

This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



The Case for Fixing the Leaks:

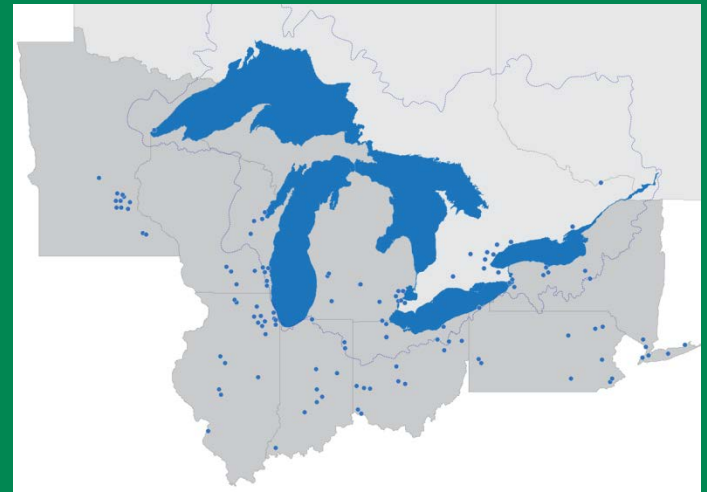
Winning the Public Argument for Investing in Water Infrastructure

Danielle Gallet

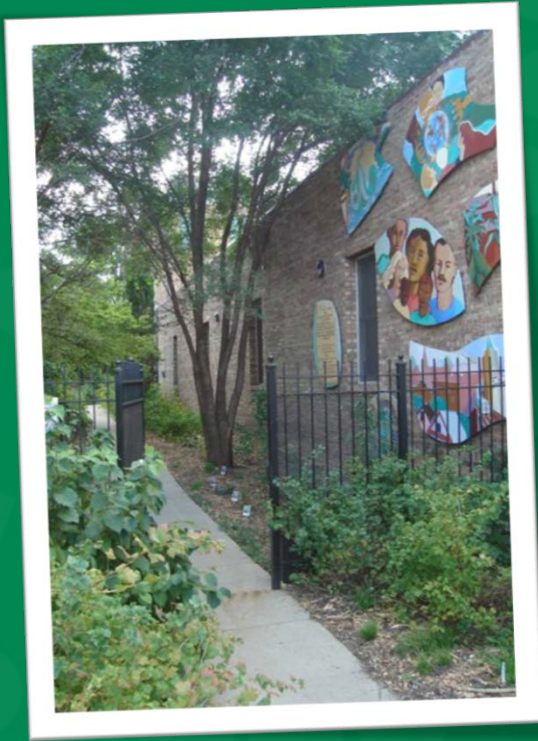
Infrastructure Strategist & Water Supply Program Manager

The Center for Neighborhood Technology

WaterSmart Innovations 2013

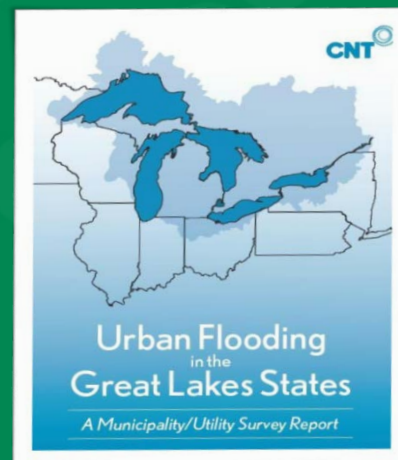
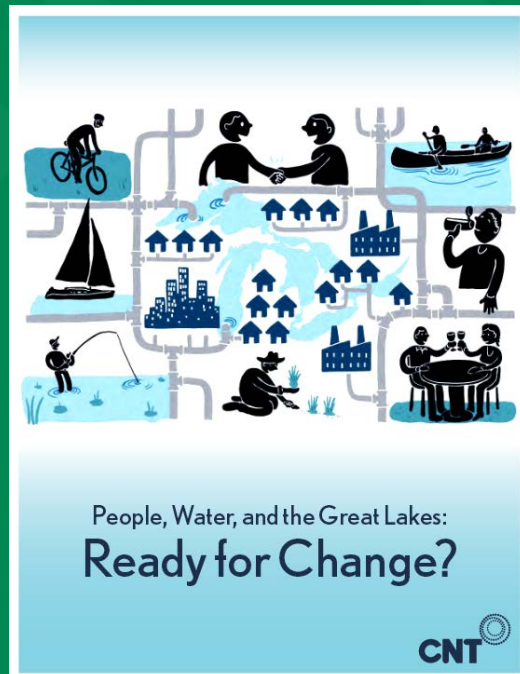
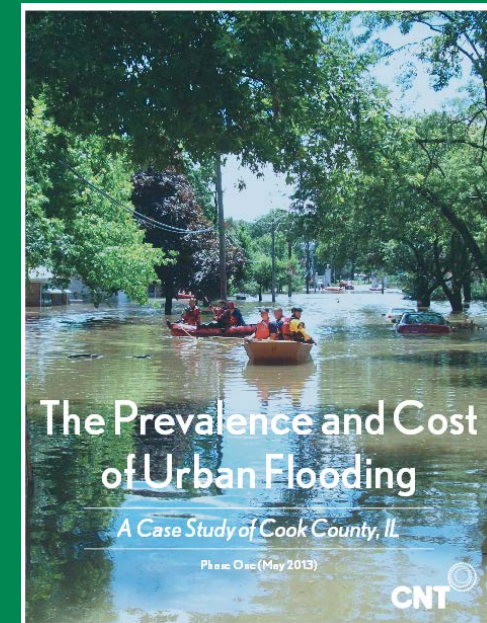
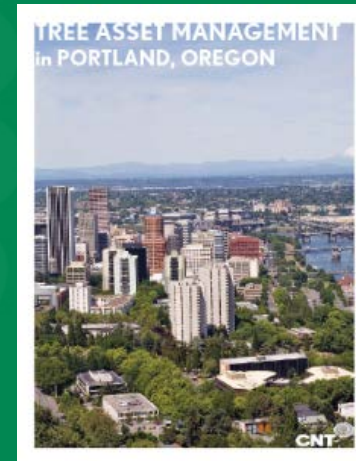
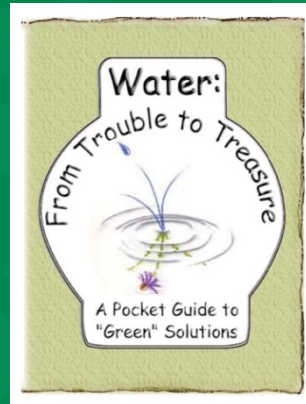
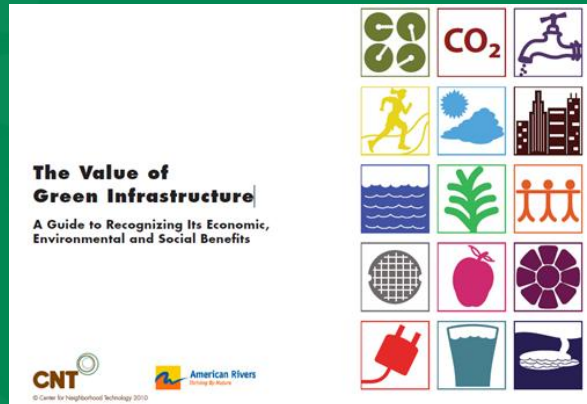


Center for Neighborhood Technology (CNT)



- National Non-Profit
- Areas of Focus:
 - Transportation, Energy, Climate Change & Water
- Working with Communities on Urban Sustainability:
 - Data & Research
 - Tools & Transparency
 - Collaboration
 - Policy Advocacy

CNT Water Program



Smart Water for Smart Regions



The Great Lakes States are our testing ground for shaping the decisions of cities across the United States

National Partners



Funders

TheJoyceFoundation



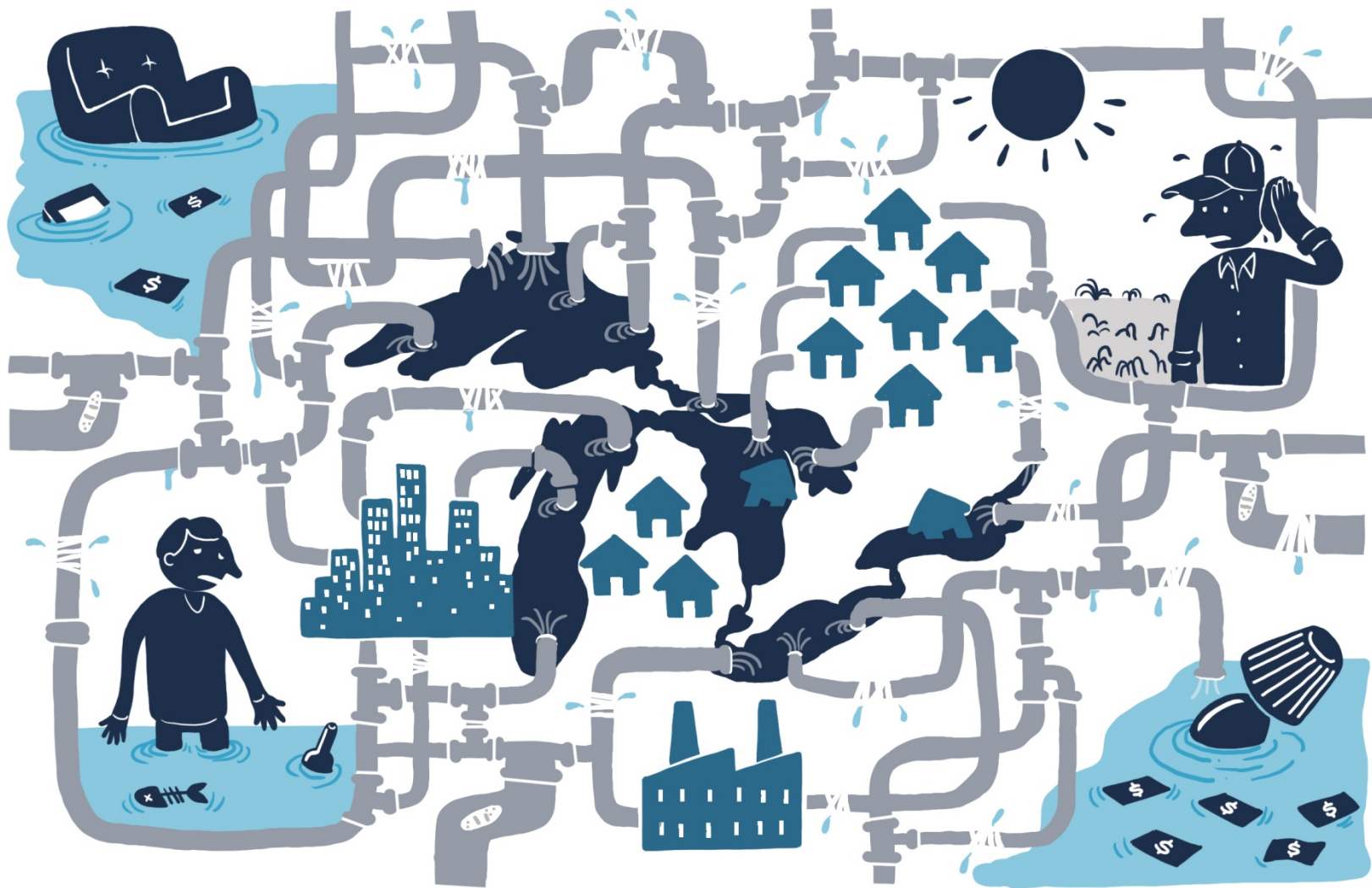
SURDNA FOUNDATION



**GRAND VICTORIA
FOUNDATION**

PRINCE CHARITABLE TRUSTS

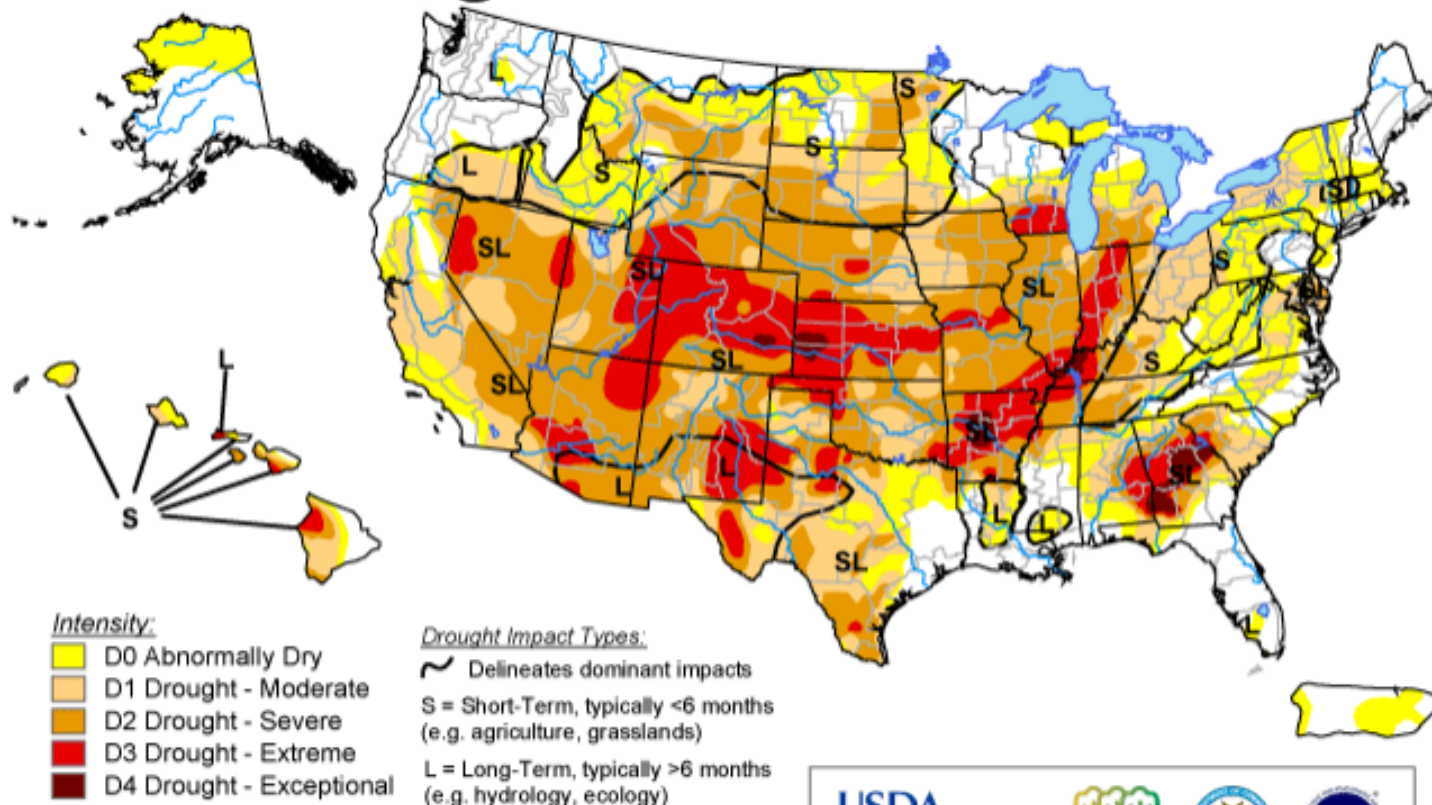
The Problem



Drought

U.S. Drought Monitor

July 17, 2012
Valid 7 a.m. EDT



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu/>



Released Thursday, July 19, 2012

Author: Richard Heim/Liz Love-Brotak, NOAA/NESDIS/NCDC

Urban Flooding

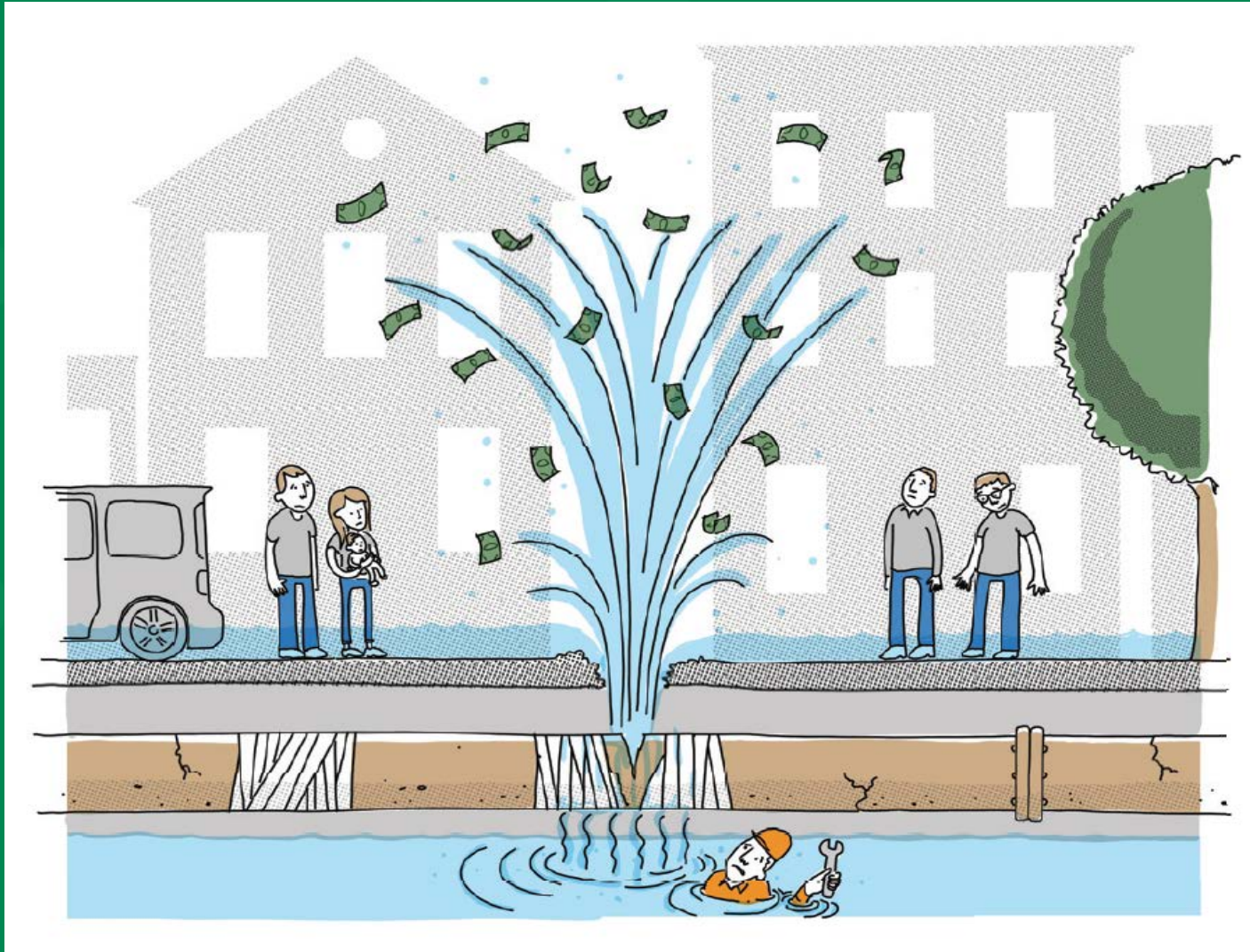


Water Infrastructure Crisis

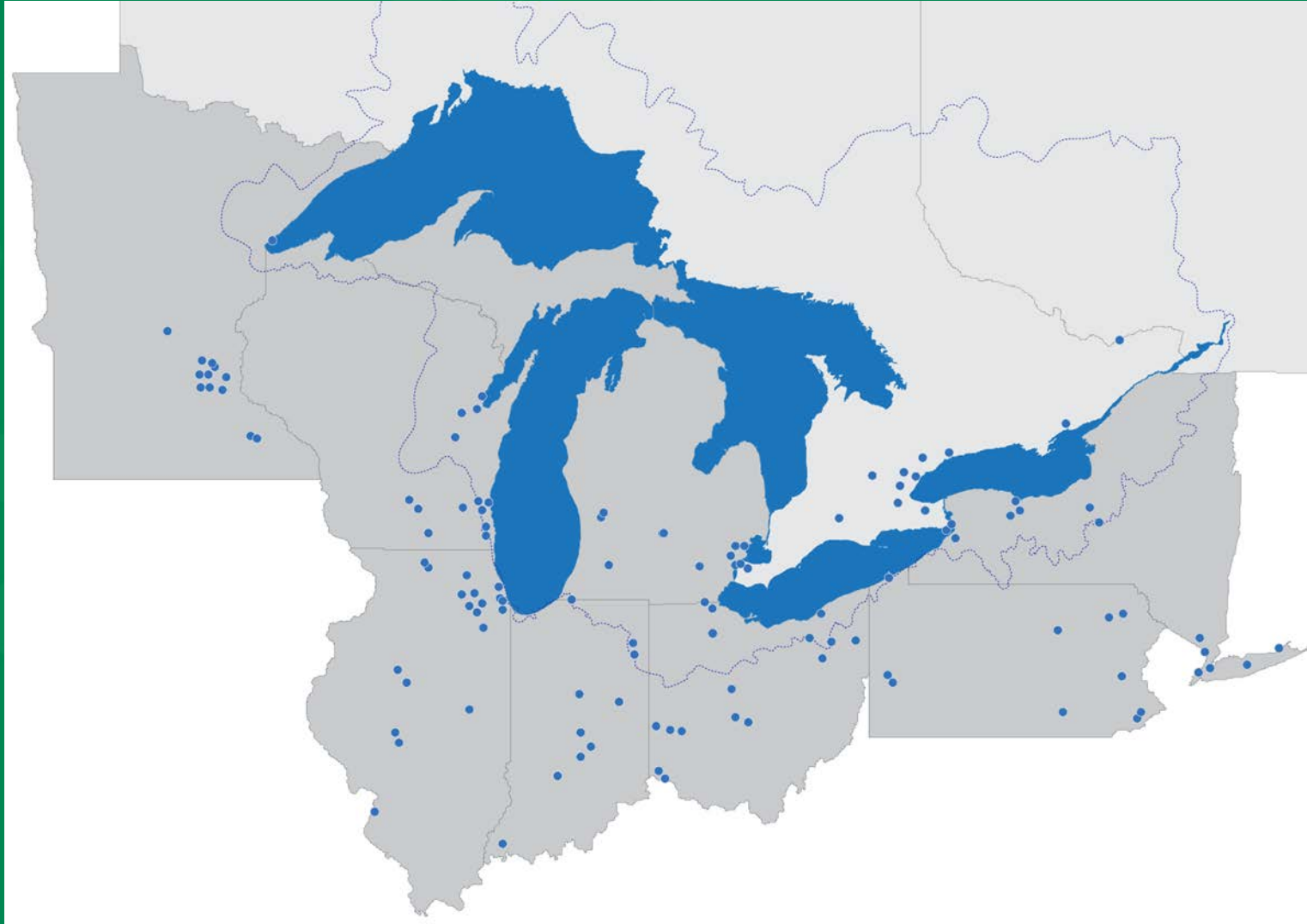


Water Loss Initiative

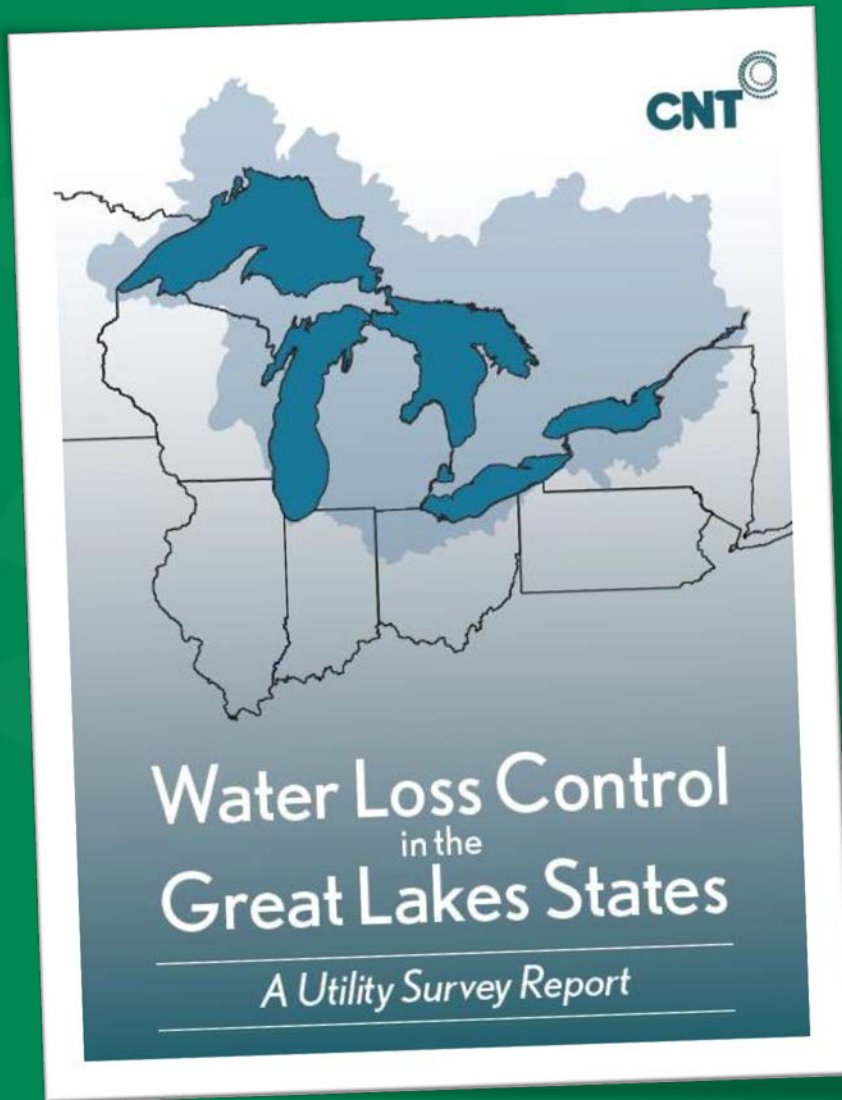
(The Case for Fixing the Leaks)



1. RESEARCH



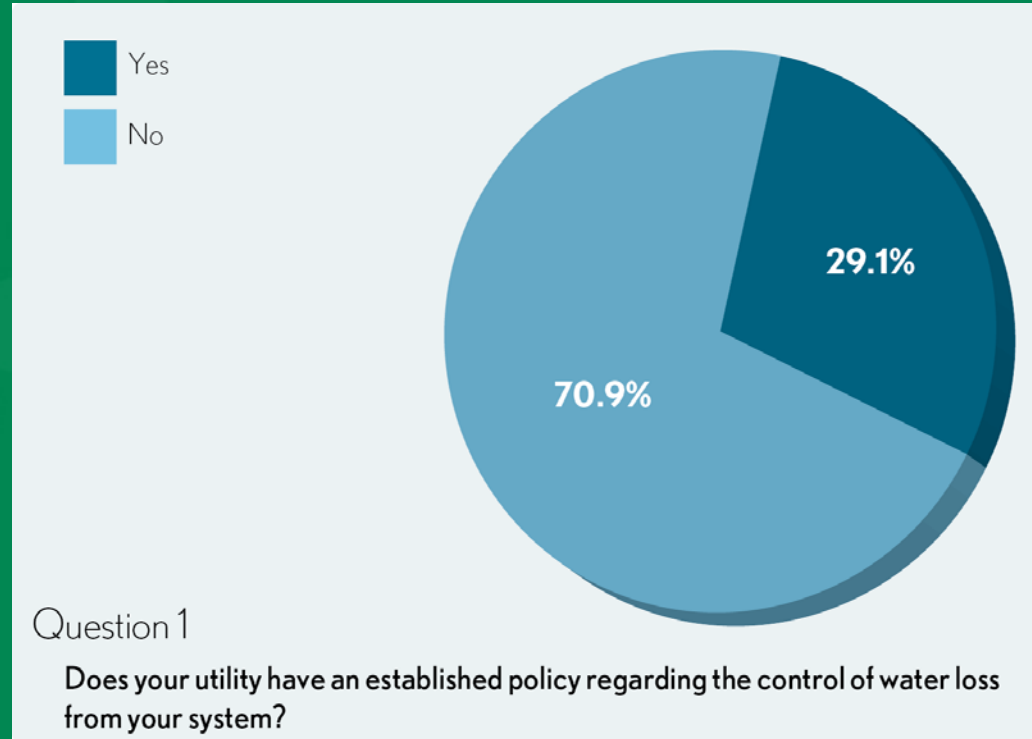
Utility Survey



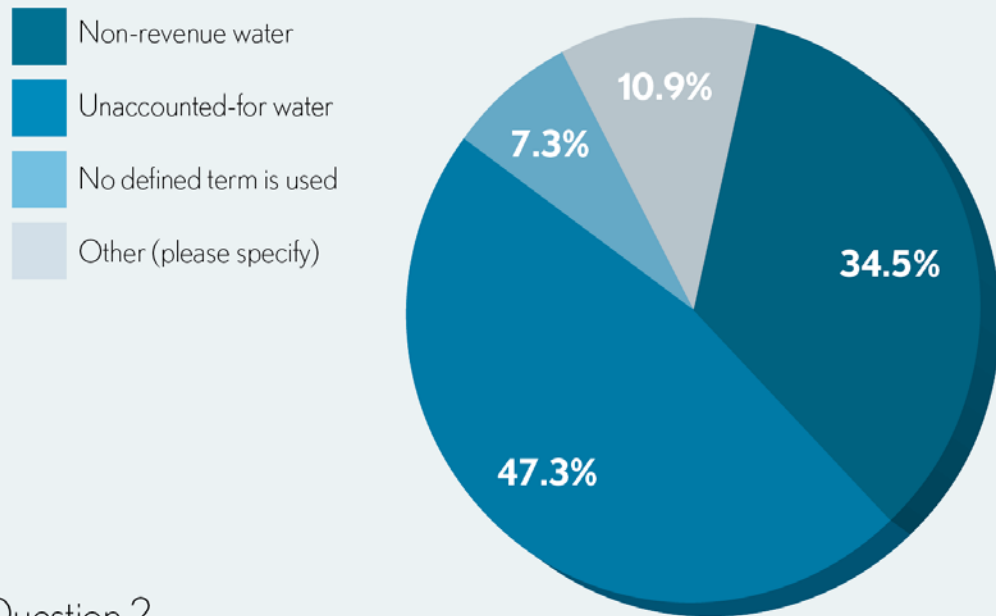
- 80 water supply utilities
- 10 largest in each Great Lakes state
- 68% response rate
- 500 municipalities
- 9.8 million people
- Over 63,000 miles of pipe

Survey Findings

- Pipes average 50 years old
- 71% have no policy
- 60% perform regular water loss audits



Survey Findings (Cont.)

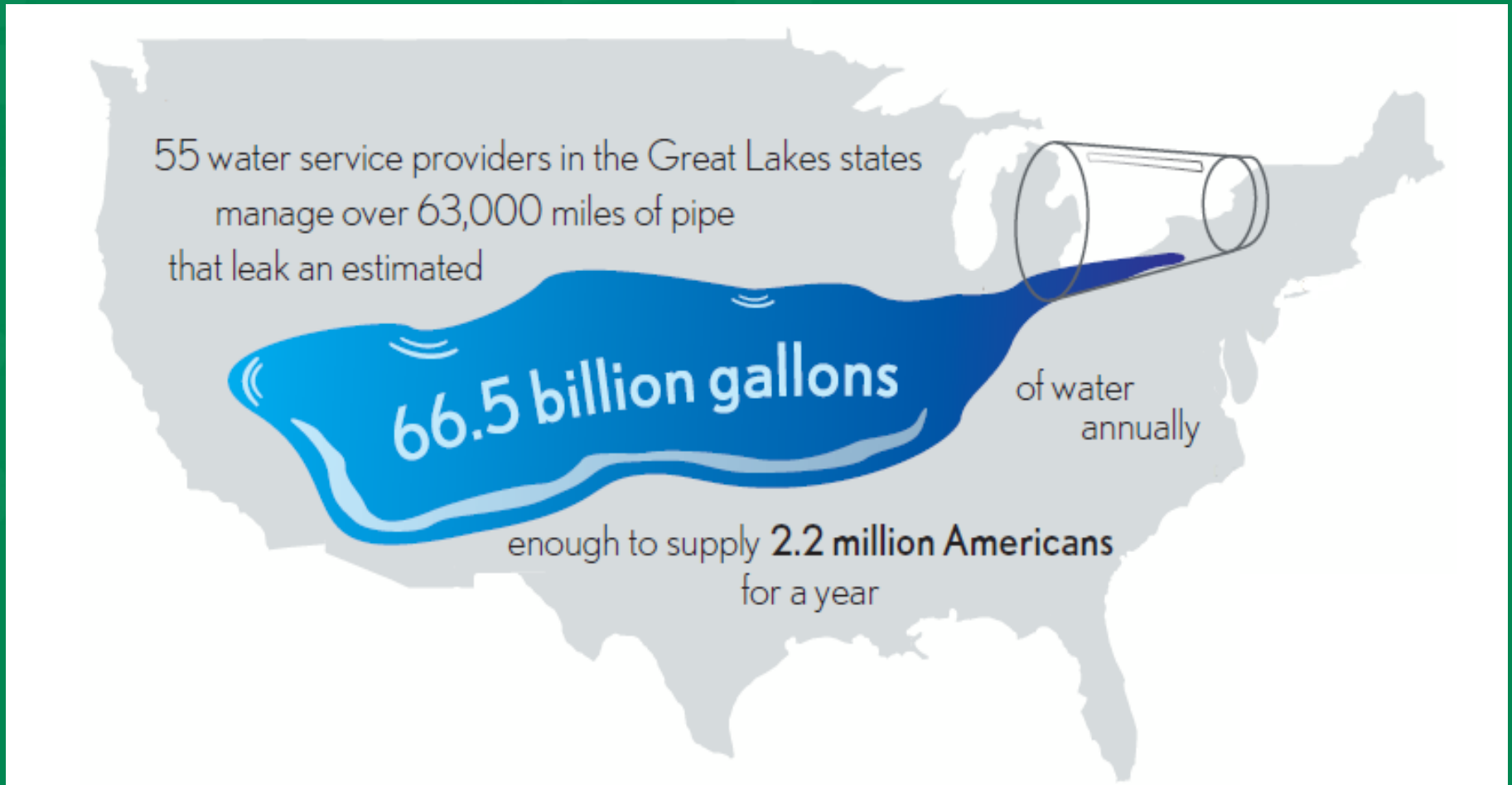


Question 2

Does your utility have a defined term to describe water loss from your system?

- Over 50% have no goal or benchmark
- 67% do not publicly report conditions
- Less than 4% receive State support
- Mix of definitions

Survey Findings (Cont.)

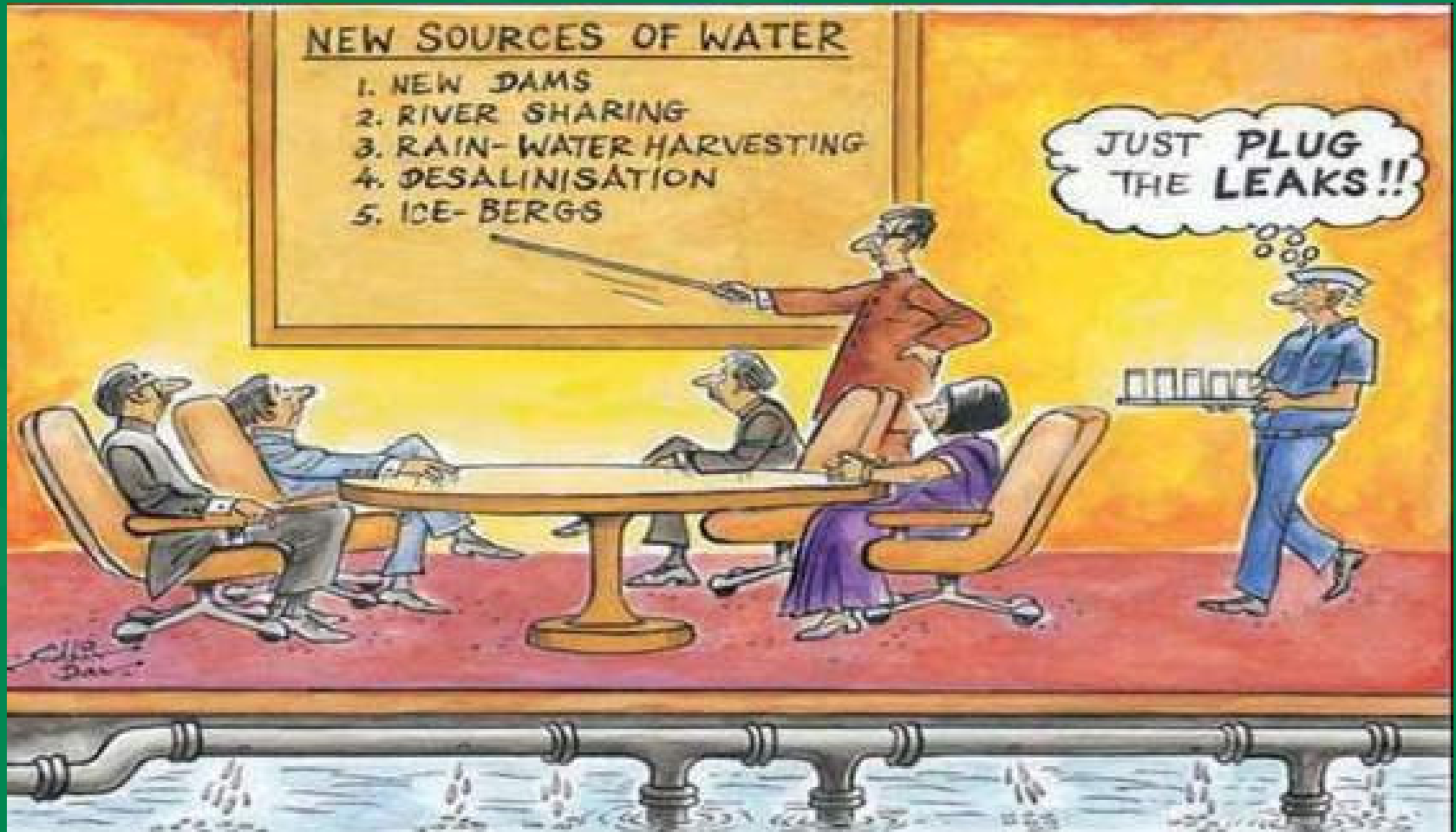


Survey Findings (Cont.)

- Average main break = about 21 breaks per 100 miles of pipe
- Regulated versus unregulated utilities differ
- 60% are interested in collaborating on improved water loss practices



2. TESTING SOLUTIONS



Feedback from the Industry



- Want to collaborate and improve water loss
- Regulation is needed to drive change
- Standards and benchmarking would be useful
- Training and assistance is necessary
- Getting public support is essential

Tackling Water Loss Control for Illinois Lake Michigan Users



Peer to Peer Storytelling & Training

Since using the AWWA methodology we have a better sense of what we are losing and what we should be doing to prevent it...We're focusing our attention on the low-hanging fruit and have already seen a pretty significant decrease in losses.

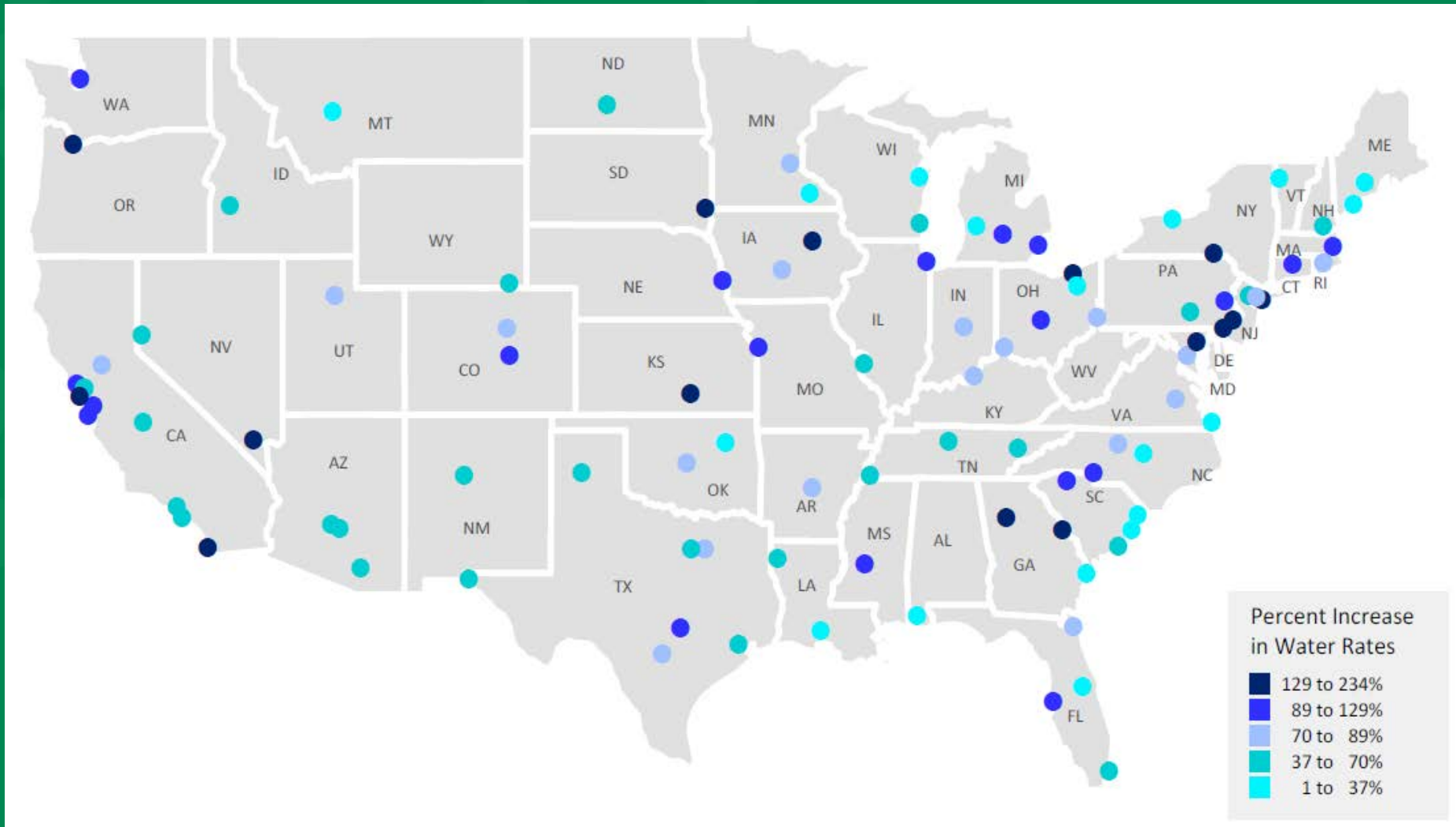
- Ray Sloan, Water Auditor,
Birmingham Water Works Board



3. BUILDING THE CASE



Water Rates on the Rise in the U.S.



CNT Map based on data from article: Water costs gush higher, USA TODAY
September 29, 2012

Infrastructure Report Card = D



Fixing the Leaks – A Good Idea

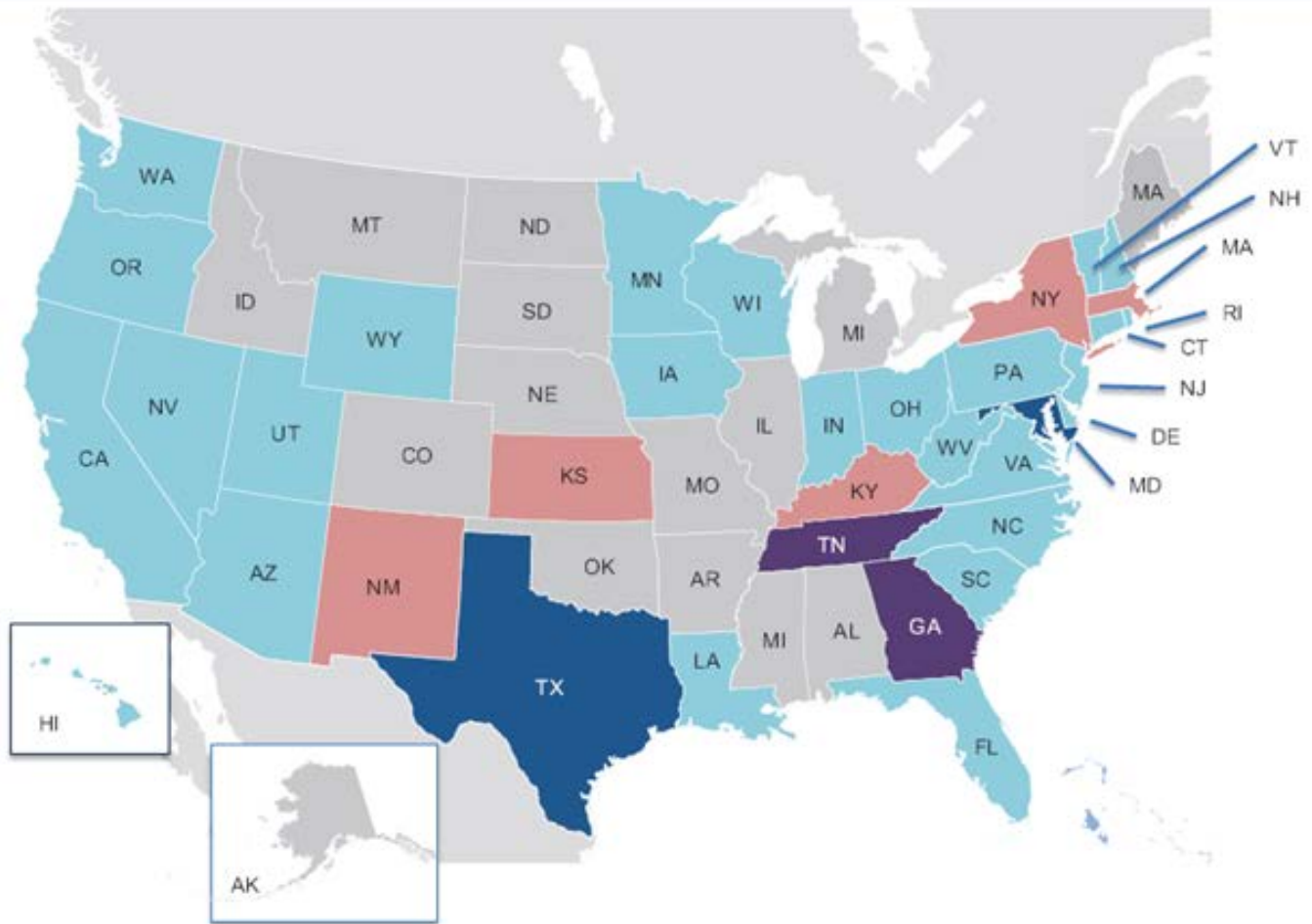
- Create Jobs
- Drive Economic Development
- Protect Human Health
- Reduce Energy Use
- Preserve Water Resources



By modernizing our national water infrastructure we can improve commercial efficiency, increase U.S. competitiveness in the global economy, and create much-needed jobs in the near term.”

– Janet Kavinsky, U.S. Chamber of Commerce

Strengthening Water Loss Control



Requiring M36 Auditing

Requiring Modified M36 Auditing

Requiring Auditing

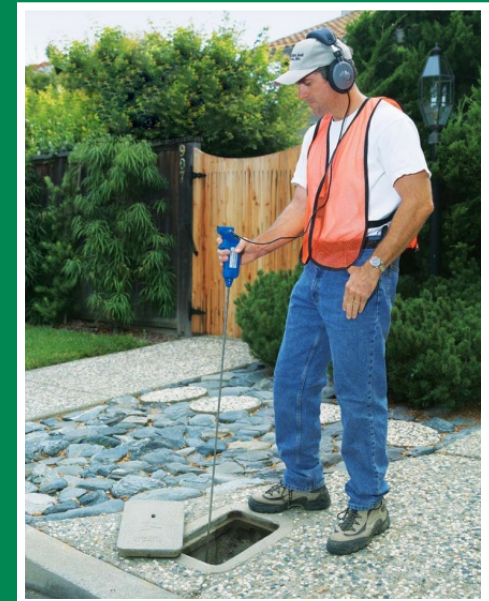
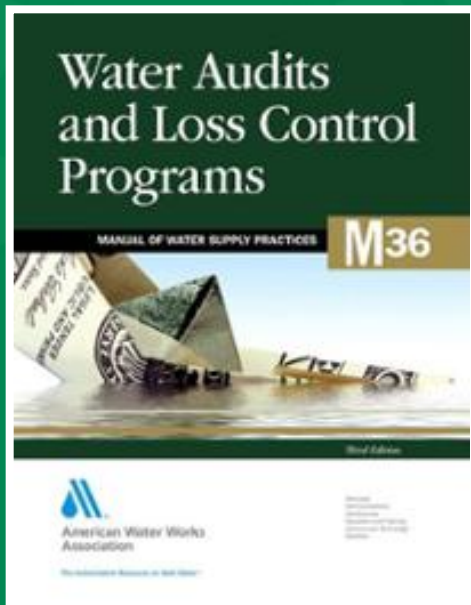
Has A Water Loss Policy*

* A water loss policy is defined very liberally based off survey response from *Survey of State Agency Water Loss Reporting Practices* (Beecher 2002). A water-loss policy can thus range from one that simply encourages utilities to reduce losses to one that specifically defines water loss, sets standards, requires reporting, and enforces compliance.

Data, Planning & Transparency

“Water utilities that carefully audit the water that they supply are better positioned to control excessive losses and provide reliable service to their customers.”

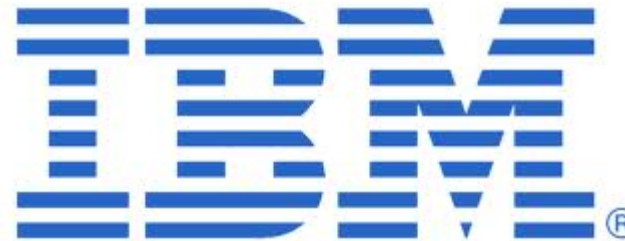
– George Kunkel, Water Efficiency Program Manager, Philadelphia Water Department



4. BUILDING A COALITION



We Welcome Your Support



Opportunities for Collaboration

1. New research on water loss and related issues
2. Education and technical support to encourage industry best practices
3. Development of model state legislation to support best practices



Thank You! danielleg@cnt.org