



# City of Las Cruces Advanced Metering Infrastructure A Better Way To Conserve

December 7, 2023

# Advanced Metering Infrastructure Project

- Advanced Metering Infrastructure (AMI)
  - What is it?
  - Sophisticated system that facilitates two-way communication between utility providers and customers.
  - Benefits
    - Ability to get real time data on water consumption by the utility provider and customer.
    - Detect water leaks before they surface.
    - Reduces GHG by eliminating the need for meter readers, reduction in water pumping, direct reduction in energy usage due to decreased pumping.
    - Better utility/customer interface.
    - No misreads.
    - Accurate measurement of water to customers.

# Advanced Metering Infrastructure Project

## ■ Components of AMI Cont'd

- **Smart Meters** – Can be Digital Meters ( Water and Gas) transmit data back to the Utility Company, providing real time (hourly or less) data. Smart Meters can also provide detailed information about system such as leaks, water temperatures, reverse flow conditions, customer side leaks, etc.

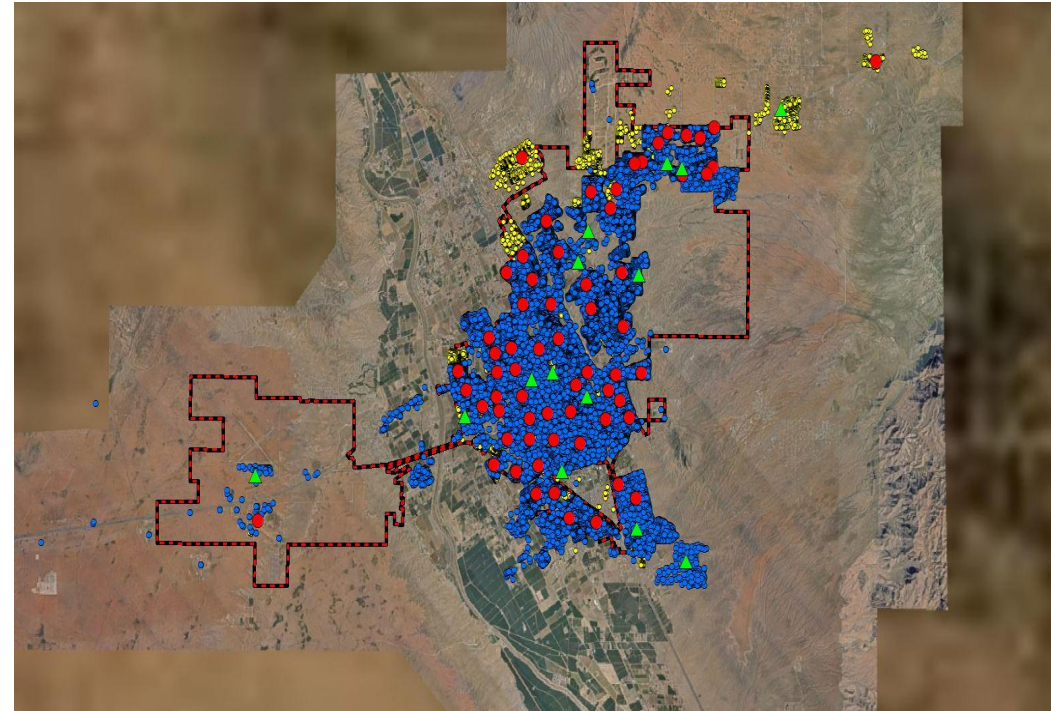


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- Components of AMI Cont'd
  - **Communication Networks** – Made up of Smart Meter, Encoder Receiver Transmitter (ERTS), Repeaters, and Collectors throughout the service area.



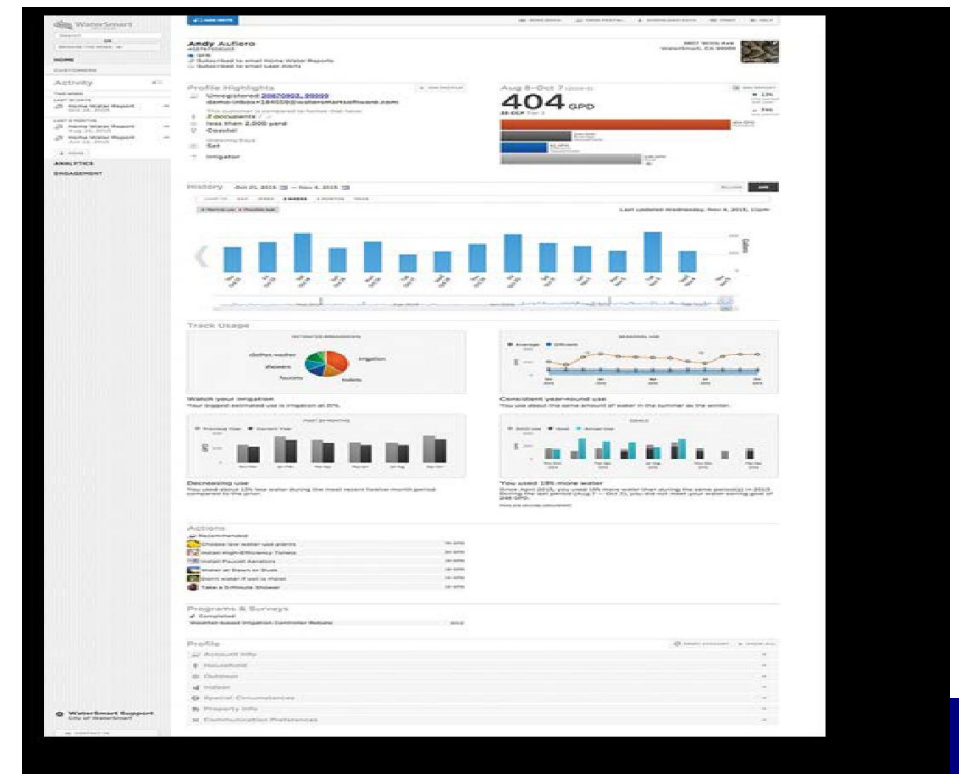
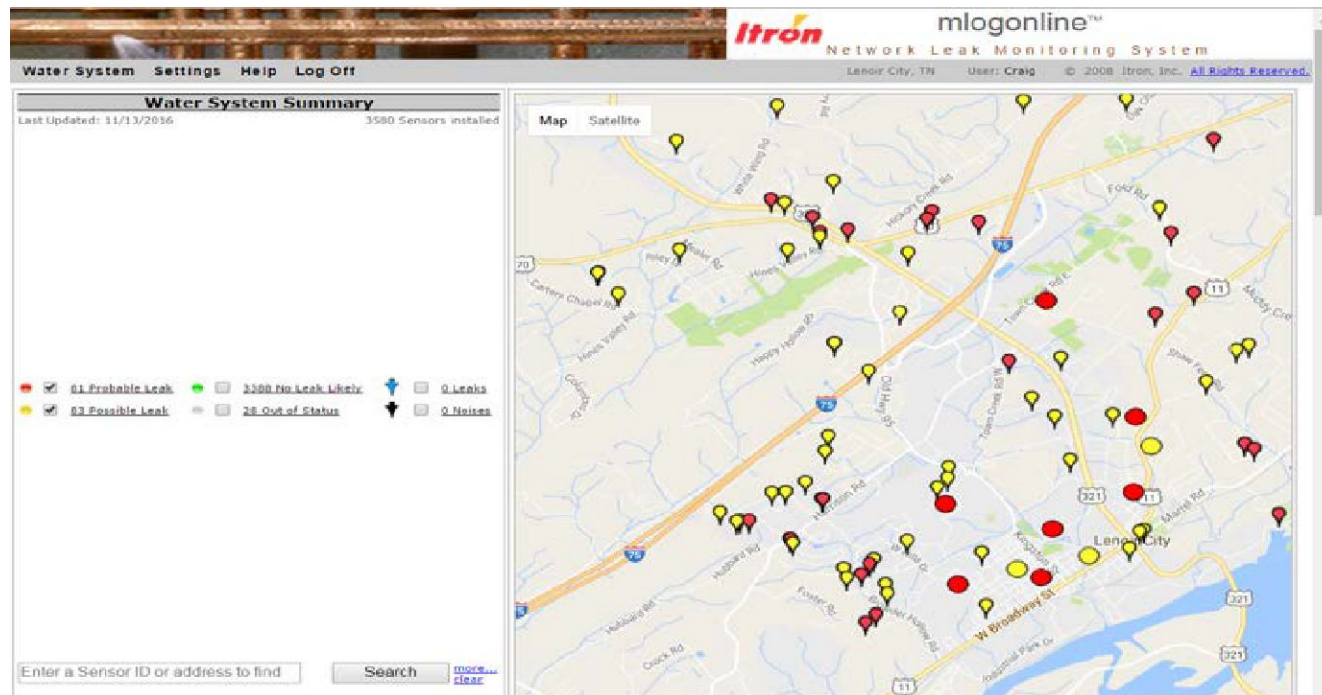
Itron Leak Sensor and Itron  
100W+ ERT



# Advanced Metering Infrastructure Project

## ■ Components of AMI Cont'd

- **Data Management** – Central Repository where all meter data is collected, stored, processed, and analyzed. Raw data from smart meters is transformed into actionable insights.



# Advanced Metering Infrastructure Project

- How can you complete your own AMI project?
  - State Energy Savings Performance Contract with Johnson Controls Incorporated (JCI).
- Contract Cost – \$22,124,000.00
- Contract Time – 21 months
- Start Date – March 2018
- Summary of Project:
  - Infrastructure Network (70+ Repeaters/Collectors)
  - Large Water Meters (90 meters)
  - Small & Intermediate Meters (25,863)
  - Water Meter Retro's Complete (3,724)
  - Gas Meter Retro's Complete (14,607)



Gas Meter Retro Installation



Water Meter Retro Installation

End of presentation...