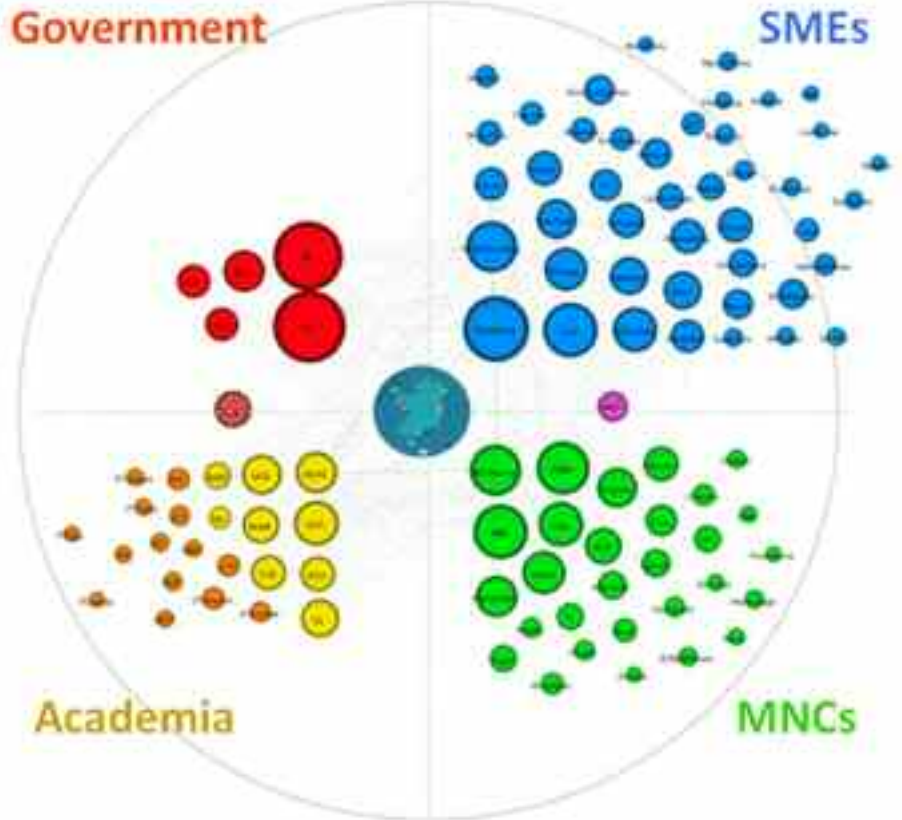


SmartOcean Ireland: Delivering ICT enabled decision support tools for the Global Marine Sector

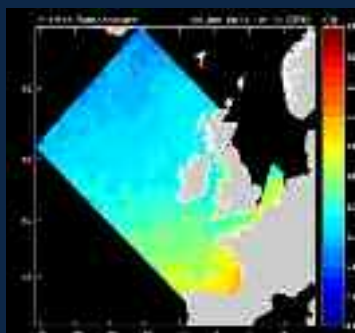
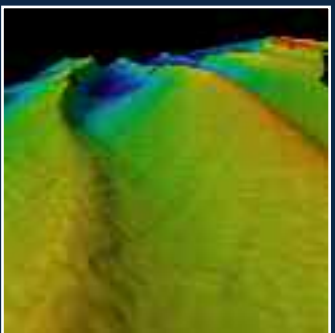
Ireland's SmartOcean Cluster comprises over 50 companies working with research centres and public agencies developing ICT enabled decision support tools for the Global Marine Sector

Key markets include;

- Environmental Monitoring
- Shipping and Logistics
- Oil and Gas
- Marine Renewable Energy
- Marine Tourism and Leisure
- Safety and Security
- Aquaculture and Fisheries



Technology platforms under development Ireland's SmartOcean Cluster



- Wireless and subsea sensor networks for marine monitoring and resource management
- Sensor web and mobile data solutions
- Real time acoustic monitoring
- Integrated data management and visualisation tools
- Sub-sea robotic systems
- Advanced modelling and forecast tools for offshore operational support
- Digital design tools for marine applications

Real world test and demonstration platforms available to Ireland's SmartOcean Cluster include;

- SmartBay Ireland: Research, Test and Demonstration Facility for Marine ICT
- Quarter Scale Wave Energy Test site, Galway
- National Wave Test Tank Facility, Cork
- Instrumented River Catchment Facilities: Mayo, Cork, Dublin
- National Databuoy Network
- National Research Vessels
- National Seabed Mapping Data (INFOMAR)



The SmartOcean cluster leverages specialist expertise from leading research institutions across the Island of Ireland in the areas of;

- Marine sensor development
- Sensor web enablement
- Advanced materials
- Underwater robotics
- Wireless sensor networks
- Geospatial mapping
- Semantic web technologies
- Digital ocean engineering
- Climate modelling and forecast
- Simulation and visualisation tools

