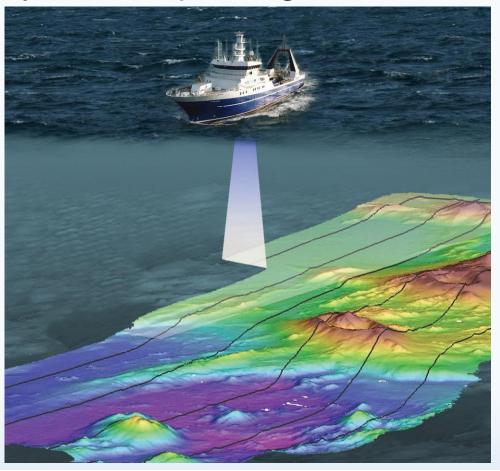


# NIOHC Seminar

Muscat, Sultanate of Oman, 25 March 2019

Economic impact and benefits of hydrography (the Blue Economy)

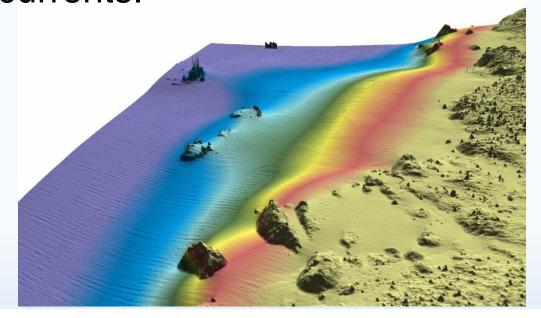
Hydrography – underpinning the blue economy



The term "blue economy" is being heard more and more. It is an expression used to describe all the economic activity associated with the oceans, seas, harbours, ports, and coastal zones.

Underpinning all that activity, is hydrography.

Every human activity conducted in, on or under the sea depends on knowing the depth and the nature of the seafloor, the identification of any hazards that might exist and an understanding of the tides and the currents.



Obtaining and disseminating this hydrographic knowledge is the role of the world's hydrographers.





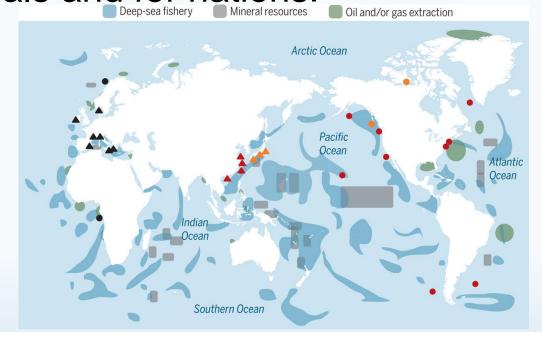
Their work is the most fundamental of all the enablers required to develop and sustain the *Blue Economy*.





#### The Potential of the Blue Economy

The seas and oceans, including the seabed and the sub-seabed, represent a vast repository of food, mineral resources, energy, water, biomedicines, and infrastructure that in turn creates wealth for individuals and for nations.



Aquaculture Biomedicine **Boats and Shipbuilding** Cables and pipelines Coastal Zone management **Defence and Security** Desalination and water treatment Marine recreation Ocean energy and minerals

Ocean science and observation
Port operations
Robotics and submarines
Shoreline development
Telecommunications
Tourism
Very large floating platforms
Weather and climate science

Each of these important and growing maritime sectors provides jobs and creates wealth.

But each depends, in some way or another on <u>hydrography</u> as its enabler.



Well over 95% of the world's intercontinental data and telephone traffic passes through undersea cables.



75% of the world's oil supplies and 55% of the world's gas supplies are transported by sea.

Offshore wind farms are increasingly cost competitive with fossil fuel and nuclear

sources.



The Oceans already provide at least 15% of animal protein for about 3 billion people, aquaculture (farming) of fish and aquatic plants is worth more than \$106 billion, the fishing industry provides livelihood to more

than 540 million people.



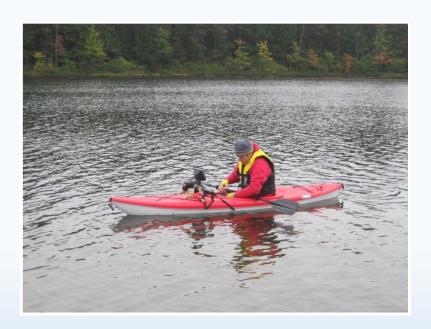
Cruise ship passengers spend at least \$100 each for each day ashore. That's over a quarter of a million dollars from a typical cruise ship for every day in a port.



Port economic activity usually generates at least one other indirect job for each new job. For high tech industries, this multiplier effect can reach up to 5 or 6.



Economic studies show that the cost: benefit ratio for national investment in hydrography and nautical charting is always positive and can be better than 1:10.





For most ships, 30cm extra depth of navigable water allows at least 2,000 tonnes more cargo to

be carried.



## Ships are getting bigger ......



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