



Environmental and coastal planning and development

BAC-TRACK

REAL-TIME IN-SITU DETECTION OF BACTERIAL POLLUTION IN THE AQUATIC ENVIRONMENT USING PORTABLE FLUORESCENCE

The BAC-TRACK project will design a system for real-time, in-situ detection of bacterial pollution for water quality managers in continental and coastal waters. It will serve as a decision-making tool for implementing action plans designed to limit possible bacterial water pollution.

To achieve this, the BAC-TRACK project will develop an insitu, real-time early-warning measuring device, which will be installed on an autonomous platform for the collection of bacterial data. Depending on inspection managers' requirements, a sampling process could be defined to provide a response to early warnings of accidental bacterial pollution in the urban environment and, in the event of pollution, to warn local authorities in advance of the need to instigate a protection plan.

Several test campaigns in Breton and Mediterranean catchment areas will provide in-situ, real-time measurements of the fluorescent response of E. coli and Enterococcus bacteria and record marine environmental conditions.

The tool developed will meet adaptability, reliability and robustness criteria at a reasonable overall cost, so that it is tailored to markets associated with the management of bathing-water, shellfish-gathering and shellfish-farming zones.

Partners

Companies

NKE Instrumentation, Hennebont [Project Developer]
Evosens, Brest

Research center

Université de Toulon, laboratoire PROTEE (PRocessus de Transfert et d'Échange en Environnement), La Garde

Funders

Fonds Unique Interministériel Région Bretagne Lorient Agglomération Brest Métropole Collectivités territoriales PACA

Labelisation

30/10/2015

Overall budget

1 545 K€