

The logo for the Blue-Cloud Hackathon, featuring a stylized white wave icon inside a blue circle, followed by the text "Blue-Cloud" in a large, bold, white sans-serif font and "HACKATHON" in a smaller, bold, white sans-serif font below it. The entire logo is set against a blue oval background.

**Blue-Cloud  
HACKATHON**



**Blue-Cloud**

Providing innovative services for Marine Research & the Blue Economy

# DECODE THE OCEAN!

**7, 8 and 9 February 2022**

**Ideation Warm Up: 17 January - 4 February 2022**

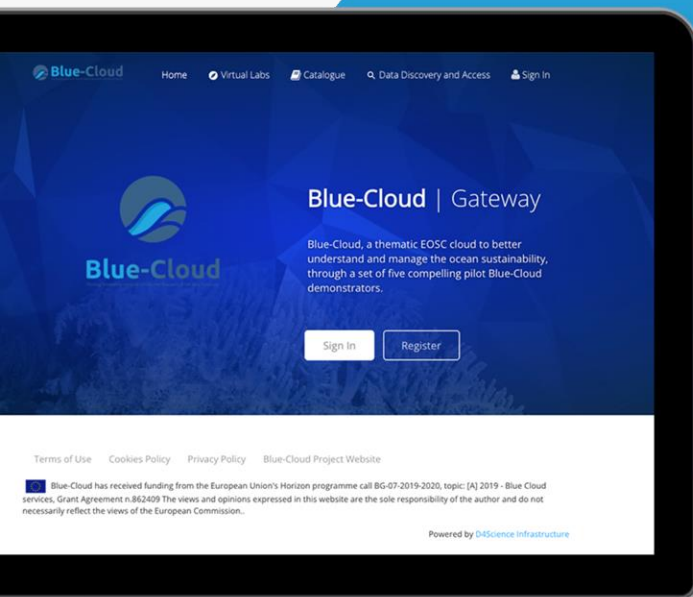
**GEAR UP AT YOUR OWN PACE OVER A 3-WEEK IDEATION JOURNEY,  
JOIN A 3-DAY VIRTUAL HACKATHON AND WIN €60,000 IN PRIZES!**



Blue-Cloud has received funding from the European Union's Horizon programme call BG-07-2019-2020, topic: [A] 2019 - Blue Cloud services, Grant Agreement No.862409.

The **Blue-Cloud Hackathon** is an open invitation to join and test the innovative **Open Science environment** developed by the **Blue-Cloud project** (<https://www.blue-cloud.org>), offering a wealth of data, analytical tools and computing power to support you in developing solutions for a safe, healthy, productive and predictive **Ocean**.

Participants will be challenged to develop applications that contribute to improving **knowledge of marine ecosystems**; support the **transition to a greener, blue economy**; advance **Ocean literacy**; and/or **enhance international collaboration** towards achieving the **Sustainable Development Goals** (SDGs) of the **United Nations Agenda 2030**.



# What challenges will be addressed?

You will be asked to deliver a “**proof of concept**” for an **innovative solution** that could be developed to address an **Ocean challenge**. Check out the Topics & Challenges envisioned!



## Understanding the Ocean

How might we use collaborative science to advance knowledge of **plankton** and the key role it plays in supporting life in the Ocean?

**See Challenge 1A:** Mapping hotspots of plankton diversity

**See Challenge 1B:** Tapping on environmental and molecular data

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## Feeding the World

How might we balance our need to source **healthy food** from the Ocean to feed the World today with the need to secure a healthy Ocean for future generations?

**See Challenge 2A:** Assessing the environmental risks of aquaculture cages

**See Challenge 2B:** Maximizing food return, minimizing risks

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## Predicting environmental risks

How might we use **environmental indicators** to understand complex phenomena affecting marine ecosystems and detect changes in their status with sufficient time to respond?

**See Challenge 3A:** Making predictions about environmental conditions of a marine area

**See Challenge 3B:** Anticipating the effects of climate change on marine ecosystems

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## Wildcard: Hack the Blue-Cloud!

How might we use Blue-Cloud to advance **knowledge** of the Ocean? Or to support the transition to a more sustainable **Blue Economy**? Or to promote **Ocean literacy**? Or to promote international cooperation to deliver the **UN Sustainable Development Goals**?

## Who can join?

The hackathon is expected to welcome **60–100 participants** from **diverse backgrounds**, including:

- **Professionals** working as **data scientists** and/or **marine researchers** at academic institutions, research centres, **blue economy SMEs & industry**, **public agencies**, **governmental** organizations or **NGOs**.
- **ICT experts** and **hacktivists**
- **Innovators** and **communicators**, both from the public and private sector
- **Students** of computer science and/or marine sciences
- **Anyone who is passionate about the Ocean!**

Participants from **European Union** Member States & associated countries

Participants from other countries are welcome, but limitations on prizes apply

**Terms & Conditions:** <https://hackathon.blue-cloud.org>

## Why should you join?

By joining the **Blue-Cloud Hackathon** you will **benefit** from:

- Pioneering the **use** of an **innovative Open Science platform** specially developed to service the **marine domain** and **shaping** its **future evolution** to fit their user needs
- Being **inspired** by professionals working for Ocean conservation & innovation
- Exposing your **talent** to leading organizations working in the marine domain
- Making **new professional contacts** amongst peers working in the marine domain
- A chance to win a very attractive **Prize pool!**





## €25,000

**Towards further evolving  
and giving outreach to the  
winning solution**

2 “innovation” coaching  
sessions to guide Team in  
evolving the solution

Travel costs covered for up to 2  
Team members to participate in  
Blue-Cloud Final Conference



## €20,000

**Towards further evolving  
and giving outreach to the  
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Blue-Cloud Final Conference



## €15,000

**Towards further evolving  
and giving outreach to the  
winning solution**

2 “innovation” coaching  
sessions to guide Team in  
evolving the solution

Travel costs covered for up to 2  
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Blue-Cloud Final Conference



## Blue Skies

**Granted by “popular vote”  
of participants that join the  
“Pitch & Award Event”**

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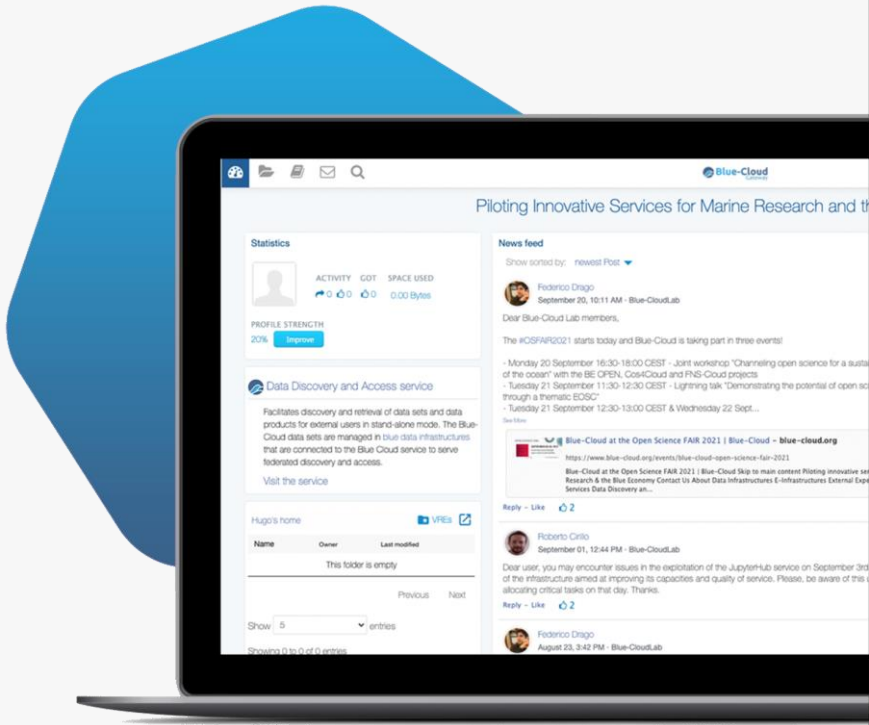
# How can you register?



Surf to the **Blue-Cloud Hackathon** site:

<https://hackathon.blue-cloud.org>

And click on:



## How is it set up? When is it taking place?



**3-week Ideation Warm-Up** (participation is optional)

17 January – 4 February 2022

Online training & resources, virtual live events, matchmaking & team formation



**3-day Virtual Hackathon**

7 – 9 February 2022

Hacking time with mentors, delivery of proof of concepts, and more!



**Pitching & Award Virtual Event**

9 February 2022

Judges will announce the Winners of the hackathon!



# Save the date! 17 January 2022

Live Event: Kick-off of 3-week Ideation Warm Up

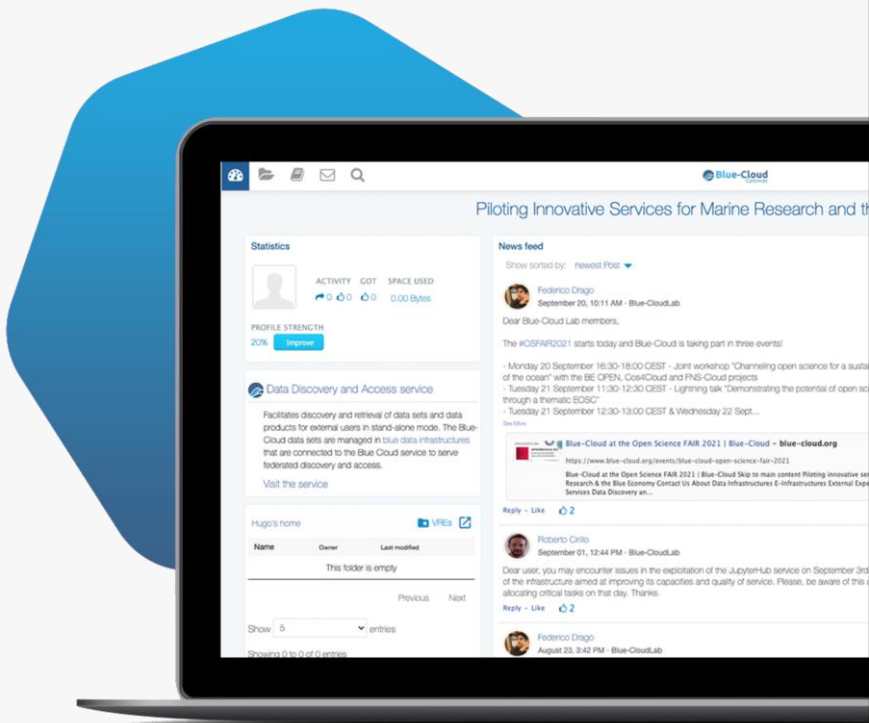


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**REGISTER TODAY!**



# Coming up next: Blue-Cloud “demonstrators”



Zoo & Phytoplankton  
EOY products



Plankton  
Genomics



Marine Environmental  
Indicators



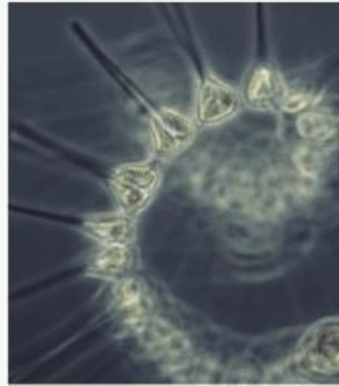
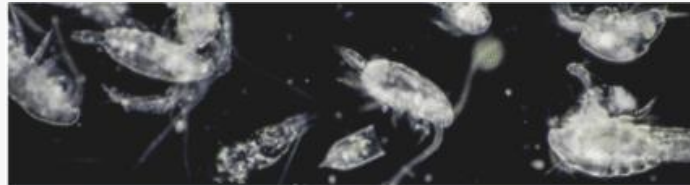
Fish a matter  
of scales



Aquaculture  
Monitor

<https://www.blue-cloud.org/demonstrators>

Five **Blue Cloud Demonstrators** are being developed to **test, use** and further **evolve** Blue Cloud **core services** and to develop new **domain specific services**. They've been originally selected for their importance **for marine ecosystems research, conservation, forecasting & innovation in the Blue Economy, not only in Europe but also across the globe.**





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