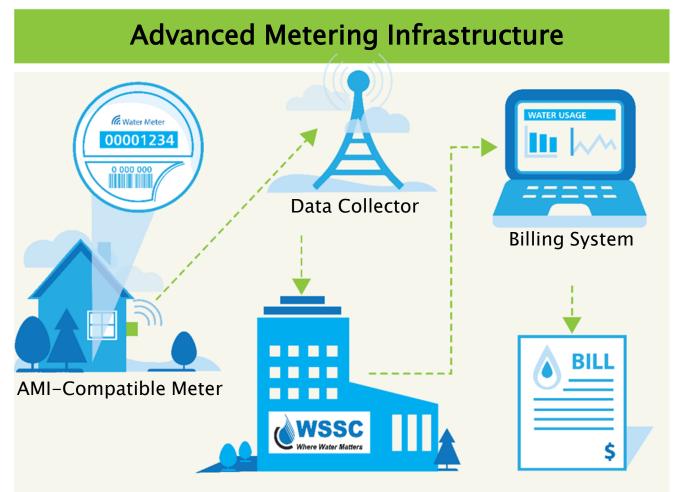


# Advanced Metering Infrastructure (AMI) Implementation

Commissioners Meeting March 20, 2019



#### What is AMI?







#### **Communication Network**

- Based on commonly used digital communication methods
- Very short transmission duration... milliseconds
- Encrypted and secured
- No personally identifiable information
- Redundancy





### **AMI-Compatible Meters**

Snapshot of Existing Meters

Meter Location	Number of Meters
Inside	20,400
Outside	158,545
Remote Read	303,208
Total	482,153

97% Residential, 3% Commercial

- Approx. 200,000 meter replacements
  - System incompatibility
  - End of useful life





## CURRENT Today







Touch Read



Walk By Meter Reading





Visual Read



Walk By Meter Reading





Radio Read



Drive By Meter Reading (AMR)

#### Future







Network







Customer



Water Analytics Software



System Manager and Data Analysts



Technicians and Field Reps.

#### **AMI Benefits to Customers**

- Enables monthly billing
  - Smaller bills, more frequent
  - Monthly budgeting
- Fewer estimated reads
- On-property leak detection
- Proactive customer service





#### **AMI Benefits to WSSC**

- Reduced meter staff field visits
- Improved meter management
- Fewer estimated reads
- Detection of water theft
- Distribution system leak detection
- Distribution system planning
- Return on investment





## **Project Schedule**

TASK NAME	DURATION	2018	2019	2020	2021	2022	2023	2024
AMI Program	295wk							
Phase I – Planning and Procurement	68wk							
Task – Needs Assessment	16wk							
Task – AMI System Procurement	26wk							
Phase II – Design	8wk							
Phase III – Configuration, Development, Construction	52wk							
Phase IV – Full AMI Deployment	194wk							
Phase V - Project Closure	4wk							





## Questions





