



MESTECH Research Project



Project Title:

Sensor deployment, data management and information

Project Researcher:

Dr. Tim Sullivan

Funding Body:

Beaufort Marine Research Awards carried out under the Sea Change Strategy and the Strategy for Science Technology and Innovation (2006-2013), with the support of the Marine Institute, funded under the Marine Research Sub-Programme of the National Development Plan 2007–2013.

Project Summary:

This project involves development of a low –cost widely spatially distributed SmartCity-SmartBay infrastructure in Dublin Bay and environs, including deployment of suitable water quality sensors and visual sensing systems to detect environmental change. Key objectives include identification of deployment sites, securing power, telemetry options and permits, data management and informatics including archiving and storage, data analytics for improved detection of change and interaction with other monitoring agencies to improve usage of collected data.

Key Outputs:

Key outputs from this project are expected to include a number of high quality water quality datasets suitable for data analytics and application of machine learning techniques, resulting in high impact publications and dissemination of improved water quality information to the citizens of Dublin through a smart integrated sensor network.