LOTUS

LOW-COST INNOVATIVE TECHNOLOGY FOR WATER QUALITY MONITORING AND WATER RESOURCES MANAGEMENT FOR URBAN AND RURAL WATER SYSTEMS IN INDIA

LOTUS COMMUNICATION N°13 |

Updates and advancements of the Use Case #1 – Guwahati distribution network

The LOTUS project compiles a total five use cases, among those is the use case #1 on water distribution monitoring conducted in Guwahati, in India.

In Guwahati, a major part of the city is supplied in water by groundwater resources through a distribution network, but this groundwater is contaminated by arsenic and fluoride. In other parts of the city, there is no water distribution network and water is supplied through water tankers. Moreover, some parts of the pipelines systems are obsolete.

The LOTUS project aims at two different solutions. The first one is to use the LOTUS sensor in the pipeline network of the city to verify the quality of the water and therefore to treat it when needed. The second one is to again use the sensor, in combination with the

LOTUS platform in order to identify the leakages in the pipeline network.

To reach those objectives, the LOTUS team is monitoring the quality of the water using the LOTUS sensor and platform which allows a smart monitoring of chlorine, arsenic, and fluoride, and also identification of leakages. To ensure a quick identification of leakages, smart algorithms were created to identify the locations where the sensor gives maximum benefits. It would allow to identify leakages and water contaminations in a shorter period to act as soon as possible to minimize their impact.

The goal of the LOTUS team by the end of the project is to provide Guwahati institutions with a tool that will help them to monitor water quickly and effectively,

and therefore ensure the delivery of safe water to the citizens through pipelines distribution networks.

STAY TUNED!

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