



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

ABOUT LOTUS

- Start date:** 1st February 2019
- Duration:** 48 months
- Budget:** 3,69 million €
- Aim:** Co-creation of innovative low-cost technology for India's water quality challenges

THE BACKGROUND

- India faces challenges regarding water quality:
- Only 30% of the Indian population has access to treated drinking water
 - 37.7 million Indians are affected by waterborne diseases each year, including a large number of children

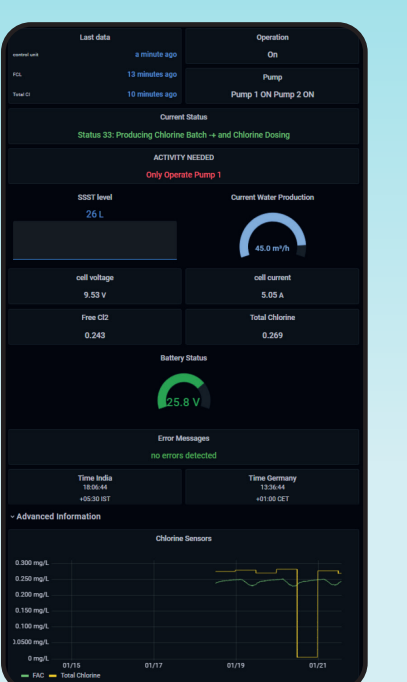
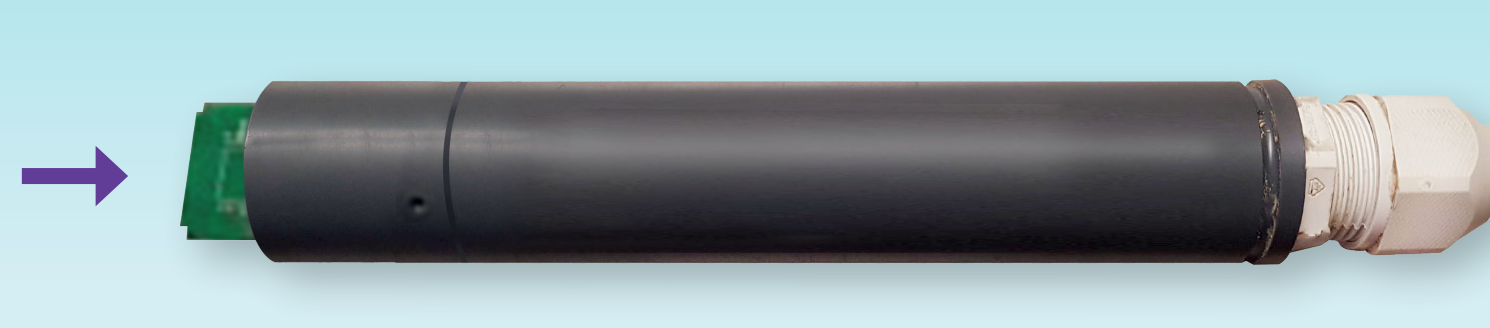
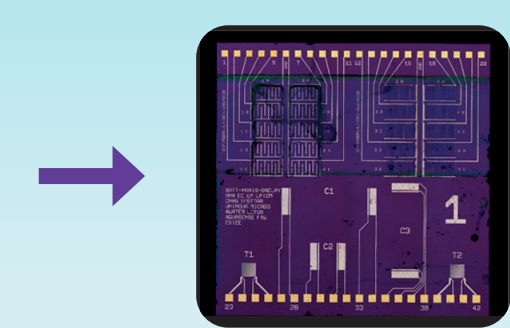
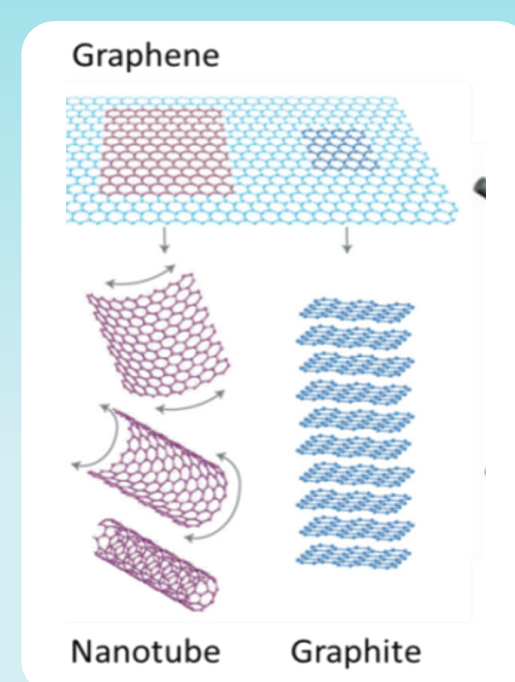
THE OBJECTIVE

- The LOTUS project aims at co-creating, co-designing and co-developing:
- An innovative multi-parameter sensor
 - Tailor-made decision support tools for water management

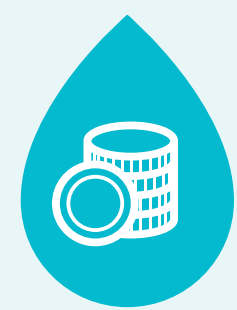
LOTUS SOLUTIONS

Core technology of the LOTUS sensor

An electronic tongue based on functionalised carbon nanotubes.



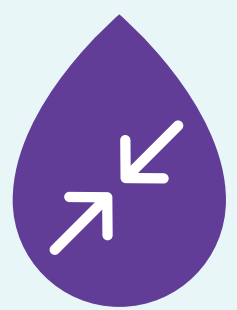
The LOTUS sensor is unique !



It is less expensive



It consumes less energy

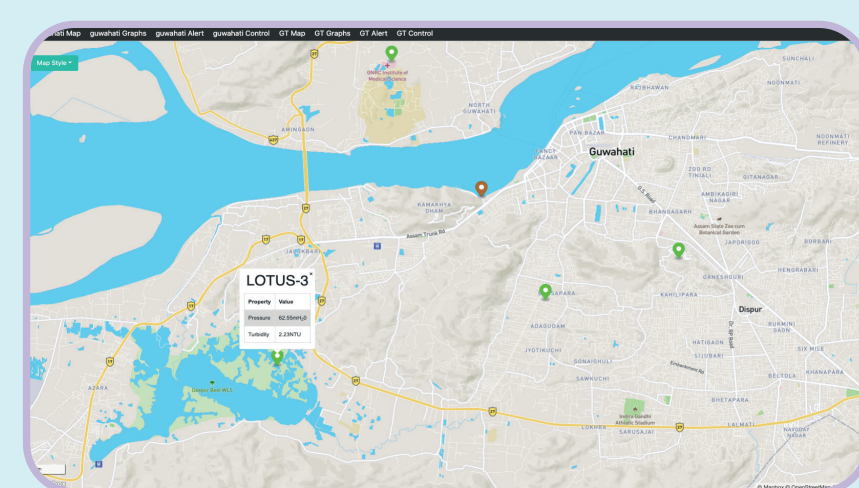


It is 10 times smaller



Core parameters : temperature, electrical conductivity, active chlorine and pH
Secondary parameters (research in progress) : arsenic, magnesium, fluoride, iron, glyphosate and nitrate

The Cloud solution/software



Example of data visualisation

LOTUS develops software tools that :

- Are based on open standards and interfaces
- Collect and process measurements and data
- Offer high quality visualisation
- Include relevant tools (e.g. EPANET) for smart water management
- Can be used for strategic and operational purposes



USE CASE

Jalgaon: Irrigation system management



USE CASE

Guwahati city water system management



USE CASE

Groundwater and river water monitoring system



USE CASE

Tanker-based water distribution system



USE CASE

Improved operation of wastewater treatment plants

CONTACT US

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OUR 22 PARTNERS IN EUROPE AND INDIA

