SuJal

With growing population the number of consumers of water are increasing day by day. However, the fresh water resources are limited and they are decreasing. In this context, following challenges are being faced by the water supply and sewerage management organisations all over the world.

1) How to improve efficiency in water supply and sewerage management ?
2) How to use sensors to monitor water usage and leaks ?
3) How to use this information to optimize water distribution and reduce water waste ?
4) How to reduce or eliminate errors in meter reading and bill collection ?
5) How to devise and introrduce cost-effective, pre-paid meters or post-paid meters, which can free up staff in billing and to focus on other tasks ?
6) How to improve reliability in water supply and sewerage management with predictive maintenance ? (i.e., by identifying potential problems before they occur)
7) How to do remote monitoring to keep an eye on critical infrastructure, even when staff are not on site.
8) How to improve customer service in water supply and sewerage management ?
9) How to monitor the quality of the water being distributed automatically and generate real-time alerts ?
10) How to ensure proper re-charging of the ground water aquifers by the consumers ?
11) How to create a underground assets digital registry – location wise for use by citizens and Government ?
12) How to monitor the ground water table at strategic locations, to take timely measures ?
13) How to preserve all the important engineering drawings, documents, manuals, etc., and make them available to the authentic and authorised users ? And thus avoid pilferages, misplacement etc.,

To address these challenges, SuJal a industry 4.0 technologies based smart AI based system has been devised by the Digiks Infotech Private Limited (a pioneer in AI and IoT technologies). It is proposed to establish a Centre of Excellence for Water resources, to adopt and harness cutting edge technologies