

# Creating a Digital Asset Management Master Plan

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Asset Leadership Network



Parkview Advisors

# How Asset Management Saved America

(or at least it's water systems)



Improvements in water quality over the past century—in particular, the disinfection of water—resulted in **one of the great public health achievements of the 20th century: a dramatic drop in the incidence of waterborne diseases**, such as cholera and typhoid

**250,000**

**\$2.6 Billion**

**1.7 Trillion!**

**\$1 Trillion**



**Parkview Advisors**

# Water Infrastructure

Education

Data

Efficiency

Technology

Alternative Financing

Local Investment



## Digital Master Plan

- Gigabytes of data
- Usage is sub-optimal
- Volume can be overwhelming
- Compare, correlate and use data from silos to make better decisions
- DMP is a strategy that:
  - Analyzes current state
  - Proposes future state
  - Closes these gaps
- Save 20 to 30 percent on opex and capex

## Digital Master Plan

- Tied to strategic plan
- Assessed systems in six areas
- 46 recommendations
- 16 cross-system integrations
- Data visualization
- KPI development
- Priority system: CMMS in support of Asset Management Strategy



## Asset Management and DMP Success

- Product aligns with Asset Management strategies
- Future system integrations to support efficiencies
- Primary user has a clear vision of entity needs and product role
- Strong CMMS product; capabilities aligned with strategic plan
  
- Digital Master Plan must:
  - Include asset management and CMMS
  - Tie these into the overall digital strategy and integration with other systems



## Asset Management at Water Utilities

- Intrinsic motivation lacking
- Ignorance is bliss
- “Nice to have”
- Too expensive
- Installed only
- Asset registry only

## Asset Management at Water Utilities

- Intrinsic motivation present
- Entity mission and values defined first
- Captured in asset management strategy
- Users must participate in developing use case
- Deliberate implementation
- Ongoing support and training



## Asset Management at Water Utilities

### Safe Drinking Water Act:

- Encourage
- May
- Guidance every five years

### New Jersey:

- Water Quality Accountability Act



### Federal Highway Program :

- 65%



## Second Network Can Preserve the First

1940: Water and sewer extended to 94% of urban households

2000: Public water systems eliminated as a source of typhoid

2012: 8% of water mains in service beyond their useful lives

2017: 17% of water systems had rates that covered their cost of service

***2020: Asset management mandatory for water utilities***



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