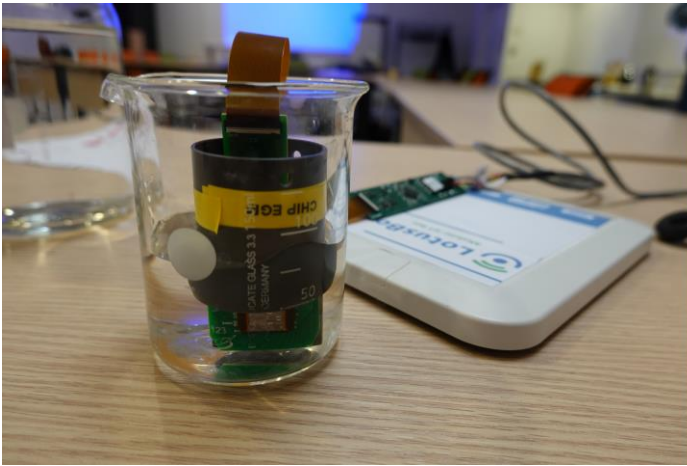


### LOTUS paves the way for industrialisation !



The objective of the LOTUS project is to create a low-cost technology for water quality monitoring. LOTUS is therefore developing a multiparameter real-time sensor using nanotechnology and will deploy it in a series of use cases in India.

The LOTUS project is a Research and Innovation project (RIA). So-called, Research and innovation projects funded by the European Commission, are conceived to support labs solutions (TRL4) to reach the demonstration stage (TRL7). Industrialisation is not directly part of the project. Yet, industrialisation is a key element of the LOTUS sensor, as only large-scale production will enable the technology to reach one of its main objectives: being a low-cost technology, thanks to economies of scale.

The LOTUS project is three years in, and promising scientific results are already available. Uni Eiffel team has demonstrated strong skills in building the sensor in small series. However, large series bring a whole new lot of challenges, that the LOTUS team is working hard to address.

The sensor is a complicated device, using nanotechnologies on a chip and smart electronic boards assembled into a single package that has to be perfectly waterproof under exacting field conditions. Mass manufacturing this solution brings along a large number of technical challenges.

By starting to collaborate with manufacturers both in EU and India, the LOTUS team is paving the way for the success of the solution, not only scientifically but also commercially. To do so, the solution is presented to

several partners interested in mass producing the sensor. The LOTUS team is sharing with them know-how and data to help them develop a suitable manufacturing process.

Once deployed, LOTUS sensors will enable to monitor water quality in a large array of cases, with a high social impact. Succeeding industrialisation is therefore necessary to make an impact. Stay tuned !

## STAY TUNED!



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## LOTUS Consortium Members

