



Effectively managing your resources

Presented by:

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Lead – Water Solutions

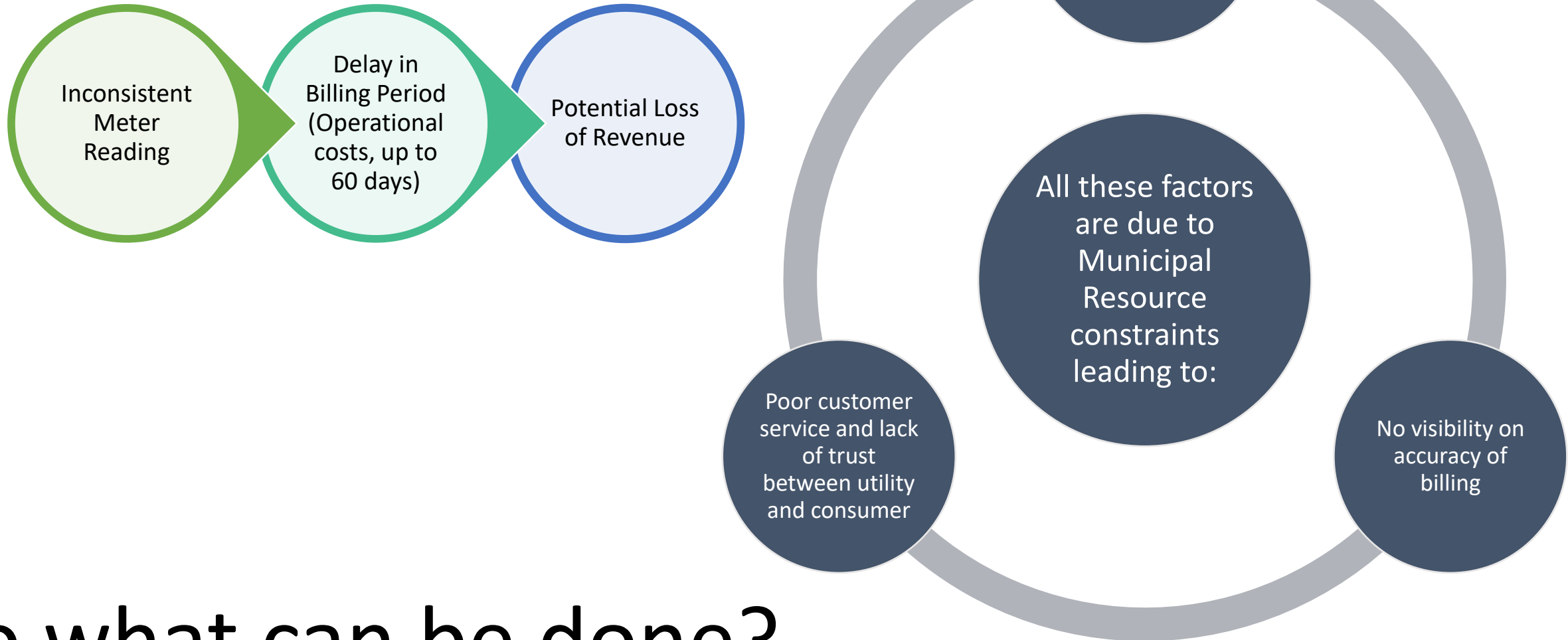


SARPA

The Impact of an Integrated Approach to Smart Metering

PROBLEM STATEMENT

Problem Statement



So what can be done?

BUSINESS CASE BACKGROUND

Primary Output Objectives

Conditions of Satisfaction:

Consistent and accurate meter reading data within the first week of every month;

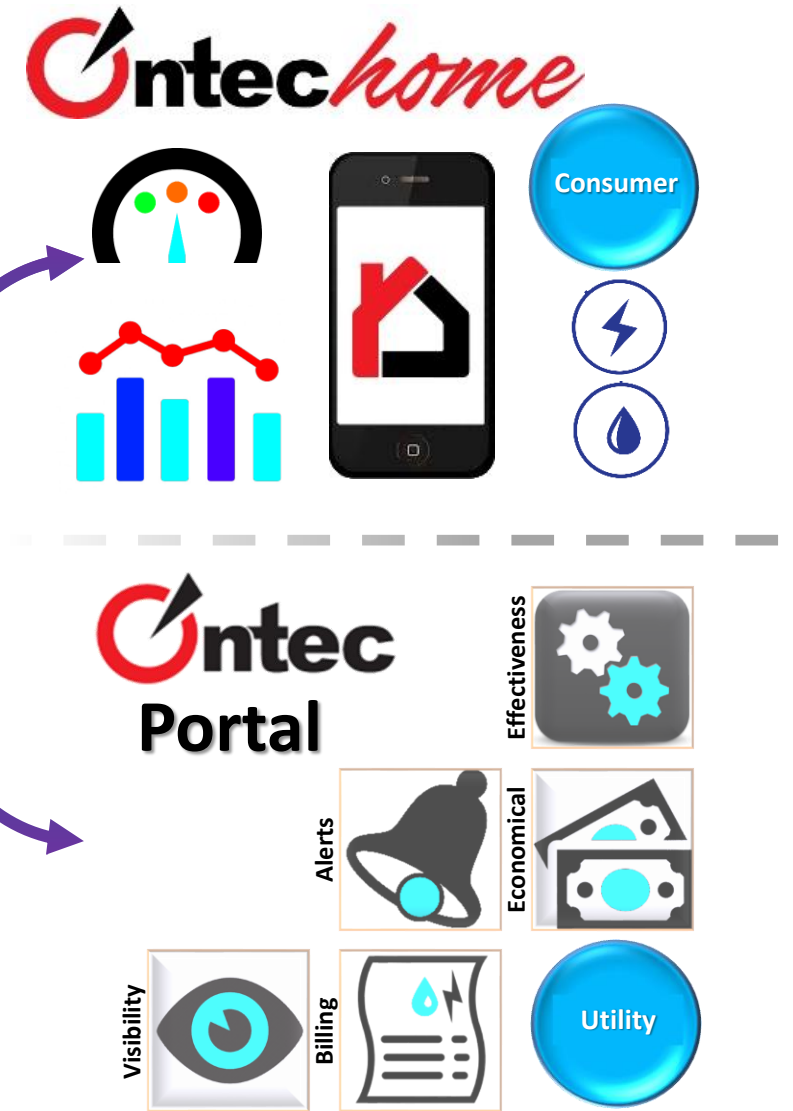
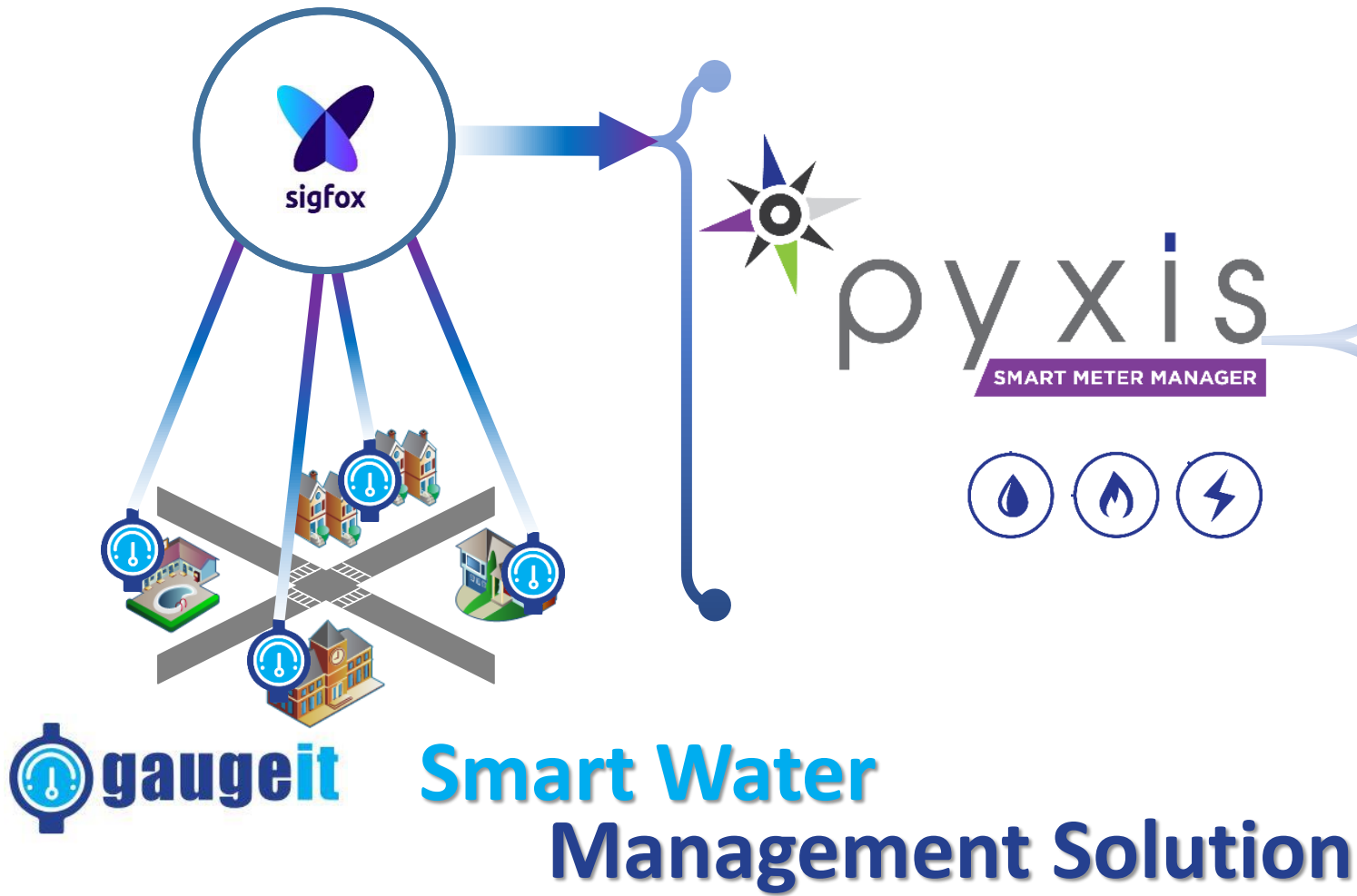
Demonstrate reliable IoT comm's between metering device and IoT network;

Leak detection alarm notification, to Municipality

Displaying value of meters with high read accuracy and reliability;

Successful Knowledge transfer to Municipality

PROJECT IMPLEMENTATION



FINDINGS

Findings

- » 5 Domestic inline meters and 1 Bulk Meter inline
 - 2 x Domestic Meters (40%) have picked up huge leaks

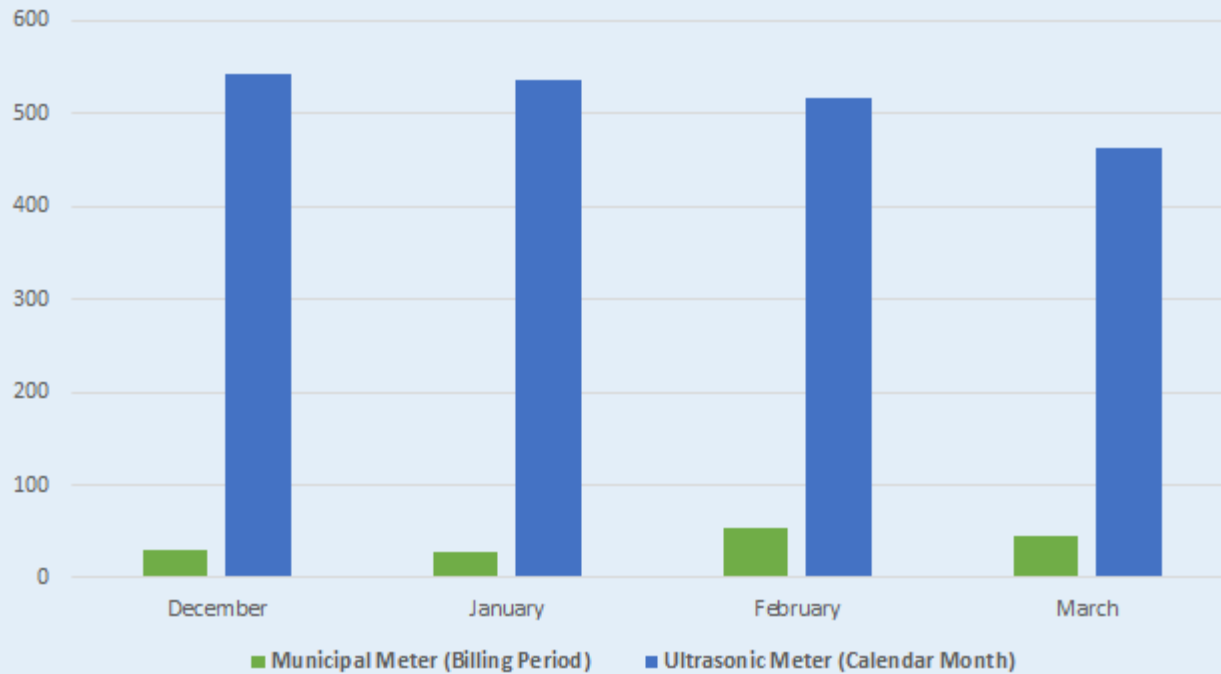


- Municipal Readings very inconsistent verses Ultrasonic Readings (Bulk Meter)

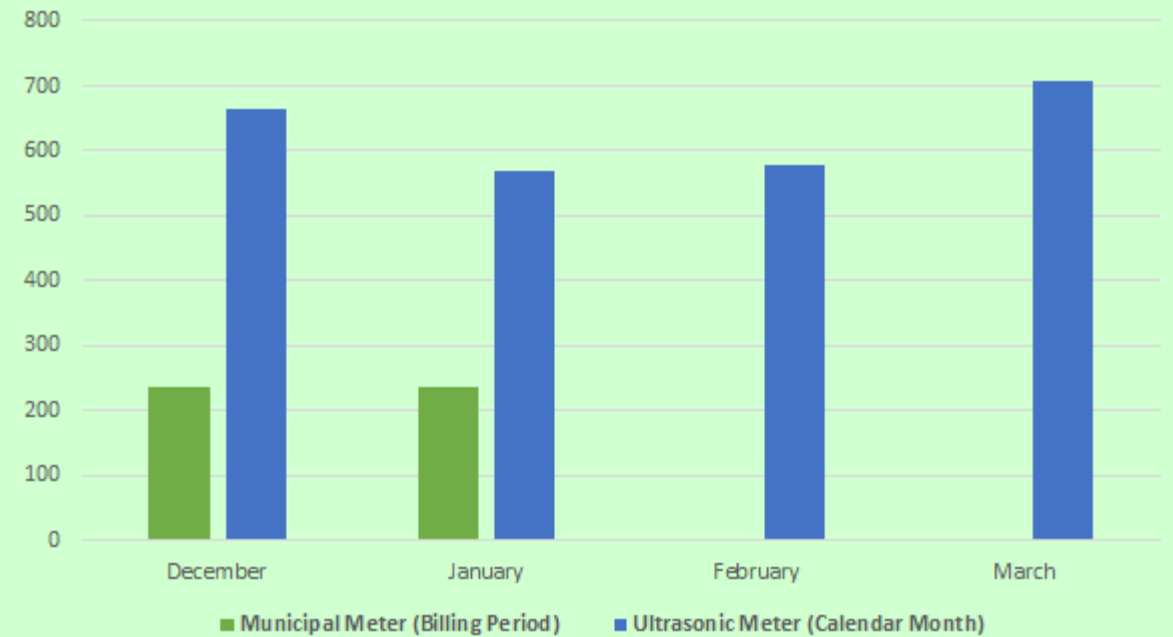


Findings Continued

House A

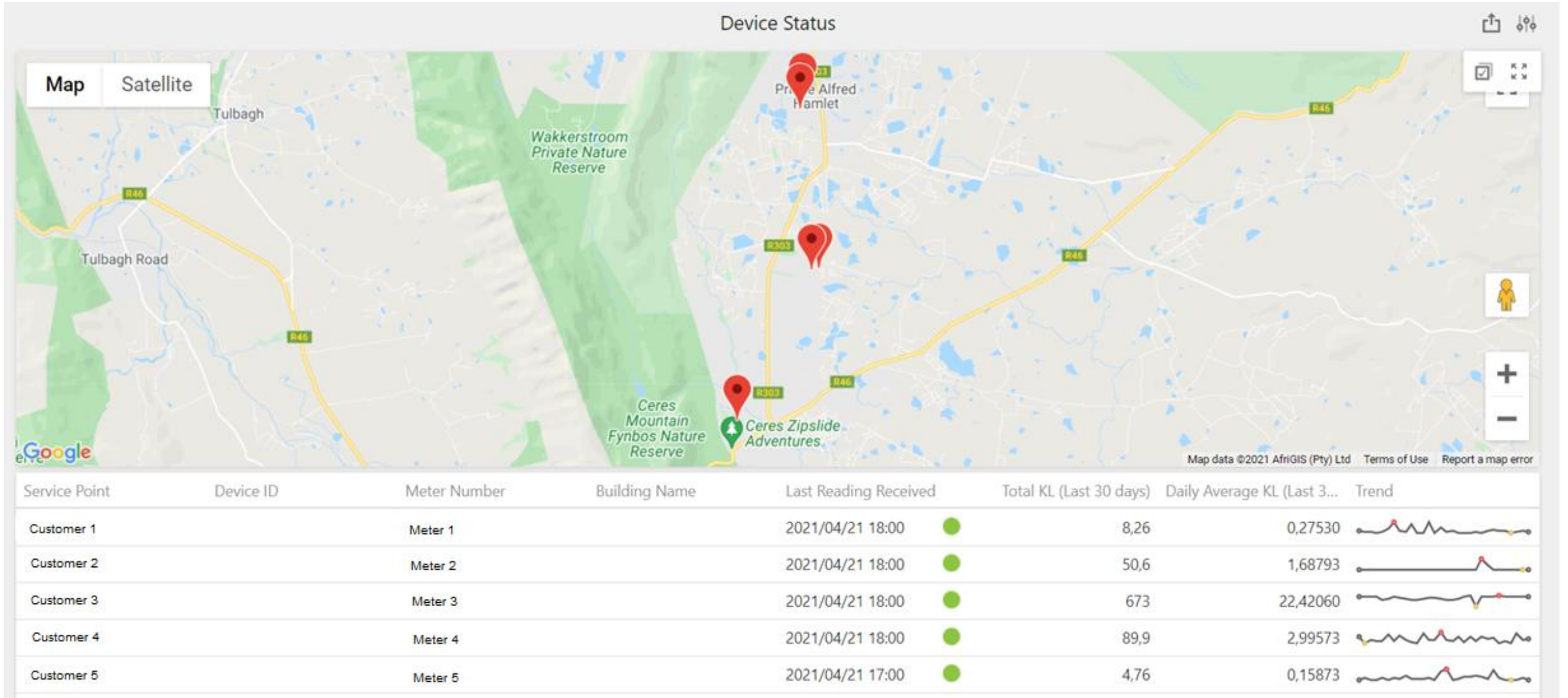


House B



PORTAL OVERVIEW

Portal Overview



COMPARATIVE ANALYSIS

Comparative Data Analysis

Estimated

Leak

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Hospital (Ultrasonic Meter)		1234	1171	1236	1060	15819	16248	1167	1264	1272	16401	1447	1453	1505	1722	1297	1347
Hospital (Municipal Meter)	381	814	683	801	656	593	606	617	934	901	822	921	779	1935			
Hospital (Difference)	-381	420	488	435	404	15226	15642	550	330	371	15579	526	674	-430			
Hospital (Revenue Difference)		R4 158	R4 831	R4 307	R4 000	R150 737	R154 856	R5 445	R3 267	R3 673	R154 232	R5 207	R6 673	-R4 257			
(Ultrasonic Meter)													12	16	12	4	
(Municipal Meter)													96	99			
(Difference)													-84	-83			
(Revenue Difference)													-R788	-R779			
(Ultrasonic Meter)													18	14	10	8	
(Municipal Meter)													212	0			
(Difference)													-194	14			
(Revenue Difference)													-R1 820	R131			
(Ultrasonic Meter)													73	81	96	65	95
(Municipal Meter)													18	139			
(Difference)													55	-58			
(Revenue Difference)													R516	-R544			
(Ultrasonic Meter)													527	532	603	563	70
(Municipal Meter)													28	54			
(Difference)													499	478			
(Revenue Difference)													R4 681	R4 484			
(Ultrasonic Meter)													728	633	627	734	
(Municipal Meter)													236	0			
(Difference)													492	633			
(Revenue Difference)													R4 615	R5 938			
Commercial Building (Ultrasonic Meter)														20319	25298		
Commercial Building (Municipal Meter)														20104	25393		

Tariff:

R9.90 | Hospital

R9.38 | Residential

R3.17 | CFP



TOTAL COST OF METER OWNERSHIP

Total Cost of Meter Ownership

It is Imperative to consider the value offering along the meter operational life-time!

Total Ownership Cost

Meter Price





Cost of meter installation

Cost of meter replacement (10 Yr)

Non accounted water cost along meter lifespan

Operational Lifespan

Potential Saving %

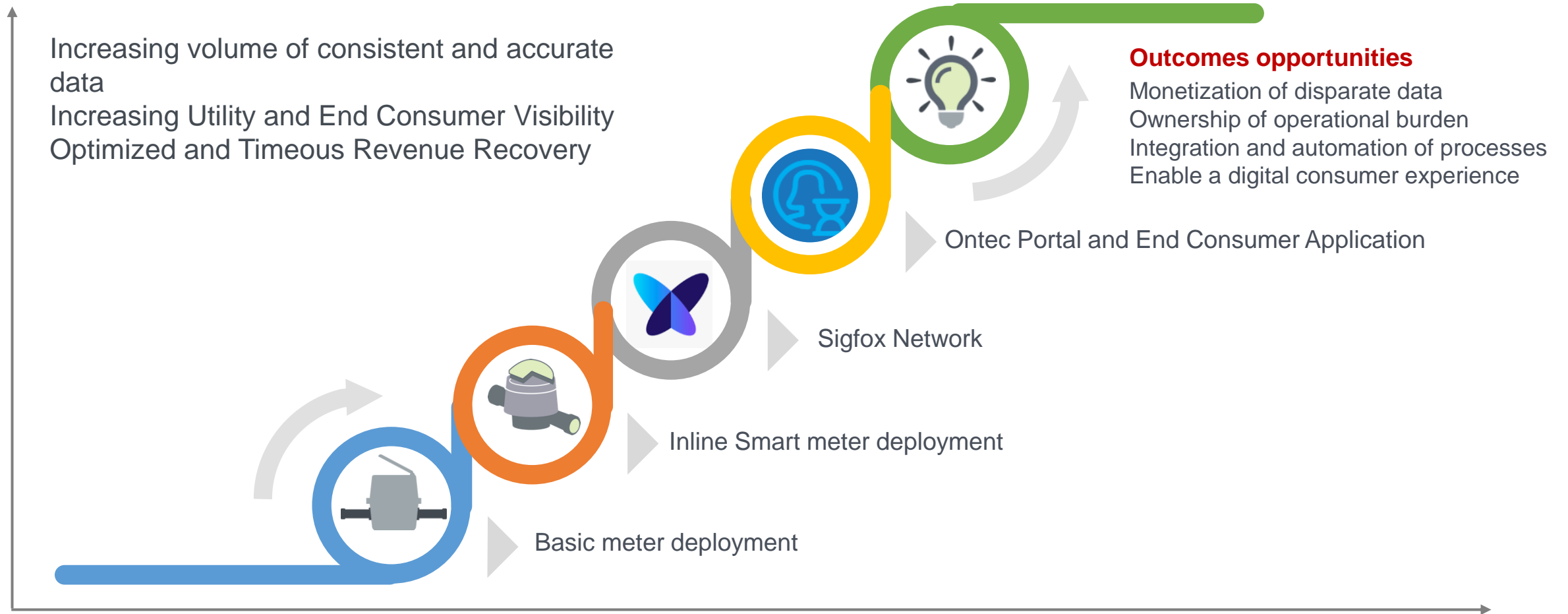
			
Mechanical		Ultrasonic	
	% Relative to Total Cost of Ownership		% Relative to Total Cost of Ownership
	100%		100%
	15%		75%
	18%		25%
	18%		0%
	48%		0%
9 - 10 Years		15 Years	
25% LOSS		25% SAVING	

Metering Efficiency is Key

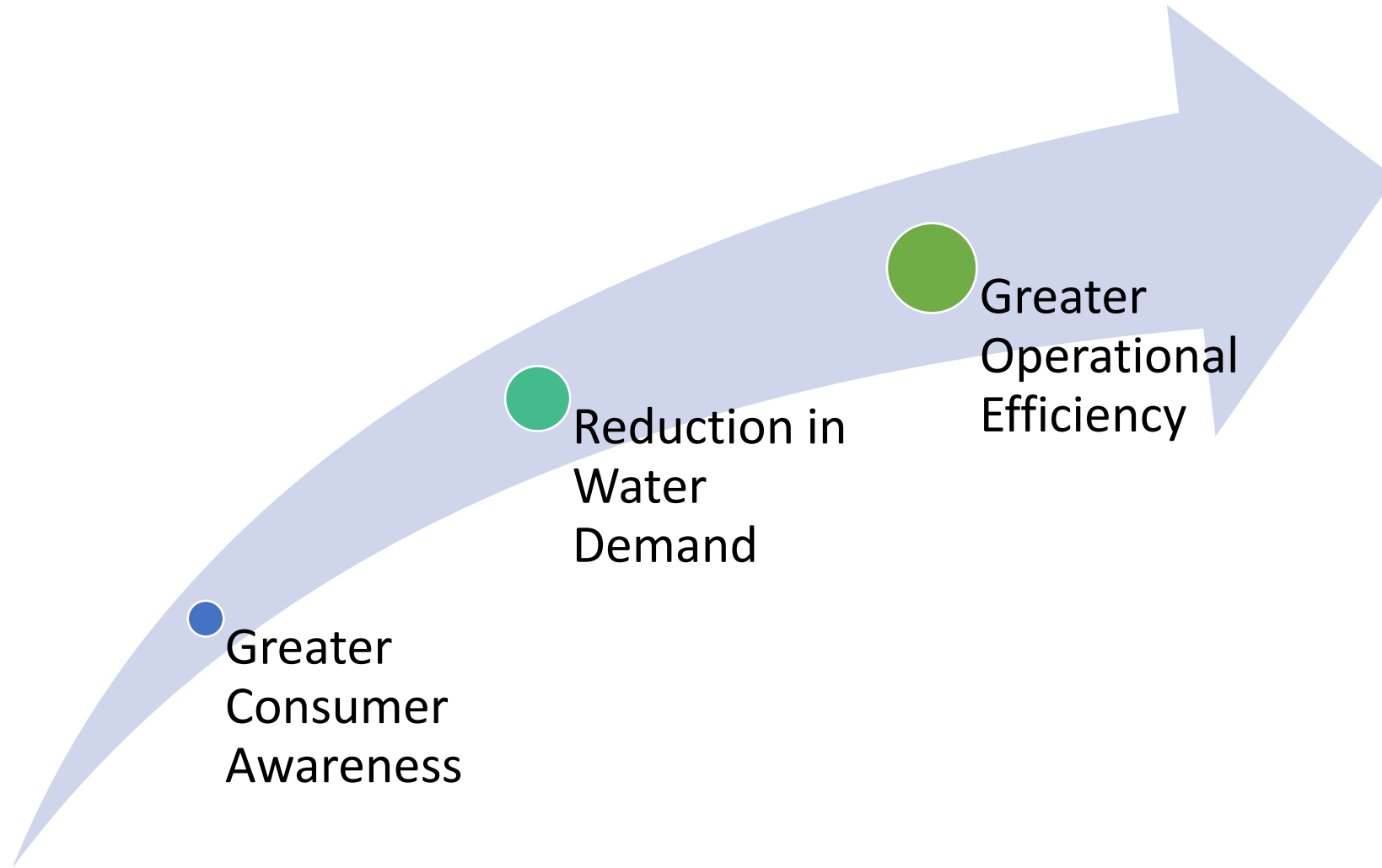
CONCLUSION

CUSTOMER JOURNEY

Realizing opportunities for outcomes



Value Proposition



Conclusion

Addressing Inconsistent Meter Reading

- By virtue of Smart Metering Rollout, meter reads can be consistently available within the first week of each month

Addressing Delays in Billing Period (Operational costs, up to 60 days)

- Billing periods can be significantly reduced taking no longer than two days from data collection to bill issuing

Addressing Potential Loss of Revenue

- By virtue of consistent remote monitoring and reading, accurate account of billable revenue for water utility services can be recovered

QUESTIONS



Ontec is your Turnkey Utility Solutions Provider



THANK YOU

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REGISTRATION NO. 1999/017764/07

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