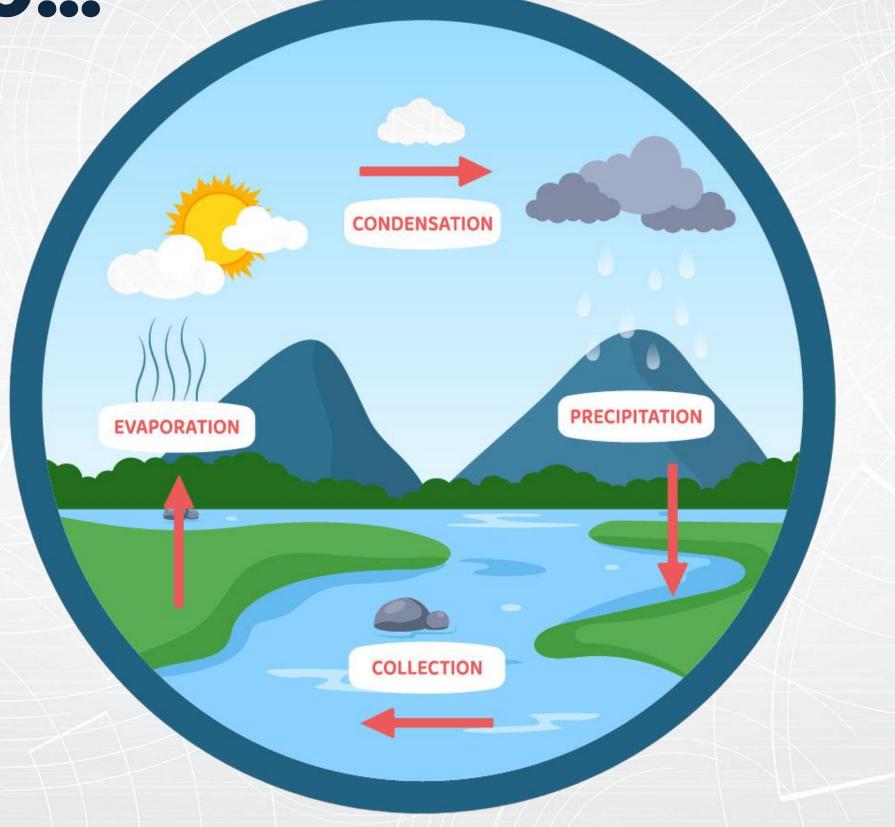
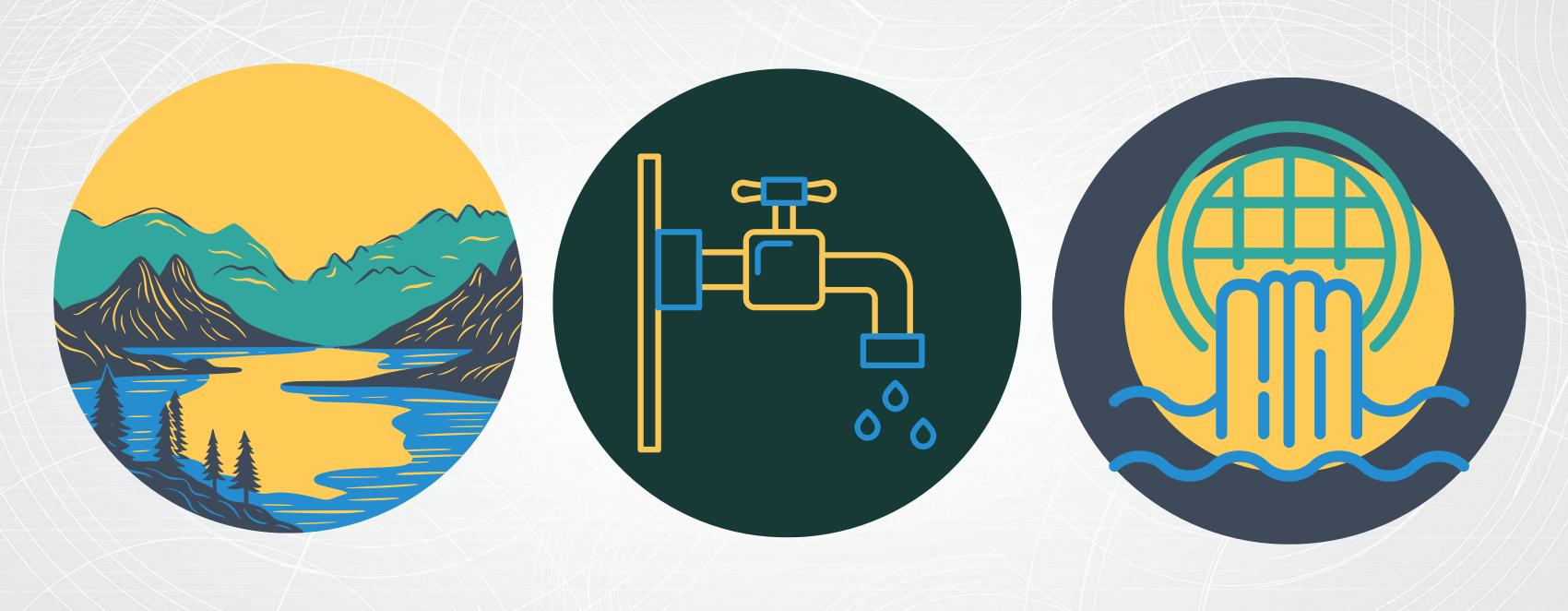


Water is an Endlessly Renewable Resource...





# The way we use it is linear



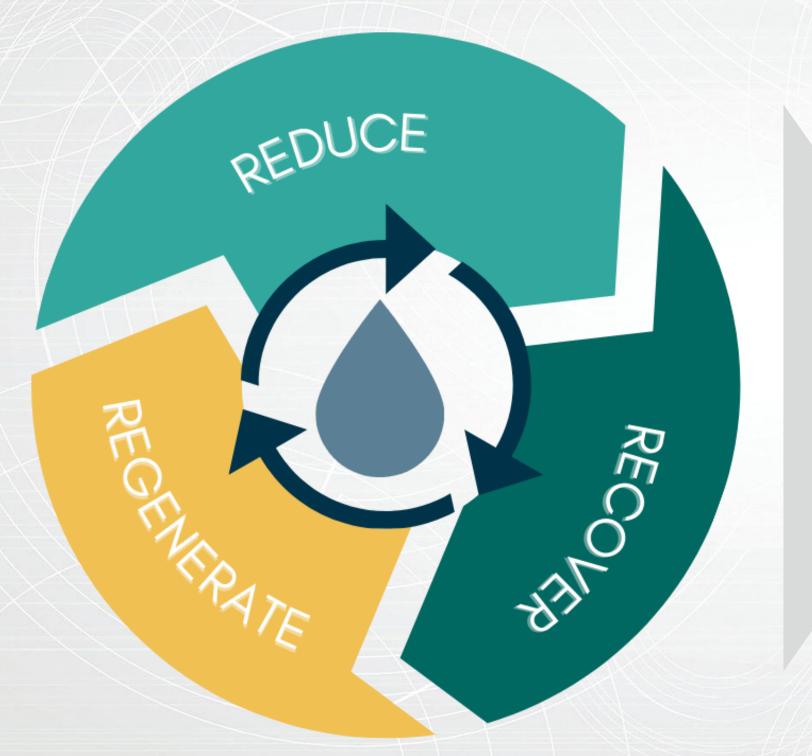
Take

Use

Dispose



# The Circular Water Economy provides the path forward



Economic growth
Job creation
Stronger environment
Greater resilience

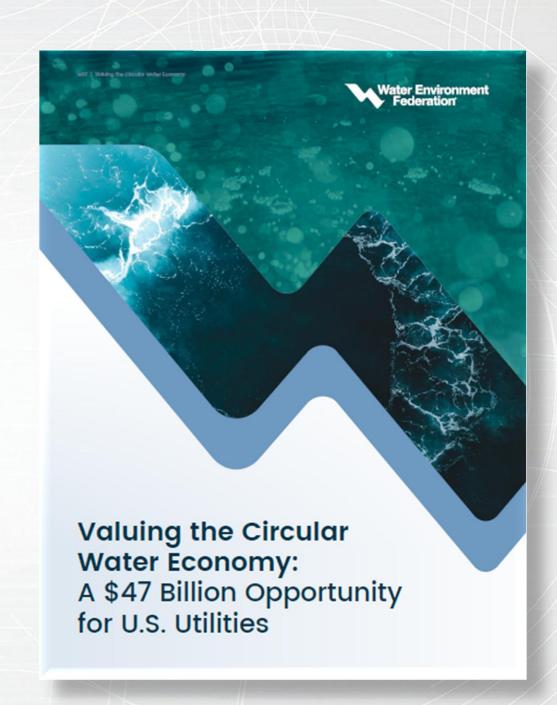


### The Value of Circular Water

A national transition toward a circular water practices could unlock up to \$47 billion annually in direct economic value for U.S. water utilities and municipalities

Scan the QR-code to view the report

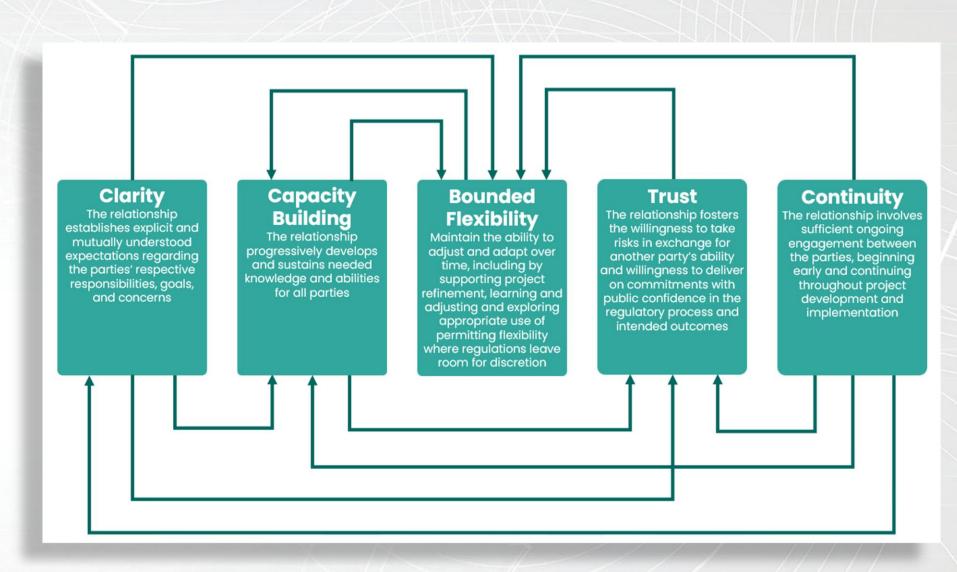






# Innovation Through Permitting

Innovation is key to advancing a circular water economy. WEF's new concept sheet series explores how utilities and innovators can collaborate with permitting authorities to unlock innovation in wastewater management.



Scan the QR-code to view the sheets





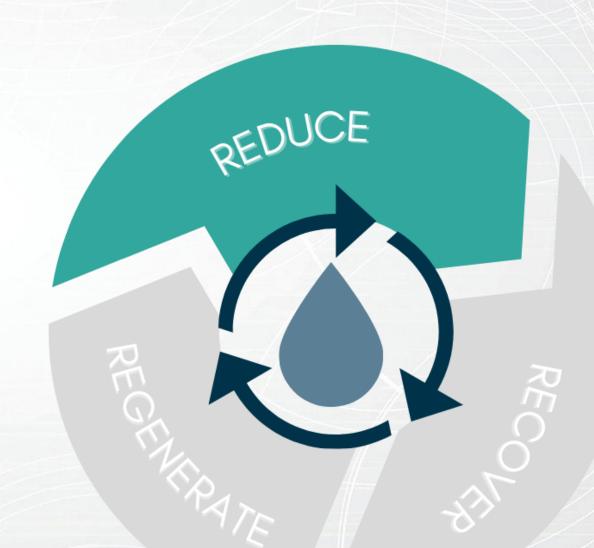
### Reduce

Minimize waste in service delivery and enhance water system efficiency

**Energy Efficiency** - Reducing the energy used to provide water and wastewater services

**Source Control** - Preventing pollution at the source to reduce the costs of treatment

**Stormwater Management** - Investing in stormwater infrastructure to reduce financial impacts of natural disasters





Milwaukee Metropolitan Sewerage District (MMSD)

MMSD implemented innovative strategies to reduce waste and enhance energy efficiency, aligning with its 2035 Vision to meet 100% of its energy needs with renewables

**Economic Value:** Cost savings of >\$1 million annually from renewable energy usage



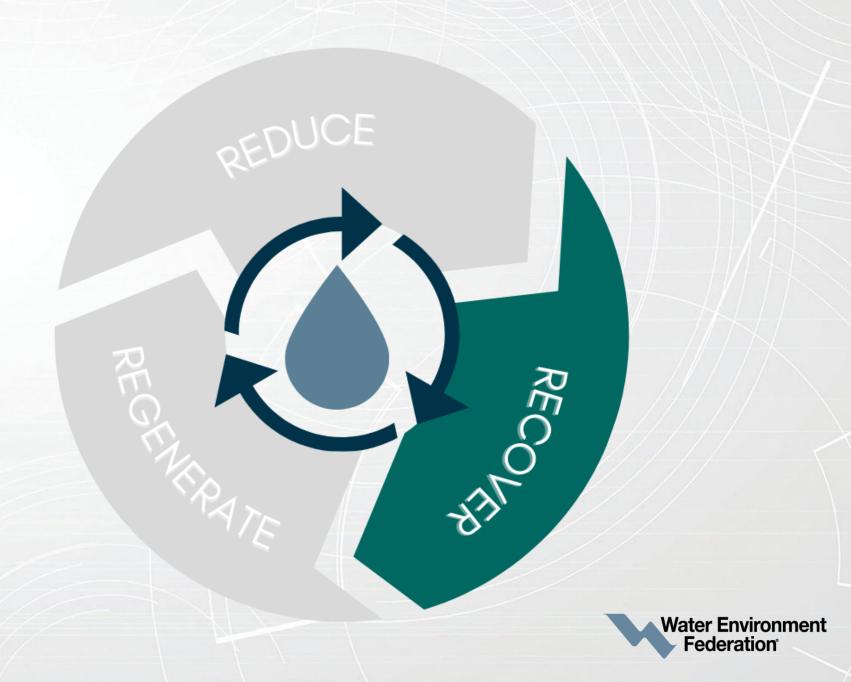
#### Recover

Convert waste that cannot be eliminated into valuable resources

**Water Reuse** – Using treated wastewater for agriculture, irrigation, and municipal purposes

Nutrients – Extracting valuable resources like nitrogen and phosphorus

**Energy** – Harnessing energy from wastewater



#### Loudoun Water

Loudoun Water in Virginia provided 815 million gallons of recycled water in 2023 for cooling data centers, conserving freshwater resources and reducing nutrient discharge into Potomac River and Chesapeake Bay.

Economic Value:
Cost savings of ~\$3.26 million
compared to potable water



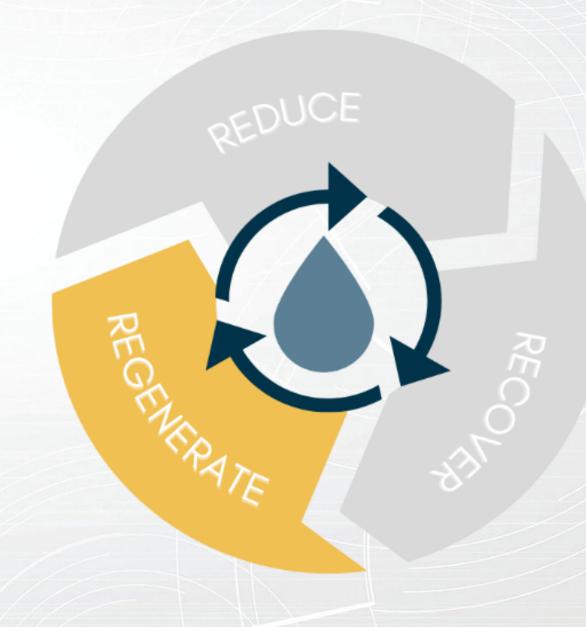
## Regenerate

Strengthening nature while using and treating water

Water Resource Management - Ensuring a rational and resilient approach to using water

Watershed Restoration – Protecting and revitalizing water sources

Nature-Based Solutions - Providing water services while delivering co-benefits for the environment





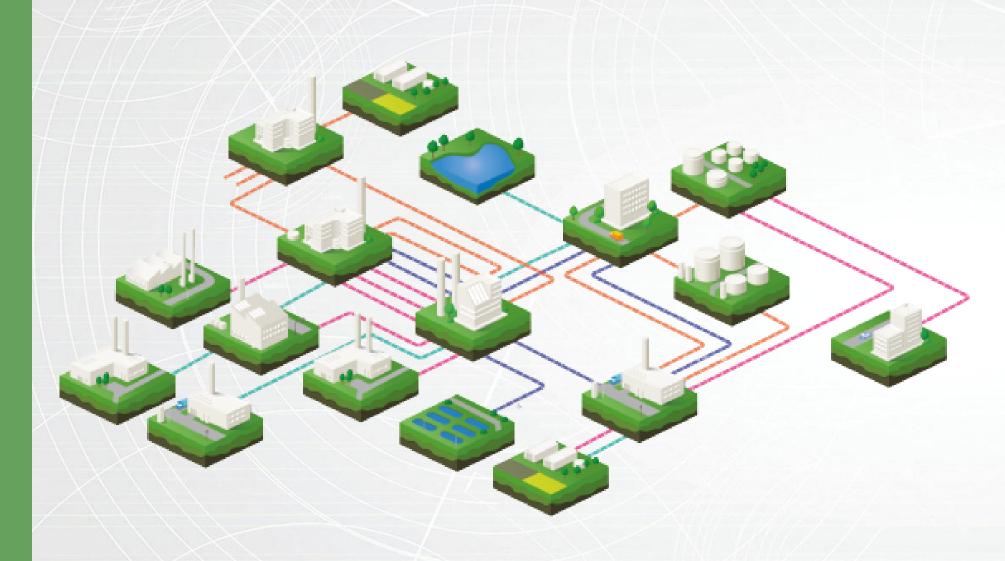
### Clean Water Services

Clean Water Services Fernhill Natural Treatment Systems use engineered wetlands to naturally treat water, restore habitats, enhance biodiversity, and improve water quality in the Tualatin River.

Economic Value:
Cost savings of ~\$18 million
compared to traditional
treatment system



# Kalundborg, the Platinum Standard for Circular Water



1 billion gallons of water saved

635,000 tons of greenhouse gases eliminated

100 gigawatt hours of energy saved

5,000 jobs created

Since inception, generated ~\$370 million in savings



## Get Involved Today

Join WEF in leading the transformation to the Circular Water Economy!

#### **LEARN**

Sign up for Circular Water Economy 101 Course

#### **ENGAGE**

Submit Circular Water
Economy case studies
Join a study tour
(2025: Denmark & Japan;
2026: Costa Rica)

#### **TRANSFORM**

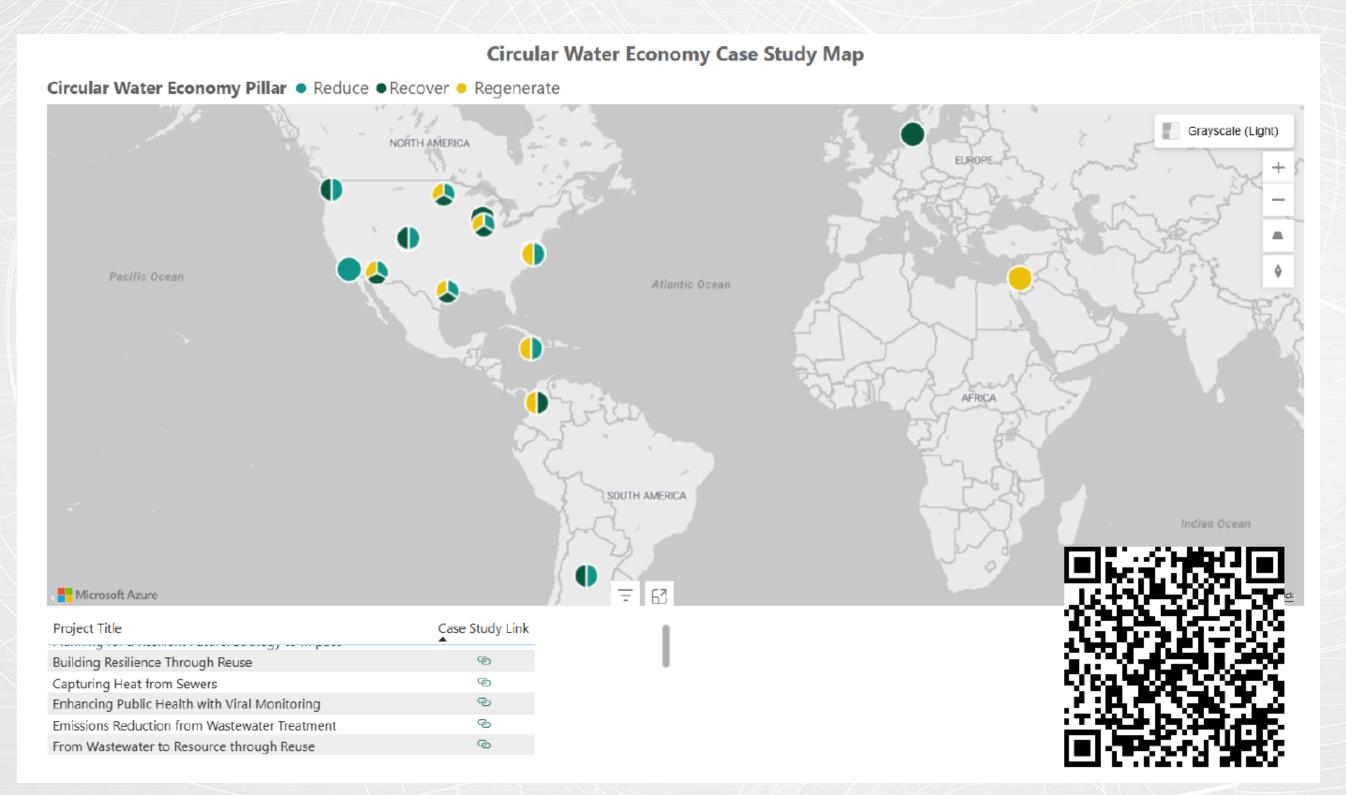
Become a WEF Circular Water

Ambassador by organizing

Workshop in a Box!



# Circular Water Economy Map





# Thank you!

