

# Driving Performance: Building from a Legacy PI System to the Full Power of OSIsoft Solutions

Southern Water, UK





### Southern Water

Bringing new value from a legacy PI System by exploiting the full power of OSIsoft solutions



#### CHALLENGE

- Long-term use of the PI System simply as a "bucket of historical time-series data"
- Manually intensive data interpretation and manipulation by system "experts"

#### SOLUTION

- To exploit the core components of OSIsoft "that we have already through our licence!"
- Treat the PI System as a business critical resource to drive day-to-day operational performance

#### RESULTS

- Automated detection and classification of events
- Improved data consistency whilst maintaining flexibility to adjust
- An invaluable source of data to drive improved operational performance across our Water and Waste businesses



**About Southern Water** 

One of the UK's largest water and wastewater companies, Supplying over 500 million litres of drinking water every day

83 water treatment works 13,837 km of water mains

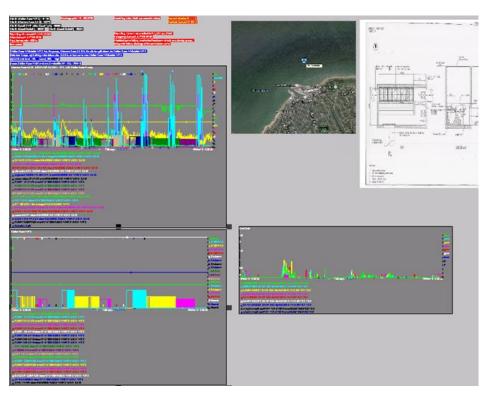
365 sewerage treatment works 2,375 sewerage pumping station\_ 39,600 km of sewers

Operational supply area of 10,530 km²



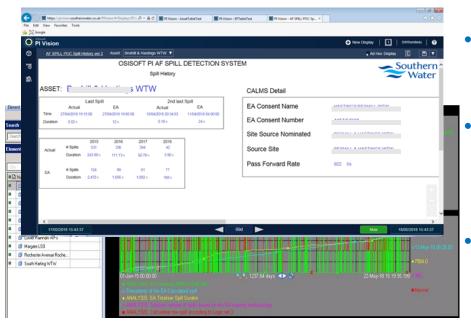


# Legacy Approach to Operational Analytics



- Time consuming, manual interpretation
- Risk of inconsistency leads to multiple layers of supervisor checks
- Reactive : Post event reporting
- Mysterious domain of PI Experts ...

## A New Way of Working

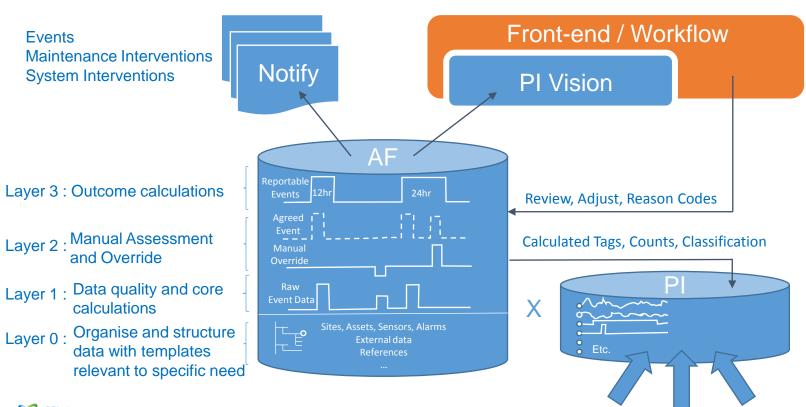


- Automatic detection and classification of events
- Consistent results whilst maintaining flexibility to adjust based on operational judgement
- Potential to move from REACTIVE to PROACTIVE operational performance

We have discovered an invaluable source of data that will drive operational performance across our businesses!

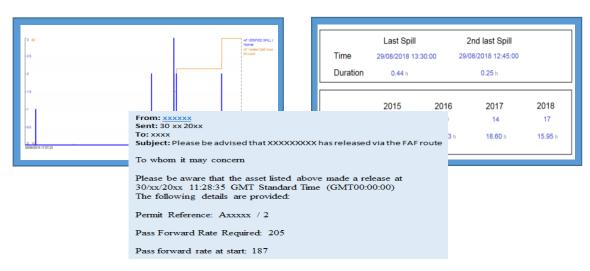


# Solution Overview – Layered use of PI-AF

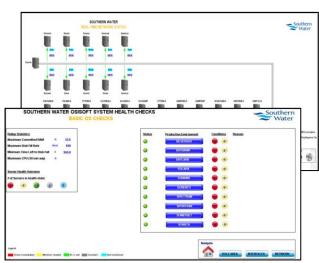




# Exploiting Standard OSIsoft tools: already in the licence!



- PI-AF, Event Frames, Notifications, Manual Logger Validation, etc.
- Asset View: multi-site performance insights, element relative displays



 System Monitor: using PI Vision to manage data chains across the real-time infrastructure



## Next Steps – Expanding the Value

The majority of our key operational and regulatory outcome measures are influenced by time series data ...

Therefore, the PI System is a critical solution for driving our success.



## Summary

Our legacy PI System contains a rich source of data ...

... we are exploiting this through PI-AF and other components to help transform to a *new way of working* 

#### "Layered" approach to deploying PI-AF

- Organise into data structures
- Data into Insights via layers of calculations
- Manual over-rides to enable flexibility and adjustment

#### The PI System is becoming a business critical resource

> System monitoring and data chain governance are critical for success



### **Contact Information**



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### Questions?

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**KEA LEBOHA** DANKON

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БЛАГОДАРЯ

**MERCI** 

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ありがとうございました
SIPAS JI WERE TERIMA KASIH
UA TSAUG RAU KOJ
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