

One Water Planning Provides a Foundation for the Future

Cindy Wallis-Lage,
President, Black & Veatch Water

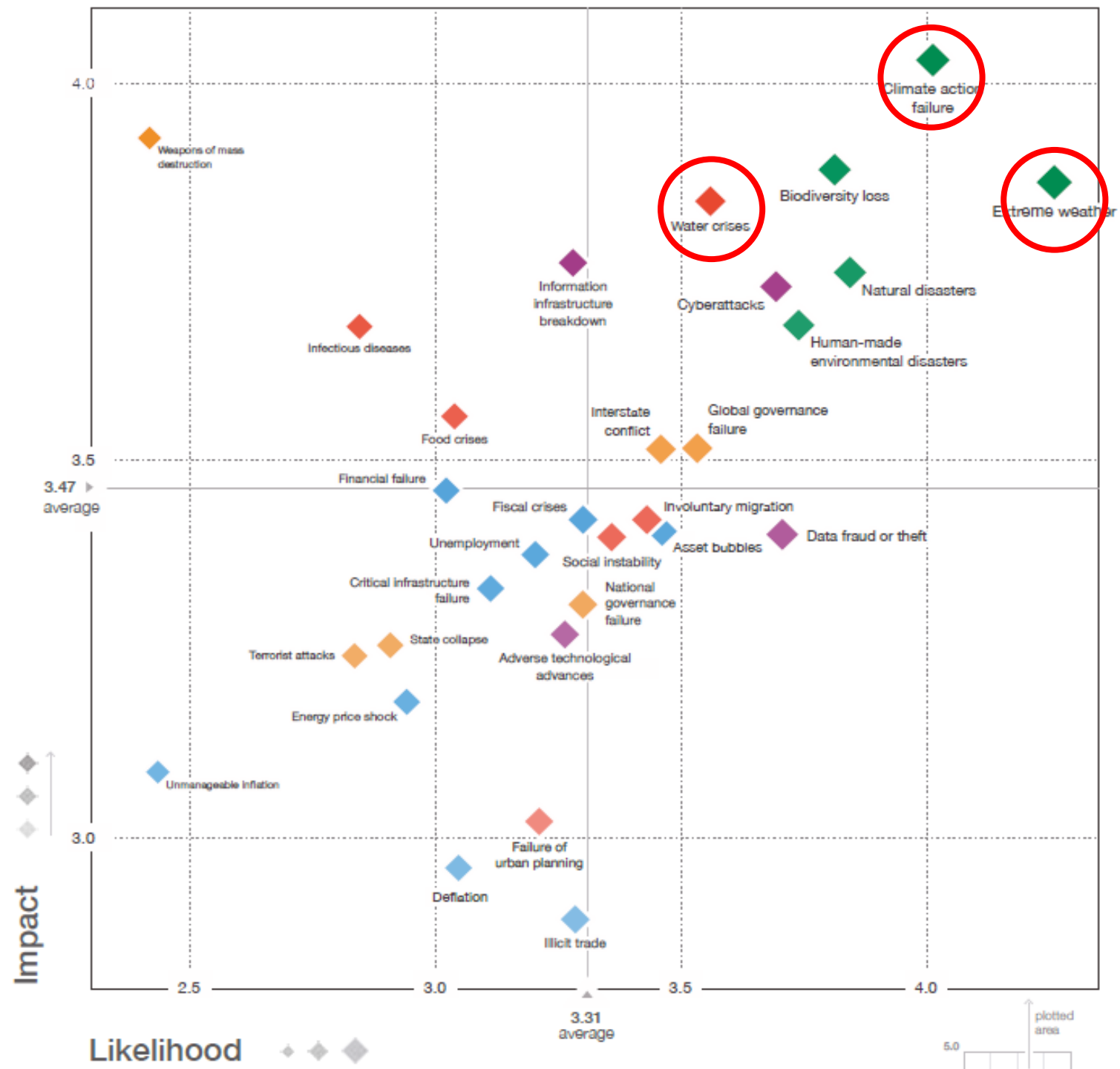
Houston TACWA | July 23, 2021



Water crisis consistently ranked in top 5 risk since 2012

Climate action failure and extreme weather are the No 1 and 2 risks

Source: World Economic Forum Global Risk Report 2020

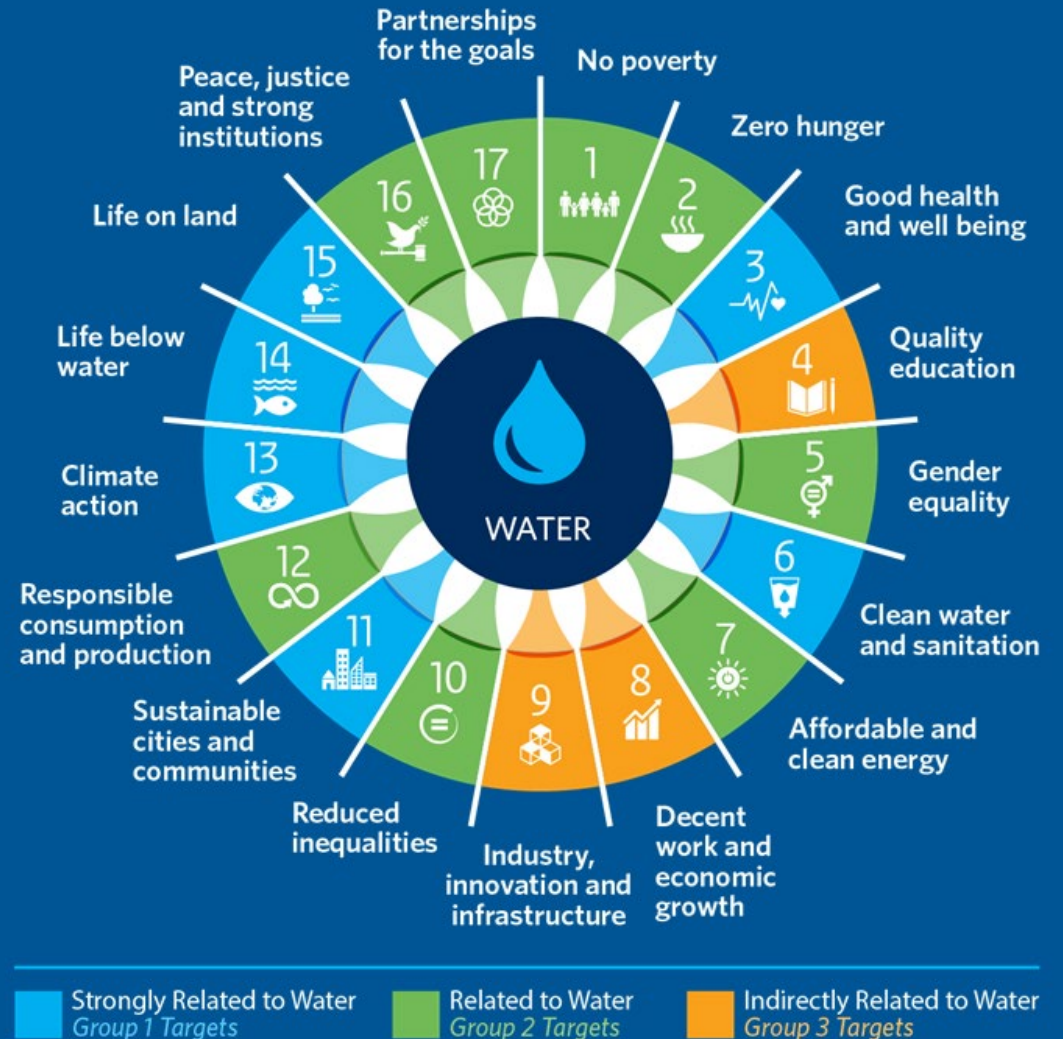


Water is Fundamental to All SDGs



THE GLOBAL GOALS For Sustainable Development

Courtesy daily-sun.com



What is One Water?

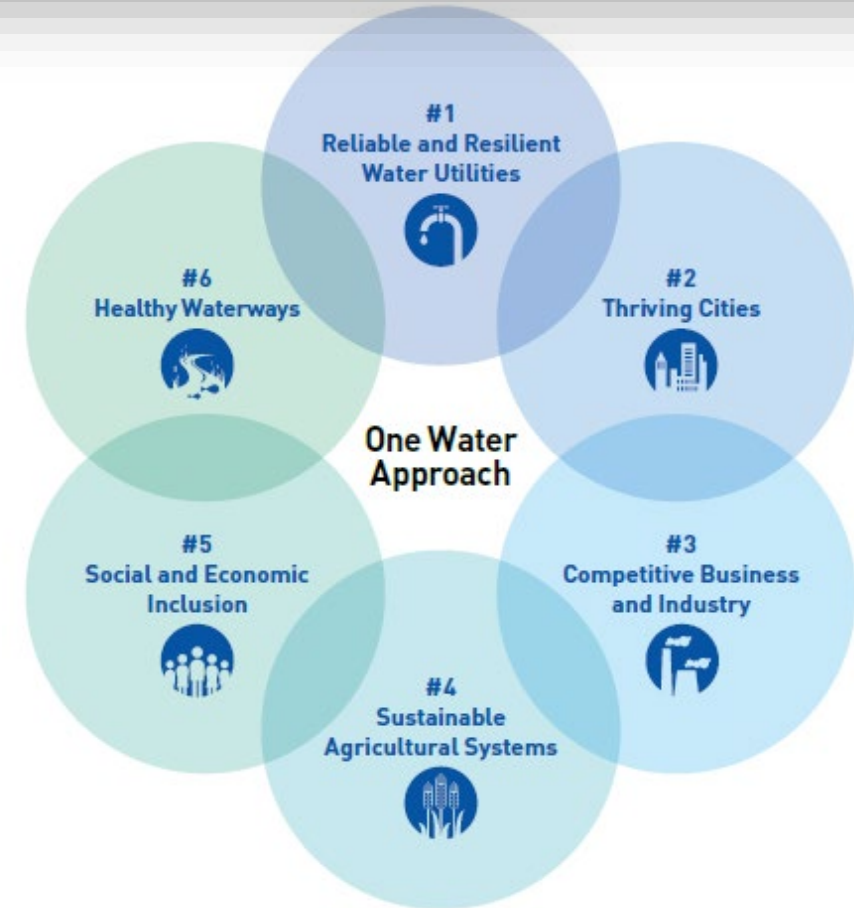


One Water values the entire drop and recognizes all water as a resource.

One Water Approach



The One Water approach recognizes that water must be managed in ways that respect and respond to the natural flows of watersheds and the natural ecosystem, geology, and hydrology of an area.



US Water Alliance, One Water Roadmap, 2017
<http://uswateralliance.org/sites/uswateralliance.org/files/publications/Roadmap%20FINAL.pdf>

Integrated Water Planning

Holistic view to avoid unintended consequences and maximize value.



Economic Impact: Attract, Retain, Grow







RESILIENCE

STRATEGIC | FINANCIAL | OPERATIONAL

A scenic view of a city park. In the foreground, a large fountain with several jets of water is active. A lake in the middle ground has several people on paddleboats. The background features a city skyline with various skyscrapers, including a prominent one with a rounded top. The sky is overcast with soft light. The text 'SUSTAINABLE COMMUNITY' is overlaid on the left side in large white letters, with 'WHERE PEOPLE WANT TO WORK AND LIVE' below it in smaller white letters.

SUSTAINABLE COMMUNITY

WHERE PEOPLE WANT TO WORK AND LIVE

TEXAS VULNERABILITIES

Population Growth



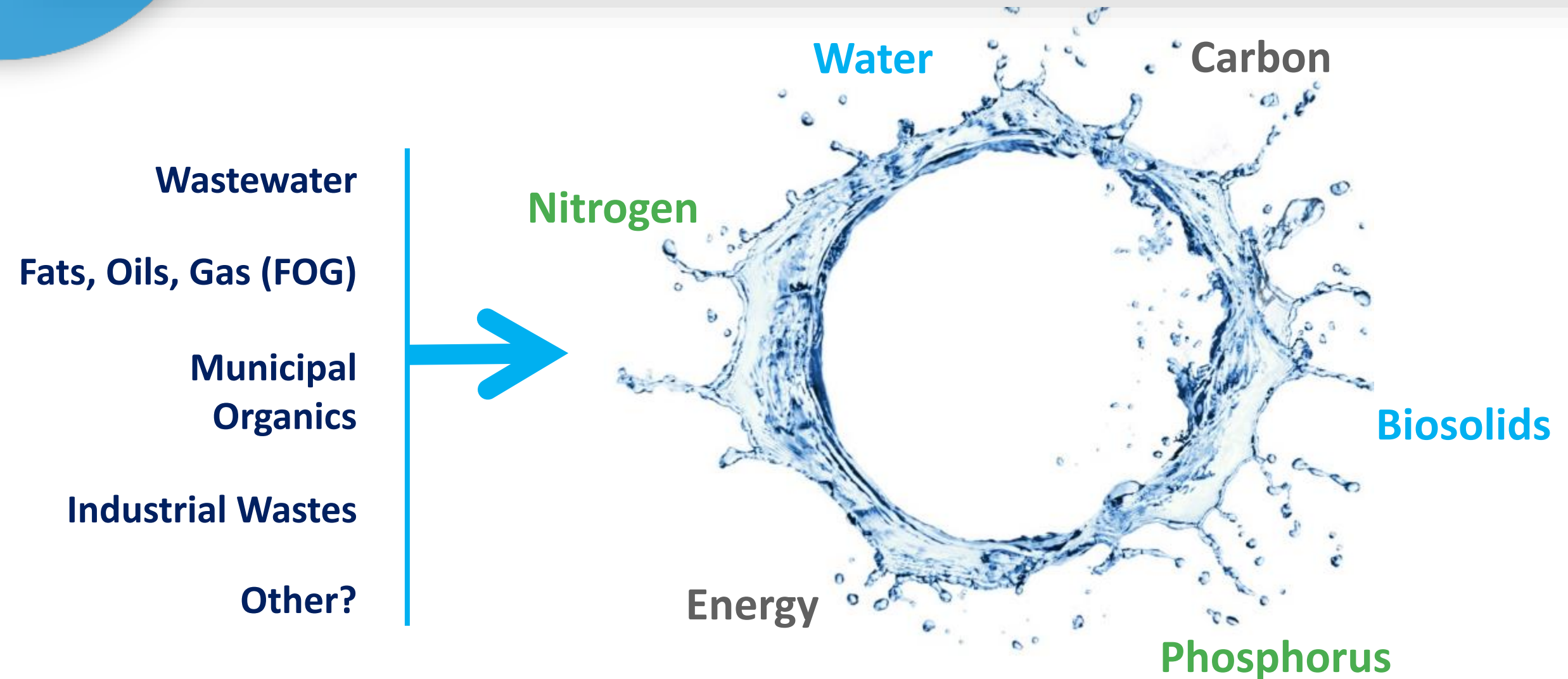
Extreme Weather Events



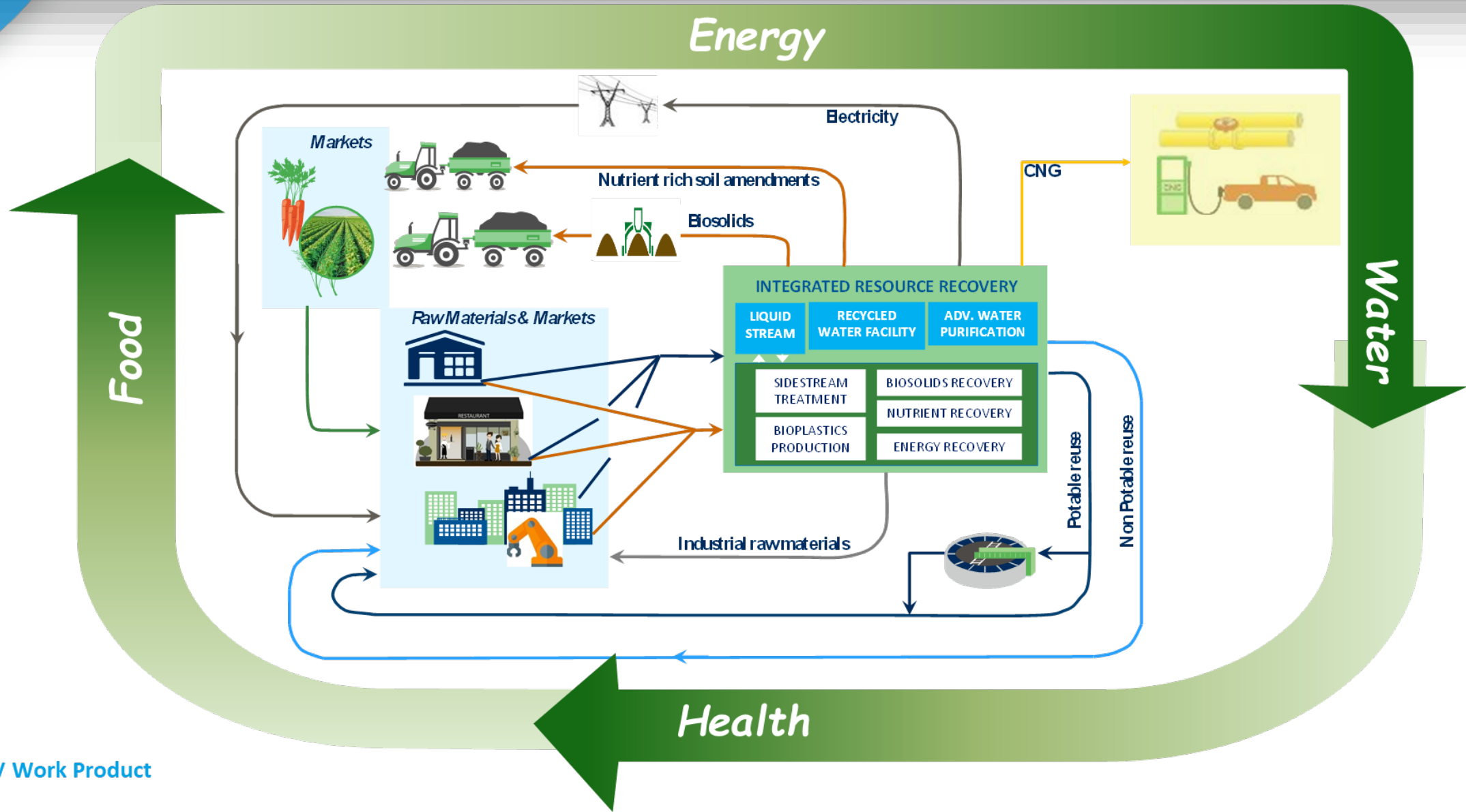
Texas' One Water Transformation



One Water Concepts for Wastewater Planning



Sustainable, Resilient Communities Require a Systems-Thinking Approach



Community Benefits from One Water Mindset



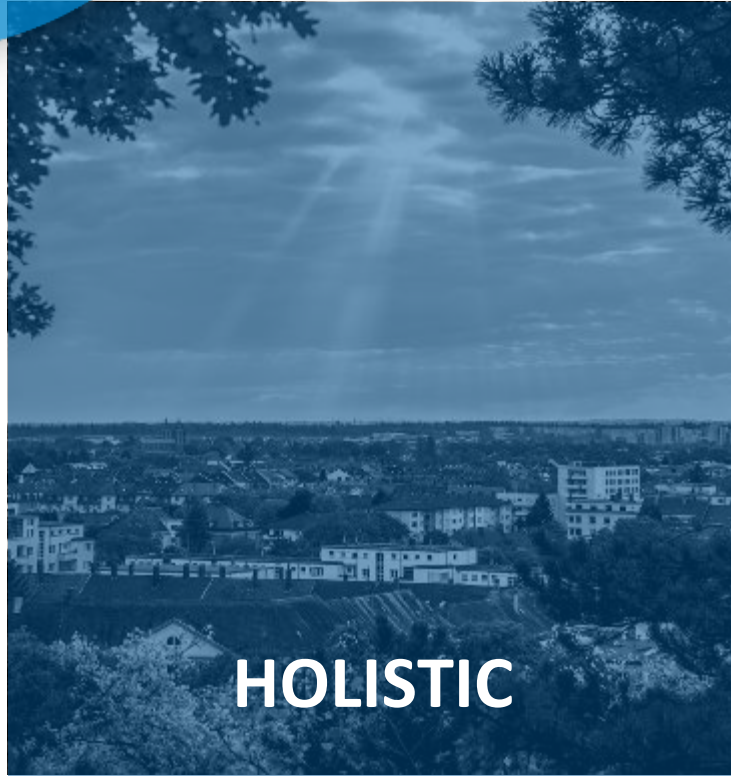
- Water security
- Jobs/opportunities
- Recreation
- Healthy economy
- Ecological benefit
- Social/environmental equality
- Industry
- Agriculture

RETHINK WATER

VISION + INNOVATION



Future Demands Require Different Roadmap



HOLISTIC



Water planning for **resiliency** with big picture viewpoint.



TRANSFORMATIONAL



Evolving the way we operate to create **sustainable** businesses.



INTEGRATED



Coordination with business, industry, citizens. **Value of water.**

“Once we rid ourselves of traditional thinking we can get on with creating the future.”

JAMES BERTRAND

Discussion.

**Building
a World of
Difference.®**



Contact Us

Cindy Wallis-Lage
President, Water Business
Black & Veatch

Wallis-LageCL@bv.com
+1 913-458-3603

www.BV.com