



Sea based trials of WiMAX within the SmartBay

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Objectives

- Conduct a first of a kind evaluation of WiMAX performance over saline water
- Identify methods and options to maximise high speed, low cost IP access throughout Galway Bay
- Support the advancement of the SmartBay infrastructure
- Act as a conduit for Intel to explore opportunities in the marine and clean tech sectors

Support the development of a marine technology ecosystem that will amplify the opportunity for innovation.

Milestones

- Dry dock testing 
 - Power consumption did not differ significantly from the existing GPRS system while upload and download speeds were significantly greater






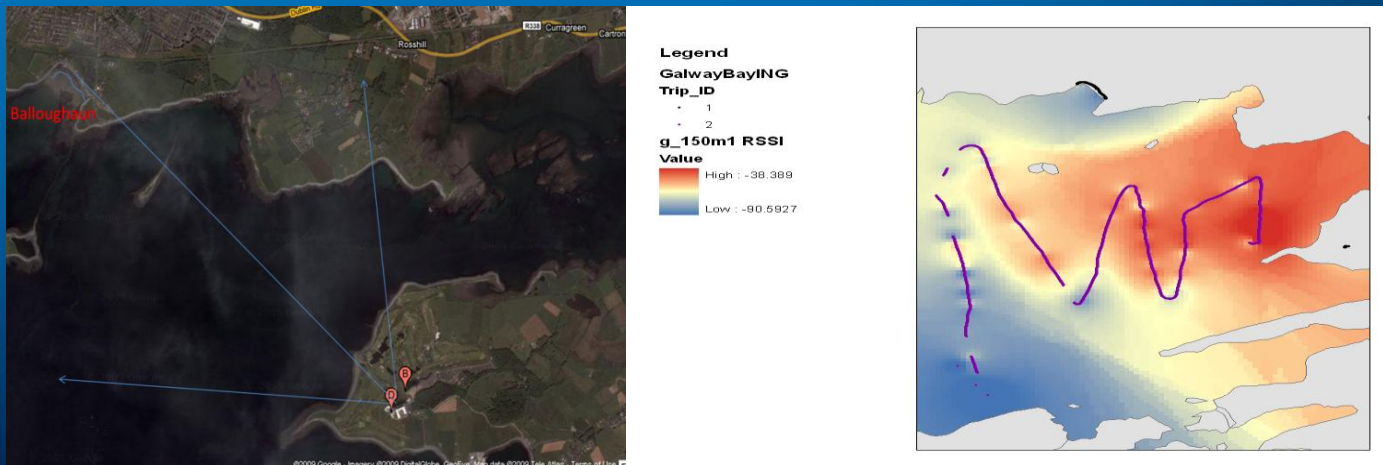
Integration of Cisco BWX Modem onto the SmartBay Buoy Sensor Platform.

Milestones

- Dry dock testing 
- Network coverage analysis 
 - Showed inconsistent coverage from land directed networks

Milestones

- Dry dock testing 
- Network coverage analysis 
- Early sea trials 
 - Installed a base station at the Marine Institute, excellent coverage and QoS were recorded around the coast and across the bay






Milestones

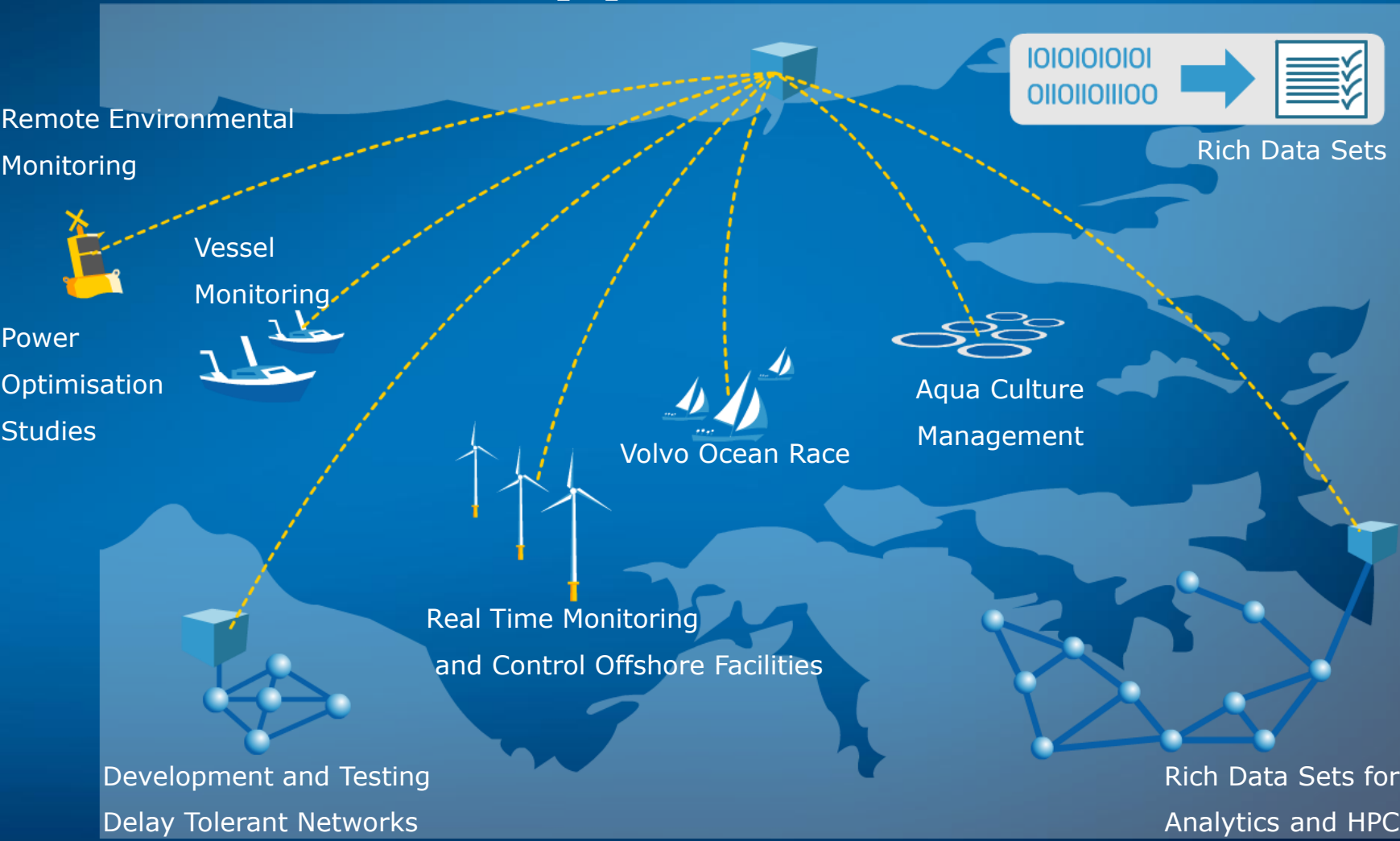
- Dry dock testing
- Network coverage analysis
- Early sea trials
- Sea trials proof of concept on an incumbent network
 - Test QoS over a continuous two month period.
Deployment planned for March 2010



Milestones

- Dry dock testing 
- Network coverage analysis 
- Early sea trials 
- Sea trials proof of concept on an incumbent network
- Advanced sea trials on a dedicated network
 - Deployment of a dedicated trial network comprising of two 802.16e base stations within the inner bay providing broad coverage including the Spidal wave energy test site

Opportunities



Partners



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