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## ASTM's E3210 Practice for Infrastructure Management

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## E3210 – Practice for Infrastructure Mgt



### Background

- Over the last 5 years, we've seen examples of poor infrastructure management:
  - Flint's lead-contaminated water
  - London's Grenfell Tower fire
  - Miami's pedestrian bridge collapse

## Recognizing the Challenge



### Flint



“chemistry”

## Recognizing the Challenge

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### 50,000-foot level

- Can we agree that these problems should not recur?
- But, why do they?
- If we don't recognize the 50,000-foot challenge, we'll never solve the problems disguised at 50 feet.

## E3210 – Practice for Infrastructure Mgt

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### Background

- Their recurrence suggests society's failure to recognize infrastructure challenges
- E3210 not only challenges an authority to act responsibly, it also provides a system for potential victims to engage toward resolutions

## Recognizing the Problems

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### 50-foot level

- Not “my” problem
- I’ll have THAT, and the kitchen sink too
- You can only improve what you measure, but how do you prioritize improvements?
  - What benchmarks do you use?

## E3210 – Practice for Infrastructure Mgt



### OK, I'm Flint – What do I do?

- Measure water chemistry
- Replace compromised piping
- Verify lead is not leaching from corroded pipes
- What else do I measure so that quality continually improves?

## E3210 – Practice for Infrastructure Mgt



### Prioritize Alternate Solutions

- Are peoples' desires elastic toward additional taxes?
- Is the authority taxing the wrong thing?
- Is it better/easier to tax one big or many smaller things?



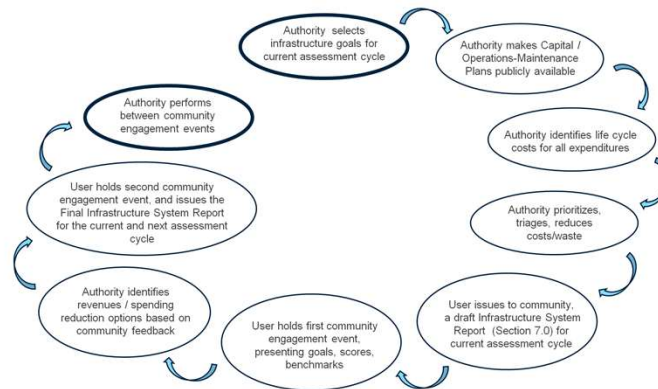


Figure 4.1 - Infrastructure Management Process