

Aquatic Microbial Early Warning System

DHI Water & Environment Pte Ltd. is an independent research and consultancy firm.

DHI's objectives are to build competence and promote technological development in areas relevant to water, environment and health in the fields of ecology and environmental chemistry, water resources, hydraulic engineering and hydrodynamics.

Background

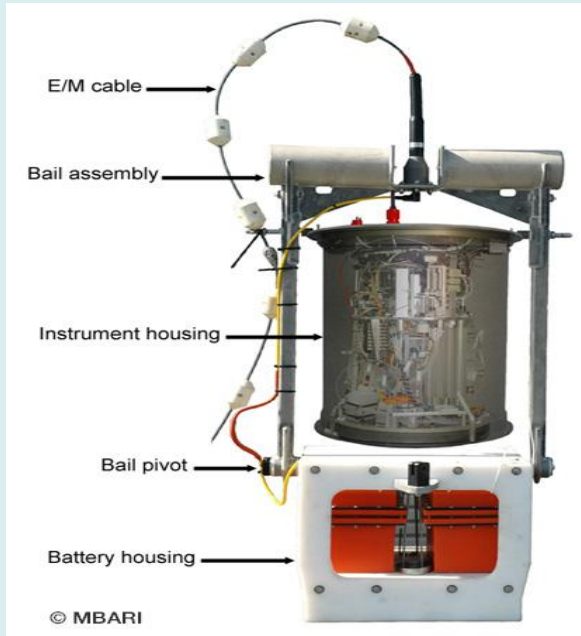
Microorganisms are omnipresent in the aquatic environment but some **Harmful alga** and **Pathogens** can occasionally bloom.

Safe use of water for drinking, Aquaculture and recreation require forecasts of eventual blooms of algae and pathogenic organisms

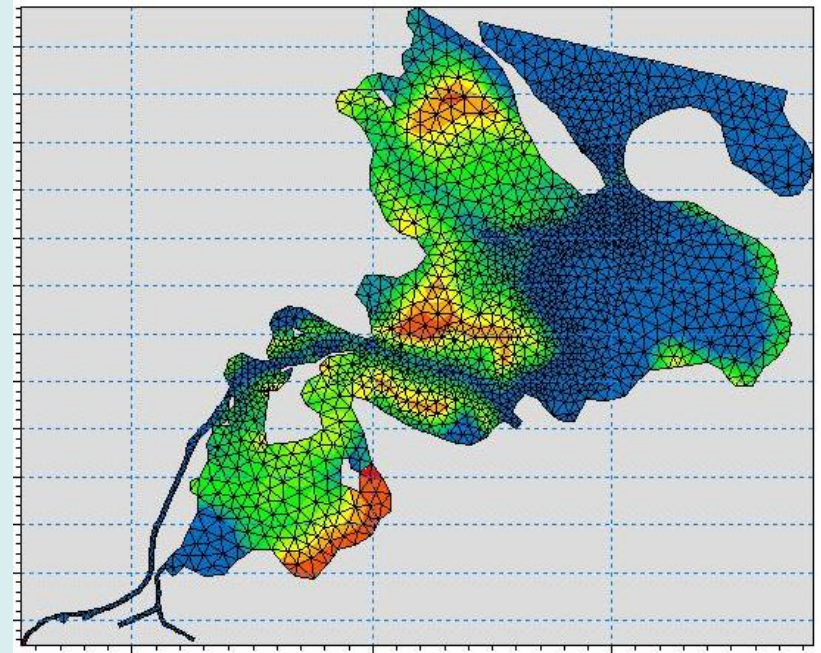
Main Objectives

- To develop a monitoring device for continuous monitoring of microorganism communities
- Combine molecular and classic techniques for description of the microorganism community
- Combine biological and chemical sensors
- Improve understanding of processes leading to blooms of these organisms
- Improve numerical forecasting tools to support decision makers

Monitoring based on Spyglass technology



Numerical models



Combination of all components in one system
Aquatic Microbial Early Warning System
Which can be applied in various fields of

Water Supply - Water Treatment - Power Plants – Recreational Waters – Aquaculture