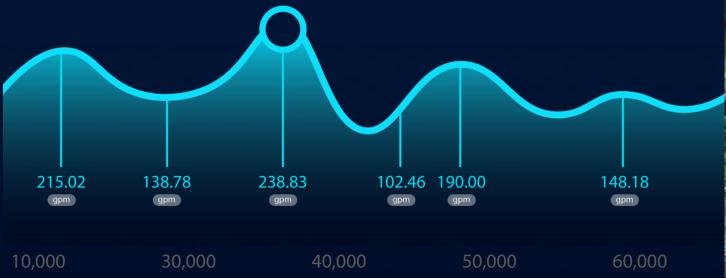
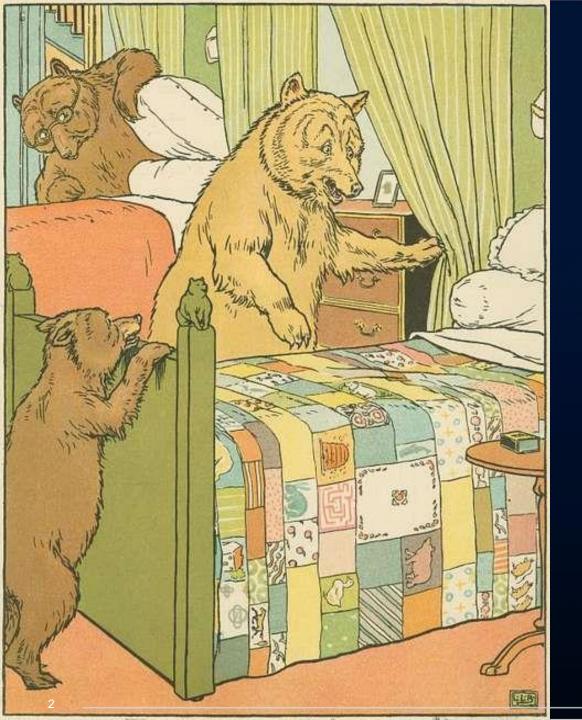


The Dreaded Data Deluge



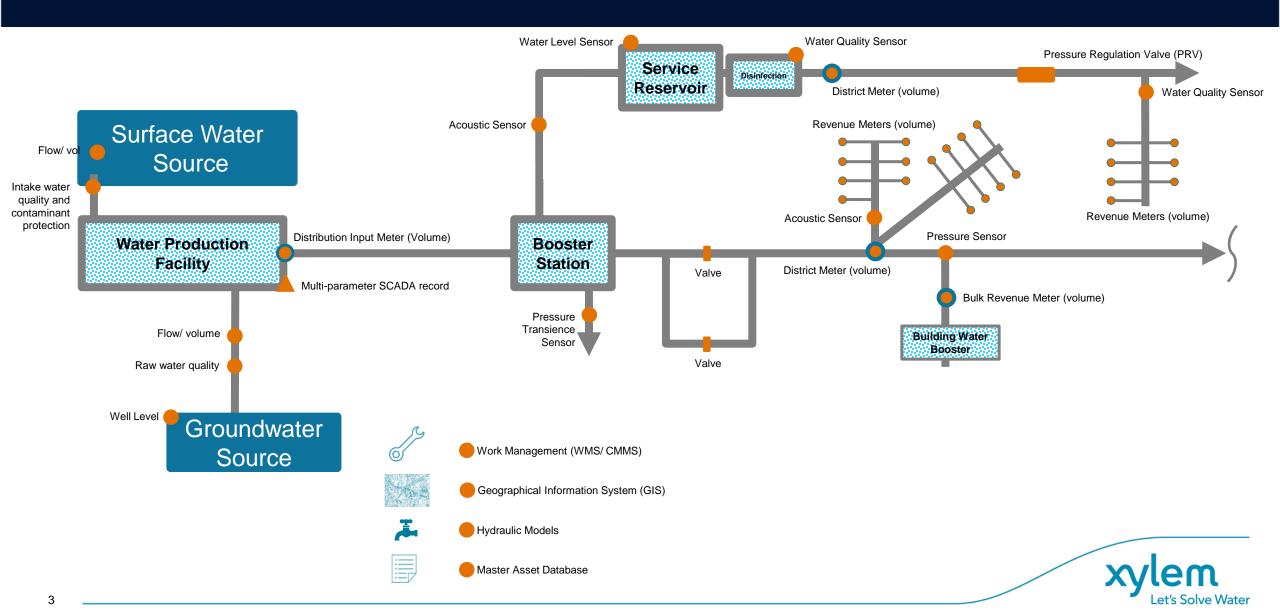




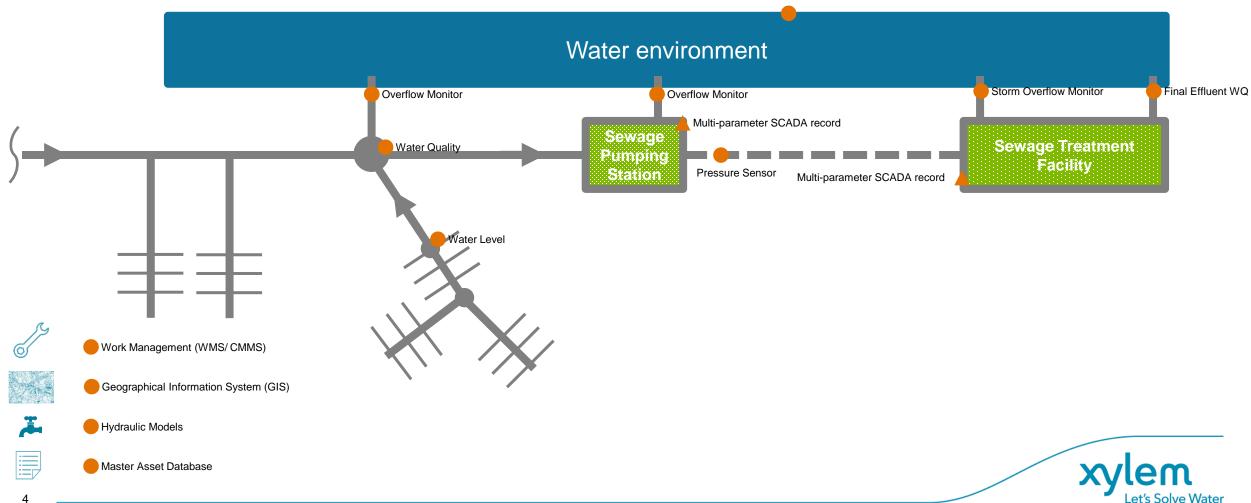
"Ahhhh, this data set is just right"



Drinking Water - asset and operational data



Wastewater - asset and operational data

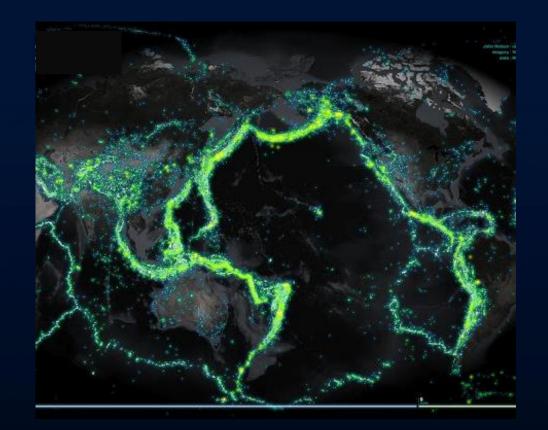


Environmental Water Quality

Audience Poll

What is the biggest source of data volume within your local utility and/ or employer?

- Work management system (CMMS etc)
- Supervision and Control (SCADA)
- Customer Record Management (CRM)





How much data?

Absolutely loads of Data, not enough insight

oelow ground

5,500 customer calls

2,000,000

SCADA Transactions

from 16500 individual assets

140 serious malfunctions

806,400 Sewer level readings

2,500 work orders

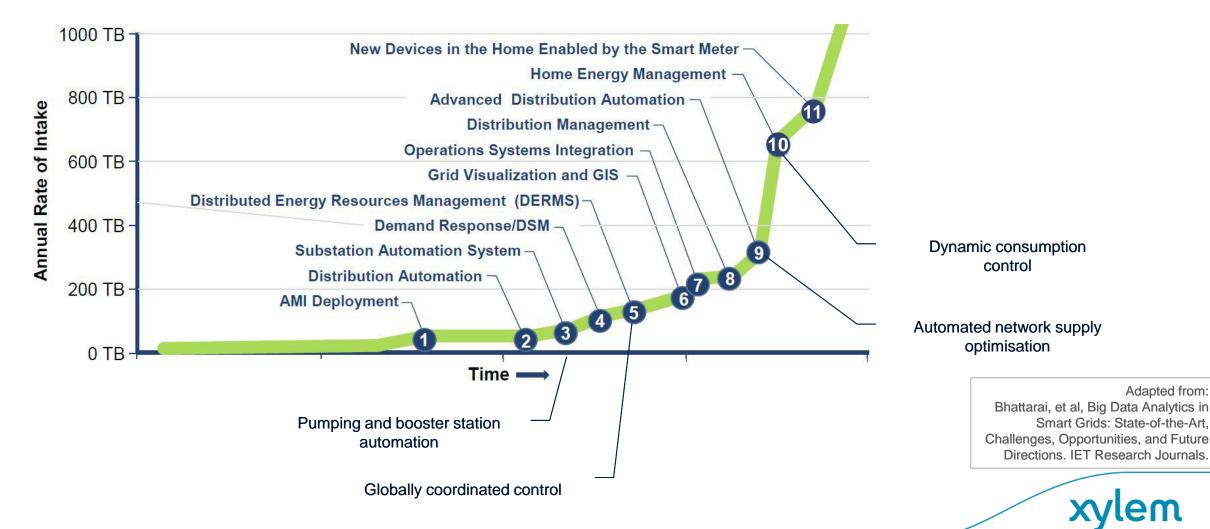
10 serious

malfunctions

3,500 work orders

Per week figures, for a large European utility's wastewater network unit

Exponential growth, exponential benefits



et's Solve Water

Data Uses: Asset Management Planning



DATA IS FIRST PRINCIPLES for efficient and effective asset management planning



Data Integration Maturity

Data Passive

Your business decisions are rarely, if ever, driven by data

Data Aware

You're collecting data, but currently only using it for measuring and reporting KPIs

Data Critical

You're beginning to develop a sophisticated approach for using data as an asset—but only for mission critical areas.

Data Driven

Your organization is thinking data first. Your systems, processes, and people are working together to use data efficiently and effectively.



Audience Poll

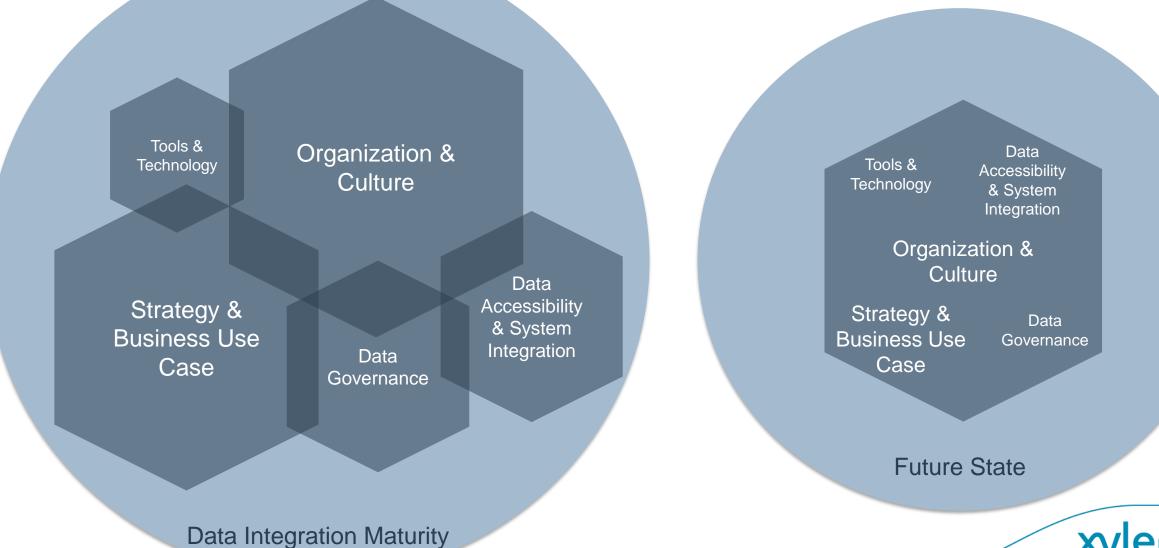
Where do you think your organization fits on the data integration maturity scale?

- Don't know
- Data Passive
- Data Aware
- Data Critical
- Data Driven





Barriers to Investing in Better Data



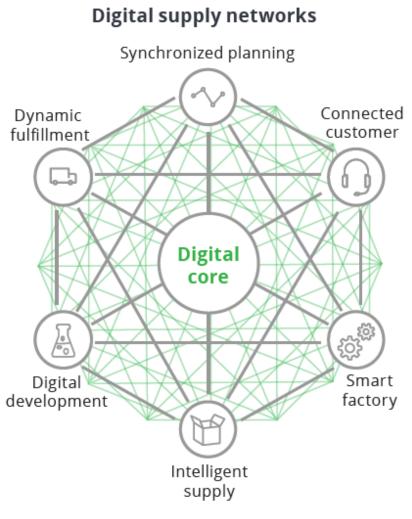
How do we Overcome these hurdles?



- Start where you are...not necessary to steer the ship in the opposite direction
- Huge initial investment not required...smarter to improve as you go

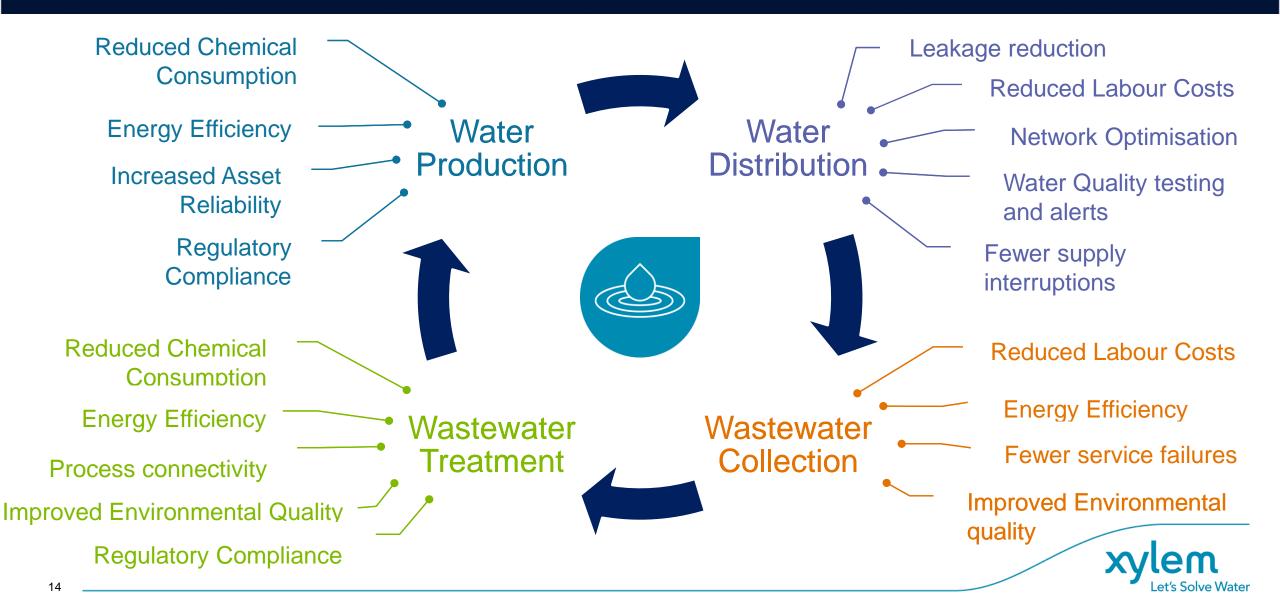


The Benefits of Interconnected Data



Deloitte Insights | deloitte.com/insights

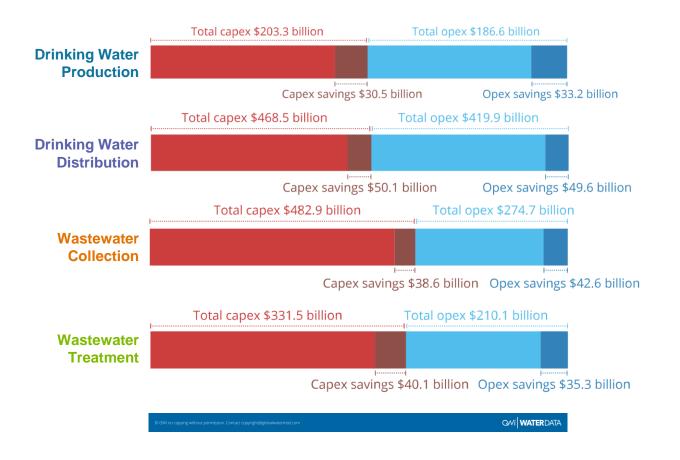
Valuing



Value of data in Water Utilities

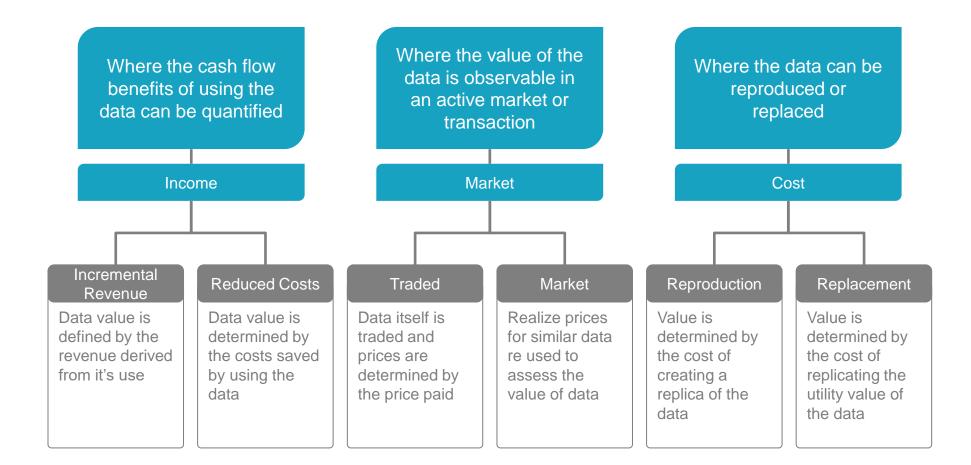
Significant capital and operational savings can be made:

- 10 20% efficiency results from data led decision making
- High quality, consistent data sets can involve significant cost and effort
- Holistic value of integrating and exploiting data resources is often uncertain.
- We need to go beyond ROI of specific projects!



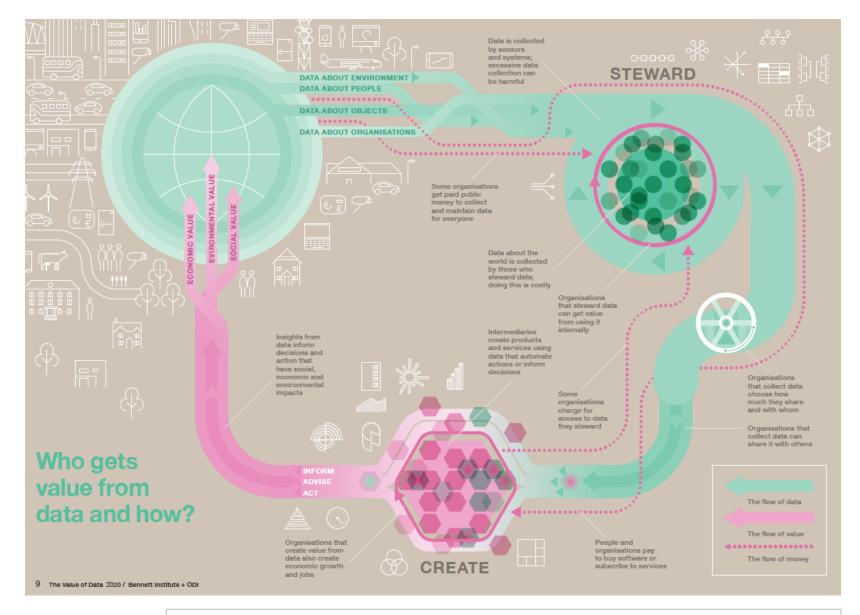


Data valuation methods



xylem

Adapted from: Putting a Value On Data, 2019. PWC.



From: Coyle, D, et al, The Value of Data summary report / 2020. Bennet Institute/ ODI/ Nuffield Foundation.

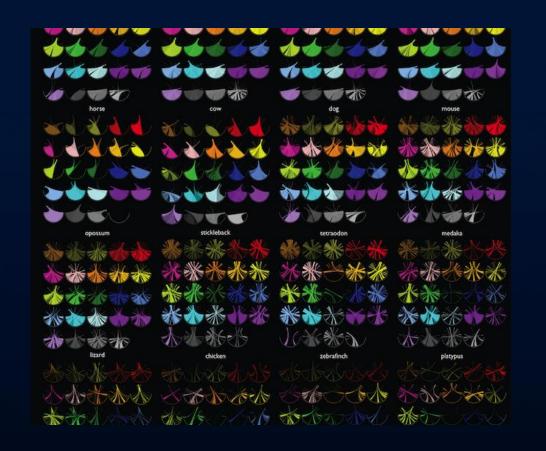
Adding value with open data



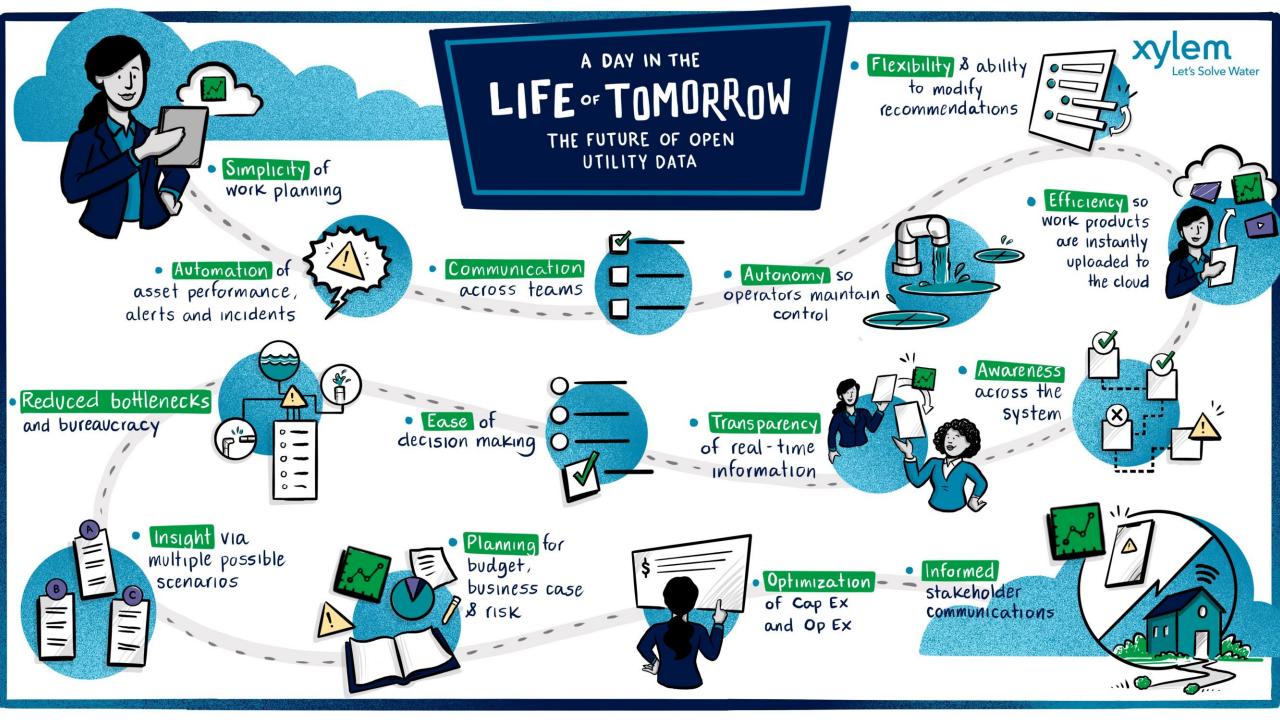
Audience Poll

How do you feel utilities can more readily generate value from their existing data

- Improve Quality (accuracy, completeness or consistency)
- Improve interoperability
- Improve accessibility and transparency







Thank you.

Speakers:

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