OPEN SEA LAB 3.0 HACKATHON Virtual

EMODnet
European Marine Observation and Data Network

One Ocean. One EMODnet:

Surf a brand new Marine Data & Innovation wave!

HACKATHON

27-28 March 2023

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VLIZ

Copernicus Europe's eyes on Earth

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WHAT IS THE OPEN SEA LAB 3.0 HACKATHON?

This **3rd edition of the Open Sea Lab 3.0 Hackathon (OSL 3.0)** (with past editions in 2017 and 2019), aims to:

- Provide a live environment in which to **explore the new features of EMODnet's newly centralised services**
- Offer a platform that provides the opportunity to **develop innovative, data-based solutions**
- Demonstrate the value of EMODnet's centralised services to current users and attract new user communities

Hackathon participants will benefit:

- By **showcasing their talent and ideas** to leading organisations active in the marine domain
- Be **getting inspiration** from professionals working in marine data management and ocean research
- By **making new contacts** and expanding their professional network
- By **learning to master the use of EMODnet's data resources** and generally how to use data in their projects

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WHEN AND WHERE IS THE EVENT TAKING PLACE?

As a virtual event, the **Open Sea Lab 3.0 Hackathon** will enable participation from across Europe and beyond.

A three-week, virtual **Ideation & Team Formation** warm-up is being offered to help participants get the most out of the event, but participation is optional.

To join the two-day virtual Hackathon, participants must be **at least 18 years, register beforehand** and **be part of a Team**.

VIRTUAL IDEATION WARM-UP

6-24 March 2023: Online training and resources, live events, matchmaking and Team formation

2-DAY VIRTUAL HACKATHON

27-28 March 2023: Hacking time with Mentors, proof-of-concept delivery, and more!

PITCHING & AWARD VIRTUAL EVENT

30 March 2023: Judges announce the Hackathon winners!

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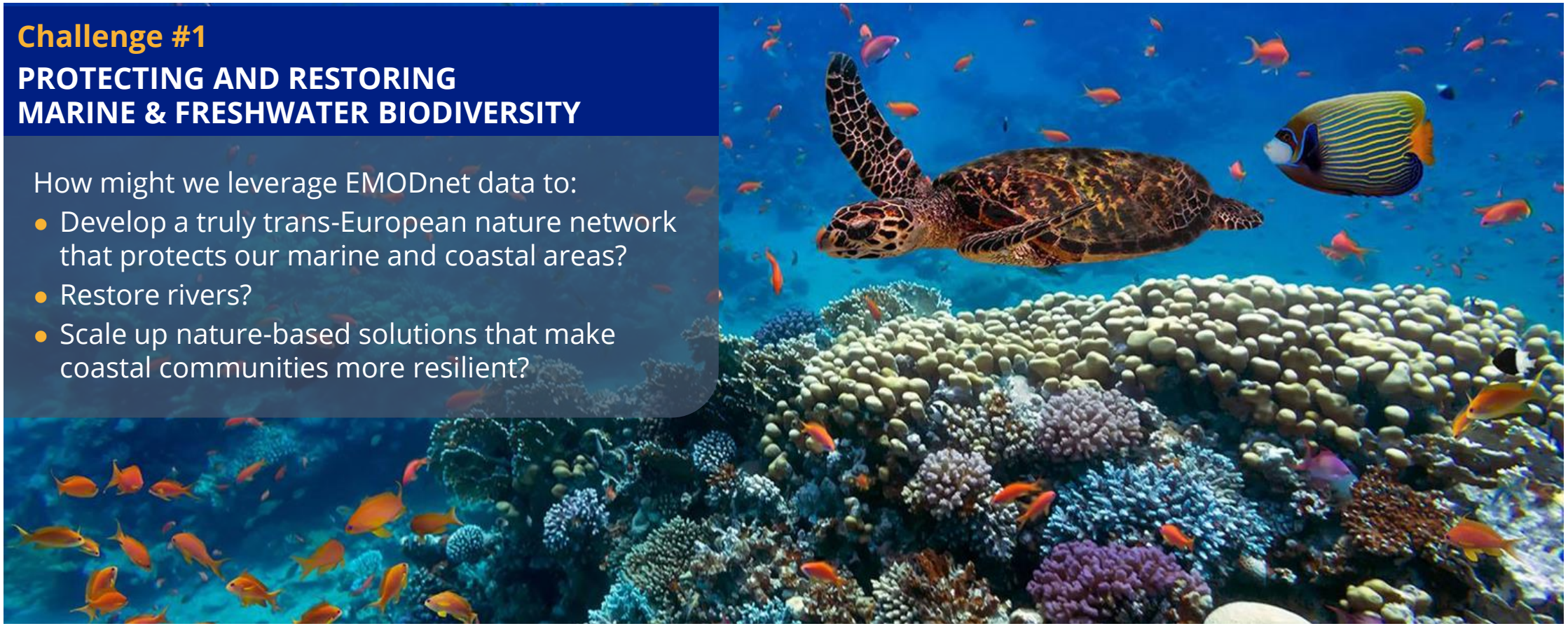
WHAT ARE THE HACKATHON CHALLENGES?

Challenge #1

PROTECTING AND RESTORING MARINE & FRESHWATER BIODIVERSITY

How might we leverage EMODnet data to:

- Develop a truly trans-European nature network that protects our marine and coastal areas?
- Restore rivers?
- Scale up nature-based solutions that make coastal communities more resilient?



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WHAT ARE THE HACKATHON CHALLENGES?

Challenge #2

ELIMINATING POLLUTION FROM OUR OCEANS, SEAS, AND WATERS

How might we leverage EMODnet data to:

- Develop innovative solutions or support improved international governance to reduce microplastics and plastic litter at sea?
- Reduce the use and risk of chemical pesticides?

WHAT ARE THE HACKATHON CHALLENGES?

Challenge #3

MAKING THE BLUE ECONOMY CARBON-NEUTRAL AND CIRCULAR

How might we leverage EMODnet data to:

- Eliminate or sequester greenhouse gas emissions from maritime economic activities?
- Develop zero-carbon and low-impact aquaculture? Promote low-carbon, multi-purpose use of marine and water space?
- Mobilise ocean and inland waters' potential for carbon-free energy?

WHAT ARE THE HACKATHON CHALLENGES?

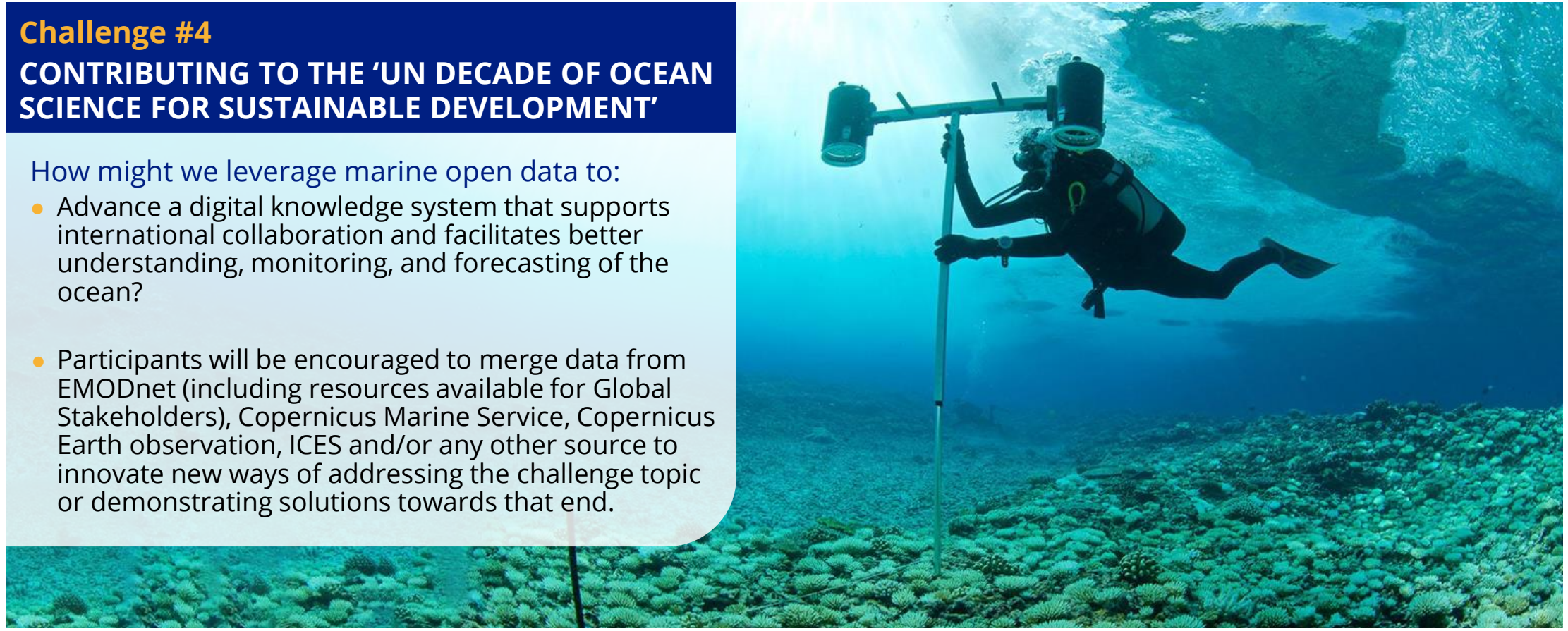
Challenge #4

CONTRIBUTING TO THE 'UN DECADE OF OCEAN SCIENCE FOR SUSTAINABLE DEVELOPMENT'

How might we leverage marine open data to:

- Advance a digital knowledge system that supports international collaboration and facilitates better understanding, monitoring, and forecasting of the ocean?

- Participants will be encouraged to merge data from EMODnet (including resources available for Global Stakeholders), Copernicus Marine Service, Copernicus Earth observation, ICES and/or any other source to innovate new ways of addressing the challenge topic or demonstrating solutions towards that end.



WHAT ARE THE HACKATHON CHALLENGES?

Challenge #5
EMPOWERING SOCIAL INNOVATION

How might we leverage EMODnet data to:

- Inspire and support social innovation practices and participatory governance approaches that empower citizens to co-design and co-implement solutions to restore our oceans and waters by 2030?

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WHAT ARE THE HACKATHON CHALLENGES?

Challenge #6
WILD CARD: HACK THE OCEAN!

How might we leverage EMODnet data to bring about the change you'd like to see in our relationship with the ocean?

Participants are free to showcase how EMODnet, Copernicus Marine Service and ICES data & resources can be leveraged to address ocean challenges that are relevant to them and their communities.

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WHO CAN JOIN?

The **Open Sea Lab 3.0 Hackathon** welcomes **participants from diverse backgrounds***, including:

- IT Professionals
- Communication Professionals;
- Marine Researchers;
- Data Scientists;
- Environmental Professionals
- Bussiness and start-ups aiming to be active in the blue economy;
- Policy Makers;
- Students;
- Citizens;
- or anyone who is passionate about the ocean!

During the hackathon, the Teams will receive support from a **great team of coaches and mentors!**

*Please note that the Hackathon is intended for Teams in which at least one (or more) team members has a strong IT background and is familiar with coding and/or programming.

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PRIZES OF UP TO €15.000 IN VALUE WILL BE AWARDED!

CELEBRATE THE WINNERS AT EUROPEAN MARITIME DAY! MAY 2023

- **Up to 3 members of each winning Team** will be invited to travel to Brest, France, in May 2023 and take part in an exciting programme of activities at **European Maritime Day 2023.**.
- **OSL 3.0 Winners** will enjoy the opportunity to pitch and exhibit their solutions, while networking and interacting with an international audience of policy-, business-, and civil society representatives.
- **European Maritime Day** is the **leading annual meeting point** for Europe's maritime community to network, discuss, and forge joint action on maritime affairs.

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OSL HACKATHON PARTNERS.

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REGISTER TODAY!

Surf now to the
Open Sea Lab 3.0 Hackathon website
https://opensealab.eu
and click on '**REGISTER TODAY!**'

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