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Data acquisition systems from sensors and transducers are mainly using the Industrial Internet of Things (IIoT) solutions, transforming the conventional infrastructure into a SMART infrastructure. The acquired data reach a central node, Cluster, Cloud, from where they are taken for control, display, and processing through SCADA systems and saved in BigData systems. Protecting data, systems, networks, programs, and devices from unauthorized attacks or access are accomplished by applying Cybersecurity technologies, methods, and processes.

Applications based on Artificial Intelligence technologies use these Big Data sets and provide results that lead to accomplishing the requirements of increasing the efficiency of production capacity in the field of water, optimizing the operation of water processes, and creating more accurate predictions and predictive models of process behavior, improving maintenance strategies and optimizing resource use.