



Advanced Metering Infrastructure (AMI)

November 9, 2016

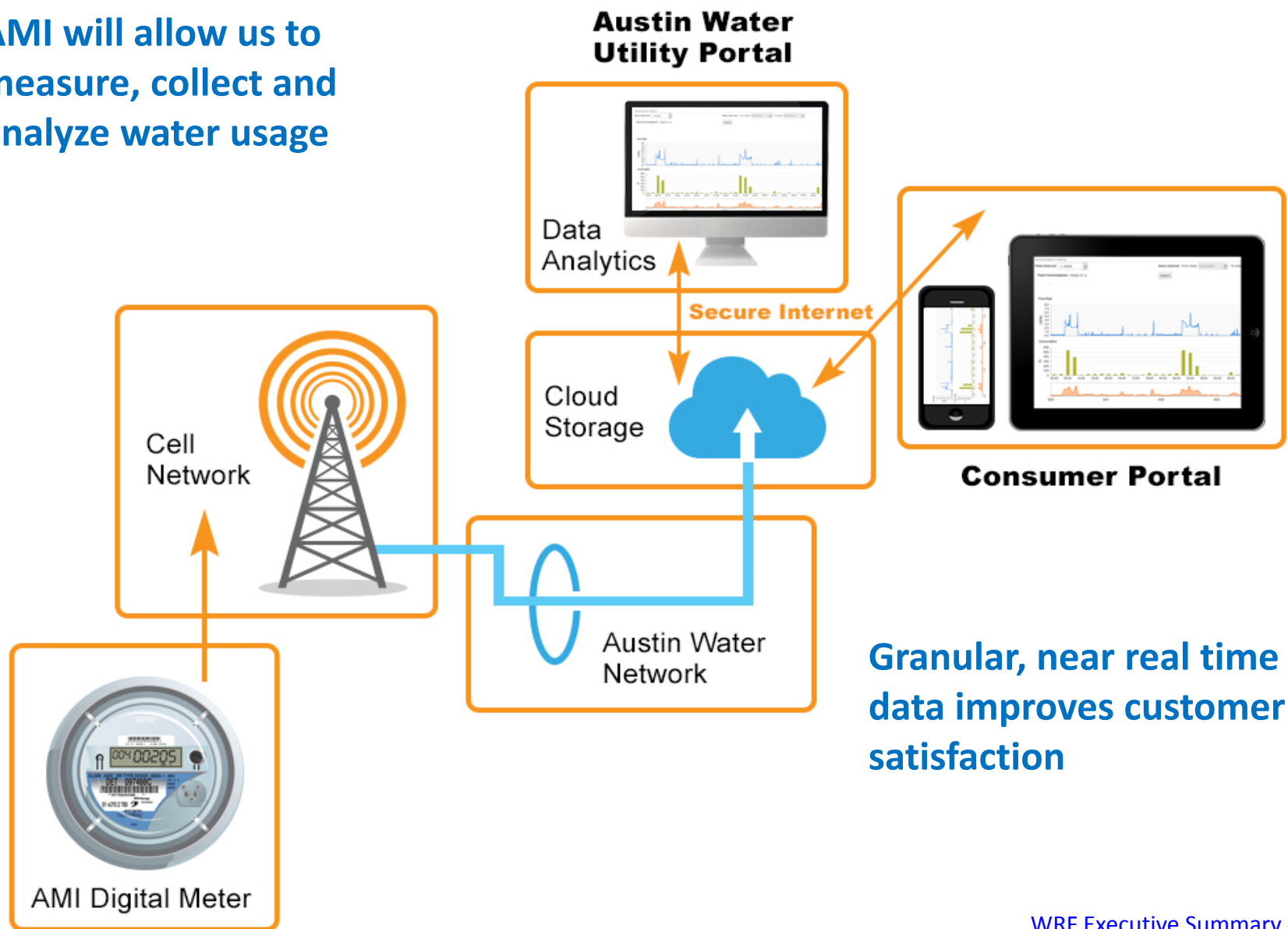


AMI Committee Agenda Roadmap

	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
External			Draft RFP		Solicit RFP		Water & Wastewater Commission	City Council	Planning Phase Begins
Internal		ET Quarterly Update			ET Quarterly Update			ET Quarterly Update	
		Leadership Summit			COA Budget Development			Leadership Summit	
		COA Business Planning							
	AW CIP Development								
AMI Steering Committee	AMI Vision & Goals Finalized		Update to W&WWC Pecan Street Inc. Lab Tour	Pilot Update					Consultant Kick-off Meeting

What is AMI?

AMI will allow us to measure, collect and analyze water usage



Granular, near real time data improves customer satisfaction

- **Effective Utility Management Attributes**
 - **Customer Satisfaction**
(Public Trust)
 - **Infrastructure Stability**
(Meter Replacement)
 - **Water Resource Adequacy**
(Conservation)
 - **Financial Viability**
(Effective balance between O&M expenditures and revenue)
 - **Operational Optimization**
(Truck Rolls, System Integration Efficiencies)



- **Mayor Adler at SXSW ECO (Oct. 12th) (Briefing)**
- **Smart Cities Innovation Summit in June 2016**
 - <https://gsc3.city/cities/austin-usa>
- **Pecan Street Inc.**
- **City of Austin partnership with University of Tx.**
- **US Texas TAG Membership with Accelerate H2O and Isle**

Partial List of Business Process Goals for AMI

- **Leverage AMI water demand data**
 - **Transition from Manual Reading to Automated**
 - **Improve water conservation effectiveness and monitoring**
 - **Enhance revenue opportunities**
- **Increase stakeholder understanding and support**
 - **Improve communication and transparency with customers**
- **Improve metering services**
 - **Reduce Truck roll outs, diagnose problems, replace meter**
- **Develop strategies to handle “big” data**
 - **Data Storage, data analysis, system integrations.**



RIVER PLACE PILOT

Why Glenlake & River Place?

- **Topography Challenge**
- **Maintenance History Unknown**
- **Separate from AW System**
- **Wells Installed Unknown**
- **Higher than Average Water Usage**
- **District Meter Area Set Up (relatively small meter population)**



Current Pilots

PHASE I

- AW deployed 150 meters in August to River Place residents
 - 1 meter not reading (Cell Service)
- 12 meters deployed in Glenlake

PHASE II

- Launch **Water Scope & dropcountr** consumer portals
- Customer Satisfaction & Accessibility

PHASE III

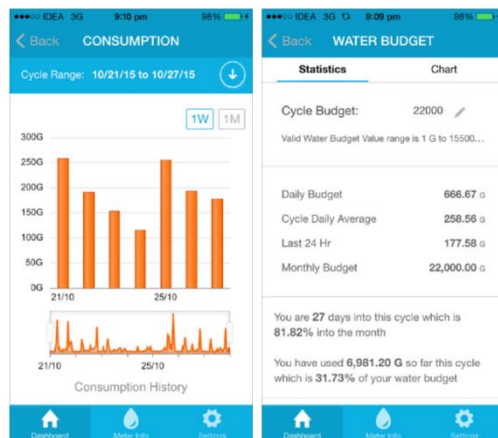
- Billing System Integration
 - Timeframe - TBD

dropcountr

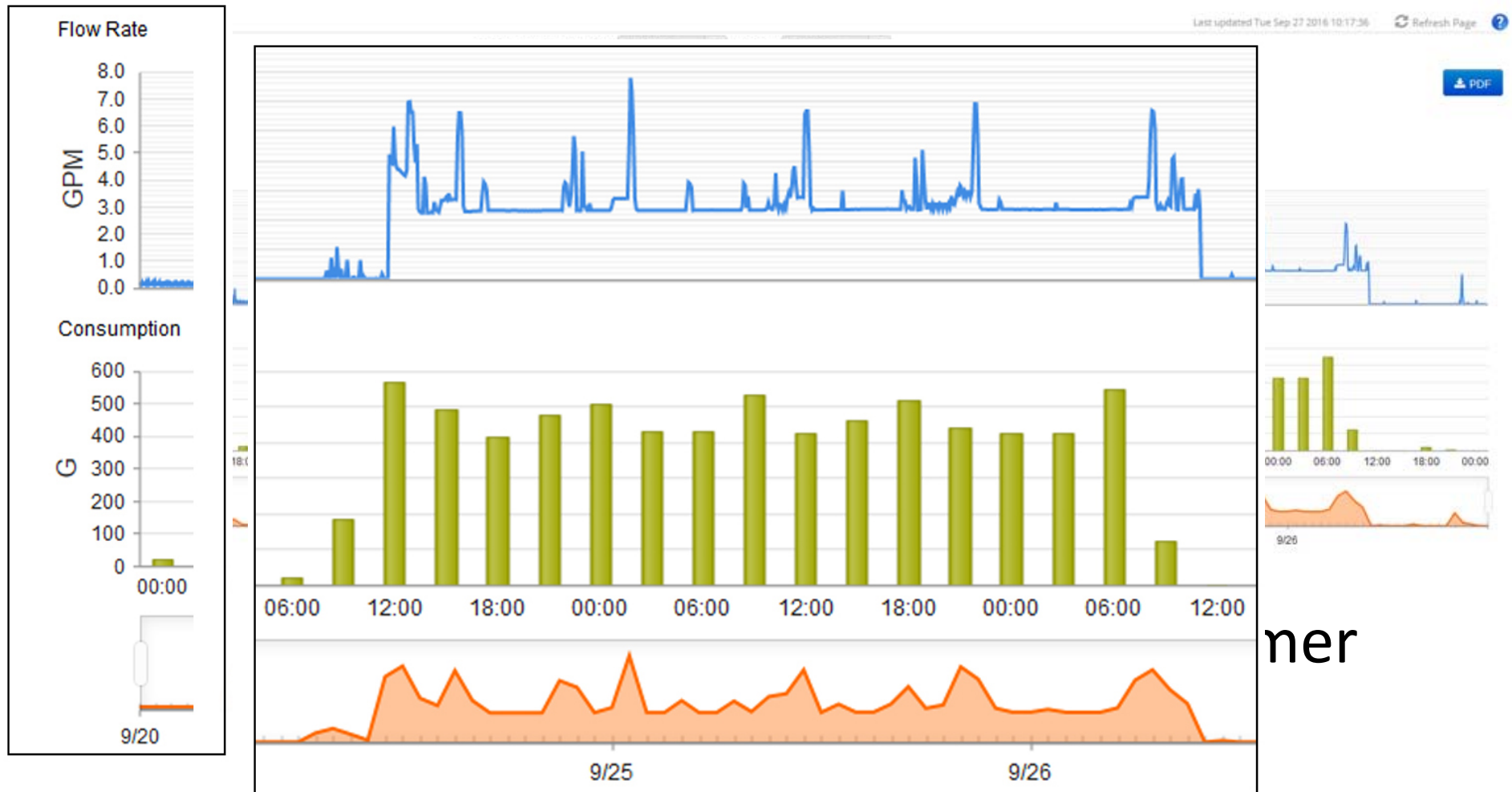


WaterScope Metron
Transparent Technologies

GET



River Place Leak Detection



ner

Two Days of Consumption

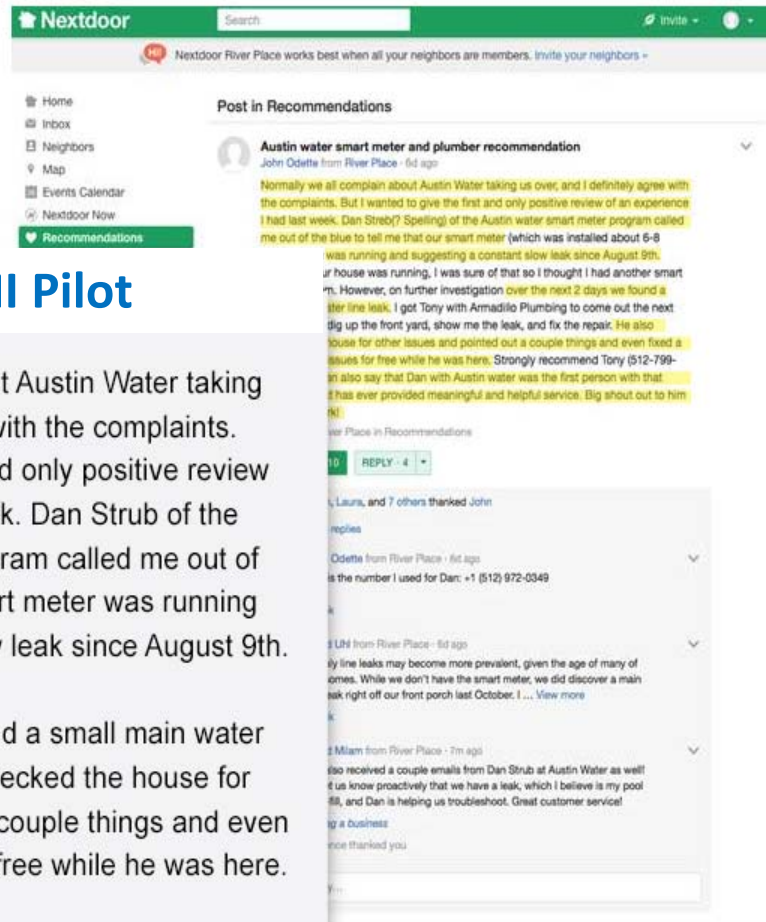
AW Critic thanks AW for AMI Pilot

"Normally we all complain about Austin Water taking us over, and I definitely agree with the complaints. But I wanted to give the first and only positive review of an experience I had last week. Dan Strub of the Austin Water Smart Meter Program called me out of the blue to tell me that our smart meter was running and suggesting a constant slow leak since August 9th.

... over the next 2 days we found a small main water line leak... The plumber also checked the house for other issues and pointed out a couple things and even fixed a couple small issues for free while he was here.

... I can also say that Dan with Austin Water was the first person with that monopoly that has ever provided meaningful and helpful service. Big shout out to him for strong work!"

Caught private side water leak in 2 days

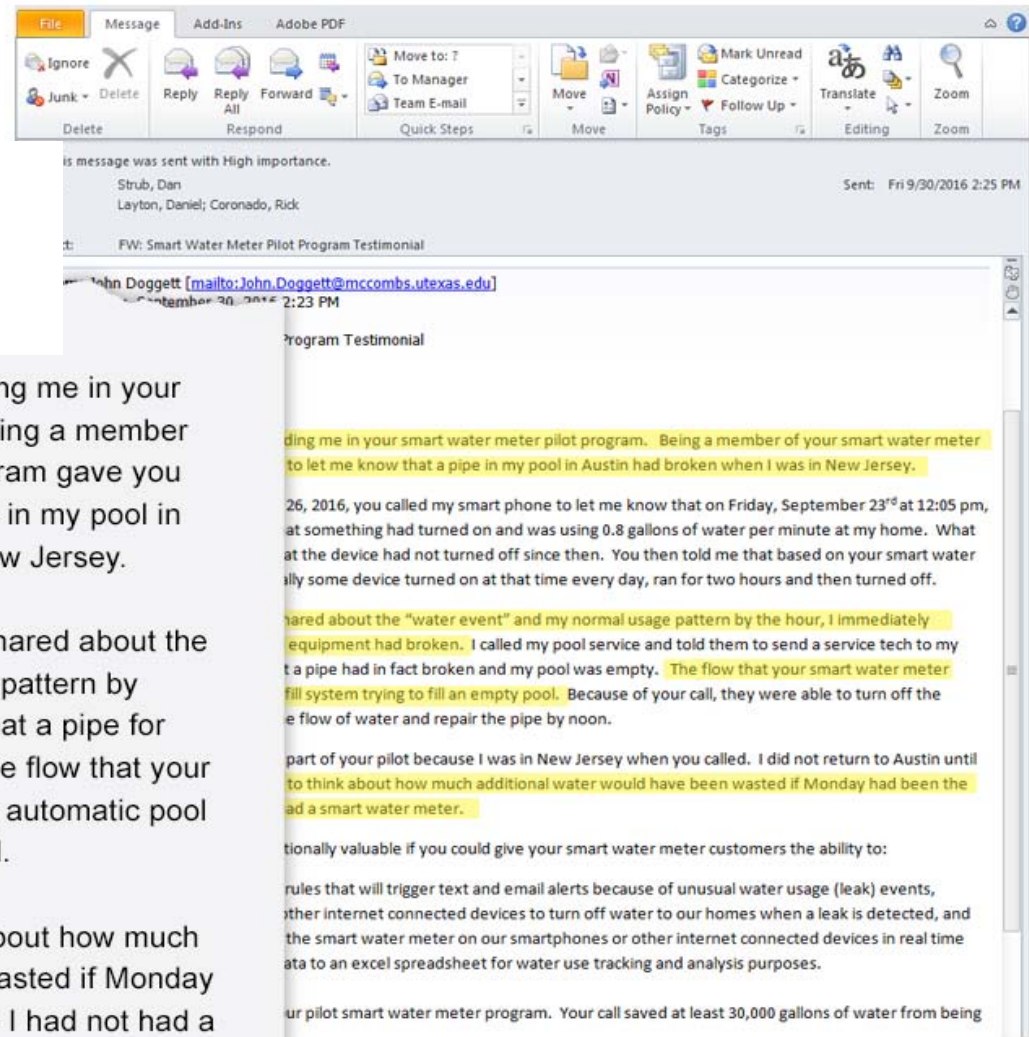


Vacationing River Place resident finds out about water leak while he's out of town

"I am writing to thank you for including me in your smart water meter pilot program. Being a member of your smart water meter pilot program gave you the ability to let me know that a pipe in my pool in Austin had broken when I was in New Jersey.

... Because of the information you shared about the "water event" and my normal usage pattern by the hour, I immediately suspected that a pipe for my pool equipment had broken... The flow that your smart water meter detected was the automatic pool fill system trying to fill an empty pool.

... I don't even know what to think about how much additional water would have been wasted if Monday had been the first day of my trip and I had not had a smart water meter."



<https://www.waterscope.us>

