

DC Water

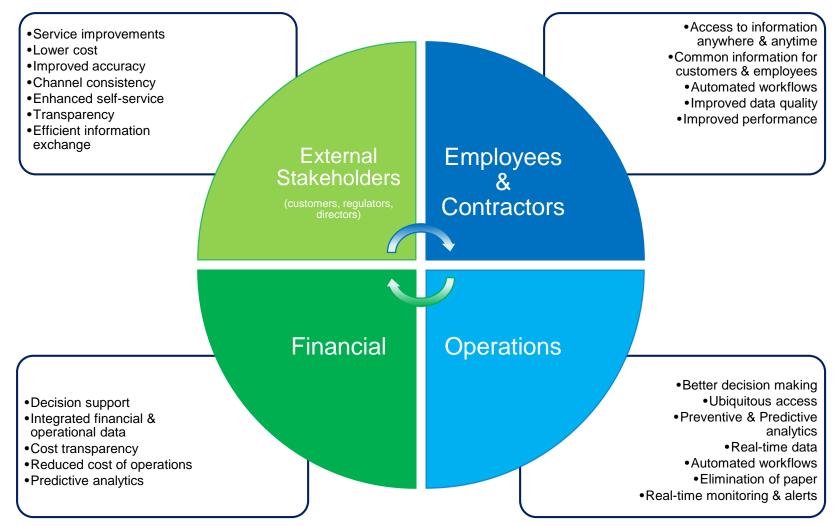
Creating the Digital Utility

"The foundation of the Smarter Water Utility"



Benefits of the Digital Utility

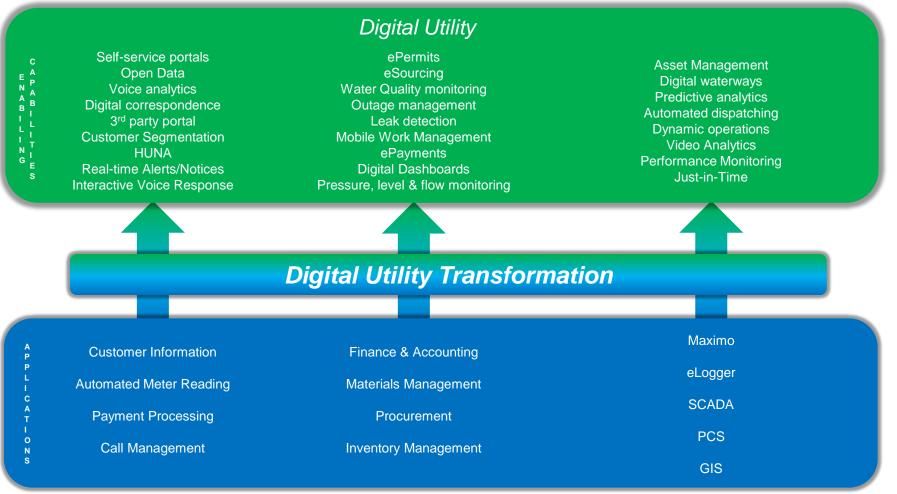
An effective **Digital Utility** strategy has positive impacts across a range of stakeholders and processes both internal and external.





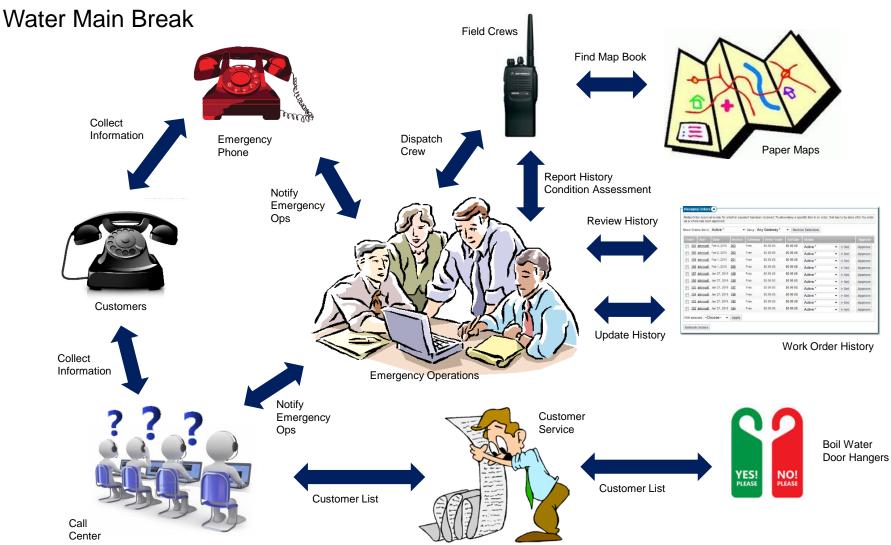
The Digital Profile

The **Digital Utility** is characterized by enabling capabilities that allow for proactive management of all aspects of the business. The **Digital Utility** thinks in the terms of a Systems View rather than a single application or transactional requirement. The lines of source systems blur for the **Digital Utility** as the focus shifts from collecting data to applying knowledge.



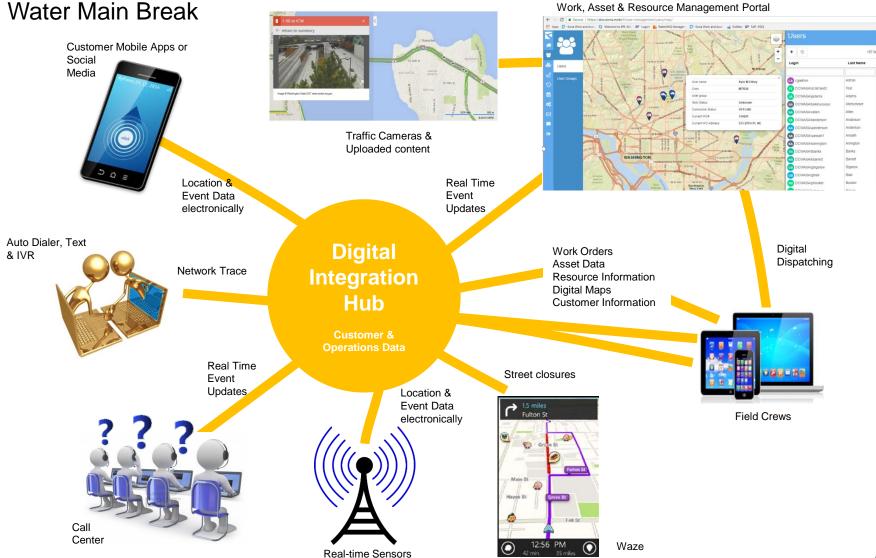


Traditional Process





Digital Enablement

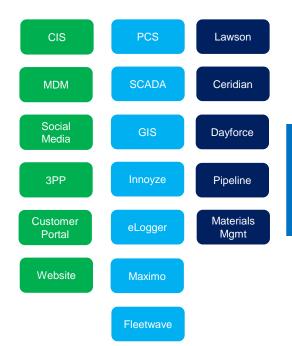




The Digital Utility Transformation

The existence of digital silos and digital islands coupled with the absence of an enterprise data model and standard definitions for core information assets prevents the organization from transitioning to a *Digital Utility*. Synchronization problems persist and more time is spent proving results rather than analyzing trends and driving performance improvements.

Digital Silos



Characteristics:

Excessive data gathering Extensive production cycle Limited sharing Limited analytics Limited time for decision making The high-level enterprise data model is influenced by 3 primary entities:

CUSTOMER

The information assets that define our customers and the relationships with them. Systems that contain customer data include: CIS, Collections, Meter Reading, Social Media, Customer Portal, 3PP

OPERATIONS

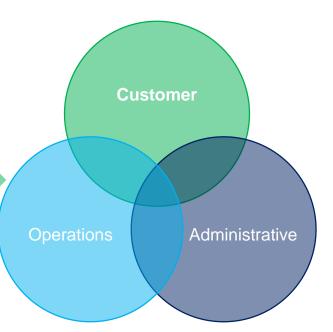
The information assets that define the operational activities the company performs. Systems that contain operational information include: PCS, SCADA, P16, Innovyze , eLogger, Maximo

ADMINISTRATIVE

The information assets that define the support functions required to run the company. Systems that contain support data include: Dayforce, Ceridian, Lawson, Pipeline

Common relationships exist between the primary entities but are not clearly defined and multiple interfaces exist to move data between applications. The absence of accurate meta-data can lead to inaccurate results and makes end-user reporting and analysis difficult.

Digital Utility



Characteristics:

Automated data gathering Automated data production Seamless sharing Automated & adhoc analysis Informed decision making



Other Opportunities

- AMI
 - Analyze usage to identify potential leaks and alert customers
 - Overlay AMI usage to create dynamic/virtual DMA's
 - Monitor large meter performance
- Use pattern recognition technology to replace manual CCTV reviews
- Customer Segmentation to improve collections
- Integrate construction and inspection activities with Asset Management to monitor "as building" activities rather wait for "As-Built"
- Applications for 3rd party activity tracking, BPA Testing, Service installations, Permits, hydrant use
- Real-time monitoring of asset performance against baseline
- Drones for asset inspections