

Feasibility Study Grants 2015-2017, Second Cycle Funding Recommendations



Tracy Loudon, Administrator

Kim Ogren, Senior Advisor

Jon Unger, Grant Program Coordinator



Overview

Background and Purpose

Overview of First Funding Cycle

Summary of Second Cycle Applications

Application Review Team Process

Funding Recommendations

Next Steps

Staff Recommendation



OWRD Vision and Mission

Vision: Assure sufficient and sustainable water supplies are available to meet current and future needs.

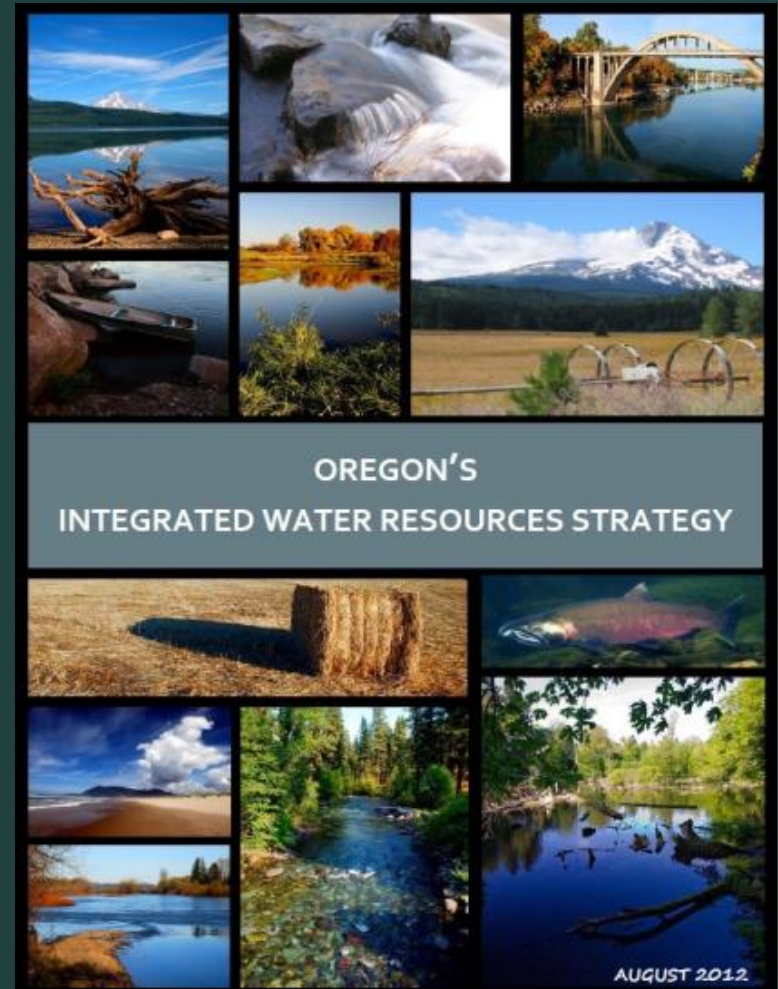
Mission: Serve the public by practicing and promoting responsible water management through two key goals:

- To directly address Oregon's water supply needs, and
- To restore and protect streamflows and watersheds in order to ensure the long-term sustainability of Oregon's ecosystems, economy, and quality of life.

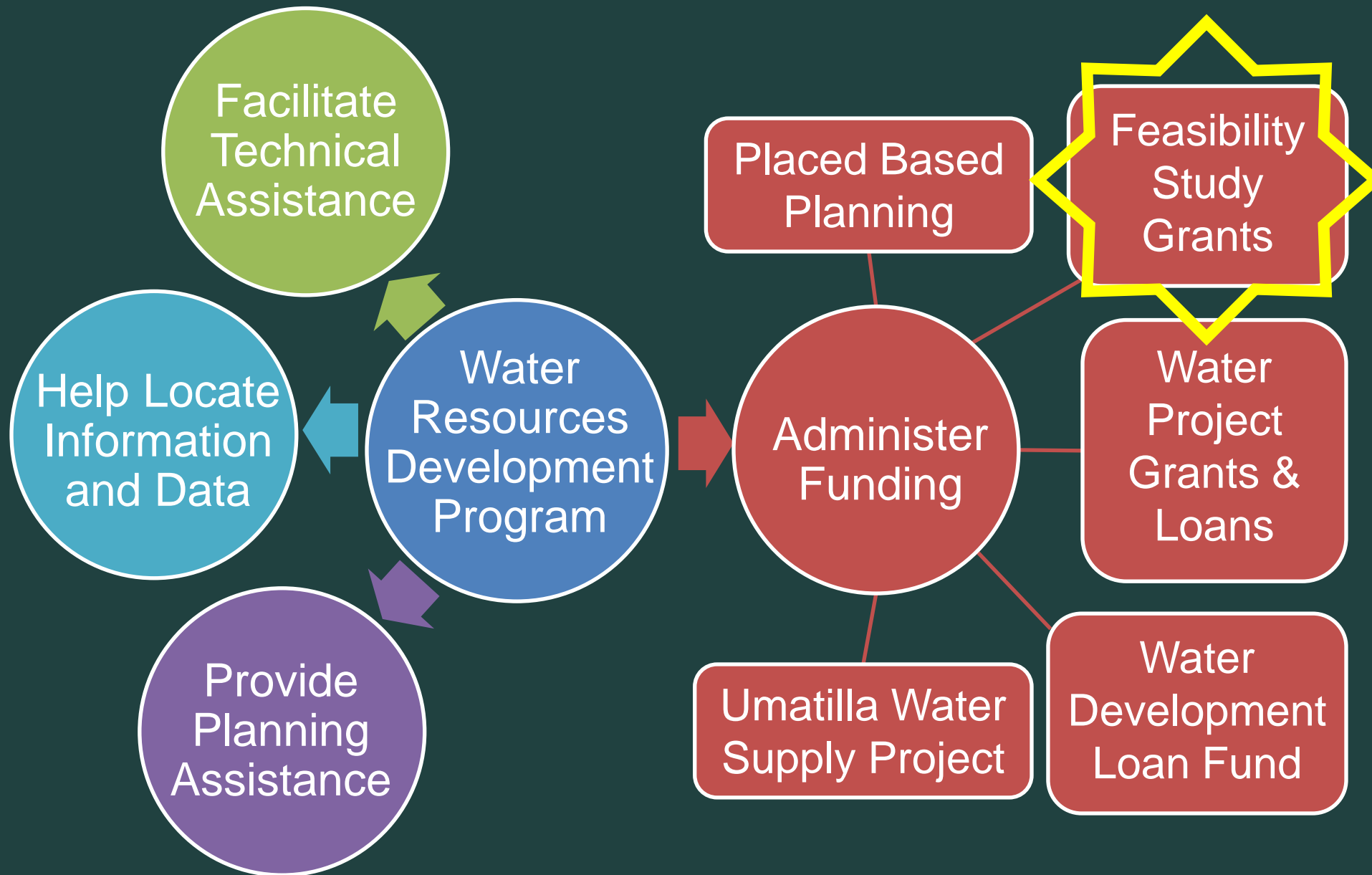
Integrated Water Resources Strategy

The IWRS provides a roadmap to help the state better understand and meet its instream and out-of-stream water needs.

**Recommended Action 13C:
Fund Communities Needing
Feasibility Studies for Water
Conservation, Storage, and
Reuse Projects**



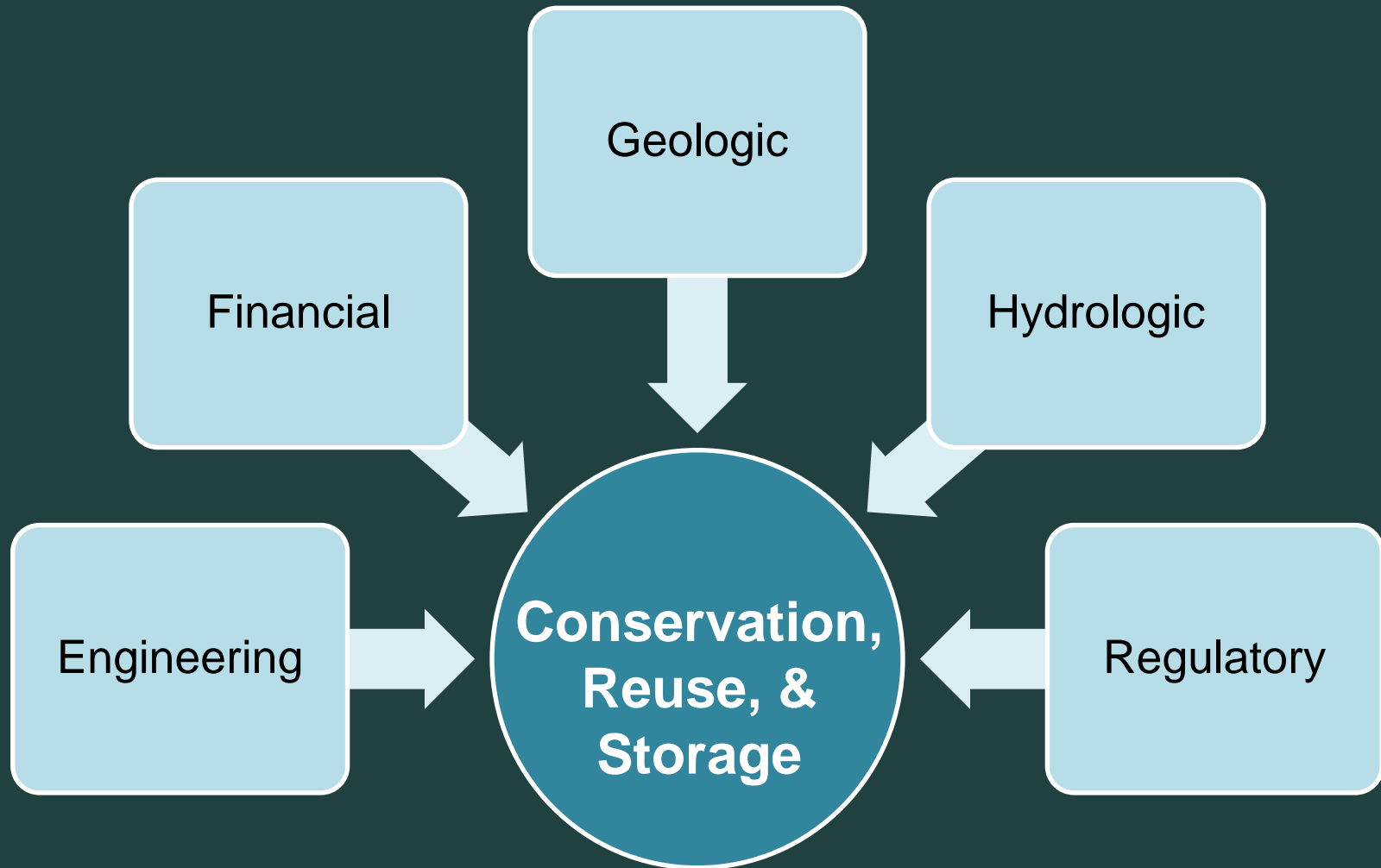
Water Resources Development Program





Feasibility Study Purpose

A feasibility study seeks to answer the question: **Should we (or how should we) proceed with a proposed project idea?**





First Cycle 2015-2017

2015-2017 Available Funding
~ \$2.8 Million

8 Applications Received
6 Grants Awarded

First Cycle Grants
= \$497,185 Awarded



Second Cycle 2015-2017

\$ 2,302,815 Available



30 Applications Received



\$2,266,722 Funds Requested



Applications

7

Conservation

7

Reuse

8

Storage – Above
Ground

8

Storage – Other
than Above Ground



Distribution of Applications

Region	Conservation	Above-ground Storage	Other Types of Storage	Reuse	Total
East	1	1	1	-	3
North Central	1	1	4	3	9
South Central	1	1	-	1	3
West	1	3	2	2	8
South West	3	3	-	1	7



Application Review Team Process

Applications
due February
1, 2016



Review
Team
Evaluates
Applications



Group
Discussion



30-Day
Public
Comment
Period



Funding
Recommendation



Scores
Submitted



Application Review Team



Convened in March 2016





Application Review Team

The ART considered...

Water
Supply
Need

Clearly
Defined
Goal and
Study
Method

Technical
Details

Letters of
Support



Recommended Studies

Recommendation: Fund 18 Feasibility Studies
Total Funding = \$1,345,535

6

- Water Conservation Studies

3

- Reuse Studies

9

- Above Ground Storage Studies (6)
- Other Types of Storage Studies (3)



Water Conservation Studies

Abbie Lane Lateral Improvement

...improving the infrastructure of the **Abbie Lane Lateral** that provides irrigation water to 13 patrons of the Gold Hill Irrigation District...

Deschutes on Farm Irrigation Water Management Pilot

...improving irrigation efficiencies and developing irrigation water management **(IWM) plans** for landowners in Deschutes County...



Water Conservation Studies

...**conservation measures within the 2,105 acre Juniper Flats District Improvement Company (JFDIC) in Wasco County...**

Juniper Flats

...**conserving water by detaining precipitation that falls on rural lands through the addition of organic materials and other amendments to the soil...**

Rogue Basin
Pilot Study



Water Conservation Studies

Upper
Catherine
Creek
Conservation

...**pipng or lining irrigation ditches and upgrading on-farm irrigation methods** in the upper Catherine Creek watershed...

WISE (Water
for Irrigation,
Stream and
Economy)
Water Rights
Evaluation

...WISE water conservation project in terms of **how existing water rights interact with the proposed project**...



Water Conservation Studies

Study Name	Funding Request	Funding Recommendation
Abbie Lane Lateral Improvement	\$8,778	Recommended
Deschutes On Farm Irrigation Water Management Pilot	\$17,000	Recommended
Juniper Flats	\$40,000	Recommended
Rogue Basin Pilot Study	\$37,000	Recommended
Upper Catherine Creek Conservation	\$114,265	Recommended
WISE Water Rights Evaluation	\$162,000	Recommended
	TOTAL	\$379,043



Water Reuse Studies

Sterling Park Storm Water Recharge

....storing **winter storm water collected from impervious residential roads** in Beaverton and stored in an aquifer storage and recovery well for **reuse in the summer...**

Umatilla Reuse

....reusing **all current and future industrial flows** by recycling the water into the West Extension Irrigation District (WEID) via the Umatilla feed canal...

West Extension Reuse

...constructing **three regional reuse storage reservoirs** within or near West Extension Irrigation District (WEID) boundaries...



Water Reuse Studies

Study Name	Funding Requested	Funding Recommendation
Sterling Park Stormwater Recharge	\$50,000	Recommended
Umatilla Reuse	\$130,000	Recommended
West Extension Reuse	\$40,000	Recommended
	TOTAL	\$220,000



Water Storage Studies – Above Ground

Drift Creek Water Supply Development

**...constructing a
reservoir on Drift Creek
in order to provide a
long-term water supply
for East Valley Water
District members....**

McMullin Creek Dam and Spillway Analysis

**...hydraulic design
alternatives to upgrade
the dam and service
spillway of McMullin
Creek Dam in Josephine
County...**



Water Storage Studies – Above Ground

Oakland Reservoir

...enhancing an existing agricultural pond to provide municipal water for the City of Oakland and augment instream flows in Calapooia Creek during summer months...

Pine Grove Water System Improvement

...repairing/renovating or replacing existing water supply infrastructure (e.g., storage tanks) serving Pine Grove Water District in Klamath County...



Water Storage Studies – Above Ground

Roller Compacted Concrete Dam at Big Creek

**...constructing a roller
compacted concrete
dam on Big Creek to
replace two existing
dams...**

West Fork Palmer Creek

**...development of
reservoirs for storage
of water during the
winter months to use for
agricultural crop irrigation
in the summer in Yamhill
County...**



Water Storage Studies – Above Ground

Study Name	Funding Requested	Funding Recommendation
Drift Creek Water Supply Development	\$76,320	Recommended
McMullin Creek Dam and Spillway Analysis	\$73,000	Recommended
Oakland Reservoir	\$10,858	Recommended
Pine Grove Water System Improvement	\$10,000	Recommended
Roller Compacted Concrete Dam at Big Creek	\$460,000	Recommended for \$250,000
West Fork Palmer Creek	\$64,170	Recommended
	TOTAL	\$484,348



Water Storage Studies - Other

Banks-Green Mountain ASR

...ASR, water conservation, and alternative water supplies, to develop **ASR storage of wintertime Green Mountain spring flow...**

...constructing a **pipeline to pump water from the Umatilla River** to the existing County Line Water Improvement District's recharge area...

County Line Recharge

Fifteen Mile Watershed Managed Underground Storage

...developing and using **below-ground storage** to augment late season stream flows...



Water Storage Studies - Other

Study Name	Funding Requested	Funding Recommendation
Banks-Green Mountain ASR	\$102,191	Recommended for \$96,459
County Line Recharge	\$12,500	Recommended
Fifteen Mile Watershed Managed Underground Storage	\$153,185	Recommended
	TOTAL	\$165,685

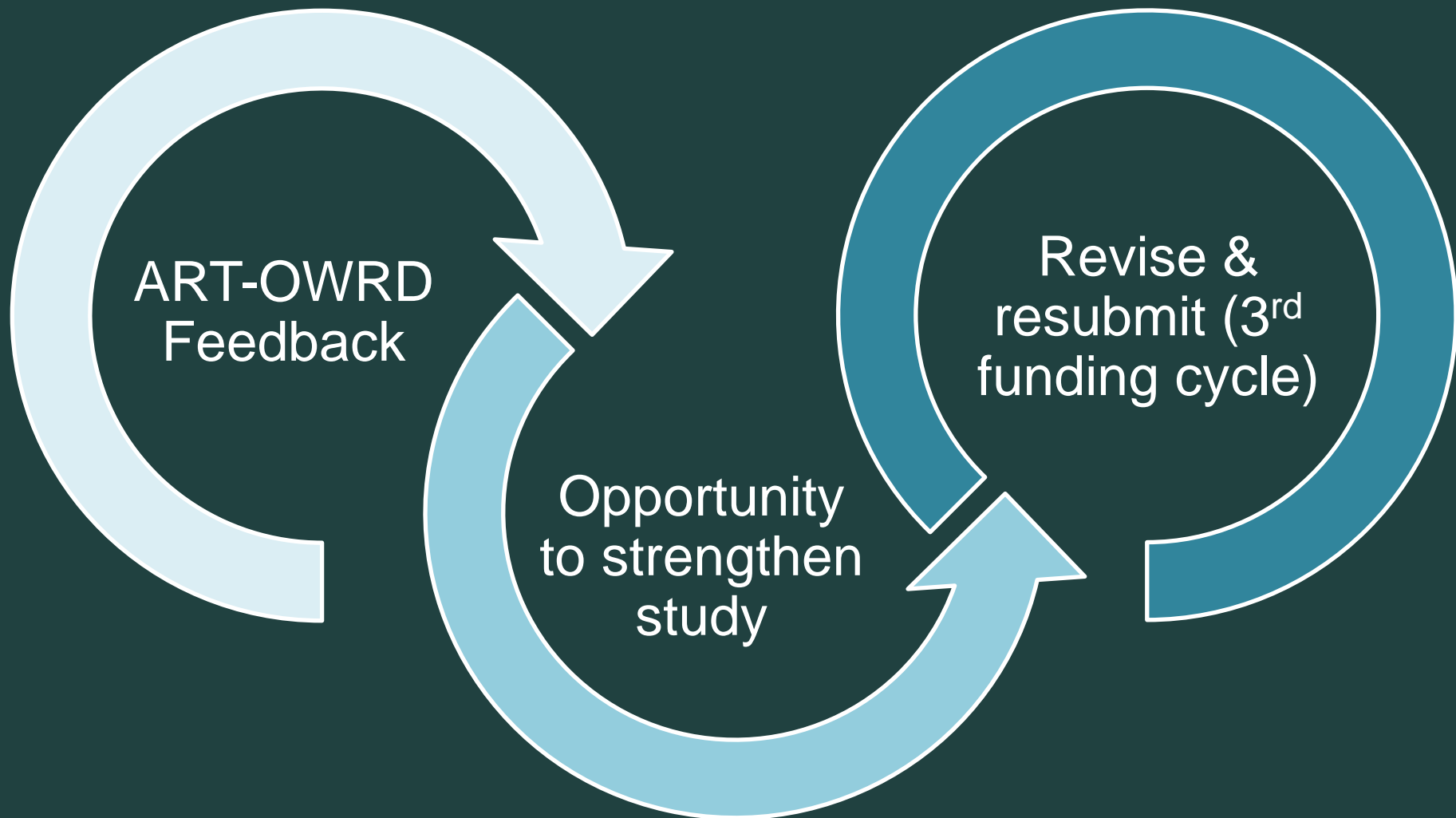


Studies Not Recommended

- Alpine Collective Action Aquifer Storage and Recovery
- Applegate Reservoir Capacity Restoration
- Big Lake Recycled Water Study
- Eastside Aquifer Recharge and Recovery
- Groundwater Development to Conserve Molalla River Instream Flows
- Little Rock Creek Reservoir Project
- Meadow Storage Capacity in Upper John Day
- Pendleton Reuse
- Ralph Hutchinson Family Study
- Rupp Agricultural Aquifer Storage and Recovery
- Sunrise Purple Pipe Groundwater & Reuse Feasibility Study
- Yoncalla Water Reuse Plan



Applicant Feedback





Biennial Funding

First Cycle

6 Studies

= \$497,185



Second Cycle Recommendation

18 Studies

= \$1,345,535



Third Cycle

Available

= \$930,996



Next Steps (if grants are awarded)



Develop and sign grant agreements



Confirm permits/authorizations if needed to conduct study



Ensure cost match secured



Work with grantees as study is conducted



Open third cycle in summer 2016



Staff Recommendation

The Commission may consider the following alternatives:

- Adopt funding recommendations.
- Adopt modified funding recommendations.
- Direct the Department to further evaluate the applications and return with a revised funding proposal.



Staff Recommendation

The Commission may consider the following alternatives:

- Adopt funding recommendations.
- Adopt modified funding recommendations.
- Direct the Department to further evaluate the applications and return with a revised funding proposal.

THANK YOU





Public Comments Received

- County Line Recharge
 - Storage Specific Statutory Requirement
- Drift Creek Water Supply Development
- McMullin Creek Dam and Spillway Analysis
- RCC Dam at Big Creek