

# Thank you

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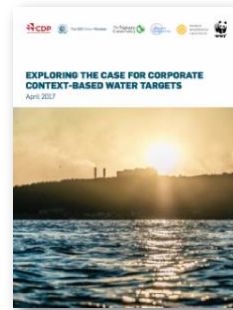
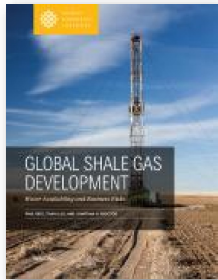
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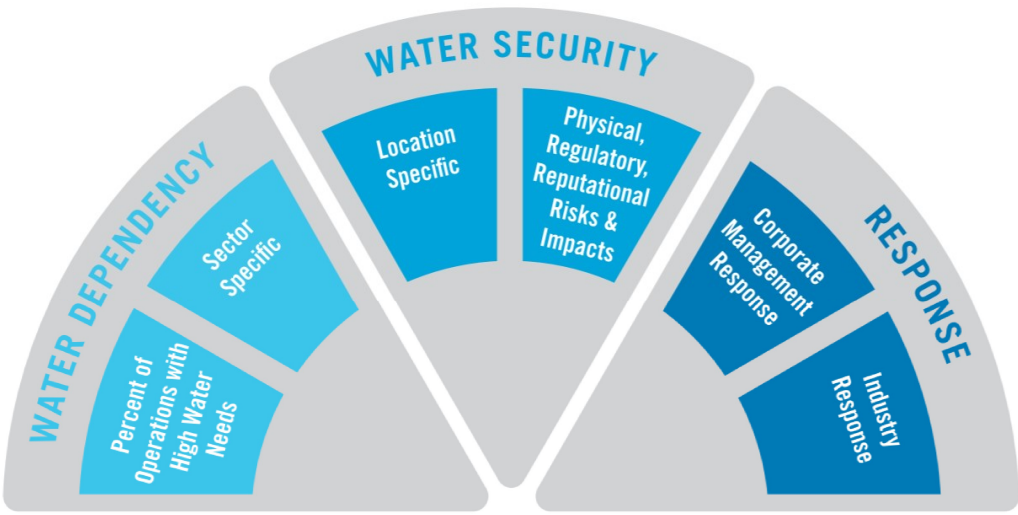
# Leveraging tools, data and insights to address water scarcity

Paul Reig, WRI | World Water Week | September 2017

# INTRODUCTION



# CORPORATE WATER RISK



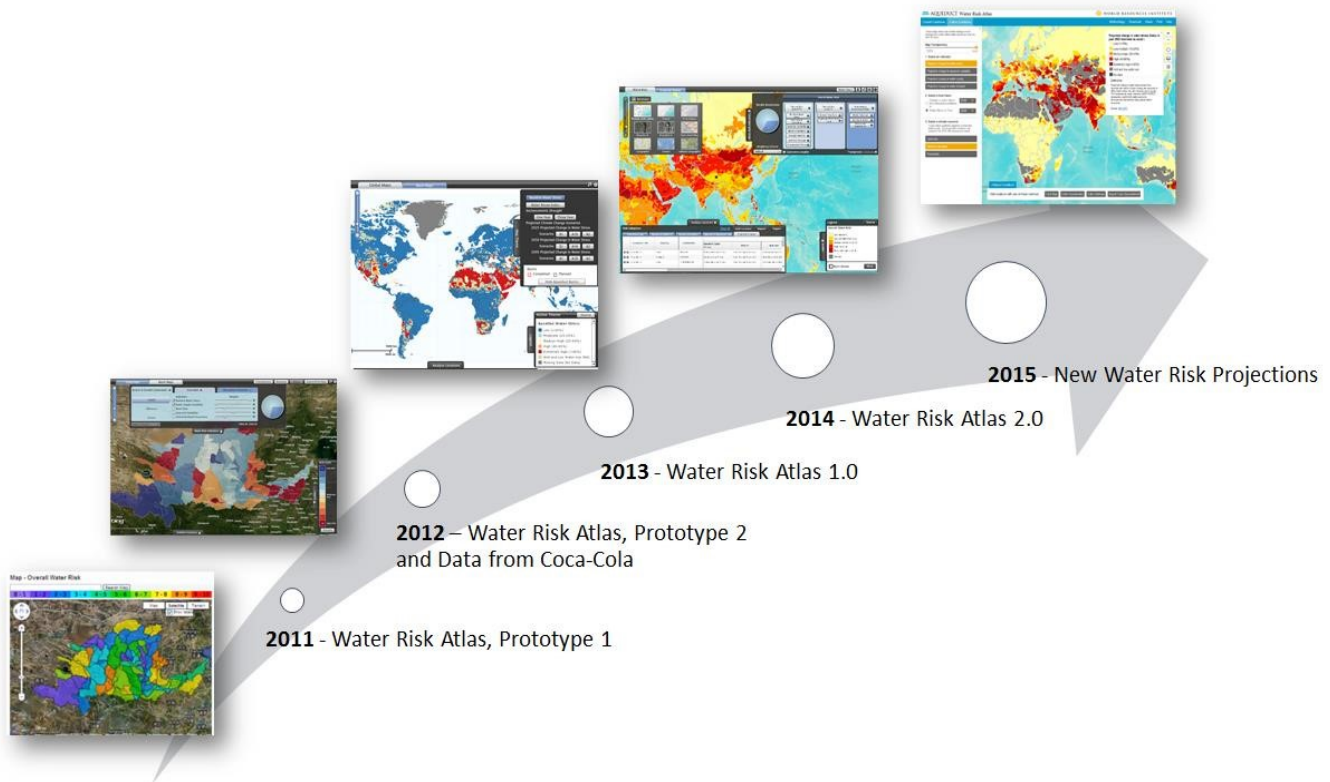
Corporate Water Risk Dashboard

Source: Ceres (2015) Investor Handbook for Water Risk Integration  
<https://riacanada.ca/wp-content/uploads/2015/04/Ceres-Investor-Water-Handbook.pdf>

# UNDERSTANDING WATERSHED CONTEXT



# AQUEDUCT WATER RISK ATLAS



MAP VIEW ANALYZE LOCATIONS

Timeframe ?

Baseline 2020 2030 2040

Time scale ?

Annual

Geographic Scale ?

Global

Indicators

OVERALL WATER RISK

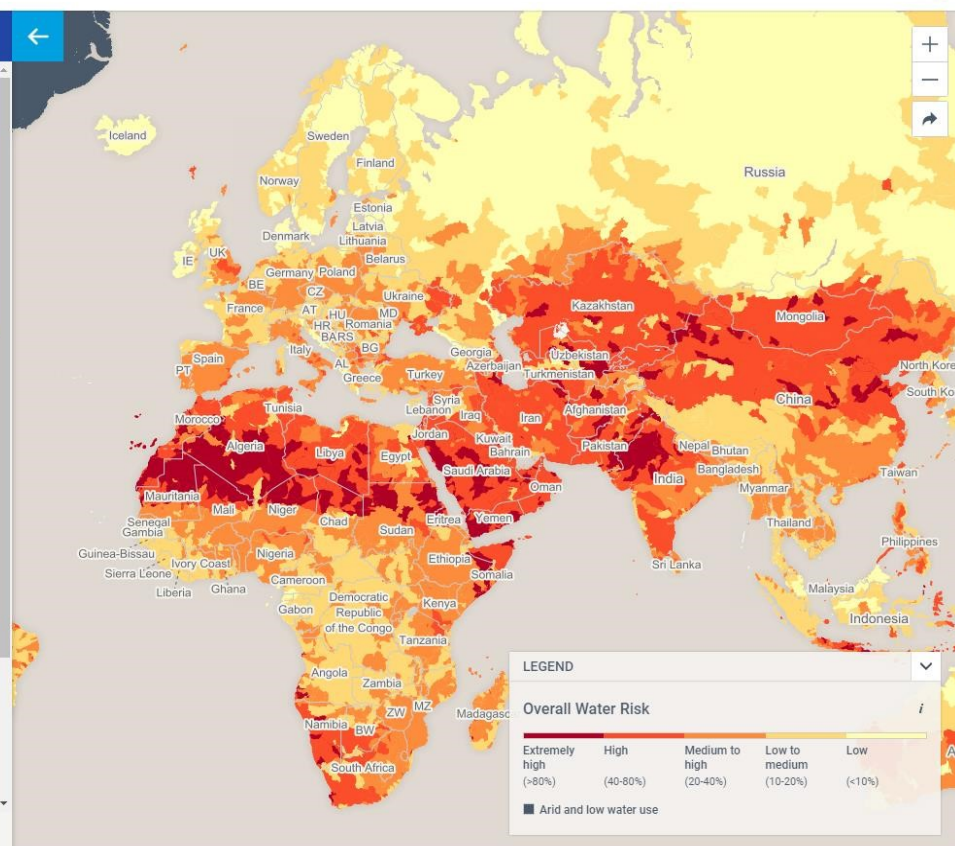
PHYSICAL RISK QUANTITY

- Baseline water stress
- Interannual Variability
- Seasonal Variability
- Flood Occurrence
- Drought Severity
- Upstream Storage
- Groundwater Stress

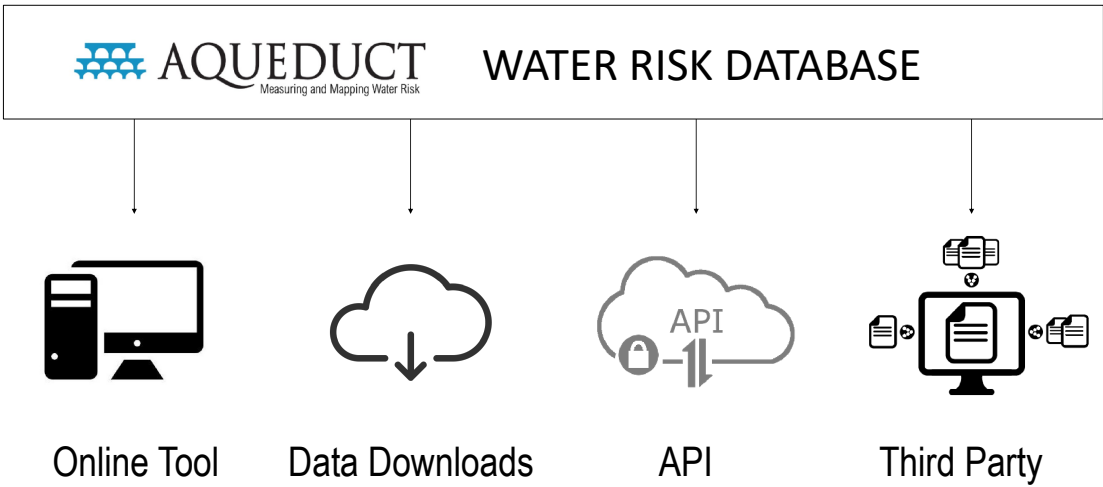
PHYSICAL RISK QUALITY

- Return Flow Ratio
- Upstream Protected Land

Change Indicators and Weightings







# Bloomberg

Load Complete

1) Actions 2) Clear

4) Map 5) Data

### Bloomberg Commodity Maps

>> Menu Search & Results

Search Mines

Show All Assets

7) Results By Asset Type

Coal Mine (1,786)

**Legend:**

- Extremely High Risk (4-5)
- High Risk (3-4)
- Medium to High (2-3)
- Low to Medium (1-2)
- No Data
- Low Risk (0-1)
- Coal Mine

Australia 61 2 9777 8600 Brazil 5511 3048 4500 Europe 44 20 7330 7500 Germany 49 69 9204 1210 Hong Kong 852 2977 6000  
Japan 81 3 3201 8900 Singapore 65 6212 1000 U.S. 1 212 318 2000 Copyright 2014 Bloomberg Finance L.P.  
SN 281591 EDT GMT-4:00 H453-2512-1 30-Sep-2014 13:28:38

Michael Smith  
Modern Bottler

PROFILE | LOGOUT

## Risk Analysis

This Water Risk Analysis charts a company's enterprise risk profile by assessing each facility's risk based on three year projected output growth and location-specific water stress and assigns action plans for facilities based on risk likelihood. This analysis provides a way for business leaders to prioritize and determine appropriate risk mitigation strategies for each location in order to reduce a company's overall risk profile.

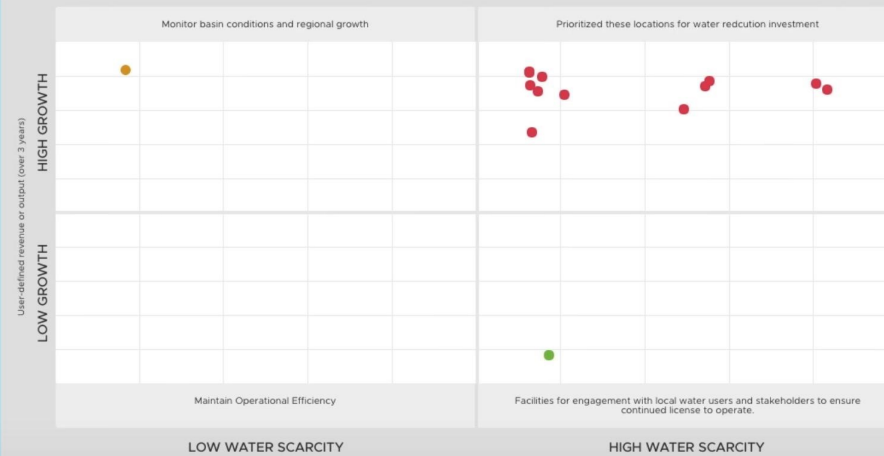
The following steps can be used to develop a successful corporate water strategy.

1. Establish a water management plan and goals that are aligned with overarching business and sustainability strategies
2. Assess and monetize business risks based on a holistic understanding of what water means to your business
3. Prioritize actions based on site-specific risk
4. Identify opportunities to minimize water risk, maximize performance results and optimize costs (reduce, reuse and recycle)
5. Execute water management plan using a "plan-do-check-act" cycle

Filter By:

ALL COUNTRIES ALL LABELS ALL FOLDERS

Showing 14 of 14 facilities



### Facility Ranked by Section

HIGH WATER SCARCITY/HIGH GROWTH

12 of 14 Facilities

- LOS ANGELES SOFT DRINK MANUFACTURER >
- LONDON SOFT DRINK MANUFACTURER >
- NEW DELHI SOFT DRINK MANUFACTURER >
- MEMPHIS SOFT DRINK MANUFACTURER >
- SAO PAULO SOFT DRINK MANUFACTURER >
- NASHVILLE SOFT DRINK MANUFACTURER >
- LAS VEGAS SOFT DRINK MANUFACTURER >
- SALT LAKE CITY SOFT DRINK MANUFACTURER >
- CHENGDU SOFT DRINK MANUFACTURER >

HIGH WATER SCARCITY/LOW GROWTH >

LOW WATER SCARCITY/HIGH GROWTH >

- FACILITY DASHBOARD
- FACILITY FOLDERS
- RISK ANALYSIS
- GENERATE REPORT
- ADD NEW FACILITY
- UPLOAD MULTIPLE FACILITIES
- HELP

## WATER RISK TOOLS AND DATA



### **Enable:**

- Comparability and prioritization
- Science and data-driven decision-making
- Communication and engagement with non-technical audiences

### **Address water scarcity by :**

- Highlighting the shared nature of water challenges
- Aligning organizational performance with external context
- Driving investments towards areas most in need



Ongoing developments to the Aqueduct Water Risk Atlas are possible thanks to the financial support of:



Ministry of Infrastructure and the Environment



Ministry of Foreign Affairs of the Netherlands





WORLD  
RESOURCES  
INSTITUTE

For additional information, please contact:

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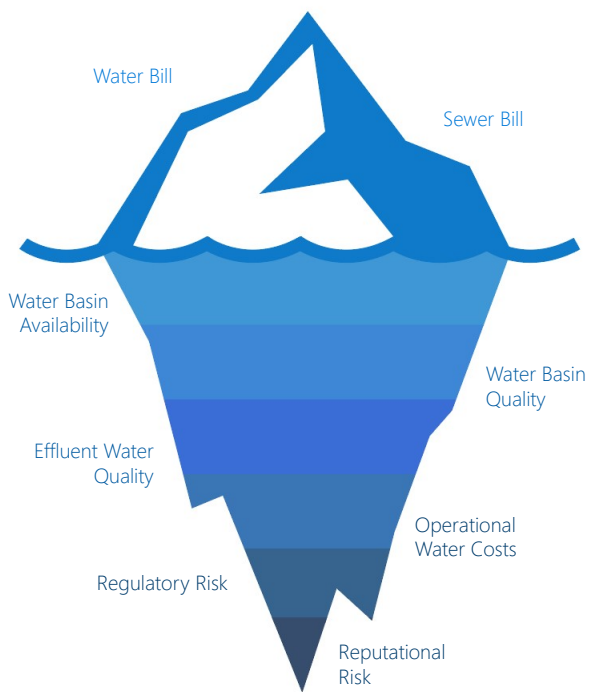


## Water Stewardship Program

Josh Henretig  
Senior Director, Environmental Sustainability

*"We know that water is becoming a serious challenge, that requires a global response from all sectors of society."*

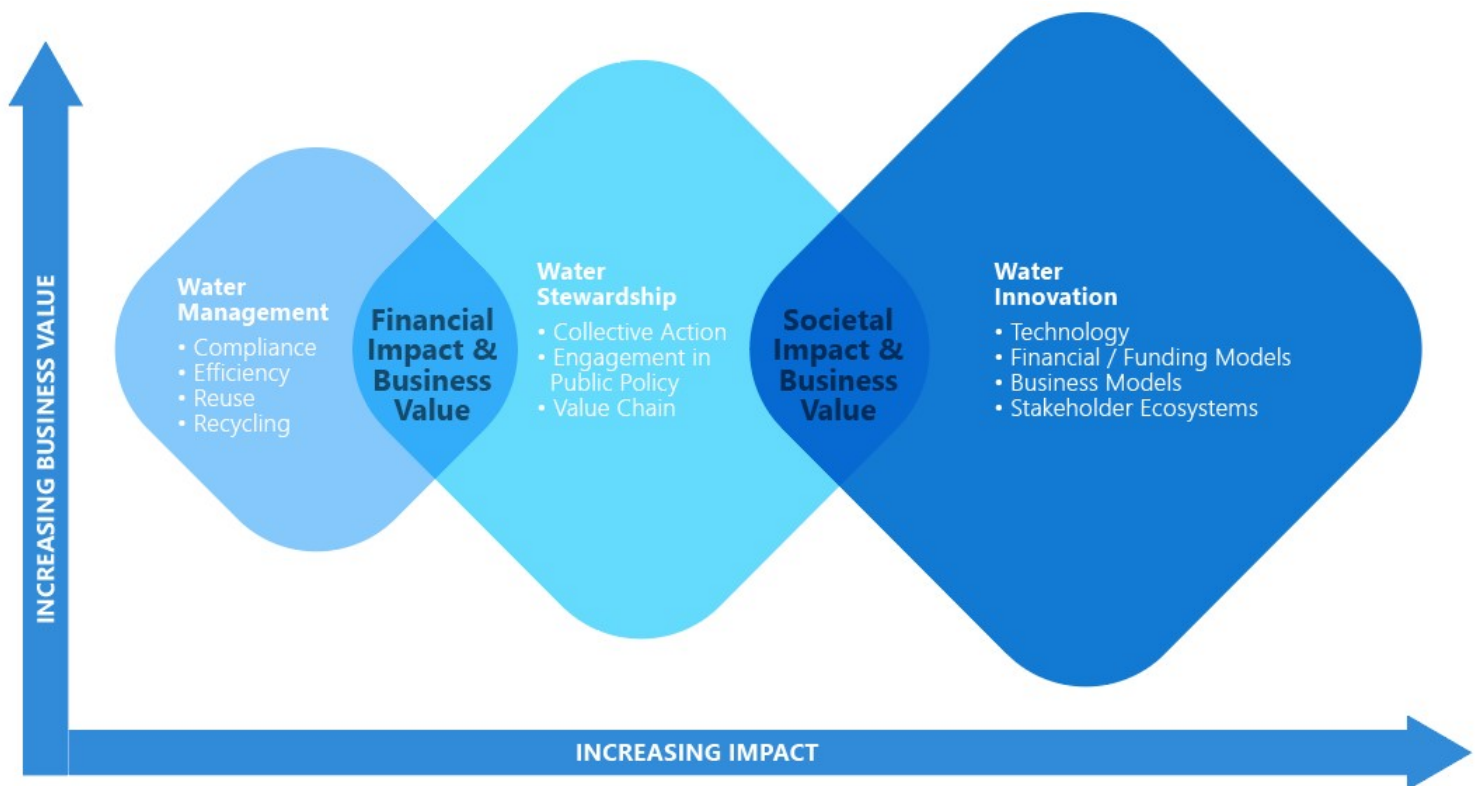
~Microsoft, 2016 CDP Water Response



**Companies need to understand the full value of water to their operations.**

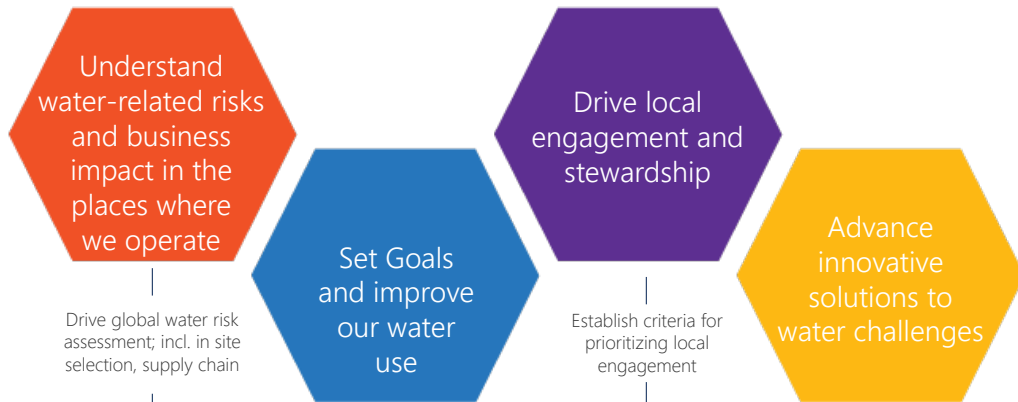


## Creating Value Beyond Brand Stewardship



*Credit - Water Foundry, LLC 2017 All Rights Reserved*

**Objectives**  
Address identified gaps and align with mission and vision



**Tactics**  
To support objectives, mission, vision

Drive global water risk assessment; incl. in site selection, supply chain

Identify hot spots for water risks

Develop plans to address identified water risks

Implement water risk mitigation measures

Increase data collection and understand total cost of water

Set goals to manage water

Motivate individuals to prioritize water performance

Improve water productivity

Establish criteria for prioritizing local engagement

Develop local engagement / stewardship plans

Implement and validate local engagement / stewardship plans

Identify and align with relevant water stewardship standards

Identify opportunities for technology innovation

Establish demonstration pilot projects

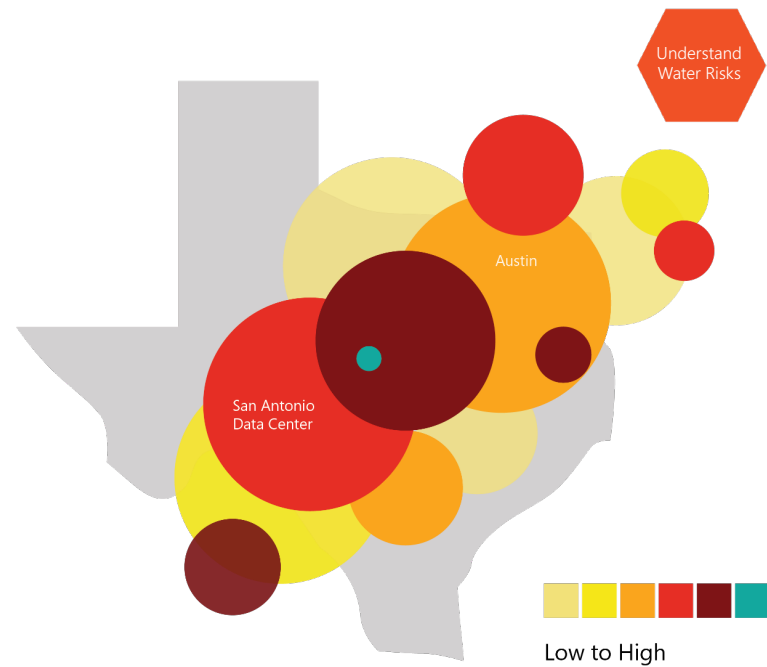
Share best practices and evaluate scalability

Identify commercialization opportunities

**Underpinnings**

Activities that support decision-making and implementation

Governance, best practices, reporting, internal education, external communications



- Risk adjusted price = **11x**
- **\$140,000** in water cost savings
- Avoided **60 million** gallons of potable water per year by shifting to recycled water



Set Goals

# Increasing the quality and quantity of water data