



### Workforce Planning for Illinois Water Systems

Sept. 18, 2019 | Webinar

www.efcnetwork.org



This program is made possible under a cooperative agreement with the U.S. EPA.

Today's Topics Why Water is Important ✓ The State of the Water Workforce ✓ Succession Planning Tips ✓ Recruiting Water Workers ✓ How to Keep Great Workers

# WATER















### H20 Reality

the glass is half empty

- Crumbling infrastructure
- Aging treatment plants
- Economic vitality at risk
- Rising costs
- Deteriorating sources
- <u>Shrinking workforce</u>

## Although our public water problems are real, they are **fixable**.

# Nicework!



Illinois Webinar Series: Water Financial Management September 25, 2019



Illinois Webinar Series: Utility Asset Management 101 October 2, 2019

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## **State of the Water Workforce**



People are a water utility's most valuable asset.

Journal American Water Works Association	2019 Ranking	Category	Average	Critically Important %
2019 State of the Water Industry: A Rising Tide? Dawn Flancher First published: 01 July 2019   https://doi.org/10.1002/awwa.1327	1	Renewal and replacement of aging water and wastewater infrastructure	4.56	63
2,000 survey responses from a variety of water professionals	2	Financing for capital improvements	4.47	55
	4	Long-term water supply availability Public understanding of the value of water systems and services	4.39 4.16	40
	5	Watershed/source water protection	4.15	39
	6	Public understanding of the value of water resources	4.13	37
	7	Groundwater management and overuse	4.08	34
	8	Aging workforce/anticipated retirements	4.06	39
	9	Emergency preparedness	4.06	33
	10	Cost recovery (pricing water to accurately reflect the cost of service)	4.03	30

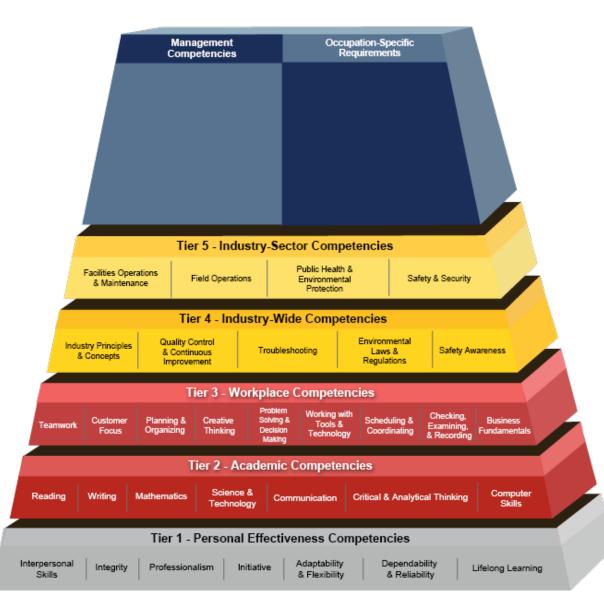
## The Water Workforce Problem







### Water and Wastewater Competency Model



- Facilities Operation/Maintenance
- Field Operations
- Public Health & Environmental Protection
- Environmental Law/Regulations
- Safety & Security
- Troubleshooting
- Quality Control/Continuous Improvement
- Teamwork
- Customer Focus
- Planning/Organizing
- Creative thinking
- Problem solving/decision-making
- Working with technology/tools
- Computer skills
- Integrity
- Interpersonal skills
- Initiative/Drive
- Flexibility
- Dependability
- Lifelong Learning

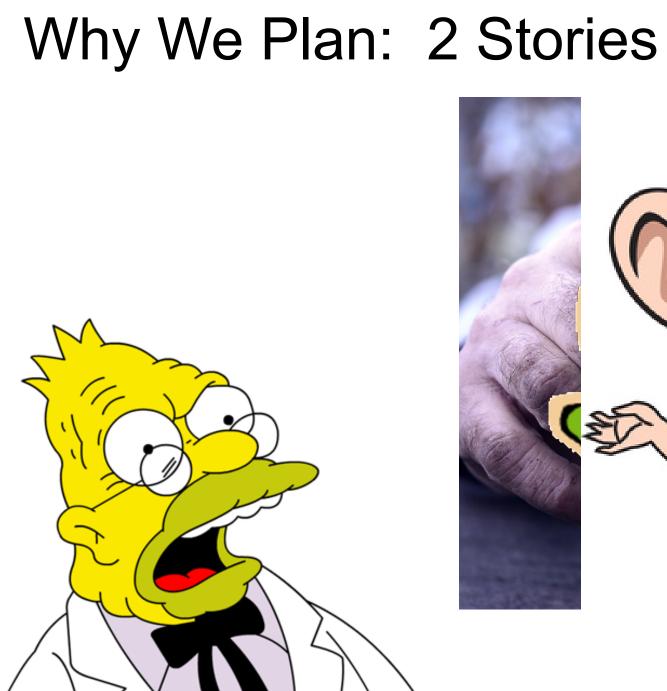
## **Succession Planning**



## **Succession Planning**

### Systematic approach to **building replacement workers** to **ensure continuity**, by identifying potential successors in *critical* work processes







## Are You Ready for People to Leave?

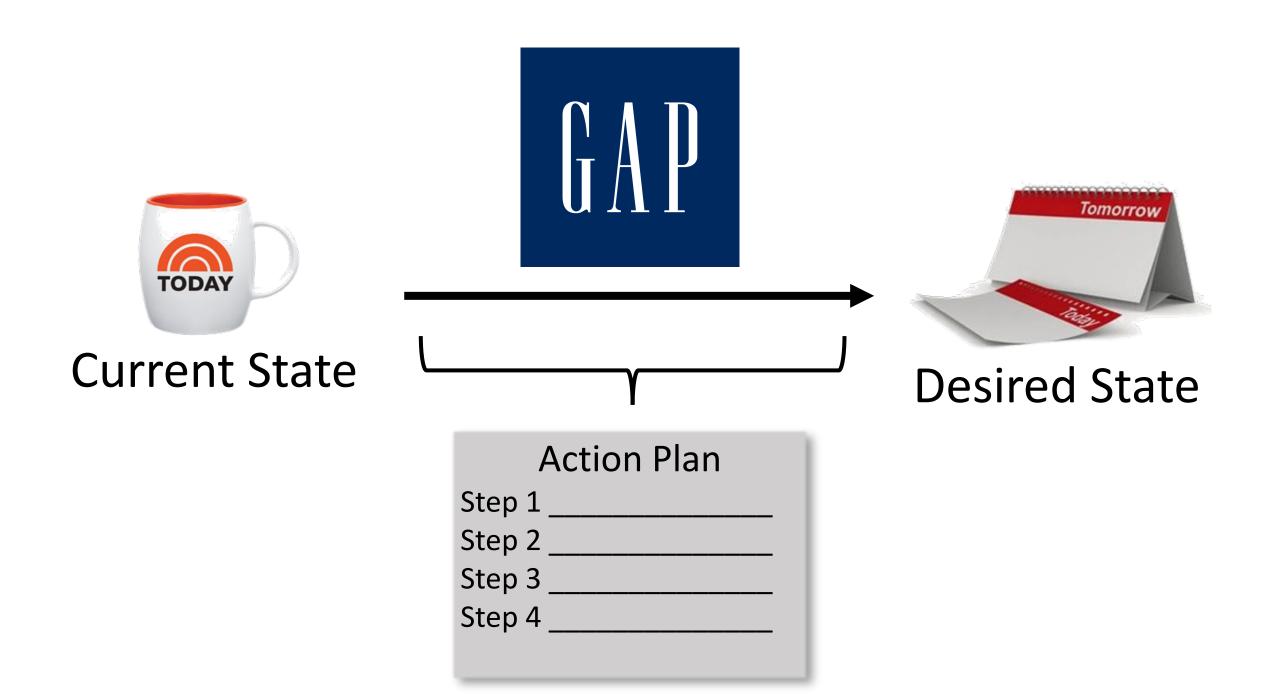
Retirement

Leaving for a different job

FMLA

Other circumstances...





### First: Current State of workforce

What do you have today?

### **Employee Profile**

- Age and years of service
- Competencies, skills and certifications
- Knowledge

### Workforce Breakdown

- Managers
- Lab staff
- Operators
- Maintenance

### **Community Demographics**

- Population
- Businesses ٠
- Tourism



### **Second: Desired State of workforce**

### What do you need 5 – 10 years from now?





### **External Changes**

- Local demographic changes
- Environmental changes
- Political changes
- Technological changes
- Regulatory changes

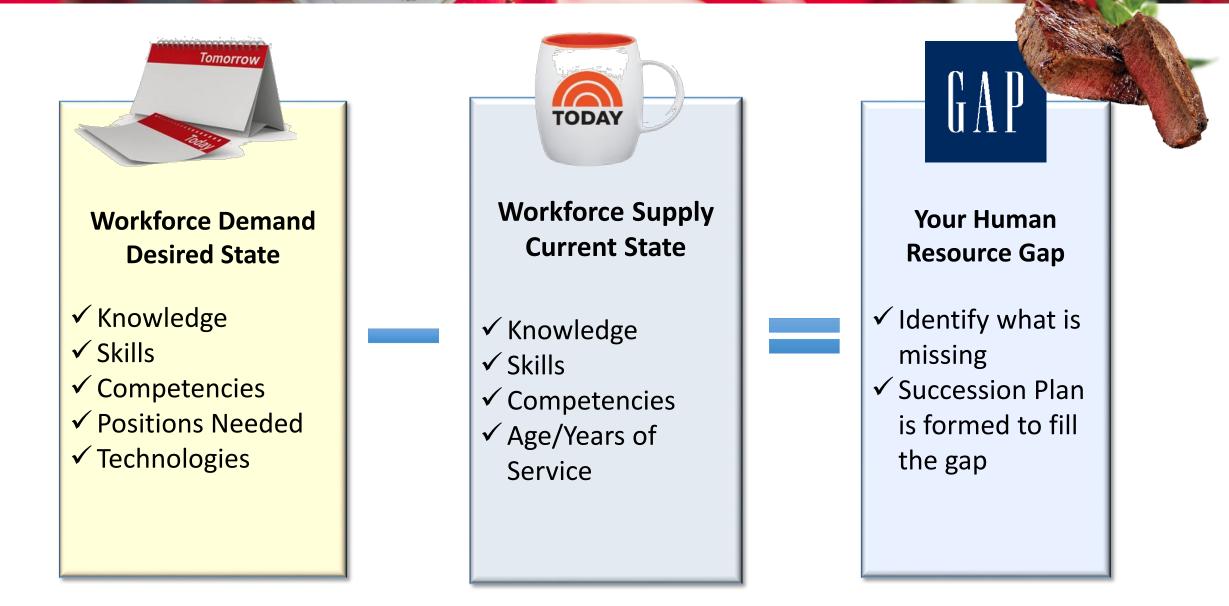
### **Internal Changes**

- The way work is done
- Interagency agreements

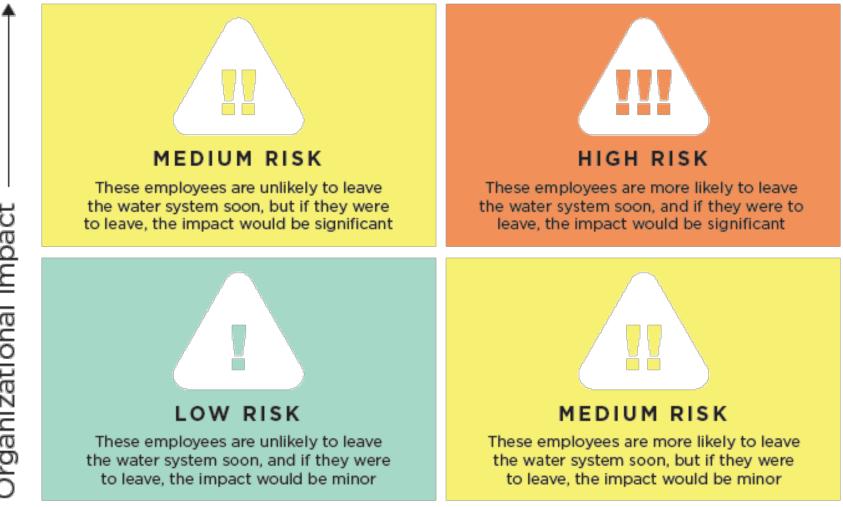
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- Contractors
- Job structure
- Shift changes

### Analyze Workforce Gaps



### **Human Capital Criticality**



Probability of Vacancy

"In one 12-hour shift, a wastewater operator will do more for public health than a doctor is able to do in a lifetime."

- Kyle Salmon, Topeka Public Works, Topeka, Kansas

# **Recruiting Water Workers**

## How can we get others Excited About Working in Public Works?



# We Can Do It!

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### Promote Benefits of Working in Water



## **Environmental Stewardship**

### Are you ready to...

improve the environment and make a profound difference in the community? At DC Water, you can look forward to a satisfying career that offers a competitive salary and excellent benefits. We're committed to providing world-class water and wastewater services as a leading environmental steward. By joining DC Water you too can make a difference.

DC Water is a government employer for purposes of the Federal Public Service Loan Forgiveness Program.

Your search for a rewarding career with DC Water starts here.



hip Find a job with partner

Source: Dcwater.com/careers

## **Public Service**

50	Million gallons of water pumped everyday
6,000	Customers that rely on our clean water everyday
2,000,000	gallons of water used per day to care for the animals at the San Antonio Zoo
300,000,000	gallons the National Hockey League Uses per season – it takes 12,500 gallons to make ice for each rink



## Operators Say...

The most satisfying aspect of their work is contributing to the environment and public health



2015 New York Water Environment Association Survey

## Advancement Opportunities

ENG

CA796

"You have the opportunity to move around and try a variety of jobs with Public Works"

Deshonia Moore ~ Power Sweeper Operator

### Professional Development & Paid Training



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## **Professional Organizations**

### Water Environment Federation<sup>\*</sup> the water quality people<sup>\*</sup>

NR WA

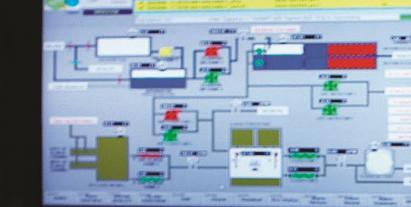
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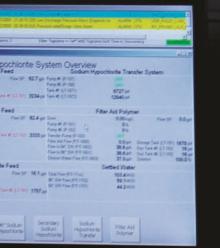


American Water Works Association



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## **Develop & Update Job Descriptions**

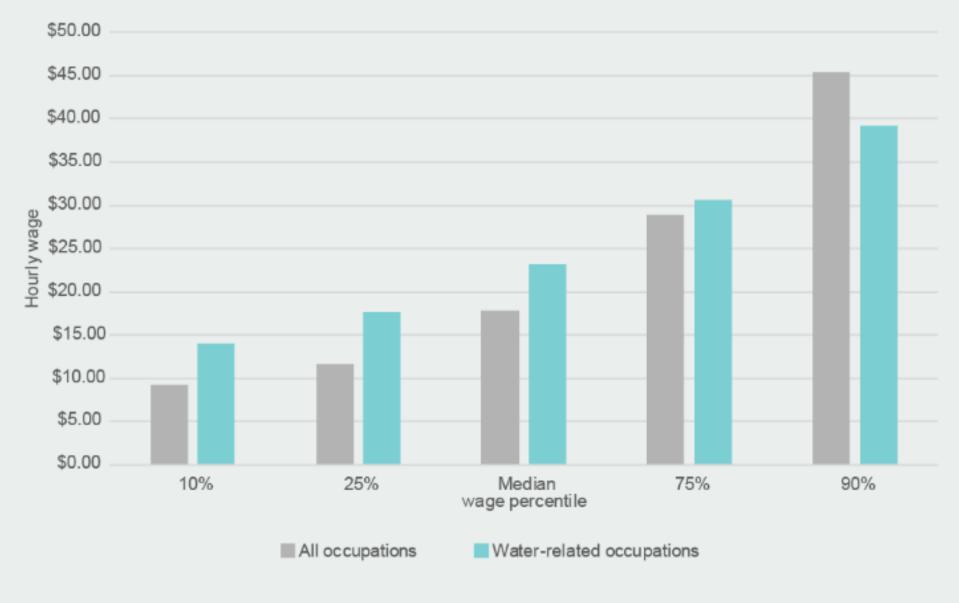
Communicate knowledge, skills and abilities that align with industry re-branding



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## Competitive Wages



Source: Brookings analysis of BLS Occupational Employment Statistics

#### U.S. Hourly Wage Comparison: Water Occupations vs. All Occupations, 2016

Do we pay water operators like we pay pharmacists? Because that's essentially what a water operator is, a pharmacist for the entire community.

- Bill Teichmiller, CEO of EJ Water Cooperative, Inc. Dieterich, Illinois

## **Staff Retention Strategies**

## Retention

- Compensation and Salary
- Evaluation
- Training
- Continual Employee Focus

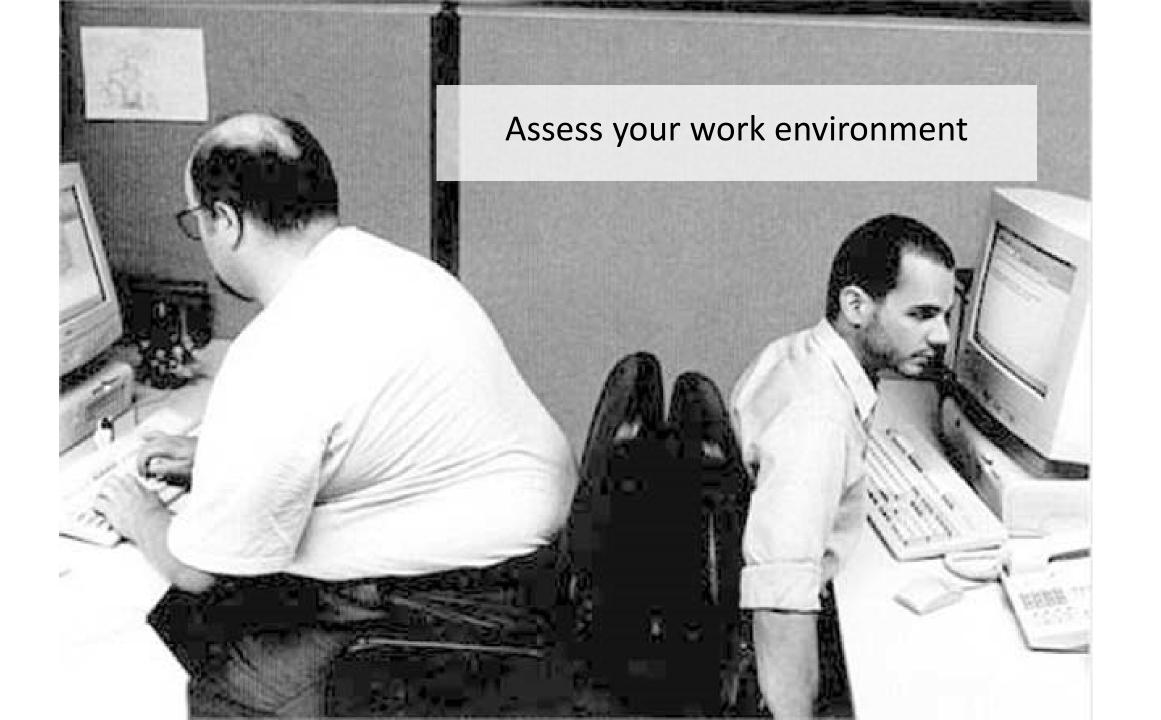
Fifty-two percent of exiting employees say their manager or organization could have done something to prevent them from leaving. (Gallup.com report)

People worry about paying to train staff who then leave...

...But what happens if we don't pay to train them and they stay?

## Retention

- Compensation and Salary
- Evaluation
- Training
- Continual Employee Focus



## Recognition!

**Recognition is** proven as among the best method of improving work motivation and employee engagement.



1 minute spent on recognising behaviour = 100 minutes of initiative in return.



Yet **2 out of 3** people receive no workplace recognition in a given year.

MY BOSS THINKS I'M KIND OF A BIG DEAL.

## The Wrap-up

- Why Water jobs are important
- Water Workforce Challenges
- Succession Planning
- Recruitment
- Retention





## Questions?

If you think of questions or are viewing this webinar later: just email us at **smallsystems@syr.edu**