# It's Not Just Math:

How Water Rates Drive Policy and Shape your Community's Future

Kirk Stinchcombe, CEO of Waterworth & Water System Financial Management Specialist



IGFOA ANNUAL CONFERENCE • SEPTEMBER 8-10, 2019

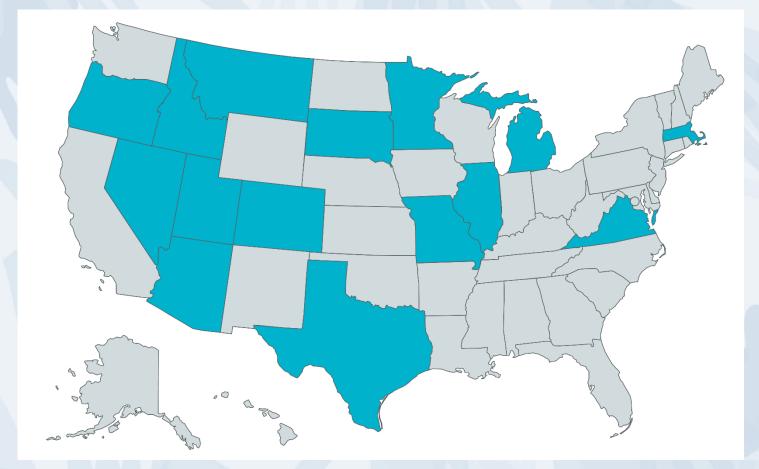
### Waterworth's Mission



To sustain water systems and the communities that depend on them.



### Waterworth Users



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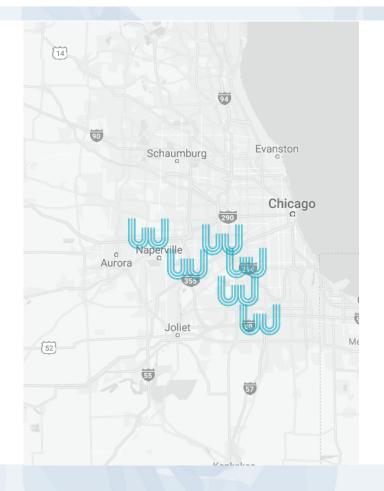
### Waterworth & Illinois

- Orland Park (pop. 56,767)
- Tinley Park (pop. 56,703)
- Moline (pop. 43,483)
- Warrenville (pop. 13,140)
- Western Springs (pop. 12,975)

















If you undercharge, water services eventually fail...

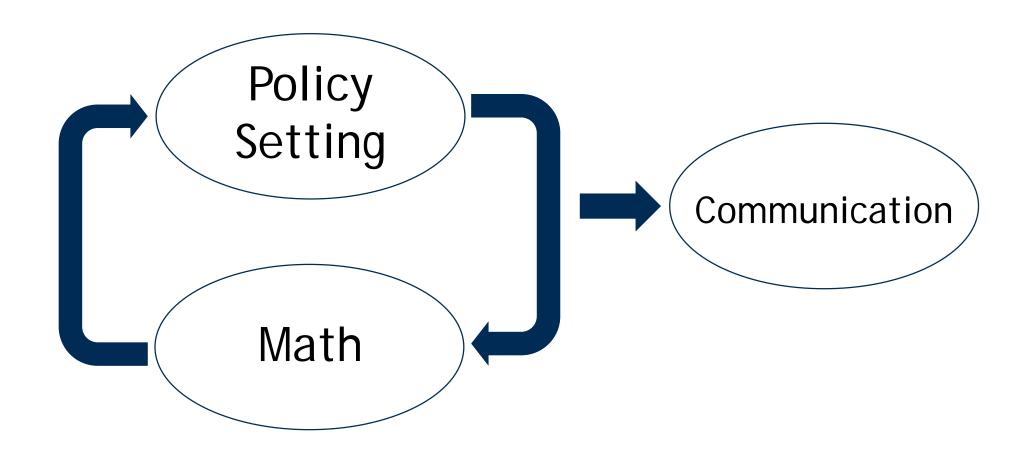






If you overcharge (or are <u>seen</u> to overcharge), you may face community and political backlash

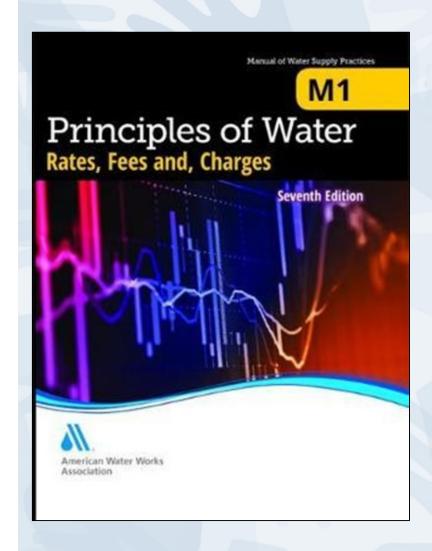




# So What Are the Policy Issues?



- Effectiveness in yielding total revenue requirements (full cost recovery)
- Revenue stability and predictability
- Stability and predictability of the rates themselves from unexpected changes
- Promotion of efficient resource use Fairness in the apportionment of total costs of service among the different
- ratepayers
- Avoidance of undue discrimination (subsidies) within the rates
- Dynamic efficiency in responding to changing supply-anddemand patterns
- Freedom from controversies as to proper interpretation of the rates
- Simple and easy to understand
- Simple to administer
- Legal and defendable



# Key Policy Issues

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# Let's Look at Just One Example...



# **Intergenerational Equity**



# Full Cost Recovery



## Components of a Rate Review



**Full Cost Recovery** 



**Cost of Service** 



Rate Design



# Full Cost Recovery



Full Cost Recovery



# Full Cost Recovery





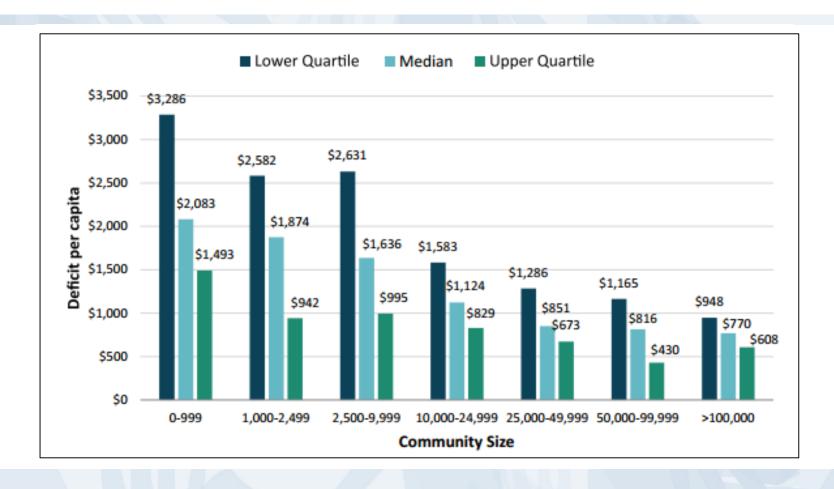
# How should you budget for the "wear and tear" on your water infrastructure

(aka "capital re-investment")?





### The Infrastructure Deficit





### Consequences

- Public health risks
- Wasteful
- Overcons
- Reduced
- Intergene







# Intergenerational Equity

"...an obligation to conduct ourselves so that we leave to the future the option or the capacity to be as well off as we are." (Robert Solow, 1974)

= Sustained quality of life





# A Good Policy Setting Methodology

- 1. Policy workshop(s) at the start of a rate review
- 2. Test with elected officials (and perhaps the public) early
- 3. Written, formal policy statements to guide the rest of the project

This process does not need to be time consuming or laborious



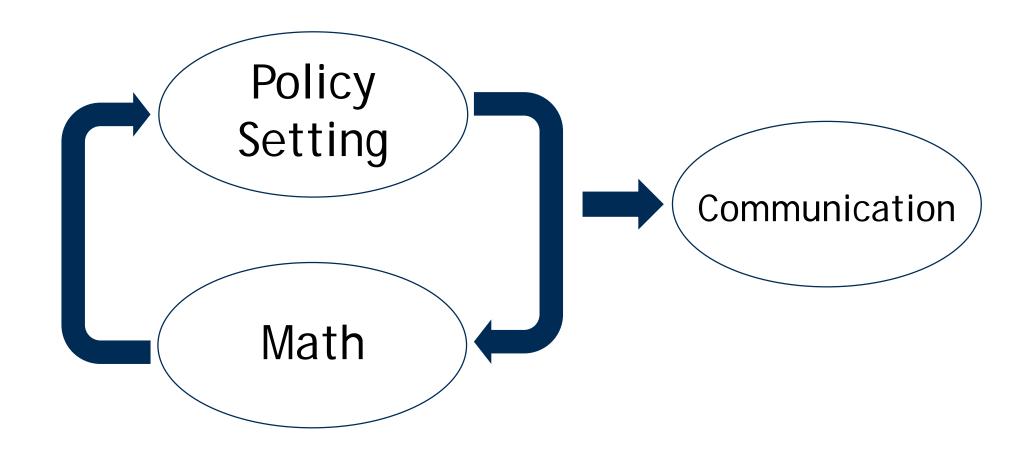
"..since current users of an asset benefit from its use, they should pay their pro rata [proportional] share of the costs involved in the future replacement of the assets." (Asset insights, n.d.)



# Key Policy Issues

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$$\eta = \frac{(Q_1 - Q_0) \div (Q_1 + Q_0)}{(P_1 - P_0) \div (P_1 + P_0)}$$

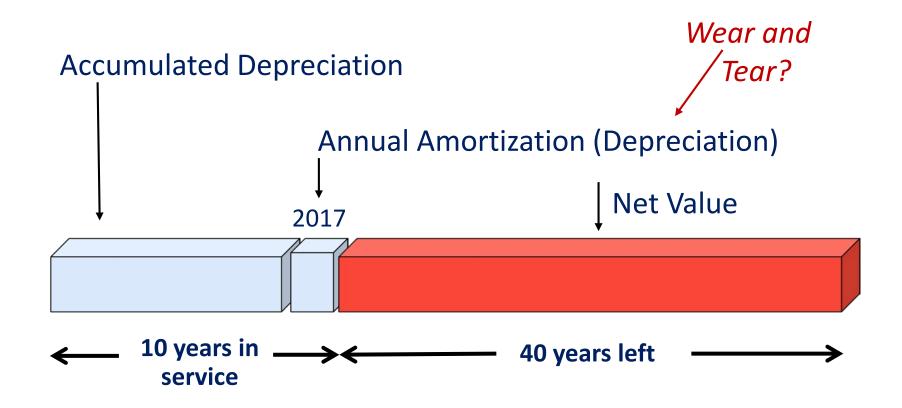
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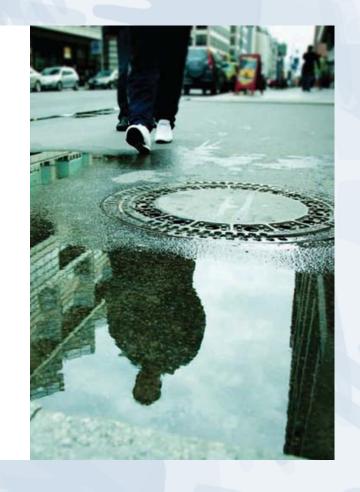


# "Wear And Tear" In Accounting Terms

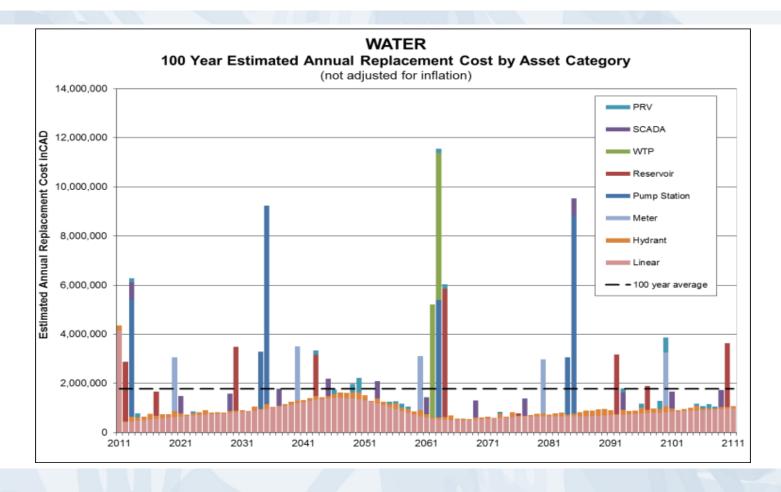




# Annual Cost of Sustainable Ownership (ACSO)

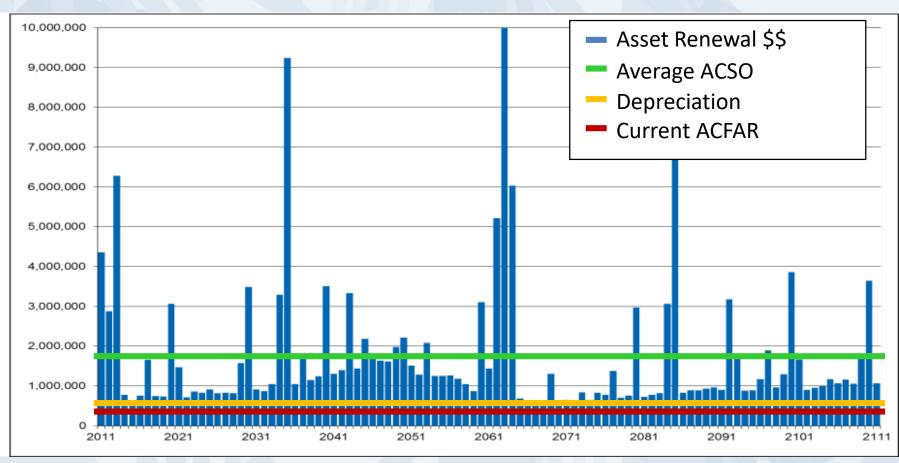


# Asset Replacement Schedule (ARS) – 100 Year Projection



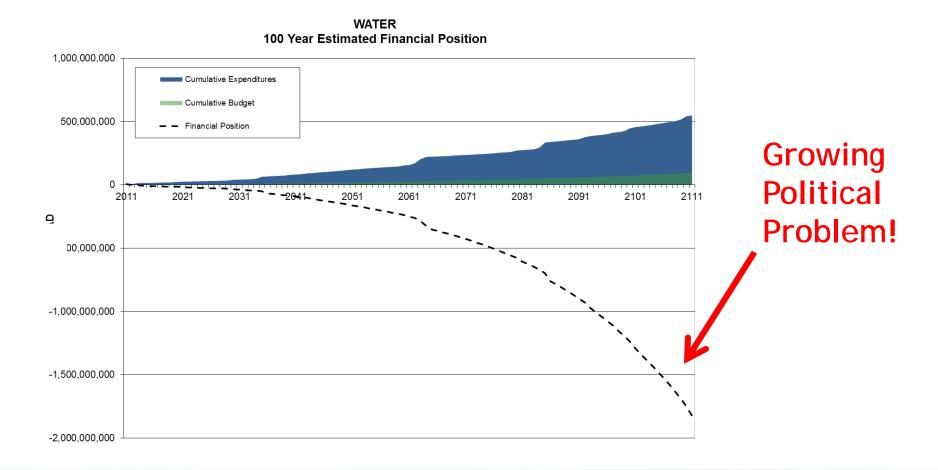


# 100 Year Projection Of Asset Renewal Expenditures (\$)



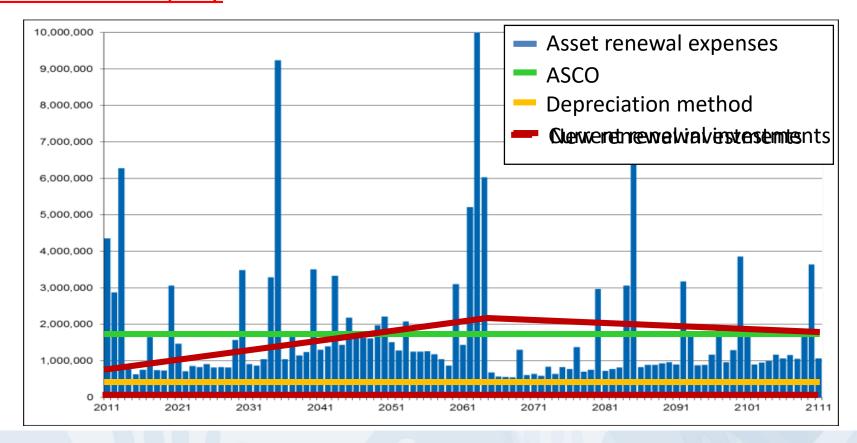


#### Say \$300,000 ACFAR increased by 2% annually for 100 years, then...

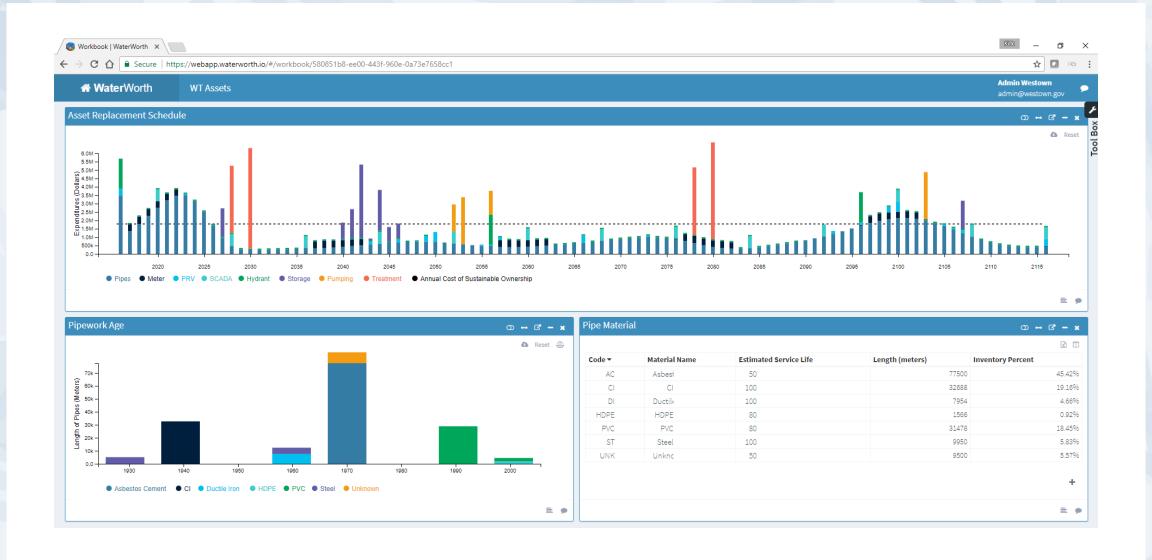


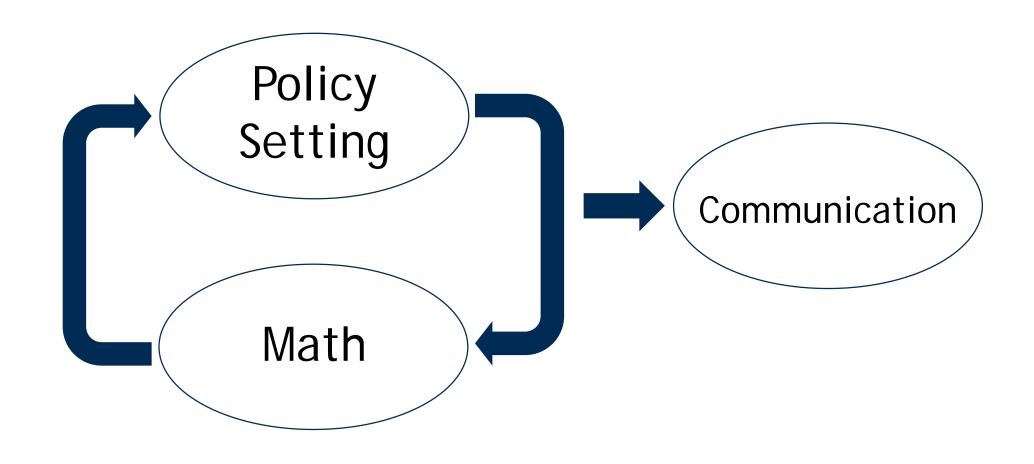


To bridge the gap between current renewal investments and ASCO, <u>increase</u> <u>investments gradually to avoid rate shock and moderate shifts in intergenerational equity</u>









# Affordability





### A Rates Communications Plan

- Situation Analysis
- Stakeholder Analysis
- Communications Risk Analysis
- Key Messages
- Channel Strategy
- Communications Schedule

This process does not need to be time consuming or laborious



# What Are Key Messages?



# Key Messages

### Key messages are the integral points that everyone needs to know.

- With any project or program, three to five main messages are typically sufficient.
- They are formulated to respond to the questions and concerns of audiences within your community, but are general enough to be easily understood.
- Not the content of the communications (rather, they guide content development)



# Examples of Key Messages

- 1. The new water rates ensure that we can provide continuous services and safe water, today and into the future.
- 2. Charging a portion of the water bill based on the amount used allows individuals and businesses to take control of their own costs.
- 3. The new rate structure promotes water conservation, which benefits our community and our environment.





www.financingsustainablewater.org

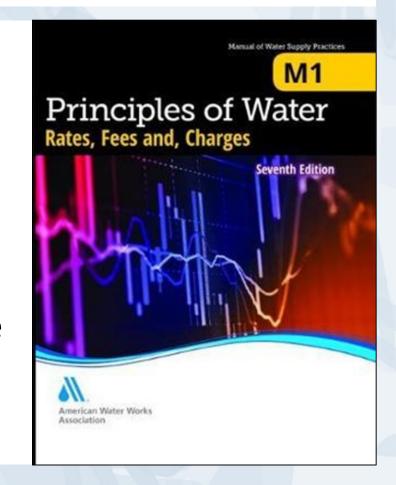


# Lasting Community Support



### Disclaimer

- This is a broad, high level presentation on a few aspects of rate setting
- It is not intended as specific advice for any one water service providers situation
- There is no substitute for looking at local data and consideration of site specific factors
- When in doubt, get help or consult authoritative sources







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## Some Take Aways

- The way we set water rates shapes the future of our communities
  - When you set rates, you set community policy
- The starting point is to examine your objectives
- Setting policy at the start and planning communication at the end will dramatically bolster chances of success in your rate setting process
- There are many resources available to make this task much easier, even for small systems





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