

AUTOMATED METER READING (AMR) MIGRATION STRATEGY

TTI COMMITTEE

SHERRI WINSLOW, DEPUTY DIRECTOR CUSTOMER ACCOUNT SERVICES February 12, 2018

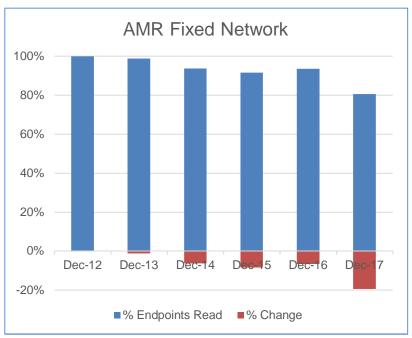


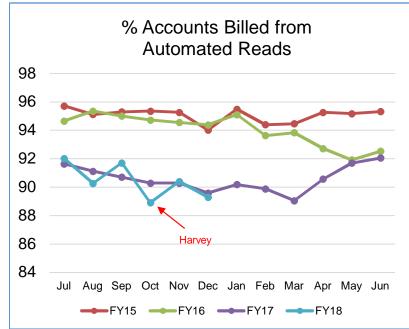
EXECUTIVE SUMMARY

In 1998, City Council approved implementation of an automated meter reading system which has saved the City approximately \$107M through FY2017.

The 20+ year old system must be replaced as it is nearing the end of its life expectancy and experiencing a decline in reliability.

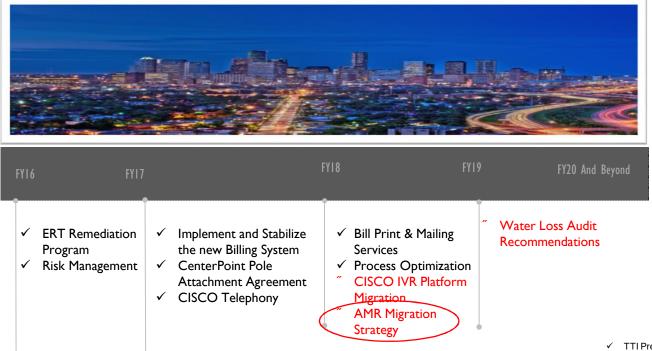
OPERATIONAL IMPACTS





VISION 2020

Customer Account Services – 5 Year Strategic Plan



- ✓ TTI Presented/Council Approved″ Pending TTI Presentation/Council Approval

TECHNOLOGY ASSESSMENT



3X the cost of ITRON endpoint.

Increased cost due cellular technology and multiple systems throughout the 10 year buildout.

PWE-IT discontinuing the server.

Significant legal implications.

Cost prohibitive as it requires new meters and endpoints.

6. Itron FN . obsolete

7. Itron Riva

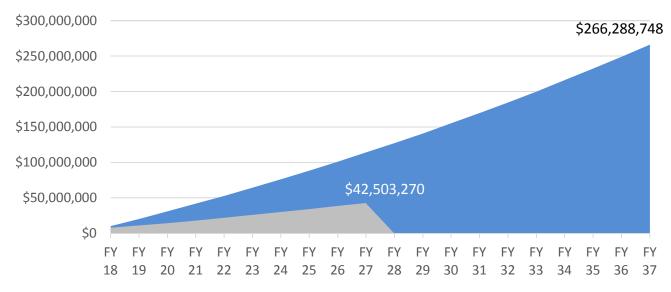
- Lower operating cost. Ease of buildout
- Potential use by other PWE Service Lines.

RECOMMENDATION



- I. Lower Operating Cost
- 2. Potential Interoperability with other HPW Service Lines
- 3. Ease of Buildout/transition

BUSINESS CASEITRON RIVA – 20 YEAR COST BETWEEN ALTERNATIVES*



■ Cumulative Savings - AMR versus Manual Meter Reading

■ Cumulative Cost to Replace AMR Infrastructure

^{*}Labor and material costs escalated 3% annually

^{**}Replacement to occur over 10 years

OTHER BENEFITS

| 1 | Plan Houston Alignment | Spend money wisely Sustain quality infrastructure Protect and conserve our resources Partner with others, public and private |
|---|------------------------|---|
| 2 | Customer Satisfaction | Expedited customer issue resolutionWater usage data via leak and consumption alerts |
| 3 | Operational Efficiency | Billing efficiencyFewer manual meter readings |
| 4 | Environmental | Supports conservation and water loss reduction initiativesAvoids incremental fleet costs and associated miles driven |
| 5 | Financial | Approximate 3.2 year paybackCost avoidance on average of approximately \$13M annually |

PROGRESS TO DATE AND NEXT STEPS

| 1 | Presentation to ITOC | | October 15, 2017 | |
|---|--|---------|-------------------|--|
| 2 | Funding Commitments | | November 21, 2017 | |
| 3 | PWE Director Approval | | November 27, 2017 | |
| 4 | Proof of Concept | | December 5, 2017 | |
| 5 | ITGB Presentation | | January 18, 2018 | |
| 6 | TTI Presentation | | February 12, 2018 | |
| 7 | RCA Approval – Appropriating Ordina Purchasing Authority | 3Q FY18 | | |
| 8 | RCA Approval – Itron Contract Outyea | 4Q FY18 | | |
| 9 | Implementation | | 4Q FY18 – FY28 | |

REQUEST FOR COUNCIL ACTION

Request approval of an Appropriation Ordinance, Contract, and Purchasing Authority for Automated Meter Reading System Migration for Houston Public Works.

Estimated Spending Authority – Over the 10 year project

| | FY18 | OUTYEARS | TOTAL |
|-----------|-------------|--------------|--------------|
| FUND 8500 | \$7,017,307 | \$29,785,024 | \$36,802,330 |
| FUND 8300 | \$503,506 | \$5,197,434 | \$5,700,940 |
| TOTAL | \$7,520,813 | \$34,982,457 | \$42,503,270 |

Presented to Budget & Fiscal Affairs Committee as a Key Initiative in the FY18 Budget

Expenditures planned and budgeted in FY18 (Funds 8500)

THANK YOU

questions?