



# OGS

Istituto Nazionale  
di Oceanografia  
e di Geofisica  
Sperimentale

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## trieste next

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22-24 settembre 2022

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#triestenext

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festival  
della ricerca  
scientifica

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Environmental crisis: yes to reliable  
and shared science, no to waste of  
public money and fake news!

**Organised by** Centro Nazionale Dati Oceanografici - NODC

**Moderator:** Paola Del Negro, OGS

**Speakers:**

Alessandra Giorgetti, OGS

Elena Giglia, Università di Torino

Mauro Bastianini, CNR





# ... why do we need Open Science (that is: what COVID has taught us)



COVID HAS SHOWN THAT DATA ARE NEEDED, NOT JUST RESULTS, ARE NEEDED IMMEDIATELY, AND MUST BE READ BY EVERYONE



OPEN SCIENCE ALLOWS FASTER PROGRESS



# NODC: Technological Innovation and Cultural Revolution

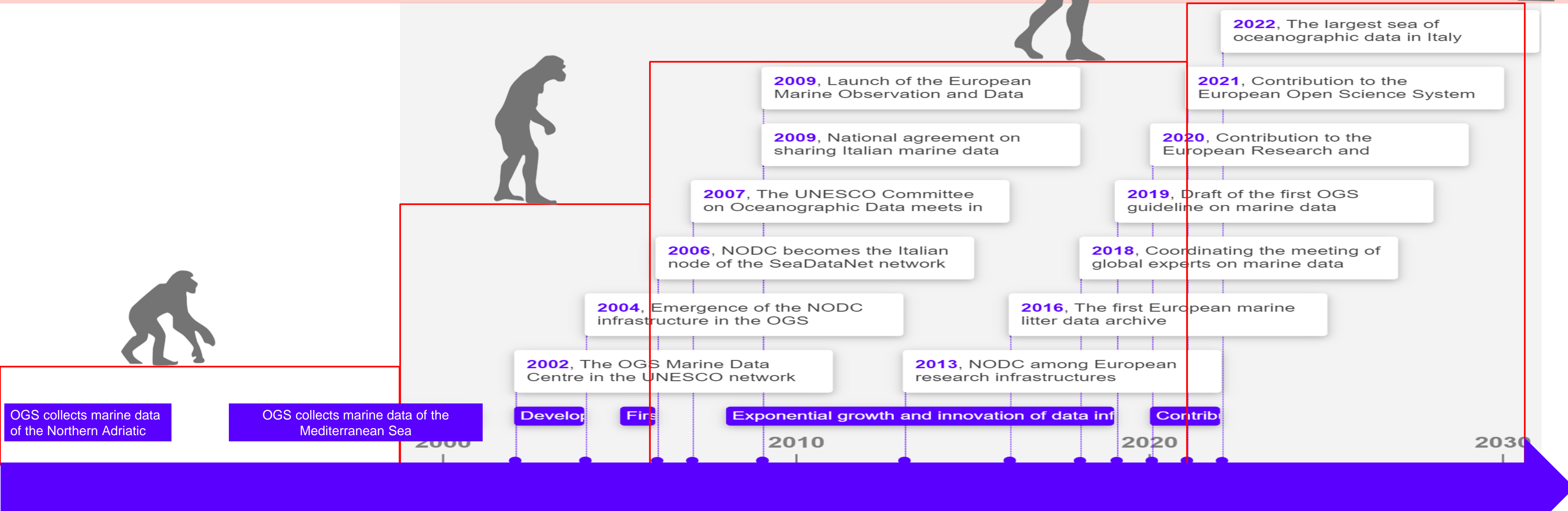


First approach: '80s and '90s

Phase 1: 2002-2005

Phase 2: 2006-2019

Phase 3: 2020-2030





# National Oceanographic Data Centre - NODC

[www.nodc.ogs.it](http://www.nodc.ogs.it)



The screenshot shows the homepage of the National Oceanographic Data Centre (NODC). The header features the OGS logo (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale) and the text 'National Oceanographic Data Centre'. A search bar with the word 'Cerca' and a magnifying glass icon is located in the top right. The navigation menu includes 'Home', 'Chi siamo', 'Attività', 'Dati', and 'Cataloghi'. The main content area has a blue background with a white 'NODC' logo and the text 'Benvenuti nel Centro Nazionale di Dati Oceanografici'. Below this, it states 'Nodo Italiano nel Sistema Internazionale di Scambio Dati Oceanografici (IODE) della Commissione Oceanografica Intergovernativa (IOC) dell'UNESCO'.

Collection, Quality Control,  
Conservation, and open access to  
FAIR marine data:

**F**indable

**A**ccessible

**I**nteroperable

**R**eusable





Chemistry

Biology

Physics

Ingestion

EMOD-PACE



FAIR - EASE

iMagine



**EUROPEAN OPEN SCIENCE CLOUD**

Blue Cloud





# Research and monitoring infrastructures in the Mediterranean Sea

“Acqua Alta”  
Oceanographic Tower



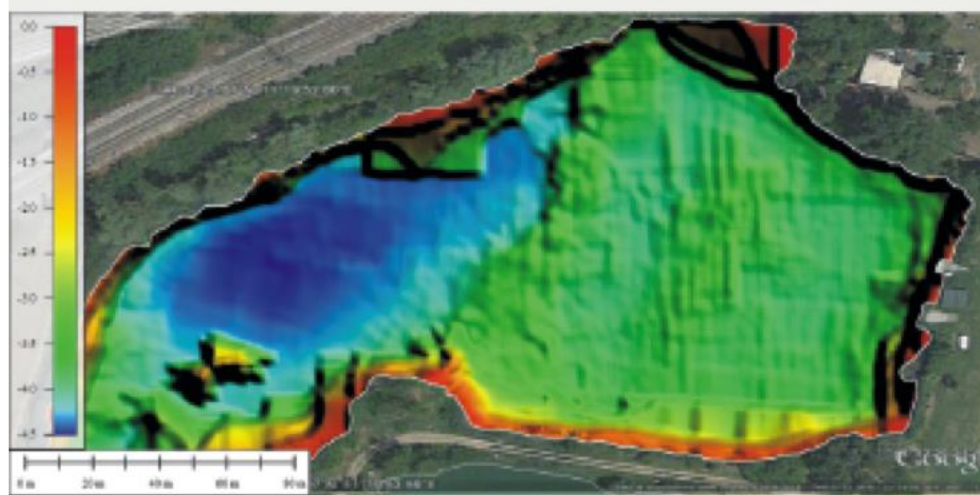
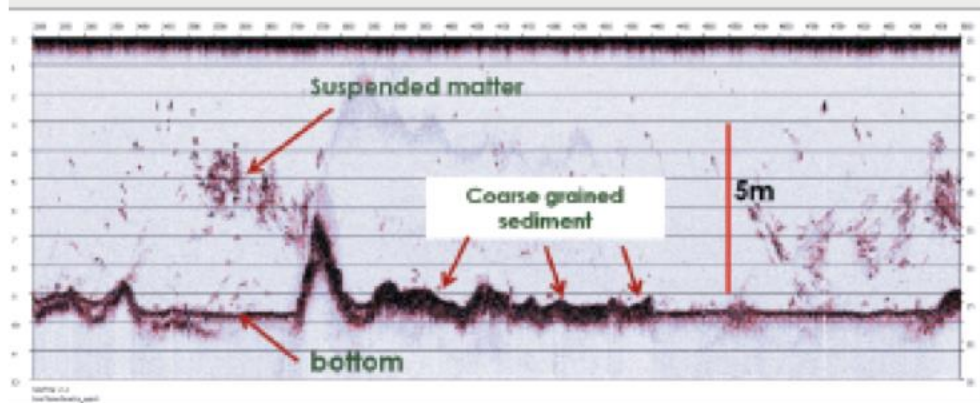
ODAS Oceanographic buoy



Gaia Blu

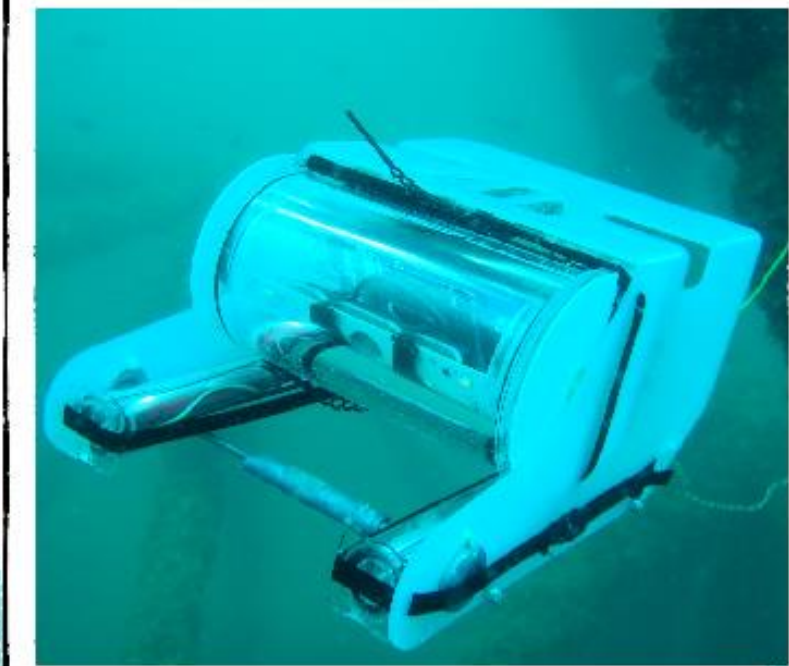






## Open ROV

- \* based on arduino and beaglebone
- \* battery operating
- \* HD video
- \* no need of controller (web based interface)
- \* LOW COST!





# Marine Strategy Framework Directive (2008/56/CE)

Scientists, Decision Makers, Citizens,  
We can all contribute !



© Ministero della Transizione Ecologica

1. Biological diversity 	2. Non-indigenous species 	3. Population of commercial fish/shellfish 	4. Elements of marine food webs 
5. Eutrophication 	6. Sea floor integrity 	7. Alteration of hydrographical conditions 	8. Concentrations of contaminants 
Good Environmental Status	9. Contaminants in fish/seafood for human consumption 	10. Marine litter 	11. Introduction of energy including underwater noise 



**Thanks for your participation!**

Follow us on

[www.ogs.it](http://www.ogs.it)

[www.nodc.ogs.it](http://www.nodc.ogs.it)

