



## **AQUAWARN**

### **Deployable Early Warning Pollution Device for Application in Water**

**FP7-SME-2013-605937-AQUAWARN**

#### **Project Details**

Funding Programme: 7th Framework Programme (FP7)

Sub Programme: SP4 – Capacities

Funding Scheme: Research for SMEs

Project Duration: 2013-2015

Total Budget: €1.1M

Funding to DCU: €380,000

#### **Project Partners:**

1. T.E. Laboratories Limited, Ireland
2. Williams Industrial Services Limited, United Kingdom
3. Kalite Sistem Laboratuvarlari As, Turkey
4. RT Environment Srl, Italy
5. Dublin City University, Ireland
6. Natural Environment Research Council, UK

#### **Project Description:**

The purpose of this project is to develop an innovative integrated deployable device for the detection of pollution in water using state-of-the-art microfluidic technology. The consortium for this project is made up of partners from Ireland (T.E Laboratories and Dublin City University), UK (University of Southampton, Williams Industrial Services), Turkey (Kalite Sistem) and Italy (R.T. Environment). The AQUAWARN device will be used for monitoring important water quality parameters in wastewater and environmental waters. Under environmental legislation such as the Water Framework Directive (2000/60/EC) and related Directives on Dangerous Substances (76/464/EEC), Groundwater (80/68/EEC), Drinking Water (80/778/EEC) and Urban Wastewater Treatment (91/271/EEC); there is an increasing requirement to monitor the quality of wastewater and water bodies.

The AQUAWARN device will be low-cost, transportable and deployable; it will provide high quality data and field-worthy equipment. The environmental monitoring system will be linked to a process control device and auto-sampler, and have the capacity to send data and/or an alarm to a mobile phone/laptop. The device will allow environmental agencies, industrial bodies etc. to monitor and respond efficiently to spatial and temporal changes in water quality. Aquawarn will run for 2 years for a budget of €1.1M.