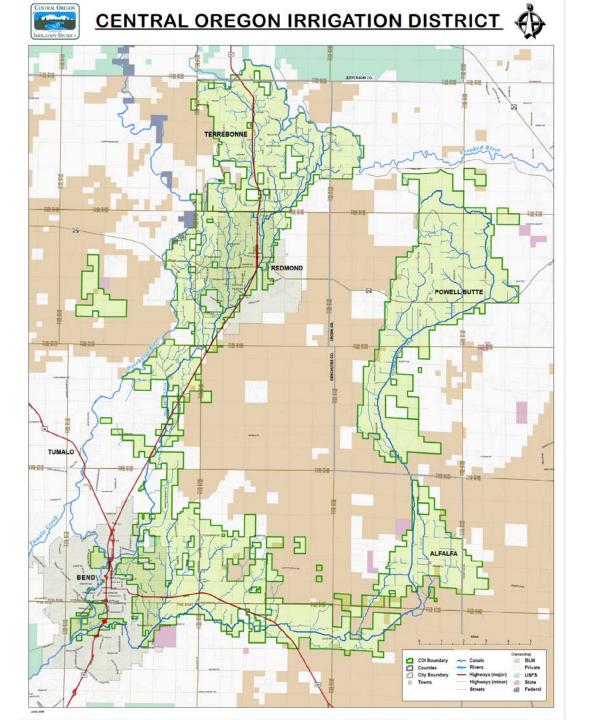
Craig Horrell, Managing Director Leslie Clark, Director of Water Rights Ron Nelson, Consultant



Overview Past Current **Future Next Steps**

BALANCING WATER DISTRIBUTION WITHIN BASIN





Deschutes Basin Irrigation Districts Central Oregon **JEFFERSON** Irrigation District (COID) NUID Lone Pine Irrigation District (LPID) Lake Billy Chinook Madras Irrigation District (AID) North Unit Irrigation District (NUID) HAYSTACK Irrigation District (SID) RESERVOIR Irrigation District (TID) Three Sisters Irrigation District (TSID) Irrigation District (OID) AF - Acre Feet Prineville осносо RESERVOIR 44,247 AF CROOK PRINEVILLE RESERVOIR Bend Little Lava DESCHUTES CRANE PRAIRIE (4) RESERVOIR 45,000 AF WICKIUP 15,000 AF RESERVOIR 200,000 AF NUID CRESCENT CRESCENT LAKE CRANE PRAIRIE RESERVOIR RESERVOIR RESERVOIR 45,000 AF SE GOD AF 200,000 AF crescent Cree 86,900 AF (7) Gilchrist Stored Water Rights 5 Irrigation Districts have stored water rights that effect the Deschutes river. Optimizing reservoir use is a critical component in providing reliable water for our basin and restoring habitat.

Deschutes Basin Irrigation Districts

PAST

- COID & partners were instrumental in bringing forward the conservation statute.
- Completed 6 conserved water projects resulting in 29 cfs of conserved water protected instream.
- Since 2005, 2,082 acres of COID water permanently transferred instream for groundwater mitigation and flow restoration.
 - 62 cfs in diversion reductions with 36 cfs protected instream.
- Participate in annual instream lease program protecting an average 30 cfs.

WINTER SUMMER Flows are held back in winter to fill the reservoir to Wickiup Reservoir ensure enough water is available for summer irrigation. Flows can vary dramatically from UPPER DESCHUTES 20-1200 cfs depending on climate conditions in winter. Fish can become stranded 1800 cfs Average 40 cfs when flows get too low. SUMMER BENHAM FALLS Tributaries and natural springs add flow to the river above Benham Falls year round. / Irrigation diversions around BEND Bend reduce streamflows in the Middle Deschutes in Summer. 550 cfs SUMMER MIDDLE DESCHUTES 550 cfs 130-160 cfs WINTER Low flows and increased water temperature impact fish habitat. Lake Billy Chinook

Historical Deschutes River Flows

Current

Habitat Conservation Plan Update

Basin Study Work Group Update

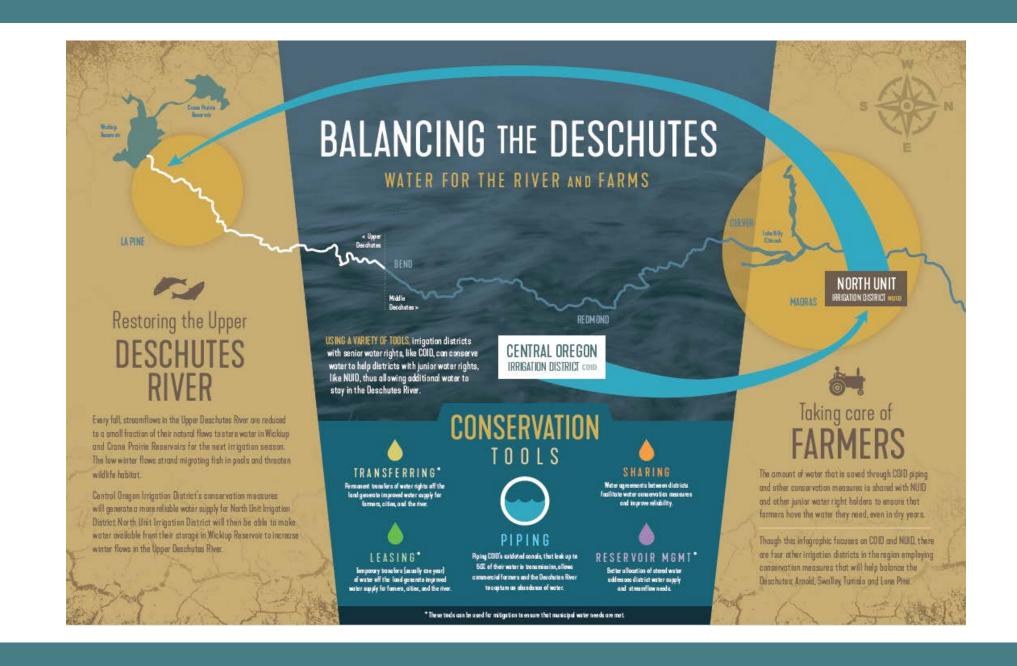
Studies identified:

• Changing conditions, water demand, and a suite of options to meet them.

The challenge:

Rules may not be in place to embrace the opportunities.

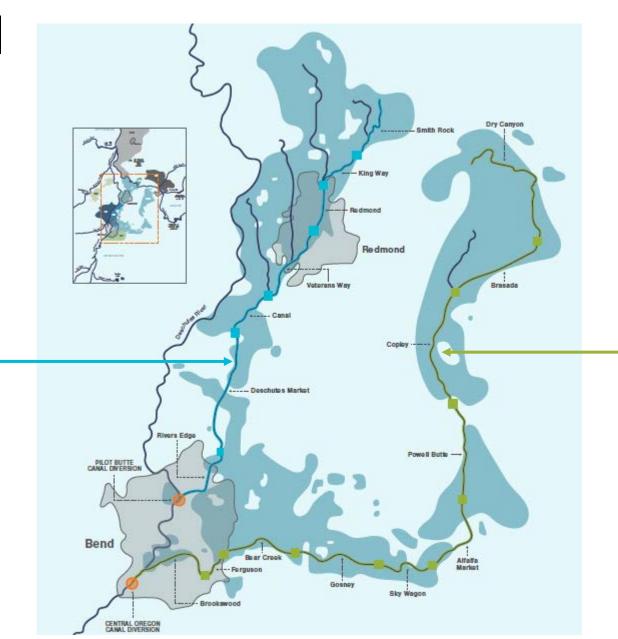
Planning for the Future



SYSTEM IMPROVEMENT ... conservation

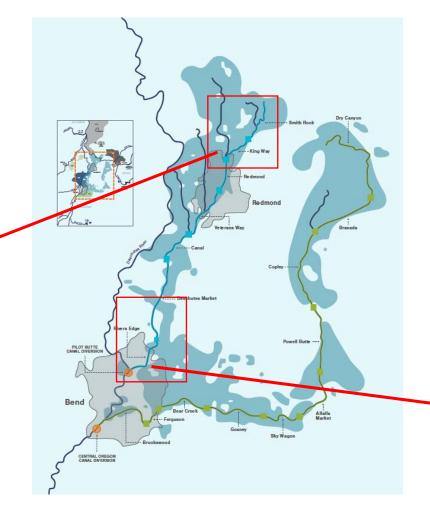
potential

Pilot Butte Canal 156 cfs (59,163 AF)



Central Oregon Canal 99 cfs (37,300 AF) Phase 1 31cfs





Phase 2 37cfs



Capital Projects

Next Steps

- Reduce NUID reliance on Wickiup storage by transferring COID conserved water to NUID lands.
- Transfer off NUID water, exchanging it with the senior COID conserved water.
- Transfer Wickiup storage instream during winter season.

In Addition:

- Create mitigation credits from the instreamed storage for growing Central Oregon cities.
 - Winter storage releases may balance the negative impact on winter flows caused by current, seasonal mitigation.

What Worked in the Past Doesn't Work in the Future

Transferring COID urbanizing acres instream for groundwater mitigation is no longer a viable option.

 COID Instream transfers do not increase winter flows in the upper Deschutes River.

 Does not help junior irrigation district partners reduce dependence on storage.

Finding Flexible Solutions

Form a workgroup, including OWRD staff, irrigation districts, municipal partners, and others, to develop solutions.

- Evaluate current ORS & OAR
 - COID pilot project
- Develop legislation



Thank you



