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Safe, reliable and resilient water reuse in food and beverage industry

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Water, which is a most important ingredient of a food manufacturing industry has become a high cost resource with progressive constraints on supply and discharge. It has given rise to the opportunities for food and beverage industries to implement water reuse plans and alternatives. However, it requires controlled and regulated operations in place so that this practice can be adapted in industry without jeopardizing food safety.

Hence, this talk will stress on showing how water treatment technologies, control solutions and risk assessment accompanied with big data, artificial intelligence and augmented reality can ensure that water can be reused in a safe, reliable and resilient systems.

The case study in focus will demonstrate how a wastewater treatment plant can be designed to help management in decreasing the operational cost and increasing the value of treated water. In addition, talk will explain how an integrated solution can allow highly trained technicians to be 'virtually' on-site, without leaving the office, hence lowering the requirement to have highly-paid specialists present 24 hours on the factory site to operate advance facilities.