

Indian Institute of Information Technology and Management Kerala and IBM India Develop Real-Time Water Quality Measurement System on IBM Watson IoT Platform

KERALA, India and ARMONK, N.Y., April 21, 2017 /PRNewswire/ -- The [Indian Institute of Information Technology and Management – Kerala](#) (IIITM-K) and IBM (NYSE: [IBM](#)) today announced the development of a real-time water quality management system - 'Swatchpaani'. The system, powered by [IBM Watson Internet of Things](#) (IoT) technologies, is intended to continuously monitor water quality and measure temperature, pH and the presence of various metal/non-metal substances in the water.

The proposed solution will compose of [Libelium](#), signal conditioning boards and sensors and Raspberry Pi for connecting these to [IBM Bluemix](#), IBM's cloud platform. This connection into Bluemix will allow the app's data to be integrated into the [Watson IoT platform](#) for device and sensor data management, analysis and visualization. The system will support data analysis in real-time and trigger alerts if there are anomalies in the water samples. The project will also incorporate a pre-screening mechanism to test the water quality of mobile water distribution systems.

"The conventional method of testing water quality is often inaccessible and time consuming. In this context, Swatchpaani offers a convenient, mobile, quick and cost effective solution for the pre-screening of water samples. The extensive lab tests may be mandated only when the pre-screening signals a potential threat," said Dr. Asharaf, Principal Investigator, Swatchpaani Project, Indian Institute of Information Technology and Management –Kerala (IIITM-K).

"The IBM Watson IoT platform is an easy-to-use, scalable solution which provides seamless integration with various IoT devices to build specialized, integrated solutions to solve industry and business challenges. The Swachpaani project is one such result on Watson IoT that demonstrates the impact technology can bring to the life of an individual. IBM India continues to work with academia to create useful and meaningful innovation based on Watson technologies," said Devkant Aggarwal, Manager, University Relations, IBM India.

About IIITM-K:

Indian Institute of Information Technology and Management –Kerala (IIITM-K) is an autonomous institute set up by Government of Kerala to promote higher education and research in the field of Information Technology and allied areas. IIITM-K's Mission is to be an institution of excellence in education, research, development, and training in basic and applied Information Technology and Management and to be a leader in educational networking and services provider for higher education and professions. For more information on IIITM-K, please visit <http://www.iiitm.ac.in>

About IBM India:

For more information on IBM India, please visit <http://www.ibm.com/in/en/>

About IBM Watson IoT:

For more information about IBM Watson IoT, please visit www.ibm.com/iot

Media Contact(s):

Hanna Smigala

IBM U.S.

1-203-512-5497

Smigala@us.ibm.com

Gayathrie Maediratta

IBM India

+91-98452-27699

ggmaediratta@in.ibm.com

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