Advanced Metering Infrastructure (AMI) Is It Now Within Reach for Small to Mid-Sized Utilities?

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Advanced Solutions





- Better understand Advanced Metering Infrastructure (AMI) and the advantages it can provide over other technologies.
- Learn about the new approaches small to medium sized utilities are using to justify, implement and manage AMI while overcoming the challenges.





- Introduction
- Current Status
- AMR vs AMI
- Benefits of AMI
- Challenges for Water Utilities to Implement AMI
- A New Approach Moving Forward
- Is AMI Within Reach?

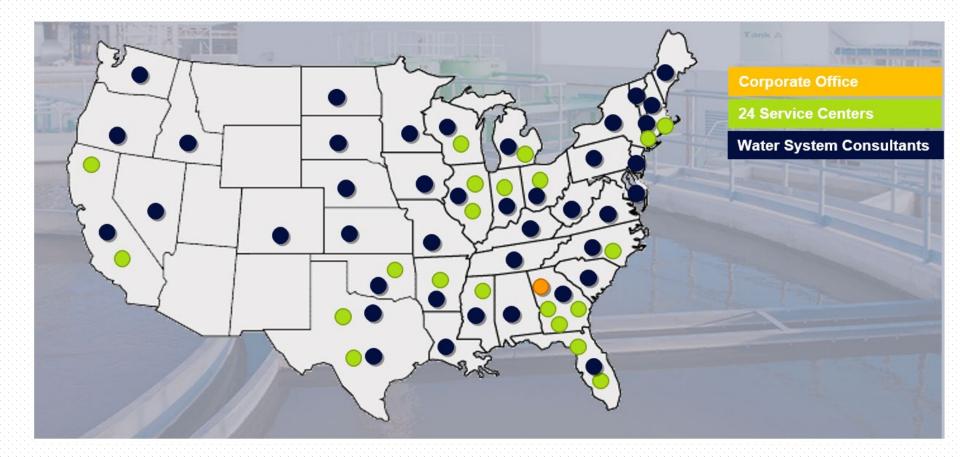


Advanced Solutions N.A Leader in Asset Management Solutions





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Current Status

Water Utilities Face Many Challenges

- Managing Capital Costs
- Reducing Operating Costs
- Non-Revenue Water
- Water Scarcity/Conservation
- Customer Service
- Aging Infrastructure
- Lack of Resources
- Cybersecurity
- Employee Safety
- Media Social / Televised





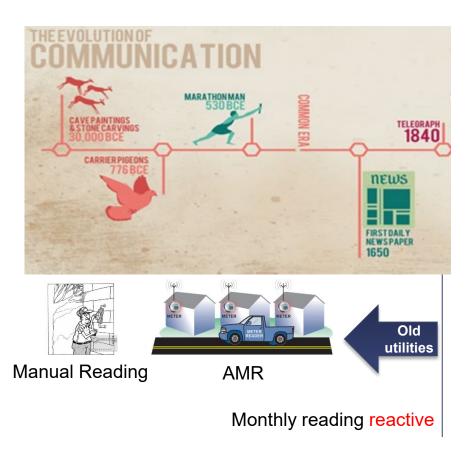


Smart Technologies Can Help

- Mature Technologies
 - Technological risks are minimized
 Solutions have proven track records
 Millions of meters being read daily
- AMI and AMR cost gap is closer
 - > AMI is now within reach.
 - AMI Installations continue to grow
- Value being realized by early adopters

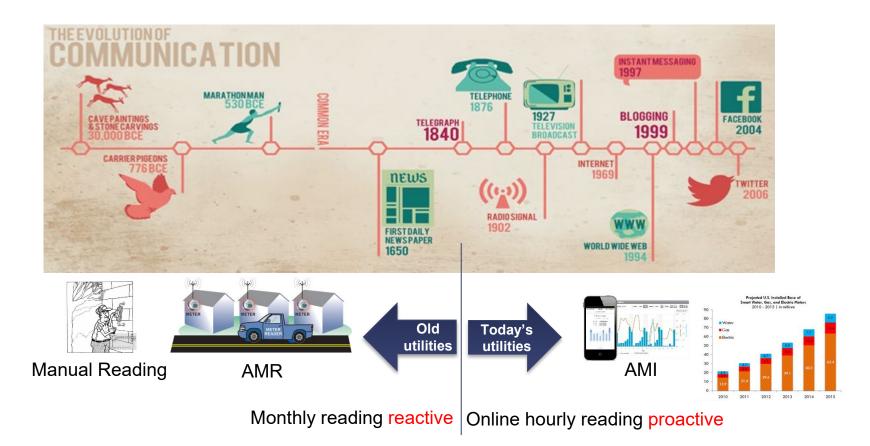


Meter Reading Evolution



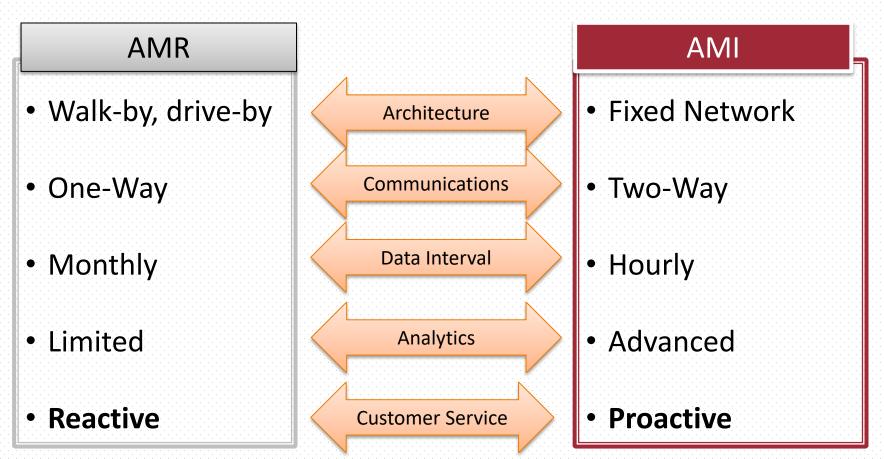


Meter Reading Evolution



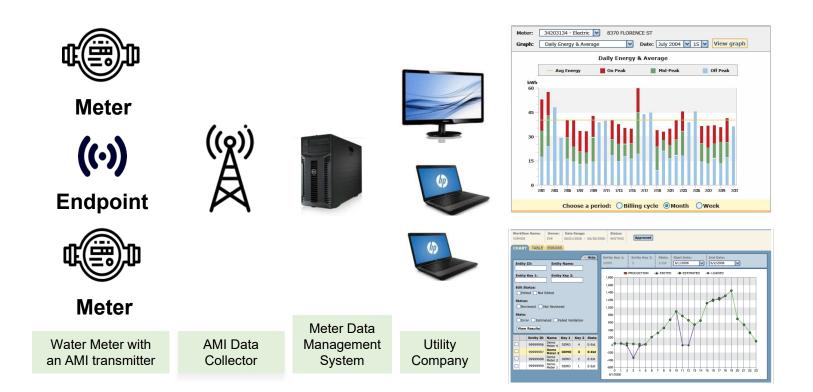


AMR vs AMI





Today's Solution - AMI





Revenue Optimization

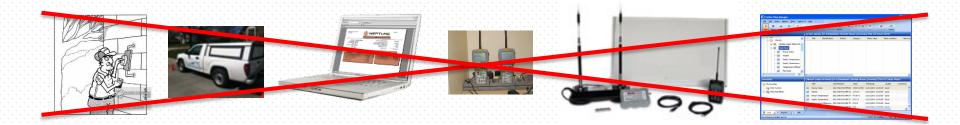
- Reduce Billing Adjustments
- Theft Detection
- Customized Rates
- Custom Billing Dates
- Cash Flow Management
 Revenue Forecasting
 Improved Rate Design





AMI can release you from:

- Meter readings and investigations
- Technical expertise to handle new radios, readers, download tools and billing interface software.
- Manual processes to handle data
- Trips, reading routes, and re-reads





Smart City / Utility Foundation

- Remote Disconnect Devices
- Leak Detection
- Pressure Monitoring
- Sanitary Sewer Overflow
- Street Lights
- Smart Parking
- Smart Home
- ≻ IoT





Cost Savings:

- Meter Reading Cost Savings
 - ➤ Labor
 - ➤ Vehicle
 - Miscellaneous Costs
- Customer Service Cost Savings
 - Reduction in calls to call center
 - Fewer metering field visits
 - Reduced billing costs





Superior Customer Service

- Provide detailed consumption data to enduser
- Proactive Customer Leak Notification
- High Bill Investigations
 - Resolve most customer inquiries with first call
- Flexible billings
- Move In/Outs







Operational Tools

- Water Accountability
- Conservation Programs
- Meter Right Sizing
- Define Optimal Time in Service or Cumulative registration





Challenges for Water Utilities to Implement AMI

- Lack of Funds
- Lack of Internal Resources and Expertise: AMI can be an overwhelming project
 - Project Management Capabilities
 - ➤ IT Expertise
- Overcoming Risks
 - Financial stability of vendors
 - Technological Obsolescence
- Who Will Take Care of the System?



How To Handle: Lack of Funds

Utilities can benefit from a full implementation now and pay over time

- Many utilities need to replace old and inaccurate water meters
- Payback can be funded by
 - Reductions in meter reading/customer service costs
 - Improved meter accuracy
- Suez offers options to Spread Costs Over Time
 - Delay of first payment for 12 months or
 - Until the project is complete
- Third Party Financing Options



How To Handle: Lack of Expertise

Outsource Project Management

Quicker Deployment

Months vs Years

Single Source of Responsibility & Accountability

- Eliminate Finger Pointing and Risk
- Experience Counts



How To Handle: Lack of IT Resources

Software as a Service (IT Cloud)

- Reliable access to data
- Eliminates need of internal IT resources
- Includes swift implementation and integration with CIS and other systems
- Assures disaster recovery is well managed



How To Handle: Risks

AMI vendors are more financially stable

Industry has continued to consolidate

Technological risks are minimized

Solutions have proven track records

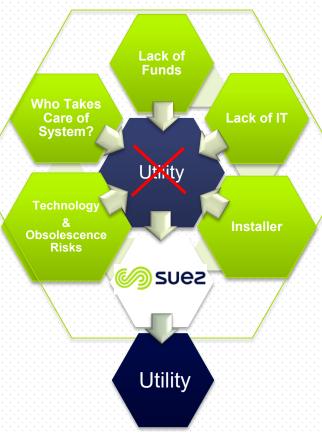




How to Handle: Taking Care of The System

Solution:

- Full Comprehensive Asset
 Management Program
- Preventive and Corrective
 Maintenance
- Project Management with SaaS Hosted Services & IT support
- Minimize Technology & Obsolescence Risks
- Single Source of Responsibility and Accountability
- Eliminate the Finger Pointing

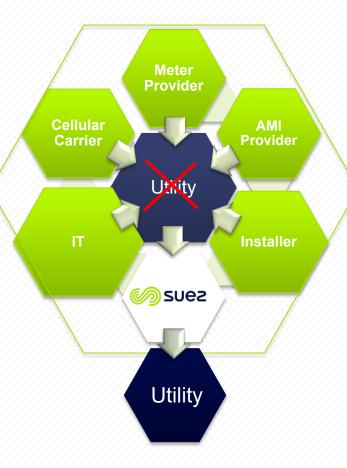




AMI - Is Now Within Reach!

Summary

- Asset Management & Turnkey Solutions.
- AMI Implementation can be selffunded or 100% financed.
- Equipment reliability & cost risks have been reduced minimizing Technology and Vendor Risks.
- Outsourced project/management responsibility and software implementation simplifies the deployment.





Solution - Asset Management w/Maintenance

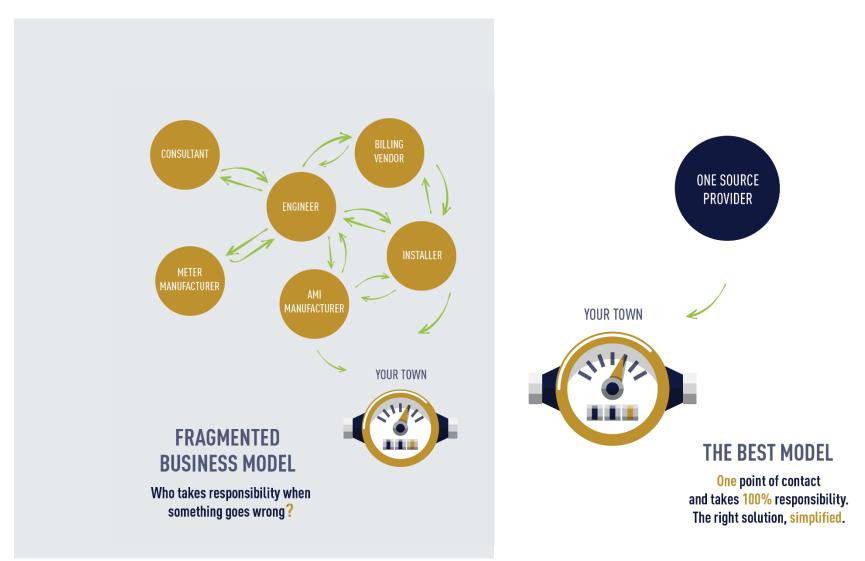
New Approach For:

- Lack of Funds
- Lack of Internal Resources & Expertise
- Technology and Obsolescence Risks
- Financial Stability of Vendor Risks
- Who Will Take Care of The System?





The Asset Maintenance Program Difference





QUESTIONS?



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