ Contracts	6	◆◆	◆◆◆
Diversify supplies	5	◆◆◆	◆◆
Sacramento River Diversion	4	◆◆◆	◆◆◆
Contingency Plan – Drought	4	◆◆◆	◆
Fluoridation	3	◆	◆◆
Staffing	1	◆	◆
Other	5	◆	◆

Total

138





Retained Mitigation Actions

Mitigation Action Type	Count	Drought Resiliency	Conjunctive Use
Intertie	12	◆◆◆	◆◆◆
Surface Water (treatment, storage)	4	◆◆◆	◆◆◆
Sacramento River Diversion	1	◆◆◆	◆◆◆
Groundwater (treatment, rehab, new well)	6	◆◆◆	◆◆
Contingency Plan – Drought	2	◆◆◆	◆
Water transfers/ wheeling/ banking	7	◆◆	◆◆◆
Conjunctive Use	6	◆◆	◆◆◆
Booster pump/ Pressure Reduction	4	◆◆	◆◆◆
Expand POU/ Contracts	4	◆◆	◆◆◆
GW Well Injection	5	◆◆	◆◆◆
Recycled Water	6	◆◆	◆◆
Fluoridation	1	◆	◆◆

DRCP top priority actions

Total 58



Retained Mitigation Actions

Mitigation Action Type	Count	Drought Resiliency	Conjunctive Use
Intertie	12	◆◆◆	◆◆◆
Surface Water (treatment, storage)	4	◆◆◆	◆◆◆
Sacramento River Diversion	1	◆◆◆	◆◆◆
Water transfers/ wheeling/ banking	7	◆◆	◆◆◆
Conjunctive Use	6	◆◆	◆◆◆
Booster pump/ Pressure Reduction	4	◆◆	◆◆◆
Expand POU/ Contracts	4	◆◆	◆◆◆
GW Well Injection	5	◆◆	◆◆◆
Groundwater (treatment, rehab, new well)	6	◆◆◆	◆◆
Recycled Water	6	◆◆	◆◆
Fluoridation	1	◆	◆◆
Contingency Plan – Drought	2	◆◆◆	◆

RWRP top priority actions

Total 58



Evaluation & Prioritization

Performing a qualitative assessment (low, moderate, high):

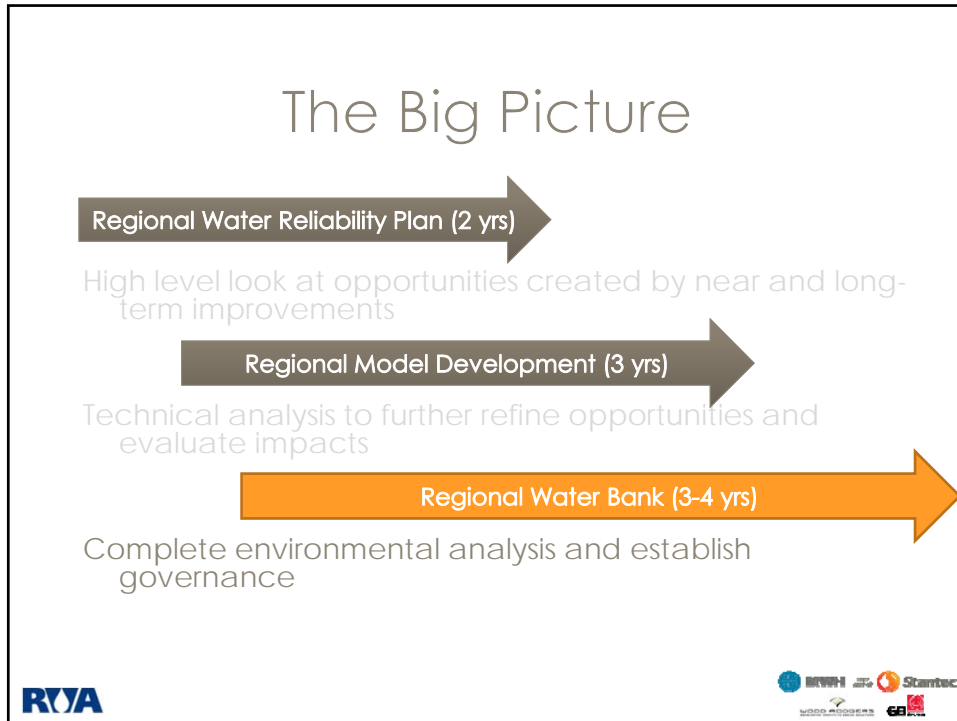
1. Objectives – Drought Resiliency & Conjunctive Use
2. Relative Implementation Costs
3. Project Readiness
4. Implementation Complexity
5. Level of Partnership

Prioritizing Retained Regional & Sub-Regional Actions



6. WaterSMART Grant Application Update





WaterSMART Grant Application

- Advance the development of the GW bank, consistent with the RWRP
- Up to \$400K potential award
- 50 percent or more cost-share
- Lead Agency: EDCWA
- Participating Agencies: PCWA, City of Sac, City of Folsom, SSWD, RWA
- Application due 4/18/2017

RECLAMATION
Managing Water in the West

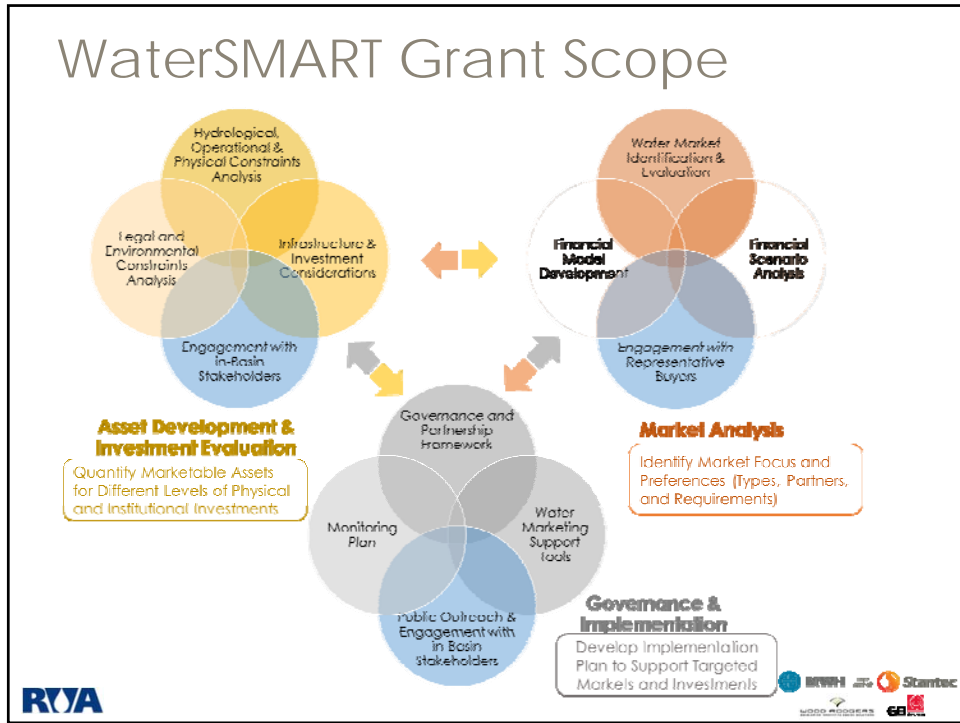
Funding Opportunity Announcement No. BOR-DO-17-F014

**WaterSMART Grants:
Water Marketing Strategy Grants
for Fiscal Year 2017**

U.S. Department of the Interior
Bureau of Reclamation
Policy and Administration
Denver, Colorado

February 2017

RYA



7. Next Steps

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RWA **MWH** **Stantec**

Next Steps

Vulnerability-MA Table Comments Due April 14

IRWMP Meeting April 24

Next Joint DPTF/RWRP Meeting May 10

Draft Mitigation Actions TM May 31

Draft RDCP May 31

