

IN-PERSON EVENTS | Involving. Informing. Inspiring

CIWEM Urban Drainage Group Annual Conference 2022

8 – 10 November 2022

Hilton Birmingham Metropole

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Artificial Intelligence of Things

Artificial Intelligence...

Machine Learning...

Digital Twin...

Where did these things come from?

What is the role of data?

What is the future?



James Ballard

Innovation Architect, Severn Trent

Session

Artificial Intelligence of Things Transforming Waste Networks

Wednesday, 9th Nov at 16:00

#CIWEMUDGANNUALCONF22





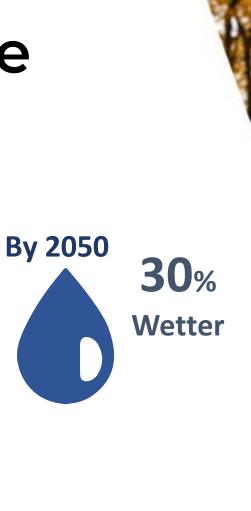
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Sector Wide Challenge

Business as usual is not enough









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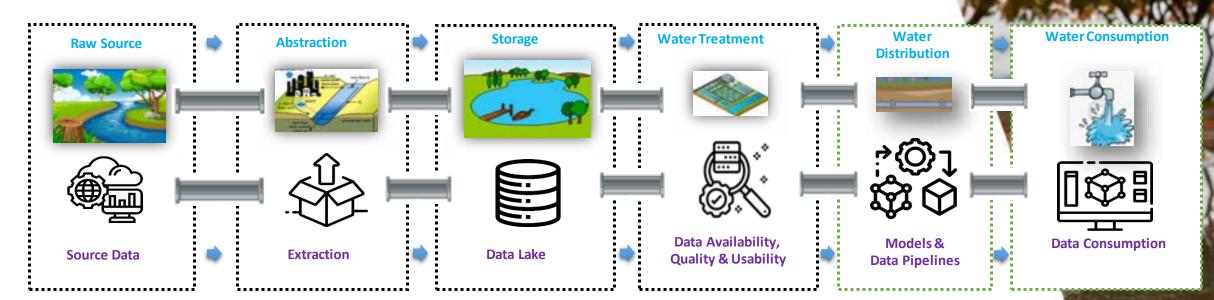




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Understanding our Data

The journey of data can be considered in a similar way to that of water...



Insights are only useful if the right data is made available, to the right people, at the right time.



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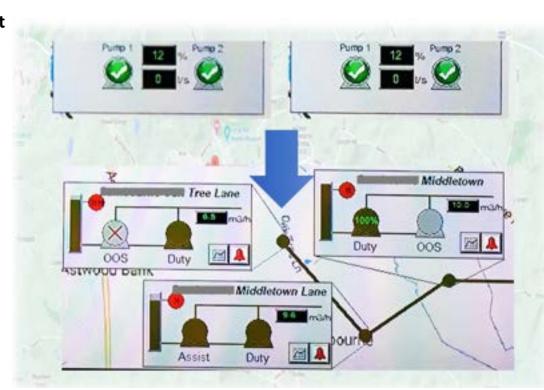
2014 - Intelligent Point Solutions

Pumping Station Point Solution

Intelligent Catchment
Optimisation
Auto-Configuration
Self-Diagnostics





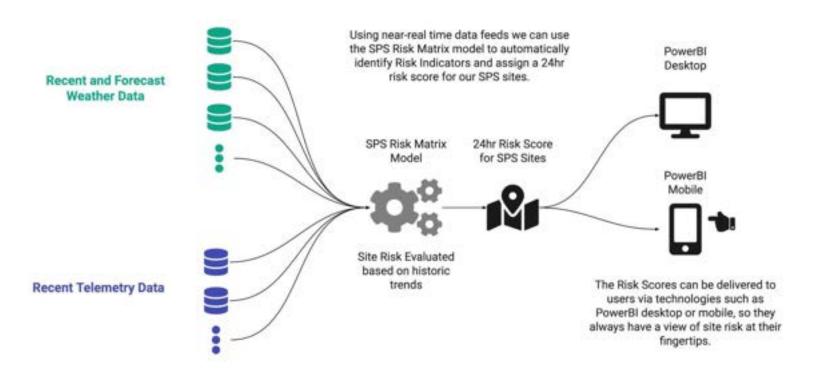




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2020 - Predictive Model Development

The challenge: To reduce our annual pollutions by initially reducing the risks at our sewage pumping stations

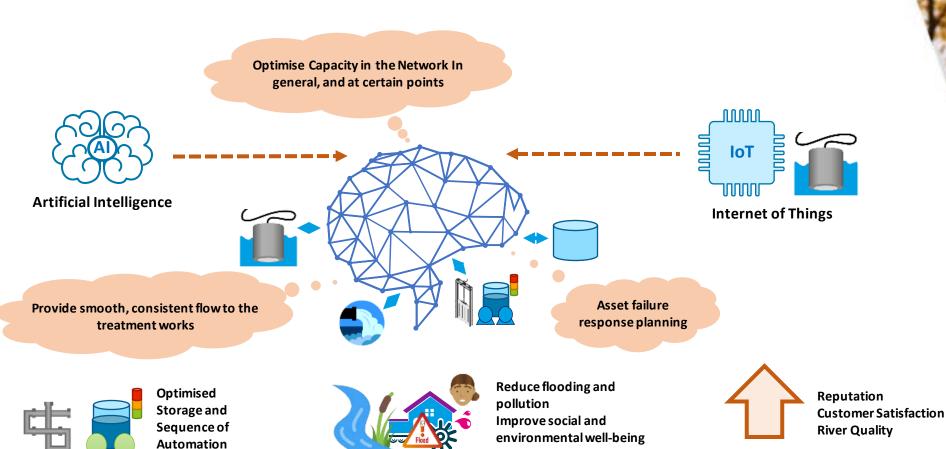






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2022 - AloT Waste Catchments





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Summary

Data is key to generating insights.

Data needs to have availability, quality and usability.

· Intelligent point solutions improve capability but,

 Cloud analytics, AI/ML and interconnectivity will allow AIoT to build the future.





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Q&A Session

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