



# 2<sup>nd</sup> Ocean Observers Workshop

Sharing international marine science educational resources

29-30 Nov & 1 Dec 2021

#OceanObserversWorkshop



2021  
2030 United Nations Decade  
of Ocean Science  
for Sustainable Development



## Ocean Literacy and UN Ocean Decade (1 December, 18:00-19:40 CET)

Twitter:  
[#OceanObserversWorkshop](#)

Slido.com  
[#OceanObserversWorkshop](#)

- **Welcome** by Dina Eparkhina & Carolyn Scheurle
- **Scientists for Ocean Literacy** - Dina Eparkhina, EuroGOOS
- **Ocean Literacy With All in the Ocean Decade** - Francesca Santoro, IOC-UNESCO
- **Open-Source Oceanography: accelerate research by involving citizens** - Cédric Courson, Astrolabe Expedition
- Roundtable discussion
  - **Ocean Observing in the classroom** - Caroline Bodet, Primary School Teacher
  - **Blue Careers & Ocean Literacy** - Zacharias Siokouros, Cyprus Marine and Maritime Institute
  - **Sailing - Science - Education: My Ocean Challenge** - Birte Lorenzen, My Ocean Challenge / Malizia
  - **Ocean Literacy Research** - Emma McKinley, Cardiff University / Marine Social Science Network



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Join at

**slido.com**

**#OceanObserversWorkshop**





# EuroGOOS

European Global Ocean  
Observing System

Join conversation on Twitter:

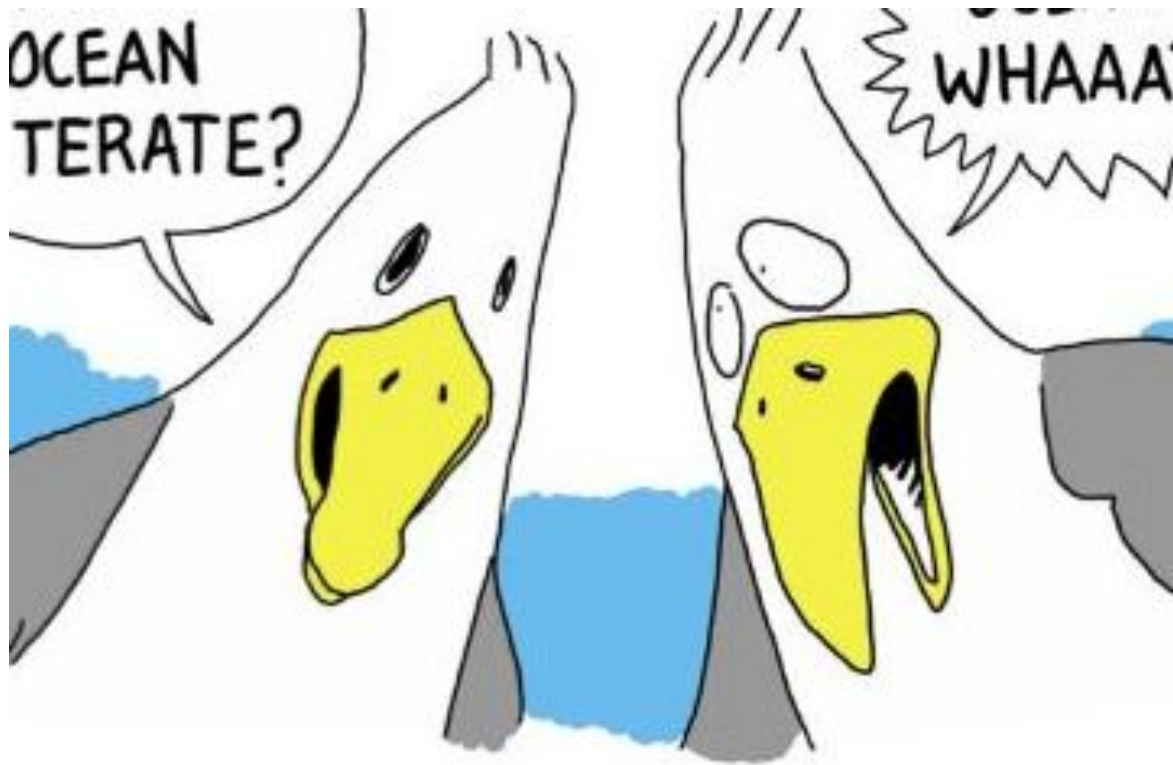
@dina\_ep, @EuroGOOS  
#OceanObserversWorkshop

## Scientists for Ocean Literacy

**EuroGOOS recommendations in the Decade of Ocean Science  
for Sustainable Development**

**Dina Eparkhina**





# The incredible journey of ocean literacy







In the last 20 years, Ocean Literacy has evolved **from an educational tool to an imperative for science-based policymaking & sustainable economy** – means to raise the engagement of society in science, reduce the uptake of fake news, and help determine common language across stakeholders in the **UN Decade of Ocean Science 2021-2030**



2021  
2030  
United Nations Decade  
of Ocean Science  
for Sustainable Development

# ACTIONS

Meet all the endorsed Ocean Decade Actions

## Scientists for Ocean Literacy (Oceanographers and Meteorologists for Ocean Literacy)

European Global Ocean Observing System, EuroGOOS



Arctic Ocean, Mediterranean Sea, North Atlantic Ocean, Other, Project,  
Understand and beat marine pollution, Unlock ocean-based solutions to  
climate change

The ocean can inspire, fascinate, frighten, and intrigue. For us, the ocean is  
daily work.

Our 'Scientists for Ocean Literacy' initiative will help European oceanographers',  
hydrographers, and met agencies engage more impactfully with the public on the  
topics of sustainability. 'Scientists for Ocean Literacy' will inspire joint events and  
resources for public and educators, embrace multi and trans-disciplinarity and  
inclusiveness in ocean knowledge and innovation, help exchange best practice,  
and promote blue careers. 'Scientists for Ocean Literacy' will empower scientists  
as ocean advocates to their communities, countries, and regions, and help  
transform ocean knowledge into actions for sustainability.

**Start Date:** 01/06/2021

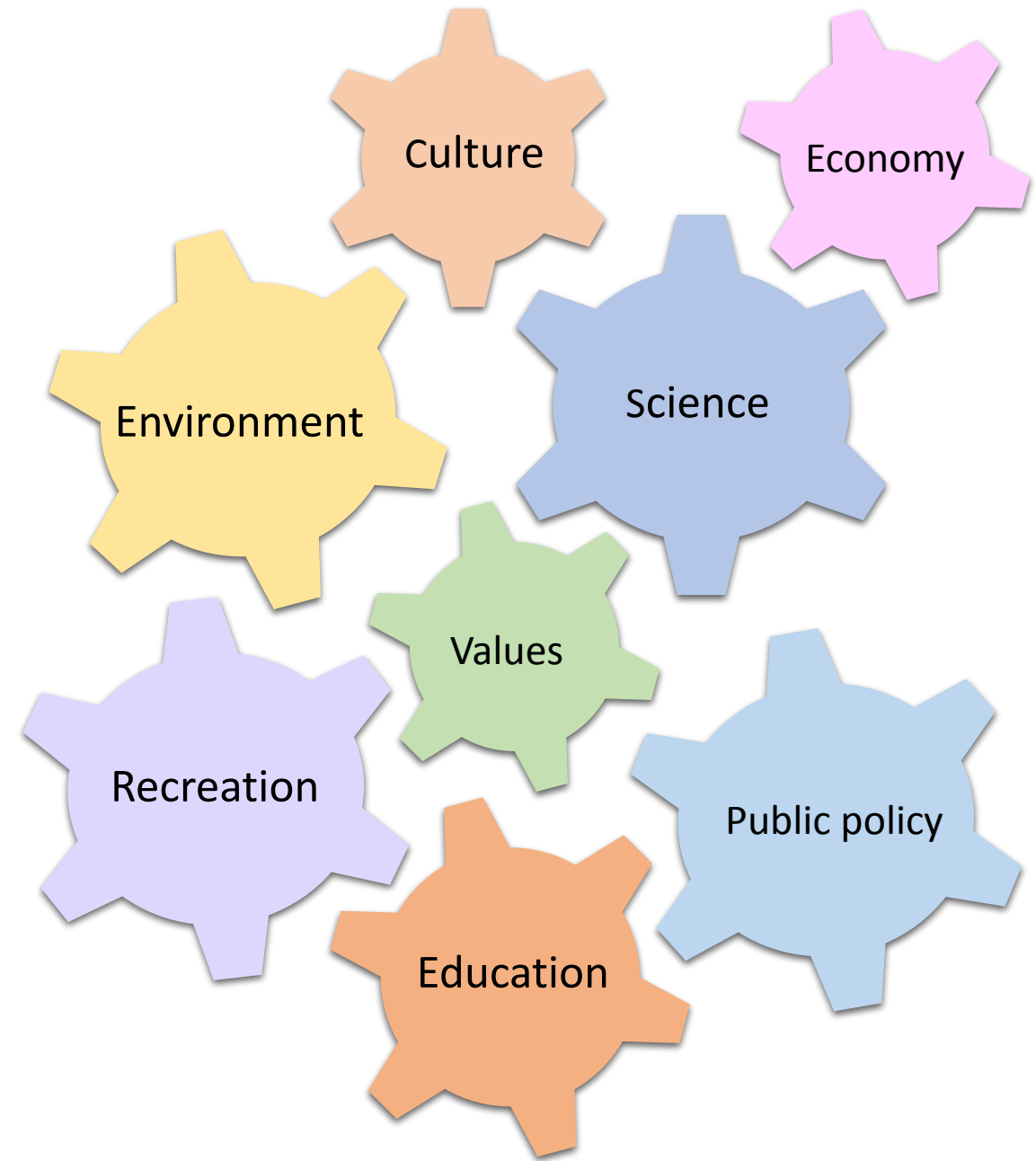
**End Date:** 31/05/2030

This project is hosted by the Decade Programme Ocean Literacy With All (OLWA):  
the change we need for the ocean we want.

### Contact

Dina Eparkhina: [dina.eparkhina@eurogoos.eu](mailto:dina.eparkhina@eurogoos.eu)

<https://www.oceandecade.org/>





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# Scientists for Ocean Literacy: Activities



1. Online resources and community forum
2. Innovative data visualization
3. Internationalization of successful national events
4. Facilitation of cross-national events
5. Promotion of diversity
6. Promotion of blue careers and STEAM
7. Translations of successful materials and use in other countries
8. Trainings for scientists to engage in Ocean Literacy
9. Best practice in accessibility and social equity - how to make Ocean Literacy accessible to all
10. Enhancing Ocean Literacy work across the Global Ocean Observing System

# EuroGOOS ocean literacy network & working group



**22** organizations  
**9** countries  
**4** organizations  
pan-European or  
global



# Key activities June 2019-Aug 2021 (1)

<https://eurogoos.eu/ocean-literacy/>



- Resources library
- OceanObs'19
- Home-schooling campaign during COVID-19 lockdown
- OceanTeacher Global Academy training on Ocean Literacy
- CommOCEAN 2020 workshop on Ocean Literacy Accessibility to All



Our #OceanLiteracy experts have united to make your #homeschooling more fun!



Follow #EuroGOOS\_OL to dive into our multi-lingual resources!



PRADA AND UNESCO TOGETHER FOR THE  
FIRST VIRTUAL OCEAN LITERACY SUMMIT

## Key activities June 2019-Aug 2021 (2)

Over 1,600 online  
participants



- **First UN Ocean Literacy Summit** co-organized by EuroGOOS – official event of the Ocean Decade preparatory stage.
- From global to local: EuroGOOS promoted the inclusion of national OL activities in the event's website



Over 80 EuroGOOS OL materials on the Summit resource pages



The map, prepared by EuroGOOS team, shows the geographical coverage of the attendees of the event.

<https://education.ocean.org/olsummit/>

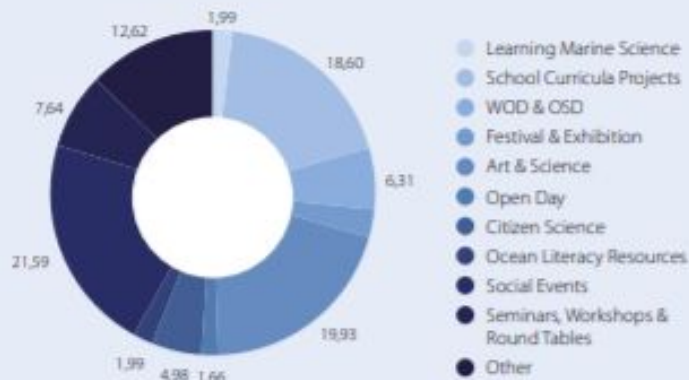
Dina Eparkhina, November 2021



# Key activities June 2019-Aug 2021 (3)

- Survey on OL activities in European oceanography
- Policy brief with recommendations for the Decade
- UN Ocean Decade Action Scientists for OL endorsed (part of OLWA programme of UNESCO)
- UN Ocean Decade Lab event on An Inspiring and Engaging Ocean
- EU4Ocean founding member
- Engagement with European regions

ACTIVITY TYPES in %

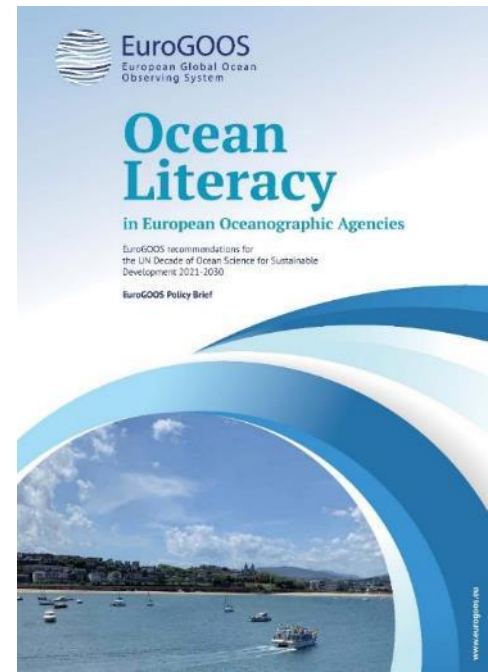
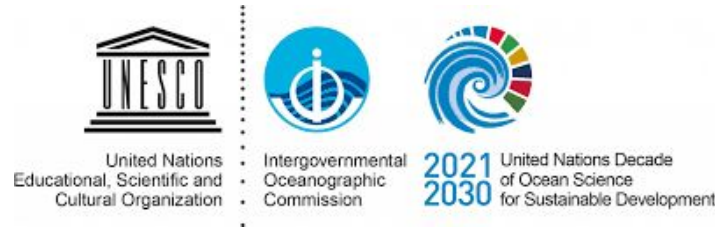


## Scientists for Ocean Literacy

EuroGOOS Ocean Decade Activity in Inspiring and Engaging Ocean Laboratory, 8 July 2021



Interactive discussion with audience through a range of talks, questions and answers, and polls



# Ocean Literacy

in European Oceanographic Agencies

EuroGOOS recommendations for  
the UN Decade of Ocean Science for Sustainable  
Development 2021-2030

EuroGOOS Policy Brief

## Recommendations to funders & managers in the Ocean Decade

1. Ocean Literacy activities help **connect** marine research **with education, policy, economy, and society.**

2. Ocean Literacy activities require **impact monitoring** of to fully assess their benefits.

3. Ocean Literacy should be **recognized** as a significant **action** and a **research field** in oceanography, with an adequate funding support.

4. Ocean Literacy activities will give better results if developed in **multi-disciplinary partnerships.**

5. Ocean Literacy **practionners** need to **collaborate** among themselves to strengthen their voices and work.

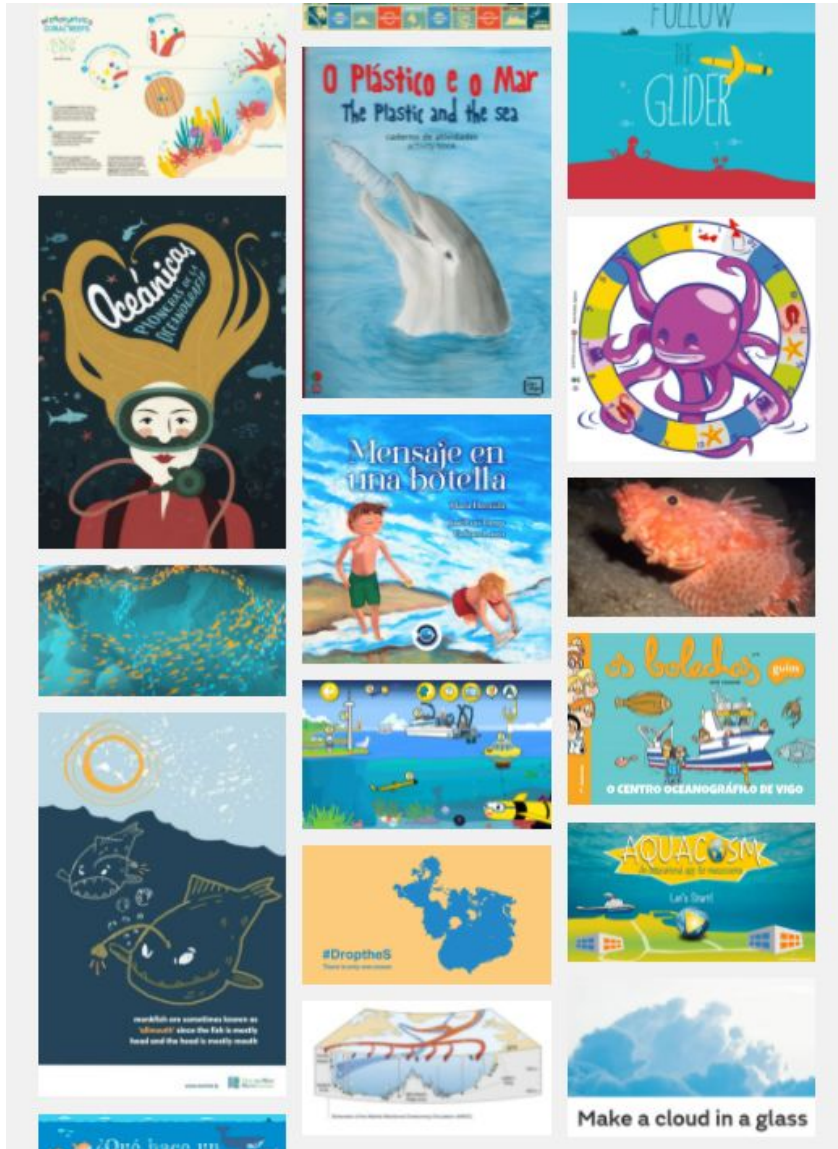
6. Ocean Literacy activities should strive to be **inclusive and accessible to all.**



Left: Winners of 'The Sea of Science' contest and their relatives on board R/V SOCIB visiting the SOCIB buoy installed in Palma bay, 2019. Credit: 'LA MAR DE CIENCIA' (SOCIB/CSIC). Middle: Exhibition 'We and the Plastic' held at the Museum of Natural History of the University of Pisa (UNIPI), Italy, and realized in collaboration with INGV and CNR-ISMAR. Right: Activities on 11 February 2019, International Day of Women and Girls in Science, at the Oceanographic Center of Malaga, Spain. Credit: IEO.



# Take Home



<https://eurogoos.eu/ocean-literacy/>

Image on top - credit: Eparkhina D, Lehtonen K 'The Ocean Is My Home'



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[@EuroGOOS](https://twitter.com/EuroGOOS)

[#EuroGOOS\\_OL](https://twitter.com/EuroGOOS)







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# Q&A



# Ocean Literacy Framework for the UN Decade

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United Nations  
Educational, Scientific and  
Cultural Organization

Regional  
Bureau  
for Science  
and Culture  
in Europe



Intergovernmental  
Oceanographic  
Commission



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# Priority Areas

**Formal Education**

**Advancing Policy**

**Corporate Action**

**Community  
Engagement**



United Nations

Regional  
Bureau  
for Science  
and Culture



Inter-governmental



2021 United Nations Decade

# Mainstreaming Ocean Literacy in Education Policy

- Although adoption of overall policies regarding Environmental Education and Education for Sustainable Development is increasing worldwide, there is still a critical need to further strengthen specific ocean issues within these agendas.
- We need to inform policy-makers and develop policies and mechanisms to strengthen ocean literacy through formal and non-formal education systems.
- This requires relevant, context-specific, and coherent policies designed by ministries and local governments, supported by cross-sector and multi-stakeholder engagement.



© Reisy Nak / Pexels



# Mainstreaming Ocean Literacy in Education Policy

## Desired Result

**Mainstreaming  
Ocean Literacy  
in Education Policy**

## Sample Recommended Activities

- Establish a National Ocean Literacy Strategy and Ocean Literacy coordination mechanism, as well as designate a National Focal Point for Ocean Literacy
- Including Ocean Literacy in National Curriculum Standards in order to include ocean education[9] in primary and secondary schools
- Training programmes for government officials on ocean sustainability and/or Blue Economy opportunities
- Investments in Ocean Literacy schools and/or Ocean Literacy programmes including ocean literacy discipline in undergraduate courses for future teachers

# Enhancing Formal Education

- Formal Education institutions at every level are key to help shape knowledge, attitudes, behaviours, and actions towards ocean sustainability.
- Ocean Literacy, through a multi-disciplinary and cross-cutting approach, can be incorporated into the curriculum of most classroom courses and subjects, thus supporting ocean stewardship and regular subject delivery.
- Ocean Literacy can provide opportunities to enhance critical-thinking, problem-solving and leadership skills, among others.



© Reisy Nak / Pexels



# Enhancing Formal Education

## Desired Result

**Enhancing  
Formal Education**

## Sample Recommended Activities

- Training programmes for pre-service educators and active educators from multiple disciplines, including workshops, field trips, and in person and online courses
- Knowledge exchanges between formal educators and experts
- Development of curriculum materials for primary and secondary schools
- Nature-based opportunities and educational actions for students (e.g. field trips, interactive workshops)

# Mobilising Corporate Action

- Businesses, large and small, shape and influence environmental and socio-economic policies, investments, actions, and attitudes.
- Mobilising corporate action also reaches a broad range of stakeholders across the value chain, including, but not limited to, employees, investors, suppliers, vendors, and customers.



© Marta Ortigosa / Pexels



Regional  
Bureau  
for Science





# Mobilising Corporate Action

## Desired Result

### Mobilising Corporate Action

## Sample Recommended Activities

- Integrating ocean literacy into corporate social responsibility policies, priorities and initiatives.
- Training program for employees and/or customers and suppliers on ocean sustainability and Blue Economy
- Investments in incubators focused on ocean innovation, technology, sustainability and social enterprise
- Development of programmes that empower marginalized and/or underrepresented groups in ocean science and conservation programmes

# Increasing Community Engagement

- Citizens and communities around the world, urban or rural, coastal or non-coastal, have a key role to play in enhancing Ocean Literacy.
- Non-formal Education, refers to all education efforts occurring outside the formal school system including aquariums, art galleries, and museums, home-based learning, to name only a few.
- Creates opportunities to engage a wide diversity of stakeholders, such as fishermen, women, youth, disadvantaged and marginalised groups, media, etc. and the general public.





# Increasing Community Engagement

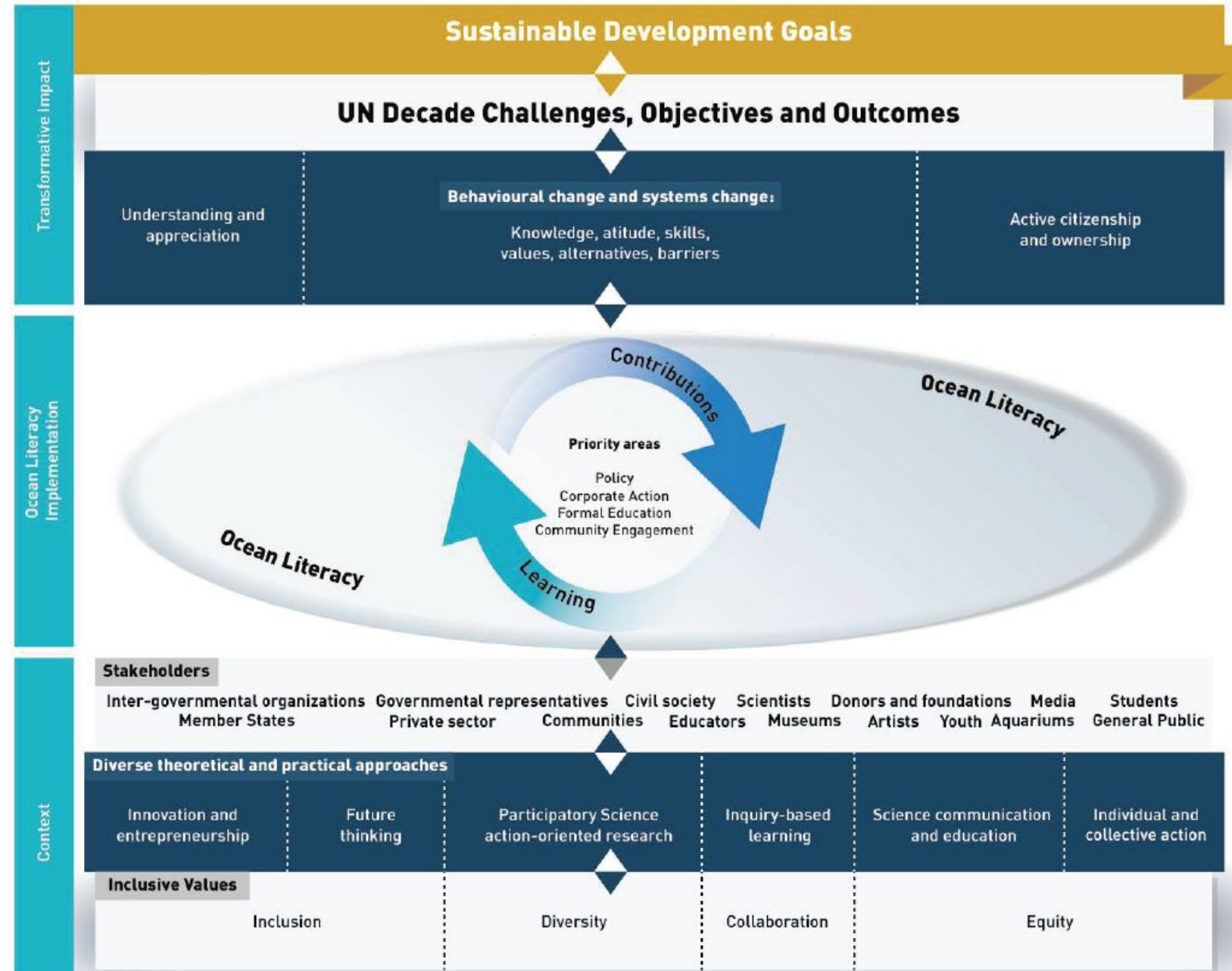
## Desired Result

**Increasing Community  
Engagement**

## Sample Recommended Activities

- Interactive interventions of Ocean Literacy such as art exhibitions or movie screenings
- Public Awareness campaigns on key ocean topics
- Citizen Science programmes that empower the general public to engage in the Decade
- Knowledge exchanges and transfer between scientists and members of society, including Indigenous communities, educational organisations, governments, among others
- Training program for media

# Framework







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# Q&A

# Open Source Oceanography

A way to accelerate the oceanographic research by involving communities

**Cédric Courson**

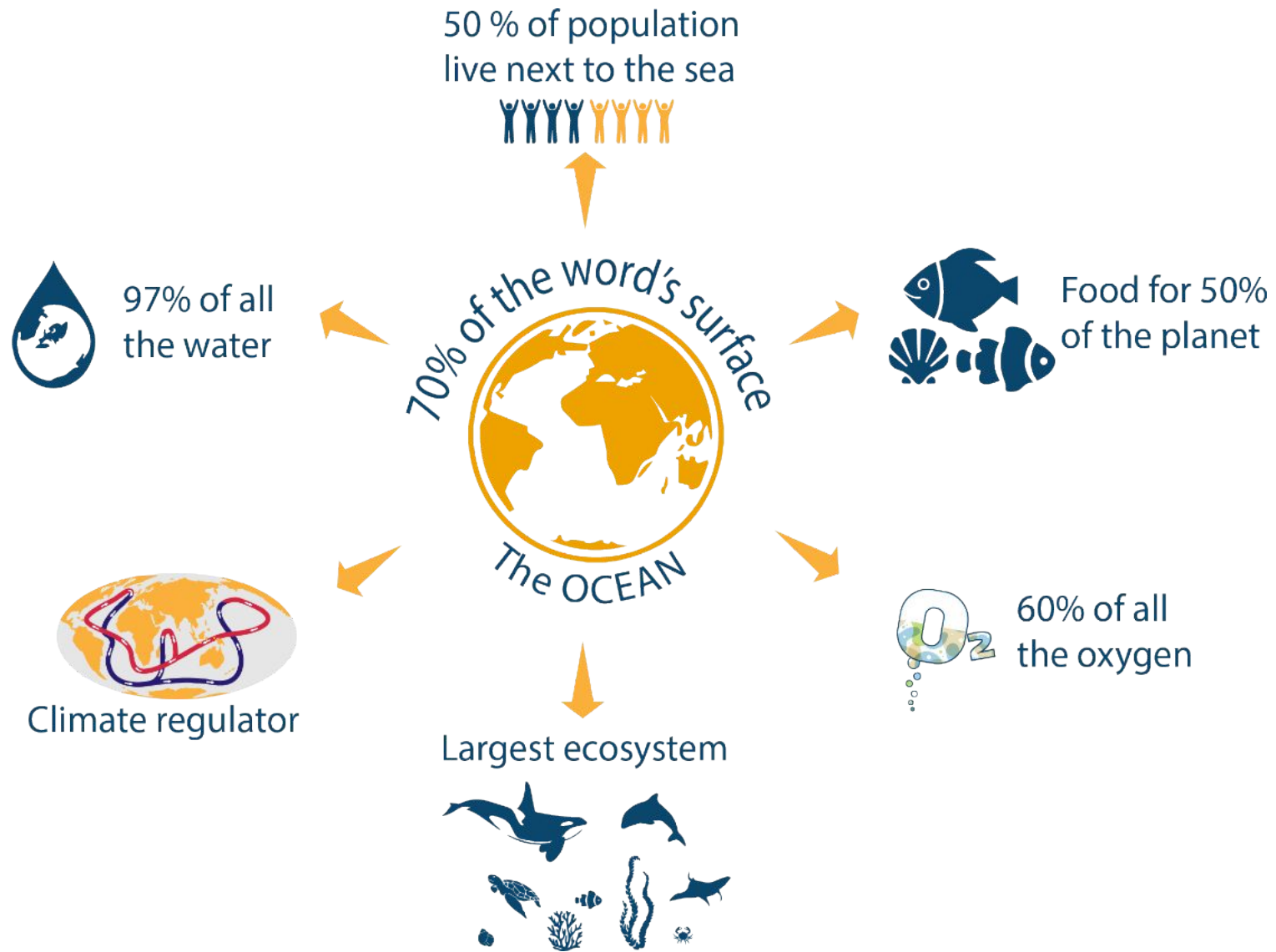
***Astrolabe Expeditions***



***PhD Student***





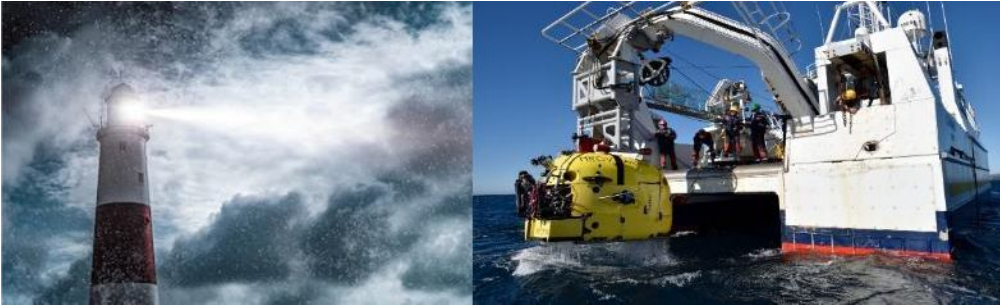


## What opportunities to involve society today ?





# The issue of Instrumented science



**Instruments are needed** to explore the ocean



New technologies = **more accessible instruments** for all

**Easy instrumentation opportunity**

*Figures : Ifremer*



**Citizen sciences** to explore the ocean on a large scale

**14 000 sailing boats** in the high sea

**Multiple  
platforme  
opportunity**



**Open source instruments** as tools to involve and mobilize communities



**Really useful  
Adapt to usage**

**Open science** to innovate and change scale



**Mass  
innovation  
opportunity**



More than **1000** citizen fabric laboratories in the world



Tools



Know-how



Large scale  
opportunity

How the combination of **open source oceanographic tools** and **citizen science** can *accelerate the acquisition of scientific knowledge* of the ocean?

Open source  
Instruments



Citizen  
Science

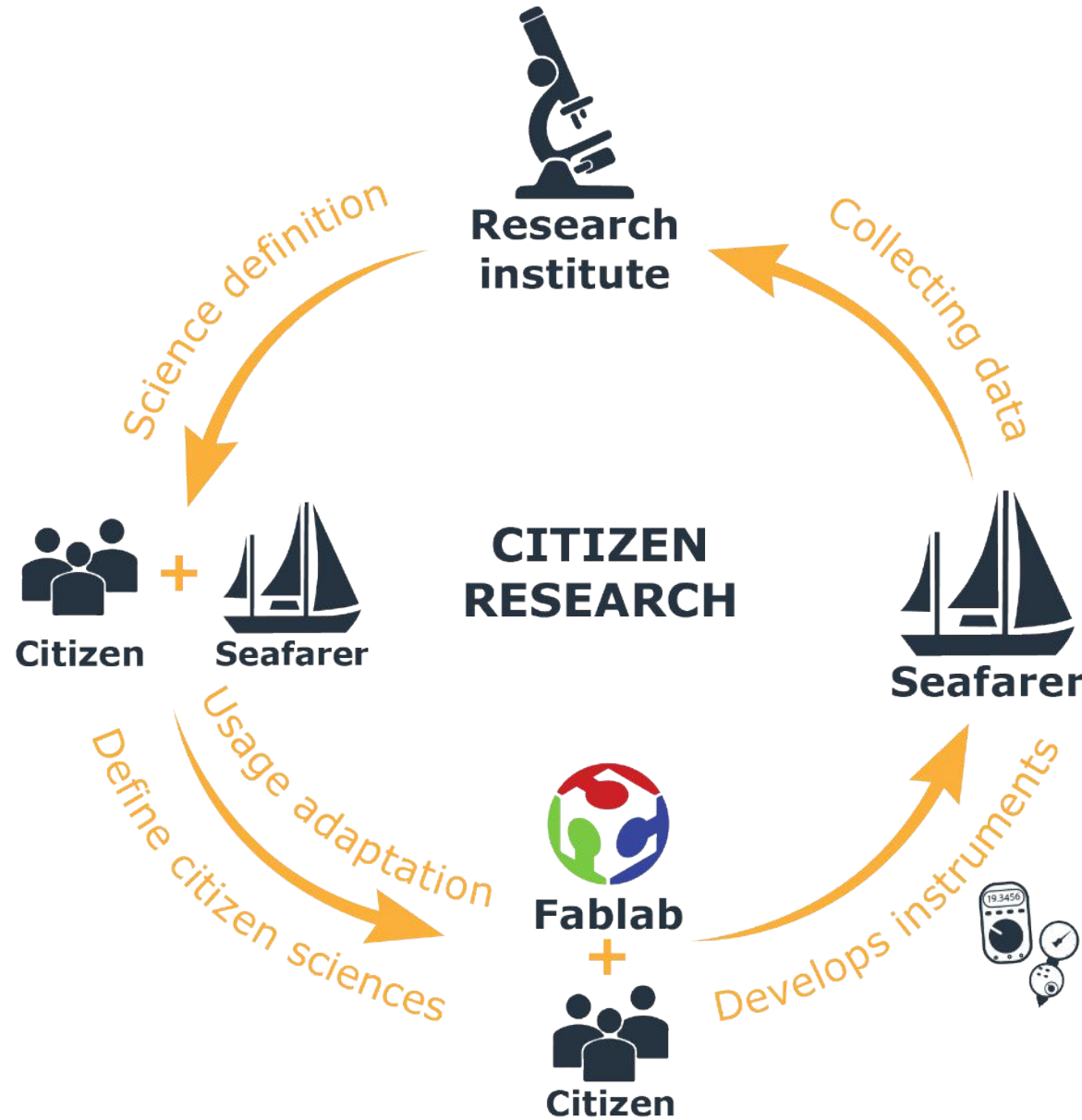
Accelerate



Large Scale



Oceanographic  
knowledge



## Participatory action research

### Interdisciplinary research

- Physical oceanography and climatology
- Engineering
- Human and social science
- Epistemology

### Many communities

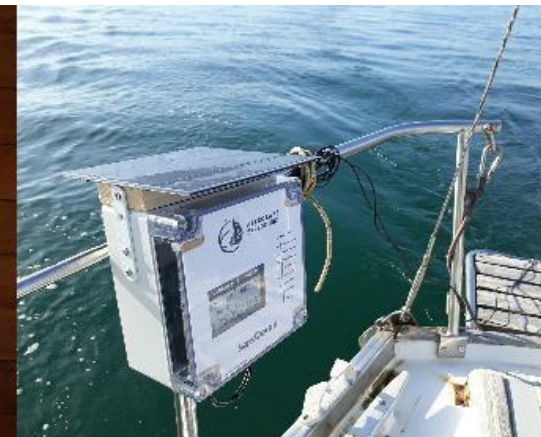
- Sailors
- Seafarer
- Makers
- Citizens on land
- Scientists
- Environment protectors



## Citizen sciences in high sea - SensOcean



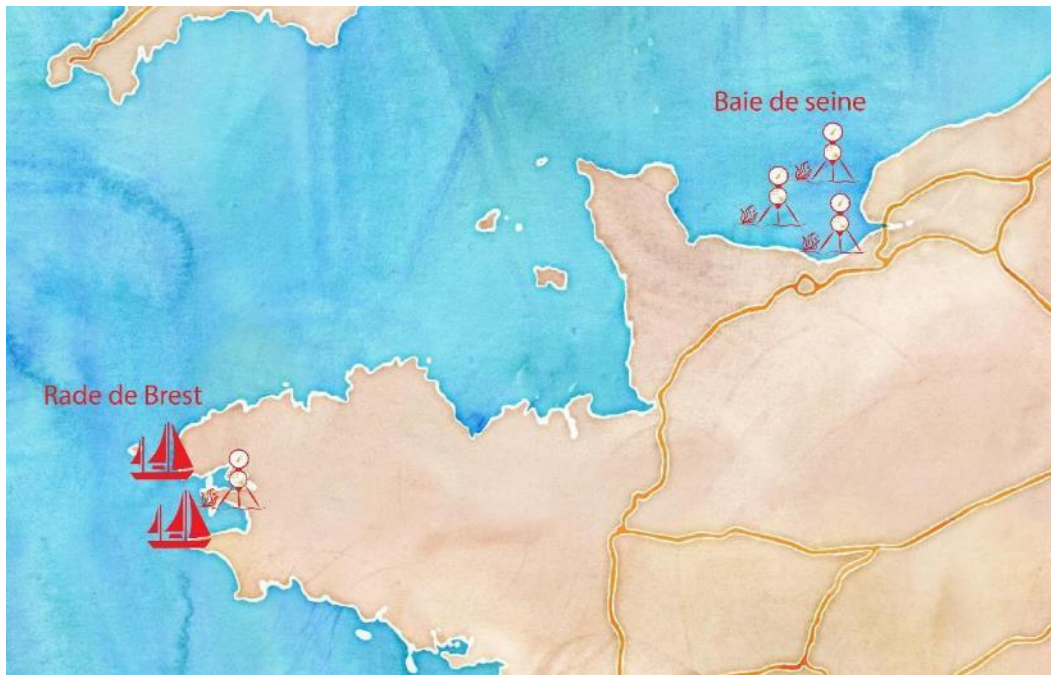
The big Ocean  
Surface salinity  
*50 expeditions*



## Citizen sciences in littoral sea - LittObs



Coastal sea  
Salinity gradient



## Citizen sciences in lagoon – Open Lagoon

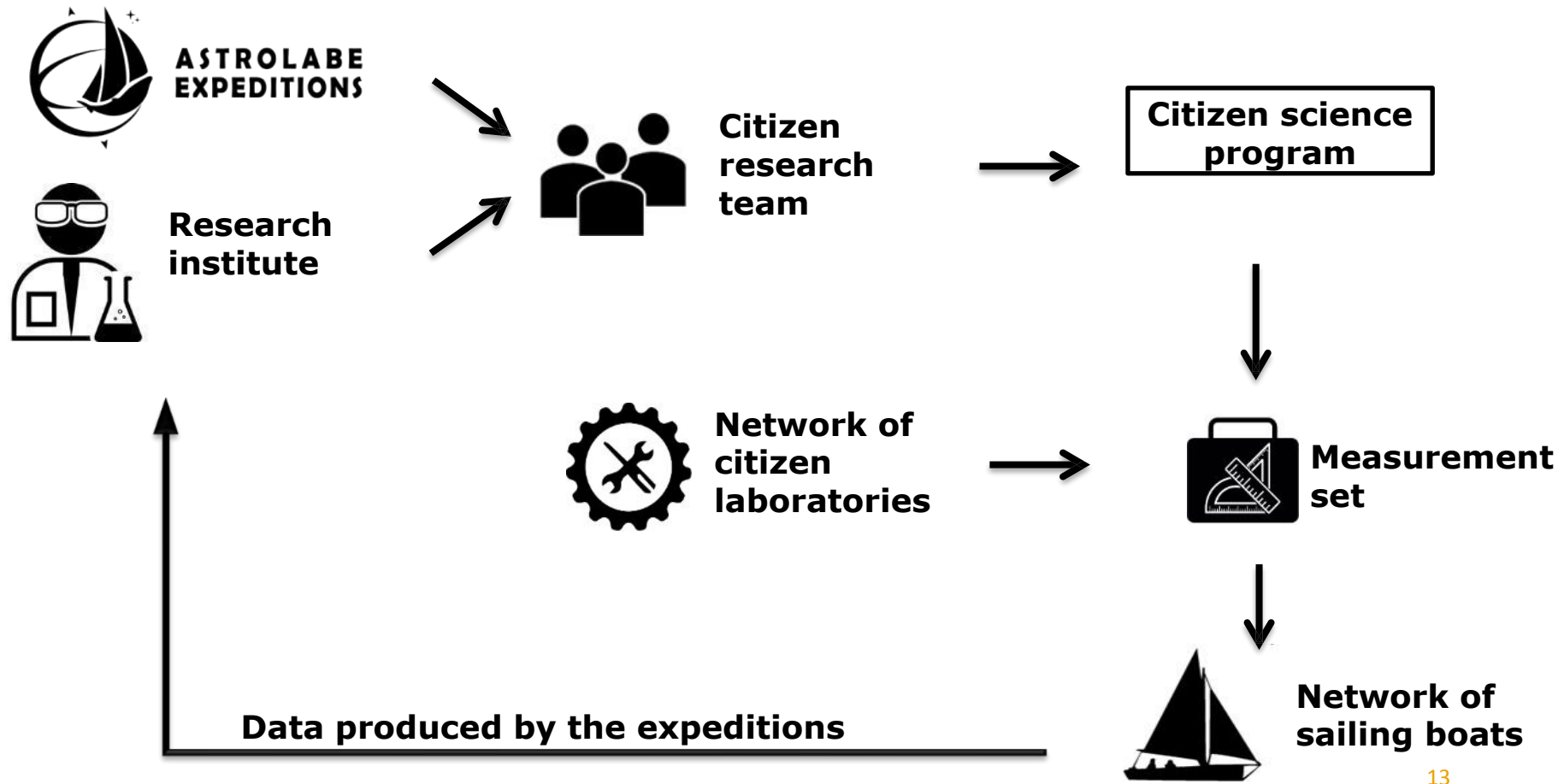


Polynesian lagoon  
Chlorophyll monitoring  
**20 hub**





## An ecosystem allowing to produce large scale data





Cédric Courson

[cedric.courson@astrolabe-expeditions.org](mailto:cedric.courson@astrolabe-expeditions.org)

[www.astrolabe-expeditions.org](http://www.astrolabe-expeditions.org)

<https://www.zotero.org/groups/2456552/phd-cc-opensourceoceanography/library>



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# Q&A





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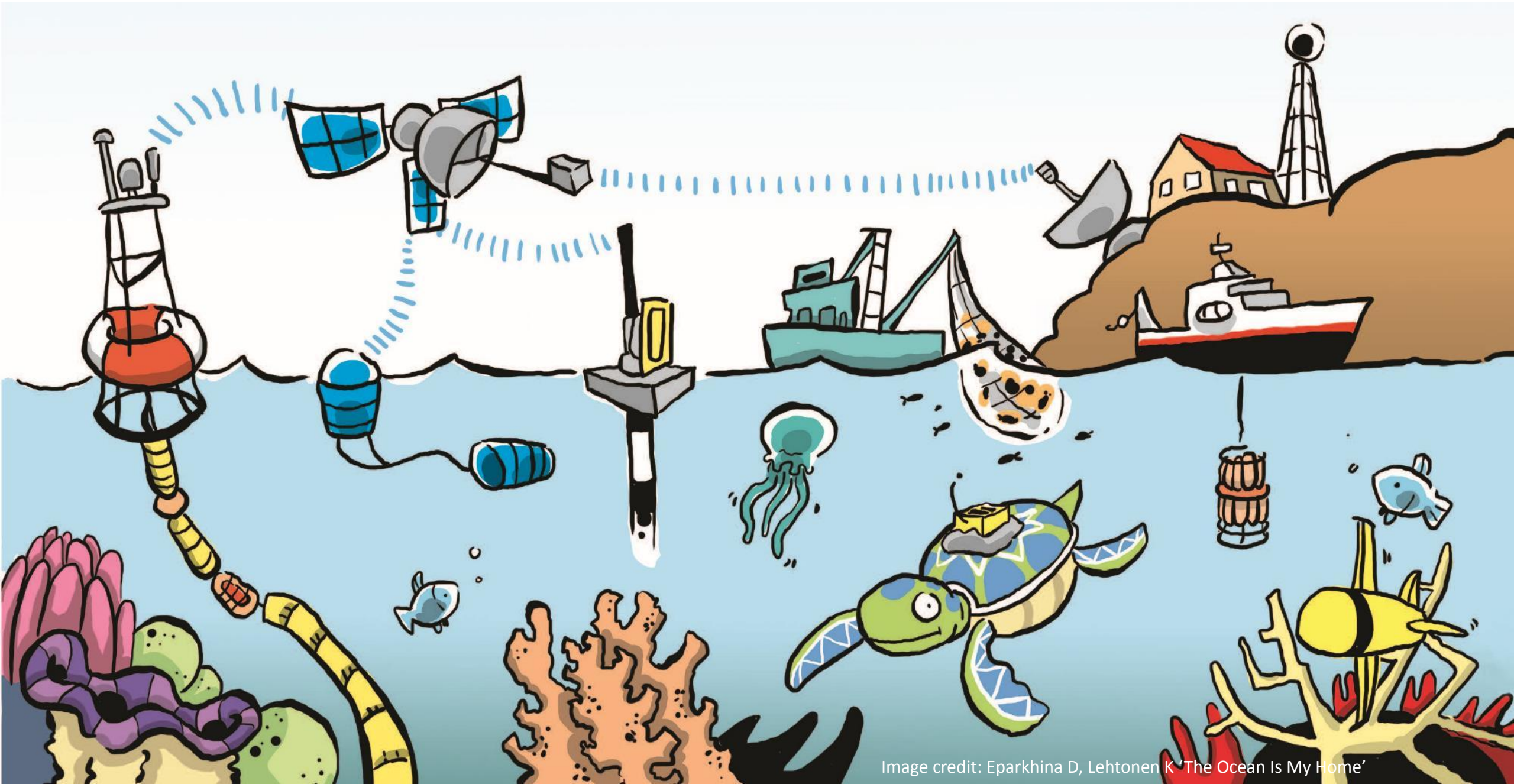
Join at

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**#OceanObserversWorkshop**



# Ocean Literacy and Ocean Observing – a win-win deal







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## Session 6: Ocean Literacy and UN Ocean Decade

**Caroline BODET, primary school teacher in Brest**

**[caroline.bodet@ac-rennes.fr](mailto:caroline.bodet@ac-rennes.fr)**













CM1 école du BOURG  
FLOZANÉ  
Mathilda ♥  
Léon Amélie  
Luka  
Elia ♥  
Morgaux  
Lina ♥  
Lina ♥







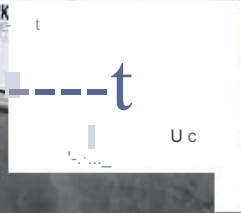


Salut élèves de CM1!  
Merci beaucoup pour la vidéo que  
tu avez créée sur AI phone...  
C'est tellement bien fait!  
Bravo!!!

*[Signature]*

















CM1-Bourg

110 663e

21h 30'



3D



095°



98° Trib.

B&G

17.6 nds

10 milles



Pseudo...



+1h

+2h

+3h

196°  
18.1 nds

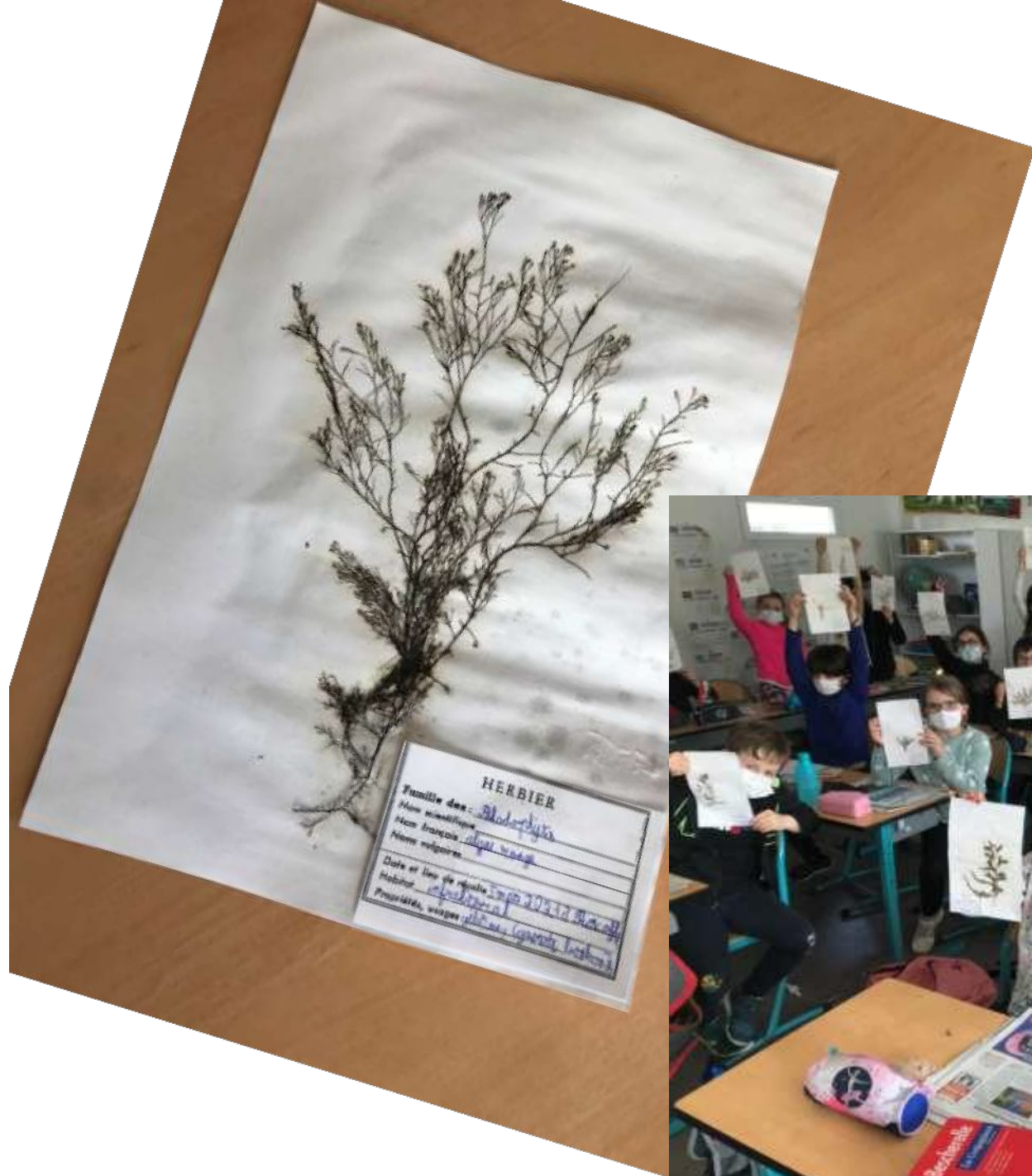


- +2h
- +3h
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- +6h
- +9h
- +12h

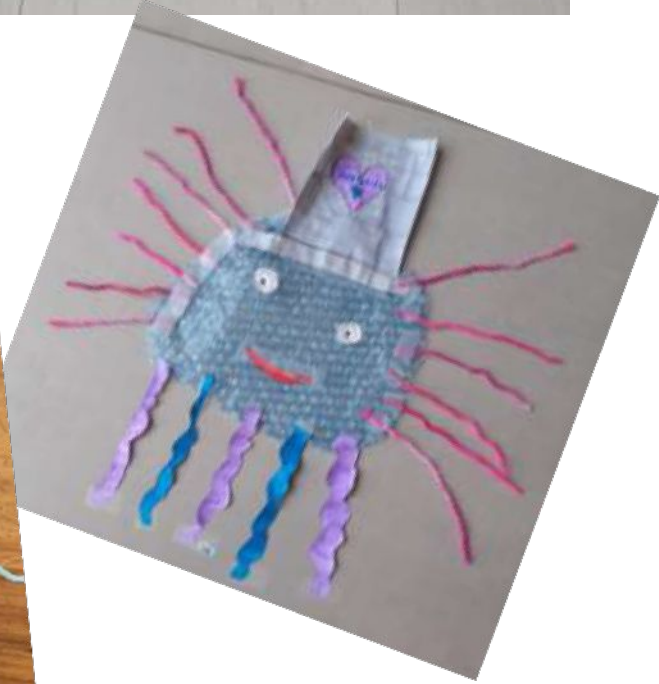














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# Q&A





**CYPRUS  
MARINE &  
MARITIME  
INSTITUTE**

# **Blue careers**



**Zacharias Siokouros**

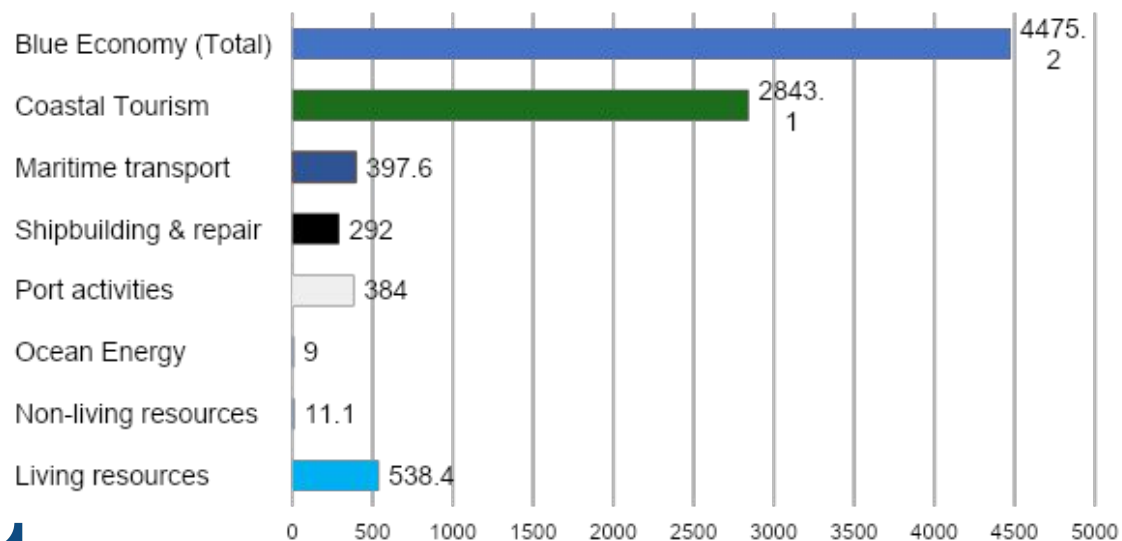
CEO, CMMI - Cyprus Marine & Maritime Institute

2<sup>nd</sup> Ocean observers workshop  
*1<sup>st</sup> December 2021*

## Contribution of the Blue Economy to the overall EU economy



## Persons Employed in the established Blue Economy sectors (in thousand)



## Assessment of the impact of the COVID-19 economic crisis on the Blue Economy

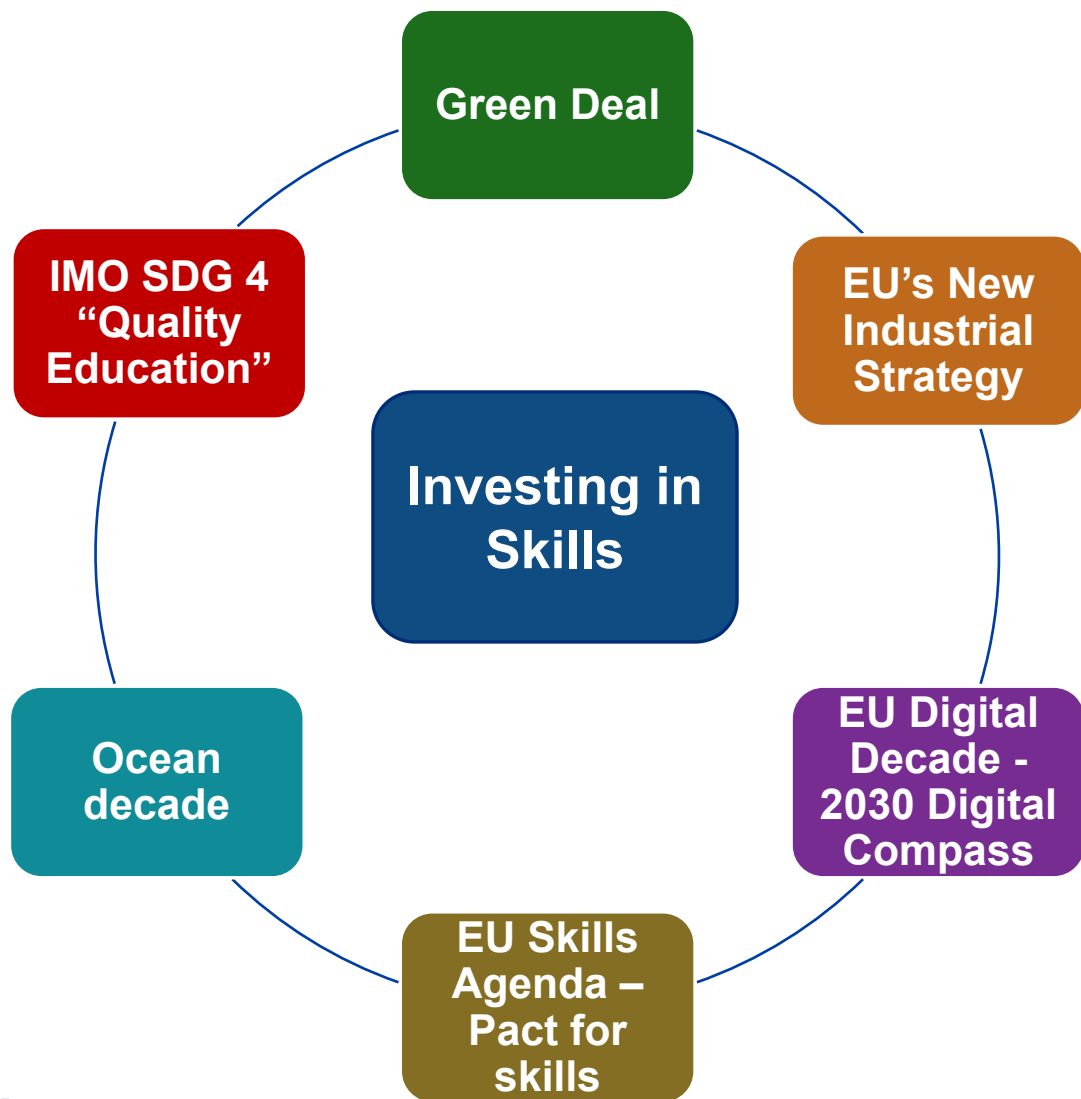
Sector	Size	Impact 2020	Recovery path
<b>Established sectors</b>			
Marine living resources	Medium	Strong	Prompt
Marine non-living resources	Small	Strong	Prompt
Marine renewable energy	Nascent	Medium	Prompt
Port activities	Medium	Strong	Prompt
Shipbuilding and repair	Small	Strong	Lagged
Maritime transport	Medium	Strong	Prompt
Coastal tourism	Very large	Strong	Very lagged
<b>Emerging sectors</b>			
Blue bioeconomy	Small	Strong	Prompt
Ocean energy	Nascent	Small	Prompt
Desalination	Nascent	Small	Prompt
Maritime defence	Small	Small	Prompt
Cables	Nascent	Small	Prompt
Research and Education	Nascent	Small	Prompt
Marine observation	Nascent	Small	Prompt

# The EU Blue Economy

Source: European Commission, "The EU blue economy report 2021"



# The current policy context



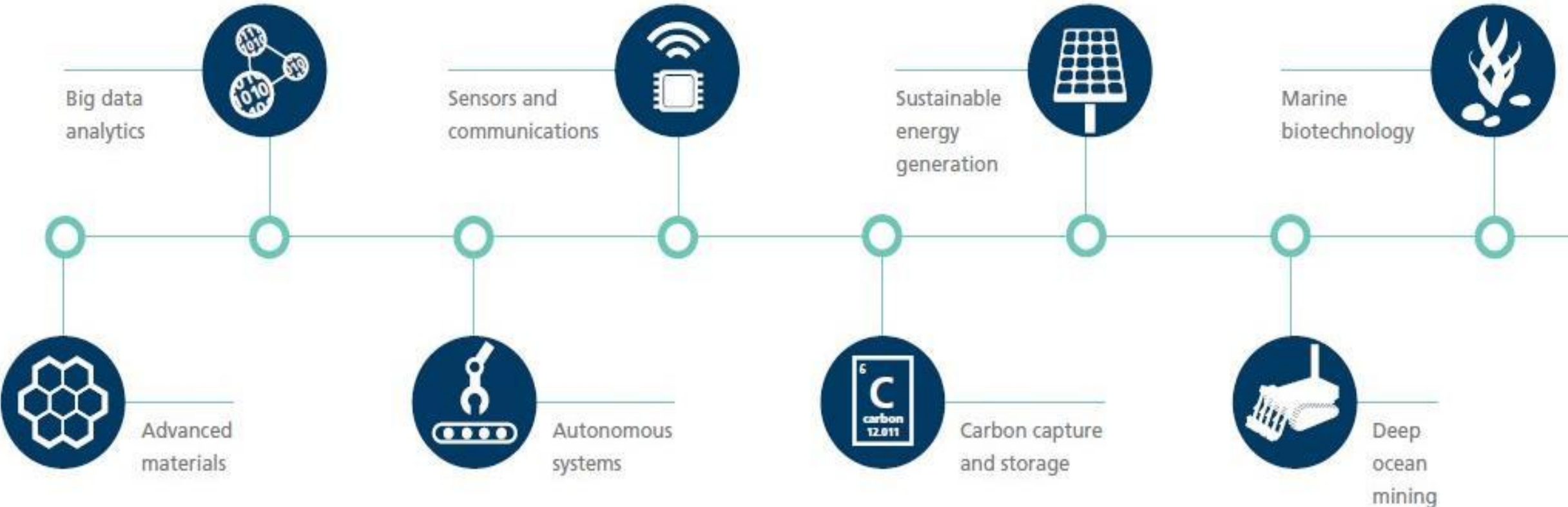
“The best investment in our future is the investment in our people. Skills and education drive Europe’s competitiveness and innovation. But Europe is not yet fully ready. I will ensure that we use all the tools and funds at our disposal to redress this balance.”

*The President of European Commission Von der Leyen*



The COVID-19 pandemic has accelerated the digital transition and has impacted career opportunities in the EU.

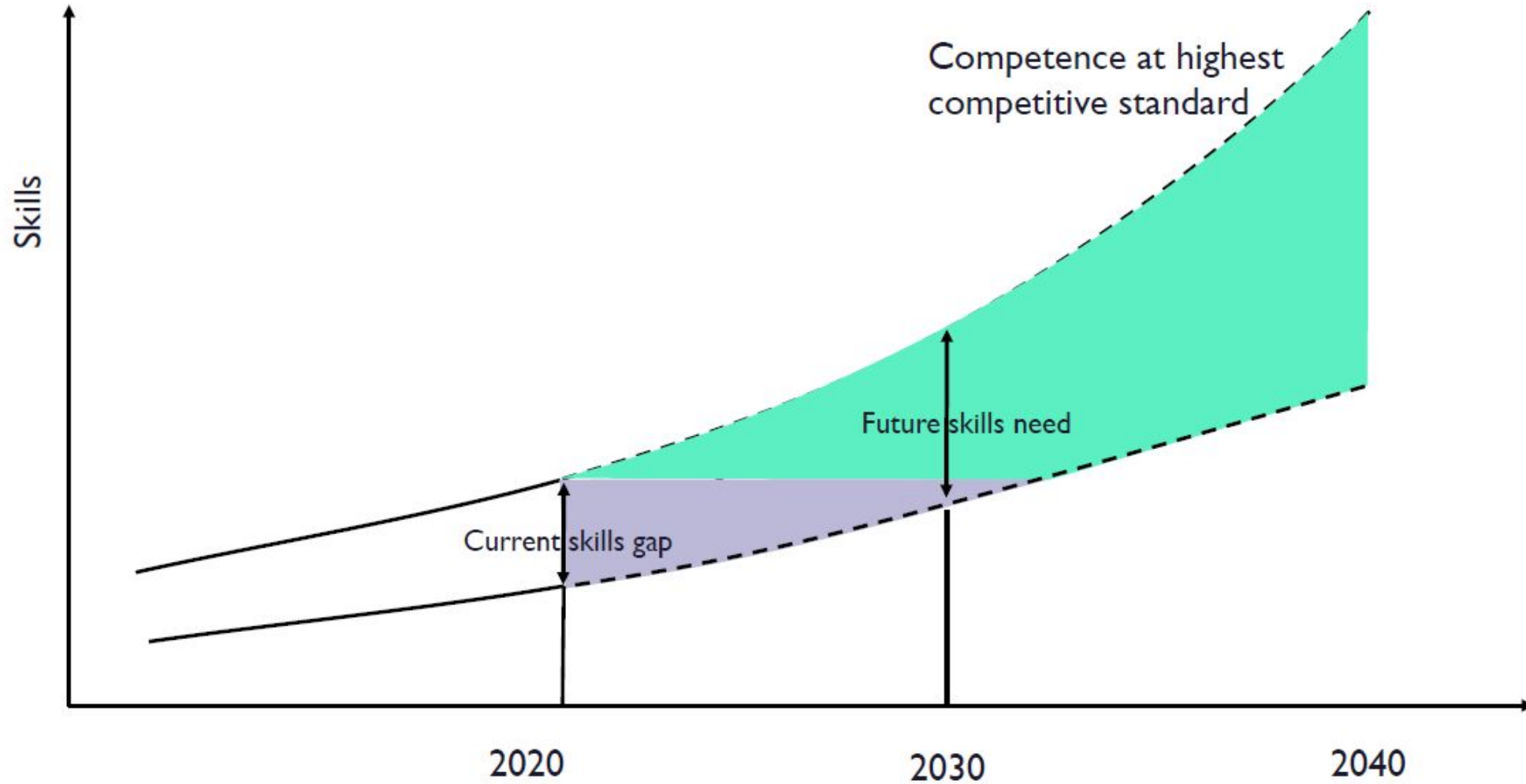
# Transformational Ocean Space Technologies



Source: LR, "Global Marine Technology Trends 2030"



# Closing the skills GAP



# Main challenges for the marine and maritime sectors



**Current and future shortage of marine and maritime professionals**



**Changes/ Technological advances**



**Mobility**



**Communication Issues**



**Core skills sets**



**Digital skills**



**Green skills**





# Ocean Literacy & Blue Careers



20 April - 7 June 2021  
Name a Reef competition





***“If you want to build a ship, don’t drum up people to collect wood and don’t assign them tasks and work, but rather teach them to long for the endless immensity of the sea.”***

**Antoine de Saint-Exupery**

**#MakeEUBlue**

**Thank you for your attention**



***CMMI was established as a “Centre of Excellence in Marine and Maritime Research, Innovation and Technology Development” and has received funding from the European Union’s Horizon 2020 research and innovation Programme under Grant Agreement No. 857586 and matching funding from the Government of the Republic of Cyprus.***



**info@cmmi.blue**



**www.cmmi.blue**



**@cmmicyprus**



**cmmicyprus**



**cmmicyprus**



Thank you for  
your attention



[zacharias.siokouros@  
cmmi.blue](mailto:zacharias.siokouros@cmmi.blue)







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Q&

A



# Malizia

**#MYOCEANCHALLENGE**

• [www.myoceanchallenge.org](http://www.myoceanchallenge.org)

• [www.borisherrmannracing.com](http://www.borisherrmannracing.com)

• [myoceanchallenge@borisherrmannracing.com](mailto:myoceanchallenge@borisherrmannracing.com)





**A RACE WE MUST WIN**  
CLIMATE ACTION NOW!



PRINCE ALBERT II  
DE MONACO  
FONDATEUR

UNITE  
BEHIND  
THE

A RACE WE MUST  
WIN  
CLIMATE ACTION NOW!

*Yacht Club de Monaco*

**seaexplorer**







A RACE WE MUST WIN  
CLIMATE ACTION NOW

seaexplorer AVUSTO

Spain Boris

Malizia

EFG

lapag-Lloyd





**A RACE WE MUST WIN  
CLIMATE ACTION NOW!**



  
*Malizia*

Global Climate  
United Nations Climate C







Environment  
Water Temperature [°C]





**Malizia**  
OCEAN CHALLENGE



## Boot und Team

Das MALIZIA Boot ist ein extrem **SCHNELLES RENNBOT**. Mit seinen roten **TRAGFLÜGELN (FOILS)** kann es fast fliegen. Das passiert, da...  
Damit das Boot möglichst leicht, aber trotzdem stabil ist, baut man solche Boote mit dem Werkstoff **KARBON**. MALIZIA gehört zu der Bootsklasse **IMOCA 60** (International Monohull Open Class Association, 60 Fuß lang). Mit diesem Bootstyp umrunden die Segler bei der **VENDEE GLOBE REGATTA** die Welt.  
Viele Designer und Ingenieure haben getüftelt, um ein solch schnelles Boot zu entwerfen. Insgesamt wurden ...Stunden an dem Boot gearbeitet.

## MALIZIA

- Länge: 60 Fuß (18,3 m) - ca. 5 Autos
- Masthöhe: 27m- 6 Doppeldecker Busse
- Gewicht: 8.000 kg - 8 große weiße Haie
- Größtes Segel: 400 m<sup>2</sup> - etwa so groß wie ein Basketball Feld
- Maximal Speed: 35 Knoten (65 km/h) - etwa so schnell wie ein Leopard
- Gewicht des Kiels: 3.000 kg - etwa 2 Nashörner



## Wo MAL!

der den **SPITZEN** verkleidet den Staates Mr Palast



**PIERRE UND BORIS** laden dich ein, mit Ihnen ihr **SEGELABENTEUER** zu teilen und Themen rund um den Ozean zu erkunden.

## Was dich erwartet:

- Spannende **ARBEITSBLÄTTER** mit Spielen, kreativen Aufgaben und Versuchen
- Eine **WELTKARTE** für dein Klassenzimmer, um die Segelrennen zu verfolgen
- Ein **PAPIERMODELL** der MALIZIA
- Aktuelle **BERICHTE** und Neuigkeiten von der MALIZIA, **ONLINE SPIELE** und ein **BOOTS-TRACKER** auf [geolino.de](http://geolino.de), um immer live dabei zu sein und Nichts zu verpassen

## EXPERTENWISSEN

Das Gewicht der Schale ist geringer als das Gewicht des Wassers, welches sie mit ihr Form verdrängt. Darum geht sie nicht unter!

leicht und setzt das Wasser!

Komm mit und entdecke die Welt mit uns!



## Folgende Themen erwarten dich:

- BOOT und TEAM**  
Ein Rennen um die Welt: **VENDEE GLOBE**  
Die Herausforderungen in die Karibik die **ROUTE-DU-RHUM**  
MALIZIA, das „Raumschiff“  
Aufgaben der Segler **AN BORD**  
**LEBEN AN BORD**  
Die alten und neuen **SEEFÄHRER**  
**DER OZEAN:** Meeresströmungen und Winde  
**FLASCHENPOST:** Ozeanforschung  
**DIE ERDE HAT FIEBER:** Globale Erwärmung, CO<sub>2</sub> und die Ozean-  
Erwärmung und -Versauerung  
„Tierische“ **FREUNDE** von MALIZIA  
**BEDROHUNG** des Zuhauses **DER TIERE**  
**PLASTIK** im Ozean  
**UNSERE ZUKUNFT:** Konsequenzen für den Ozean und Lösungsansätze

















- [www.myoceanchallenge.org](http://www.myoceanchallenge.org)
- [www.borisherrmannracing.com](http://www.borisherrmannracing.com)
- myoceanchallenge@borisherrmannracing.com



# 2<sup>nd</sup> Ocean Observers Workshop

Sharing international marine science educational resources

29-30 Nov & 1 Dec 2021

#OceanObserversWorkshop



2021  
2030 United Nations Decade  
of Ocean Science  
for Sustainable Development



# Q&A





# Introducing the Ocean Literacy Research Community

## Ocean Observers Workshop

### December 2021

Dr Emma McKinley - Cardiff University/ Marine Social Science Network - [mckinleye1@cardiff.ac.uk](mailto:mckinleye1@cardiff.ac.uk)

@EmmaJMcKinley @MarSocSci

#MarSocSci #TeamMarSocSci



CANADIAN  
OCEAN  
LITERACY  
COALITION





# OLRC Objectives

- 1) Establish a **coordinated, collaborative, and inclusive** OL research community for the Decade
- 2) Co-organize a **workshop series** (3 total) from July 2021 to June 2022 with the aim to:
  - Map and better understand the current global OL research 'seascape'
  - Co-identify what are the research gaps and priorities
  - Organize research projects to address these gaps and priorities, co-produce a series of outputs, strengthen knowledge exchange
  - Increase support for and impact of OL research



# Workshop #1: July 7

- Building and mapping community
- Taking stock of current OLR

## Co-Developing an Ocean Literacy Research Program for the UN Ocean Decade

Satellite Workshop July 7th 2021



CANADIAN  
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COALITION



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Federal Ministry  
of Education  
and Research



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Lecturer, South Eastern...



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World Maritime University



Sónia Seixas, Professor,  
Universidade Aberta an...



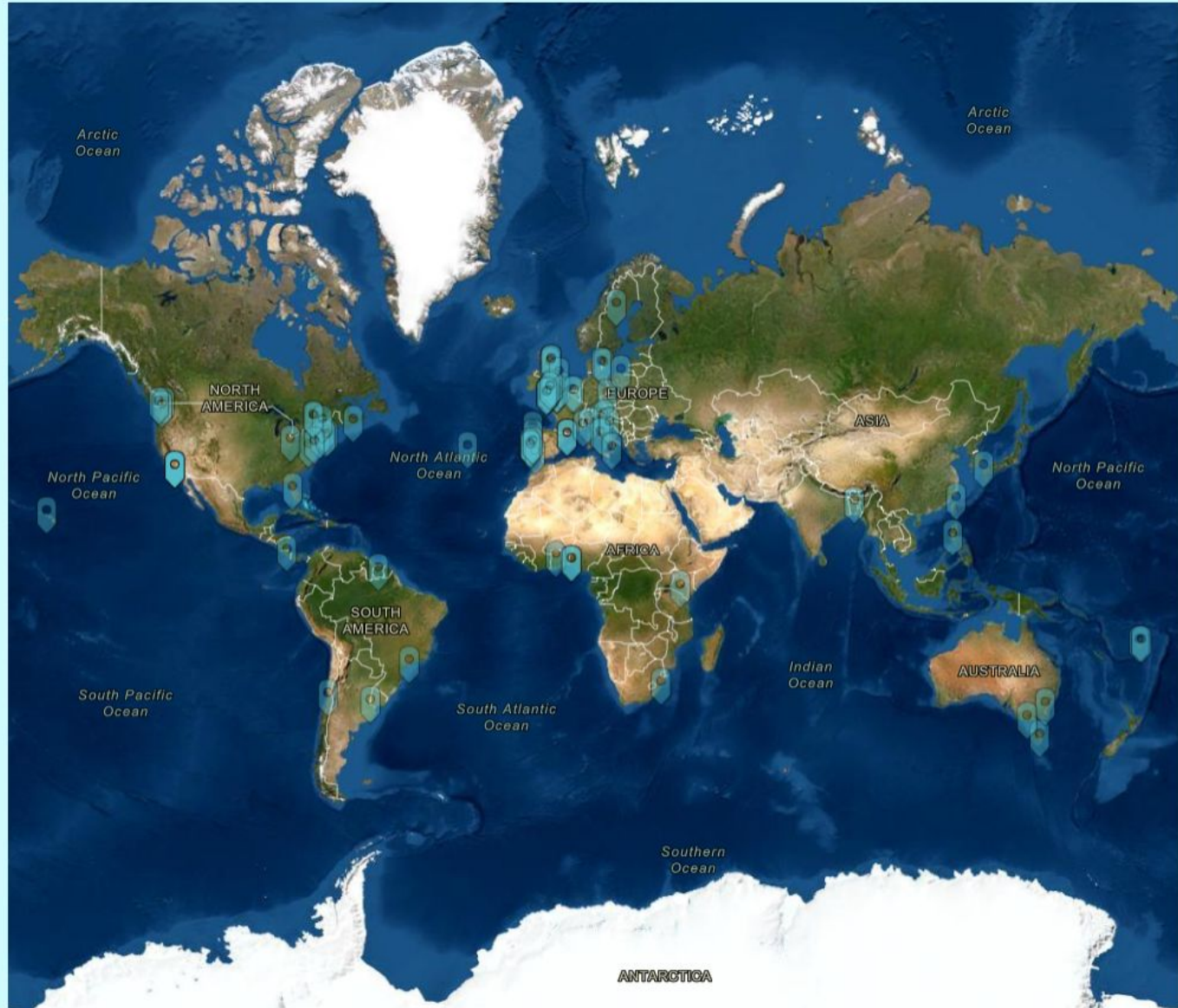
Jesus Figueras, Marine  
Scientist & Writer (I'm...



Gabriela Ojeda-Romano,  
Engagement with Societ...



Olusola Adeoye,  
Researcher, Nature Care...





# Add your voice

**WHY?** The ocean needs US

**WHAT?** An ongoing, global OLRC "snapshot"

**HOW?** Click the survey button (~5-7 min to complete). Your voice will be automatically added to the interactive maps below!

**SURVEY#1: Who's Who in OLRC**

**SURVEY#2: OLR Gaps & Priorities**

\*\*\*\*\*

### UPCOMING SURVEYS:

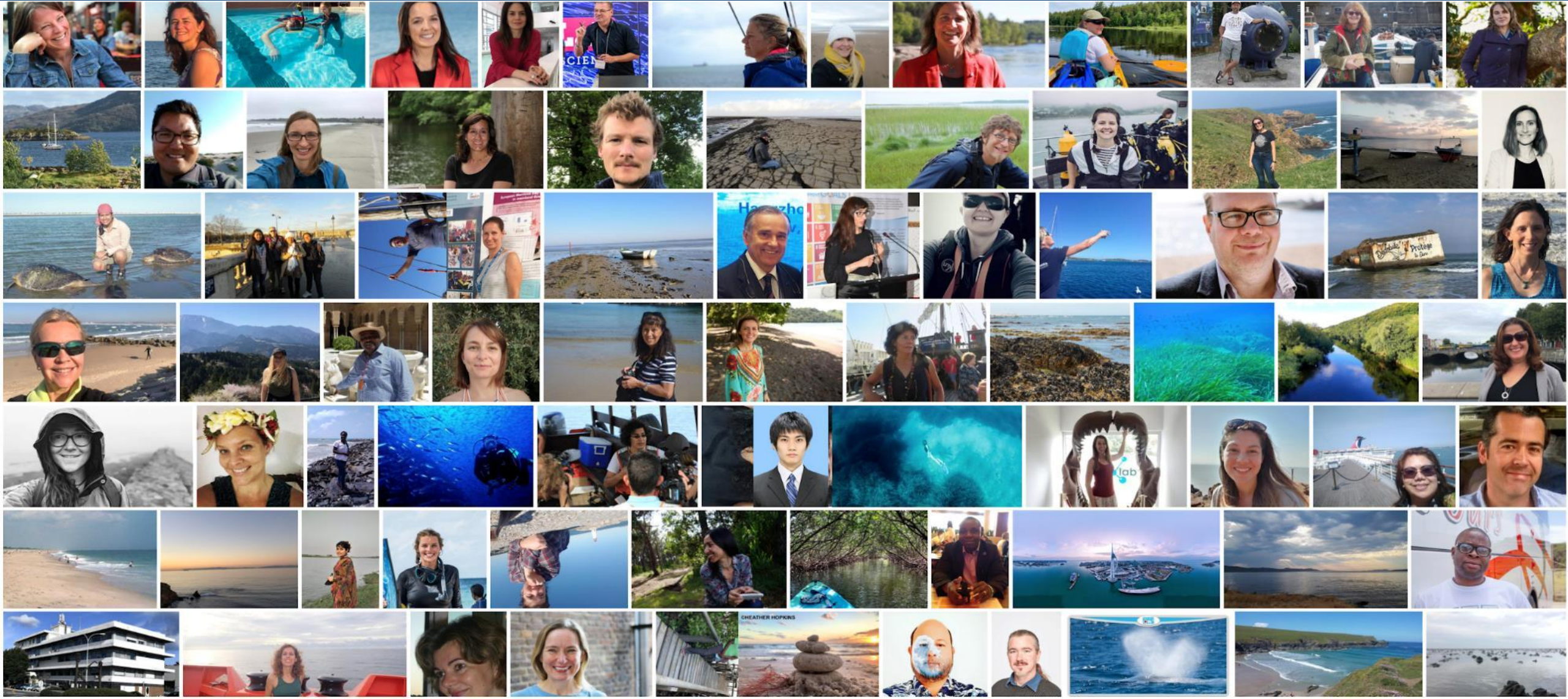
- **Survey #3: Where are we headed? OLRC Action & Impact**





# OLRC Survey: Who's Who

There are currently 114 OLRC members from roughly 32 different countries  
→ Output #1: Our StoryMap





What do you think of when you think about 'ocean literacy research'?

0 5 8



## OLR Definition

### Working Definition:

*OLR is an interdisciplinary, cross-sector field of research which explores the diverse dimensions, drivers, influences and impacts of ocean literacy initiatives. OLR seeks to understand how these aspects may vary in different social, economic, cultural, political, and geographic contexts and is inclusive of diverse voices, actors and ways of engaging with the ocean.*



# Four early identified research goals

1

Measuring OL

2

OLR & Climate  
Change

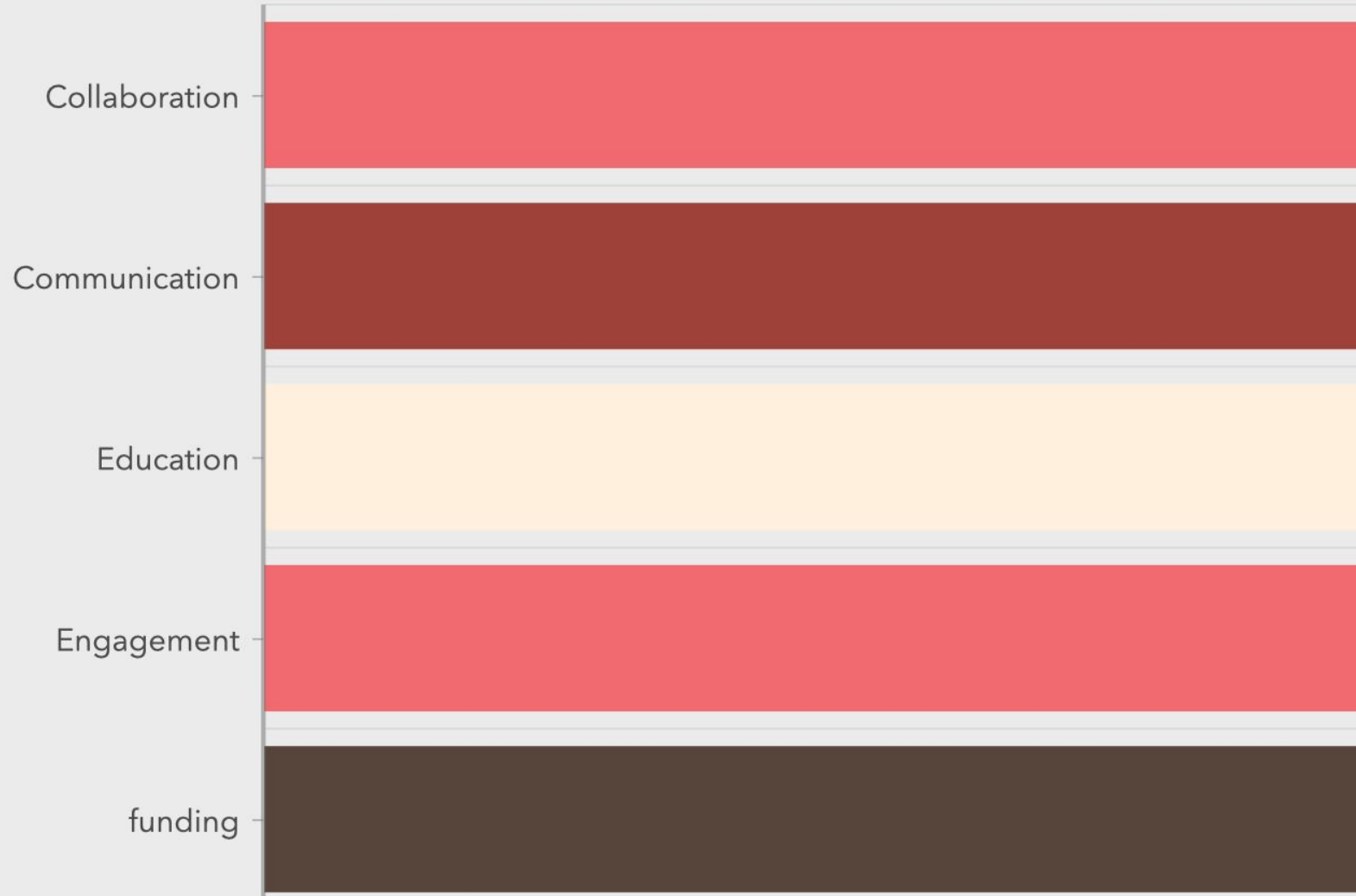
3

OLR & Social  
Justice

4

OL as a policy  
tool

## What is needed to ensure impact of ocean literacy research?

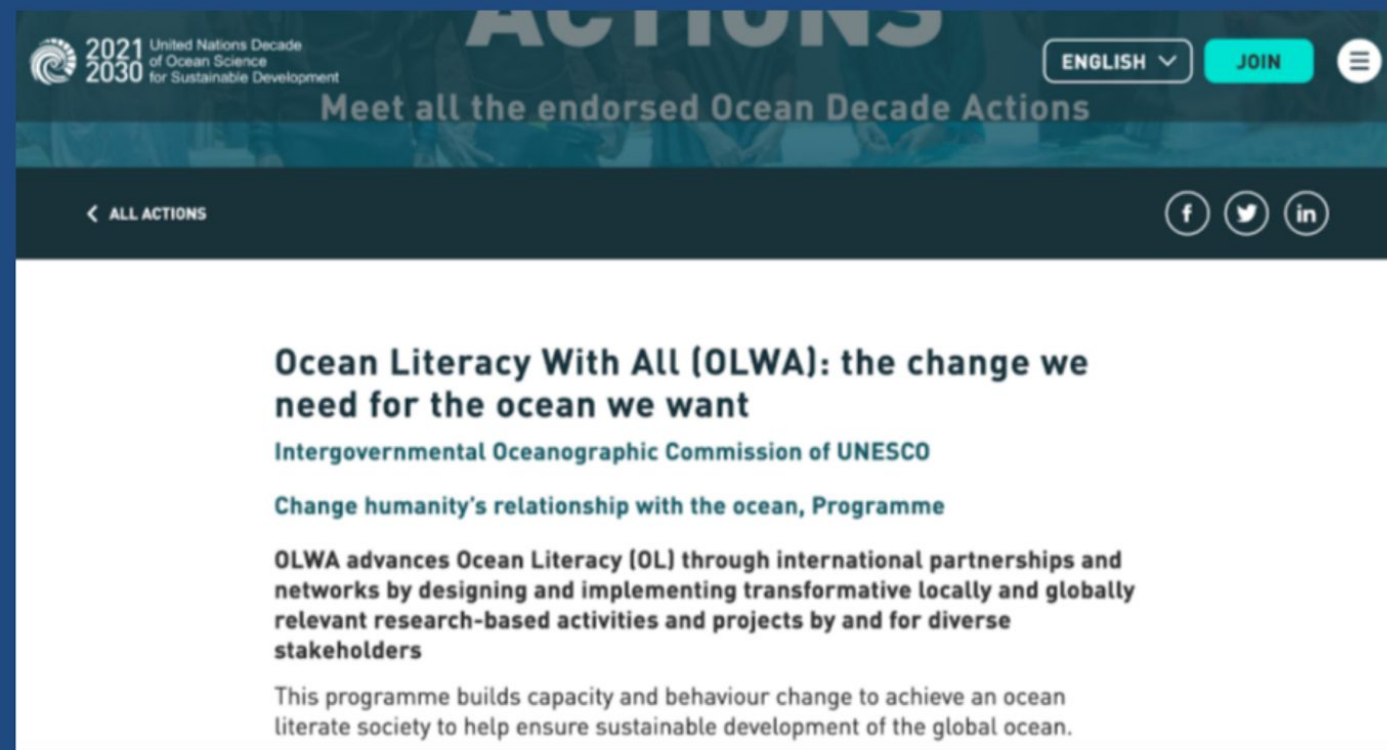




# Situating OLRC work into the Decade endorsed OLWA programme

## Ocean Literacy within the United Nations Ocean Decade of Ocean Science for Sustainable Development

A Framework for Action



The screenshot shows the top section of a website. At the top left is the logo for the United Nations Decade of Ocean Science for Sustainable Development (2021-2030). To the right of the logo is the text '2021 United Nations Decade of Ocean Science for Sustainable Development 2030'. Further right is a language dropdown menu set to 'ENGLISH' and a blue 'JOIN' button. Below this is a navigation bar with the text 'Meet all the endorsed Ocean Decade Actions' and a back arrow labeled 'ALL ACTIONS'. On the right side of the navigation bar are social media icons for Facebook, Twitter, and LinkedIn. The main content area features the title 'Ocean Literacy With All (OLWA): the change we need for the ocean we want' followed by the organization 'Intergovernmental Oceanographic Commission of UNESCO' and the program name 'Change humanity's relationship with the ocean, Programme'. A short description follows: 'OLWA advances Ocean Literacy (OL) through international partnerships and networks by designing and implementing transformative locally and globally relevant research-based activities and projects by and for diverse stakeholders'. At the bottom, a paragraph states: 'This programme builds capacity and behaviour change to achieve an ocean literate society to help ensure sustainable development of the global ocean.'

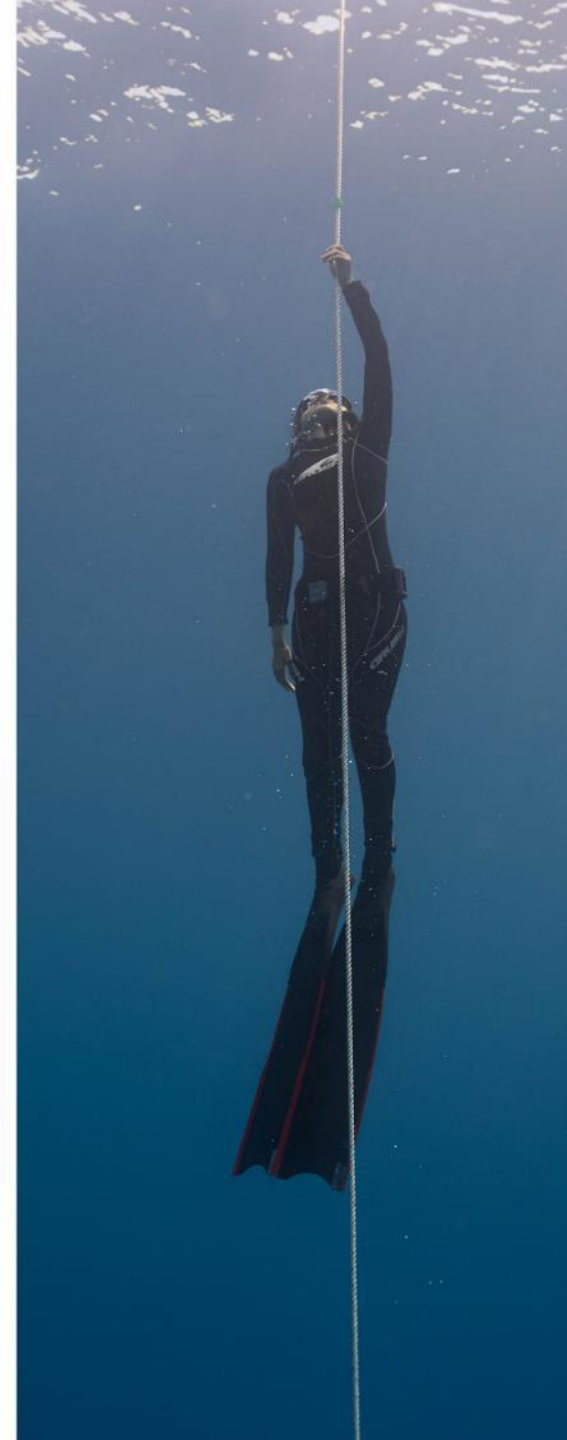
The United Nations  
Decade of Ocean Science  
for Sustainable Development  
**(2021-2030)**



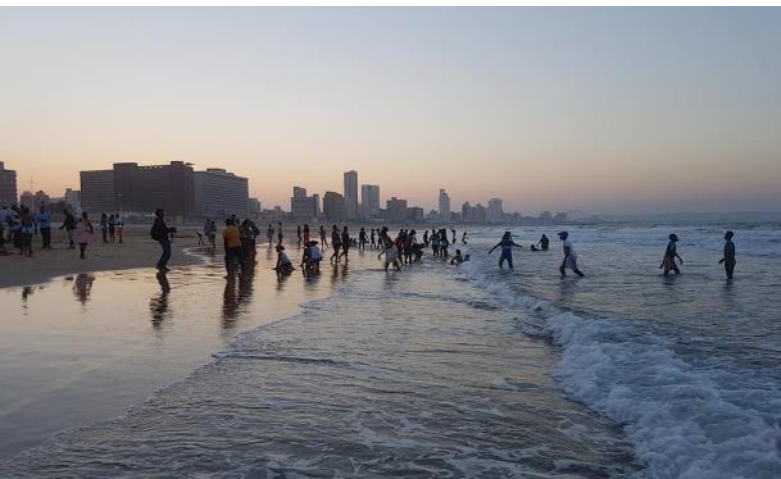
2021 United Nations Decade  
2030 of Ocean Science  
for Sustainable Development

# Next Steps

- Ongoing work to identify priorities and support co-development of an OLR agenda.
- Invitation to help organize the March/April workshop
- March/April workshop to accommodate time zones
- OLRC sessions planned for June and September 2022.







**Thank you!**

**For more information:**

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[mckinleye1@Cardiff.ac.uk](mailto:mckinleye1@Cardiff.ac.uk)

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Story Map design: Jen McRuer, COLC  
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# Discussion





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# Thank you!