

# **UK WATER INDUSTRY RESEARCH LIMITED**

## **Collaborative, Impartial Research**

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### **ACCELERATING THE INNOVATION OF EARLY WARNING AND EVENT MANAGEMENT TOOLS**

**DATES: 14<sup>th</sup> July and 23<sup>rd</sup> July 2021**

**VIRTUAL WORKSHOP**

*Chaired by Jo Parker, Watershed Associates and Dr Joe Sanders, RPS.*

Recent Asset Management Period's (AMP) have seen significant focus in the development and installation of network data sensors with automated communication and alarm facilities for various purposes including leakage, water pressure and water quality monitoring.

These systems use a range of technologies, communication methods, and analysis platforms that have generally been developed and deployed in isolation for specific purposes. This often results in operational teams having to utilise several platforms during an event rather than an overall operational management tool that can be used effectively to predict, mitigate and manage events. Water companies are aware of this challenge and are actively pursuing initiatives around predictive analytics, early warning, integration of sensors and data mapping.

This pair of UKWIR workshops, being run by RPS, will bring together experts to share and discuss their knowledge and experiences regarding the current view on optimum user requirements for effective event management and early warning systems. They will seek to embrace emerging concepts such as the use of "Situational Awareness" and "Artificial Intelligence". The first workshop will focus on sharing current operational practices and innovation activities. The follow up workshop will focus on establishing operational response and good practice along with recommended research projects and their suggested delivery routes.

The aim is to both expedite the effective use of currently available tools and highlight future developments that will mitigate risk of major supply incidents by capturing and building on industry learning to date. The detailed outputs of the workshop will be shared to the benefit of the whole industry with the intention to focus on unlocking the potential of data already available rather than on deployment of additional sensors.

These workshops will be of interest to water company operational systems staff and control room/incident management teams, those working in monitoring and modelling systems within water company data teams.