An update on Ireland's Integrated Digital Ocean

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seai



























OPW

Environmental Protestion Agency



OUR VISION

Our ocean wealth will be a key element of our economic recovery and sustainable growth, generating benefits for all our citizens, supported by coherent policy, planning and regulation, and managed in an integrated manner.

GOAL 1

THRIVING MARITIME ECONOMY

- Sustainable economic growth of our marine/ maritime sectors
- Increase the contribution to our national GDP
- Deliver a businessfriendly yet robust governance, policy and planning framework

GOAL 2

HEALTHY ECOSYSTEMS

- Protect and conserve our rich marine biodiversity and ecosystems
- Manage our living and non-living resources in harmony with the ecosystem
- Implement and comply with environmental legislation

GOAL 3

ENGAGING WITH THE SEA

- Building on our maritime heritage, strengthen our maritime identity
- Increase our awareness of the value, opportunities and societal benefits
- Engagement and participation by all



AUSTRALIAN \$100 BILLION BLUE ECONOMY



10-YEAR STEPS TO SUCCESS

GRAND CHALLENGES





Food security

Biodiversity conservation

Sustainable urban coastal development

Climate change adaptation

Resource allocation









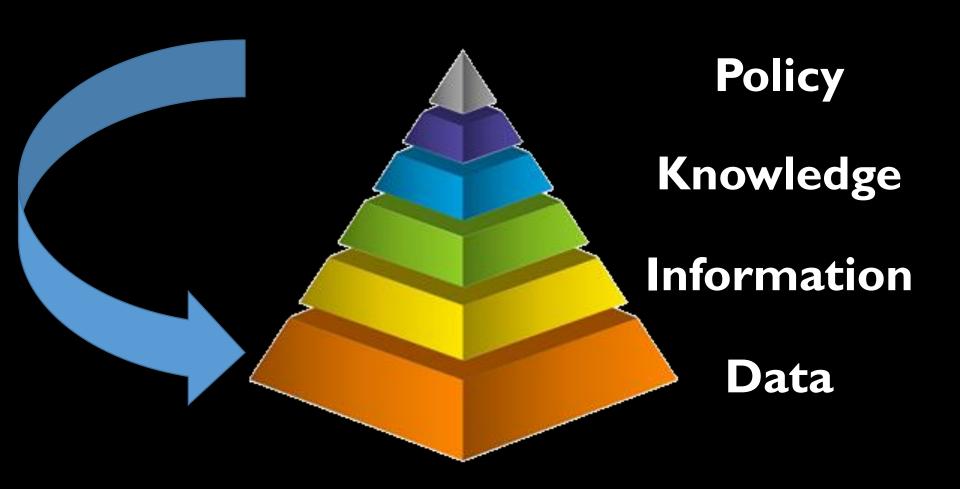


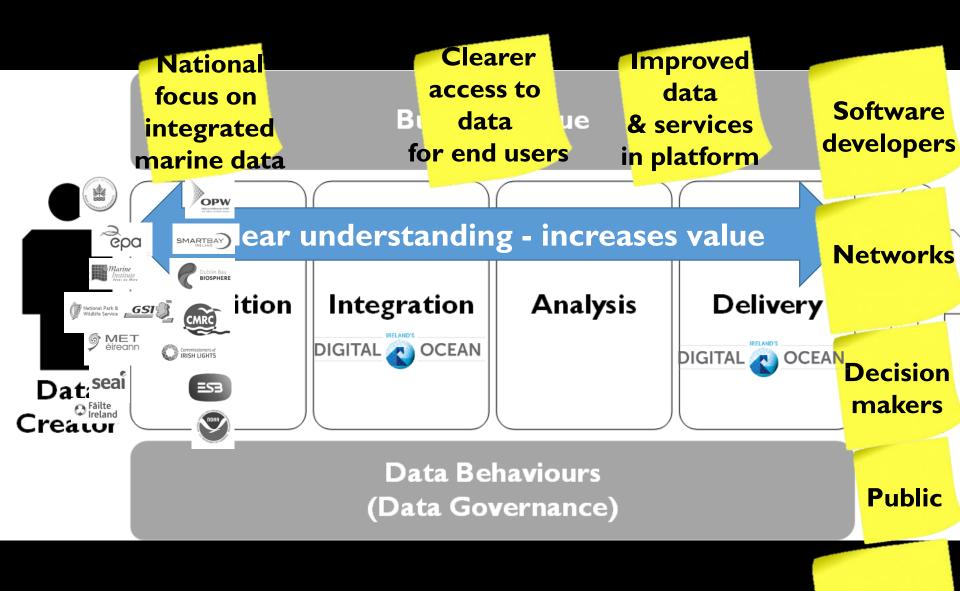






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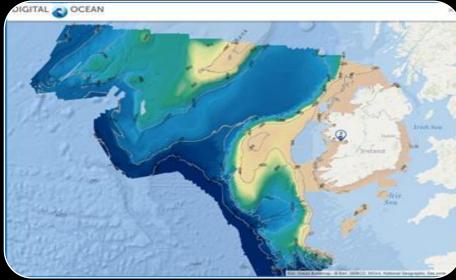




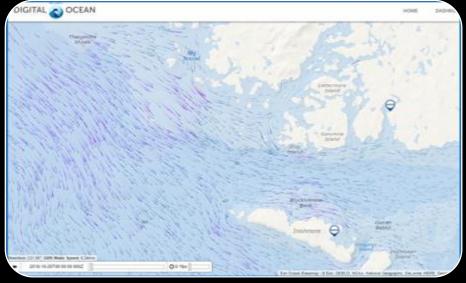
Researcher

The Data Value Map (after Nagle & Sammon, 2017)













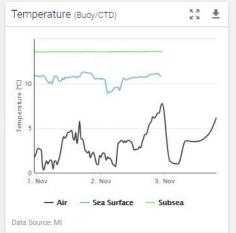


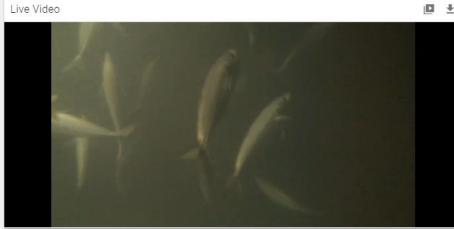
HOME

PARTNERS

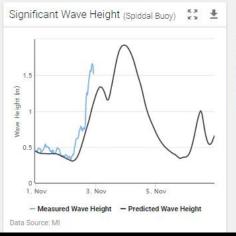
ABOUT

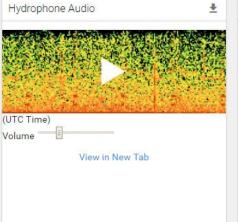
Conductivity (mS/cm)	34.23
Sea Temperature (°C)	13.61
Pressure (dbar)	26.91
Salinity (psu)	28.2
Dissolved Oxygen (%)	75.7
Turbidity (NTU)	24.34
Chlorophyll (µg/l)	0.22

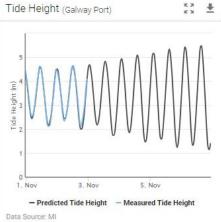






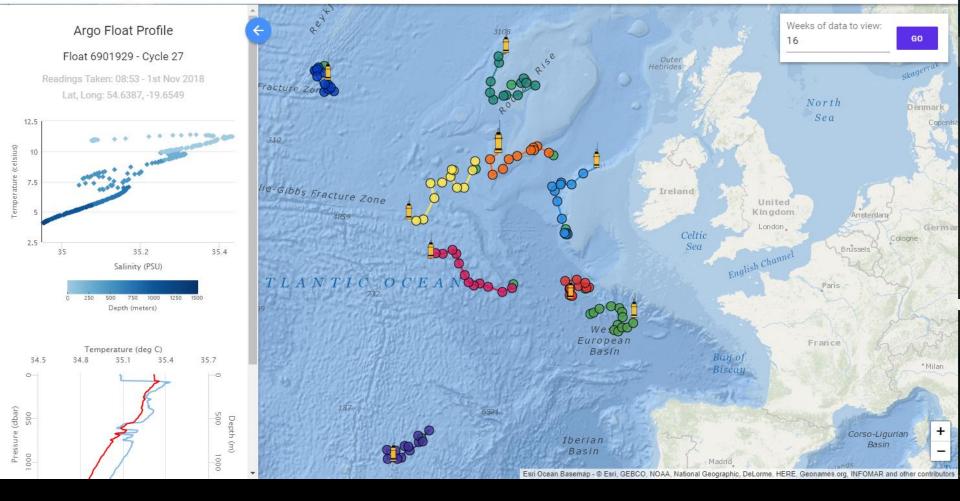


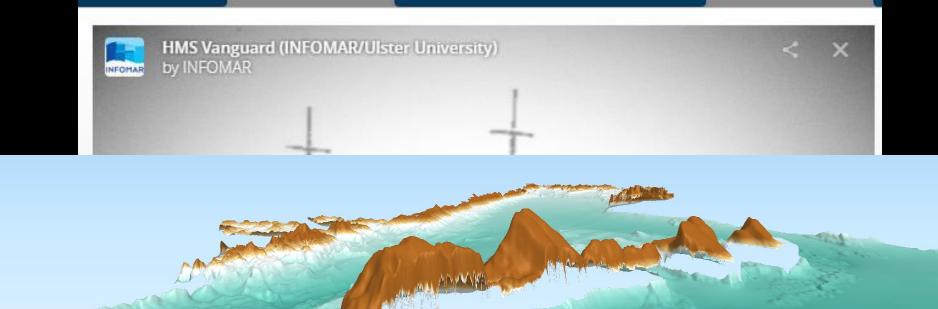






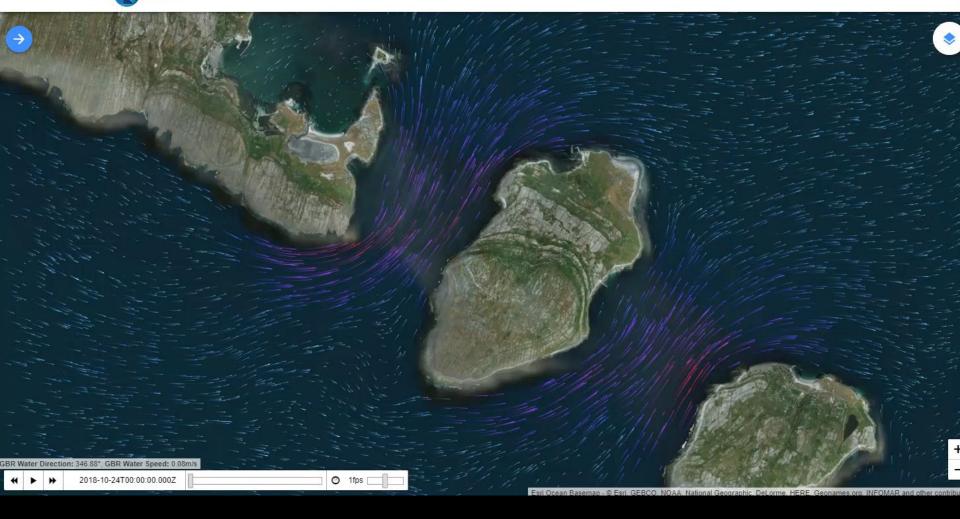


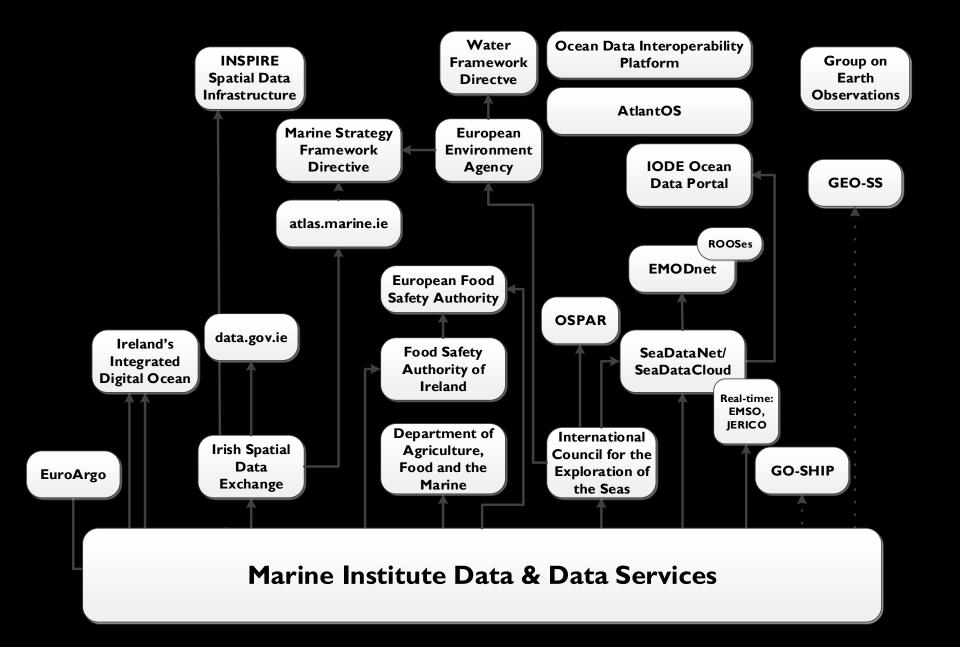






View on Sketchfab





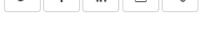
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Lough Furnace Automatic Water Quality Monitoring Station (AWQMS) profiles 2009-2014

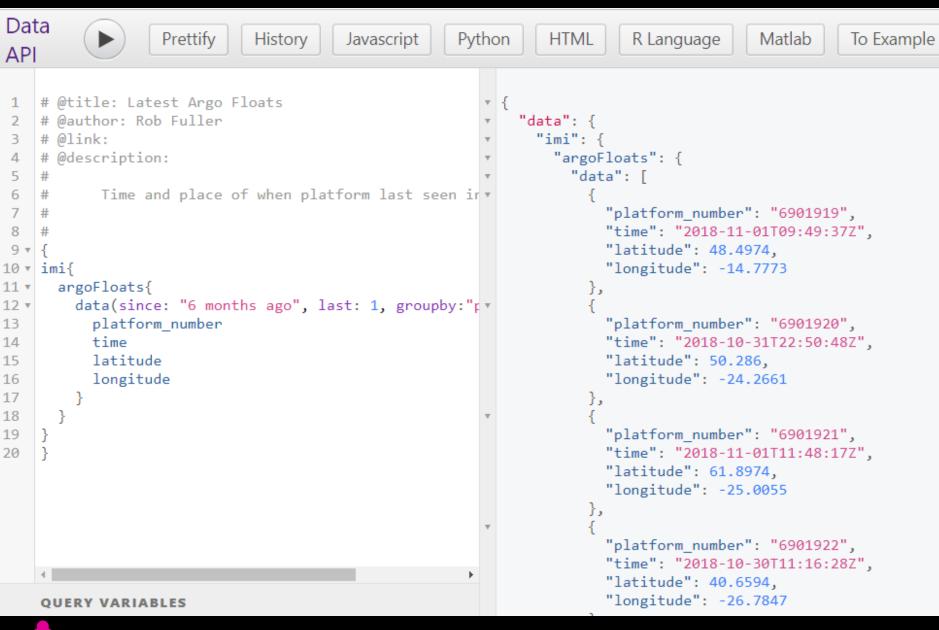
Full water column profiles of temperature, conductivity, pressure and dissolved oxygen are routinely measured in the coastal basin Lough Furnace as part of the LTER (long-term ecological research) monitoring programme. Profiles are measured by a multi-parameter sonde attached to an automated undulating winch that initiates downcasts at 4 daily intervals (00, 06, 12, 18 hours). This dataset includes profiles recorded during the period 2009-2014. Analysis of this dataset can be found here: Kelly, S., Eyto, E. de, Dillane, M., Poole, R., Brett, G., and White, M. (2018). Hydrographic maintenance of deep anoxia in a tidally influenced saline lagoon. Marine and Freshwater Research 69(3) 432-445 https://doi.org/10.1071/MF17199

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