AtlantECO
Atlantic Ecosystems Assessment, Forecasting & Sustainability

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 862923. This output reflects only the author's view and the European Union cannot be held responsible for any use that may be made of the information contained therein.

36 PARTNERS FROM 13 COUNTRIES

France, Belgium, Switzerland,United Kingdom, Italy, Spain, Portugal, Norway, Hungary, Netherlands, Germany, South Africa & Brazil

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106.5
MILLION SQUARE KM

The 2nd largest ocean basin on Earth

30%
MORE THAN 30%

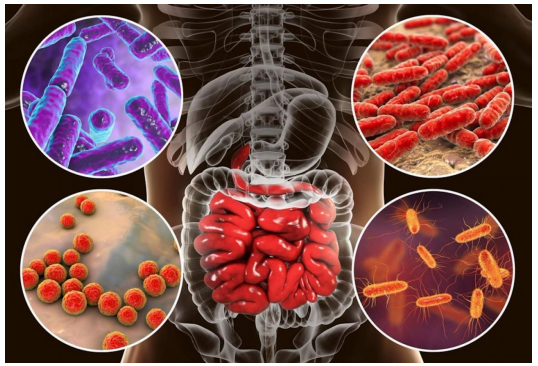
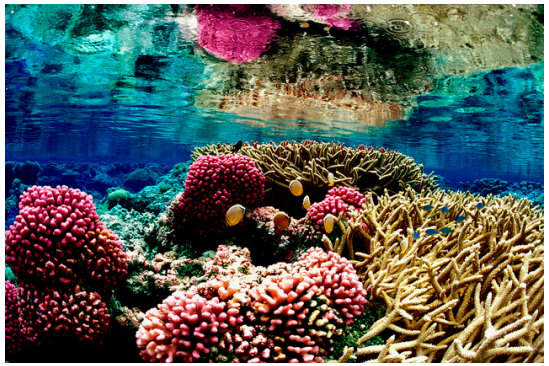
of the global ocean absorption of atmospheric CO_2

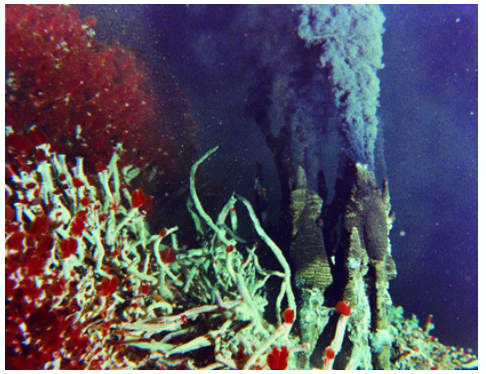
x2
OCEAN-BASED ECONOMY

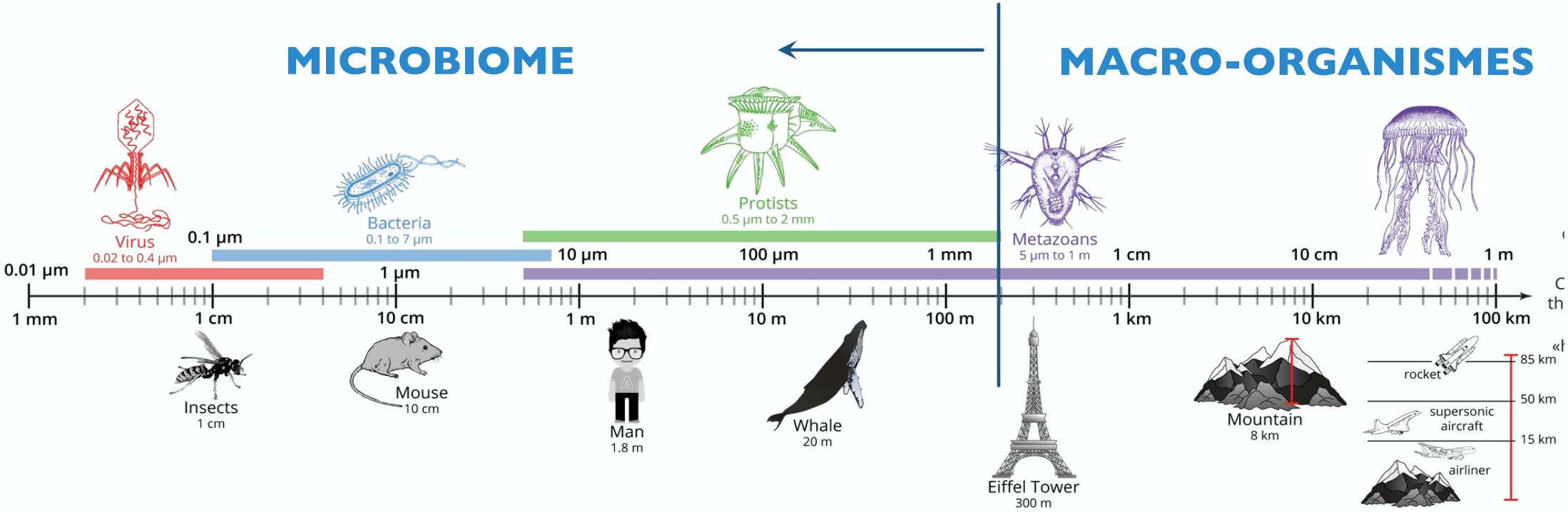
The ocean-based economy is expected to double in the next 20 years

Duration: 2020-2025+
Start date: 01.09.2020

The oceanic microbiome





Courtesy C. de Vargas

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Benefits

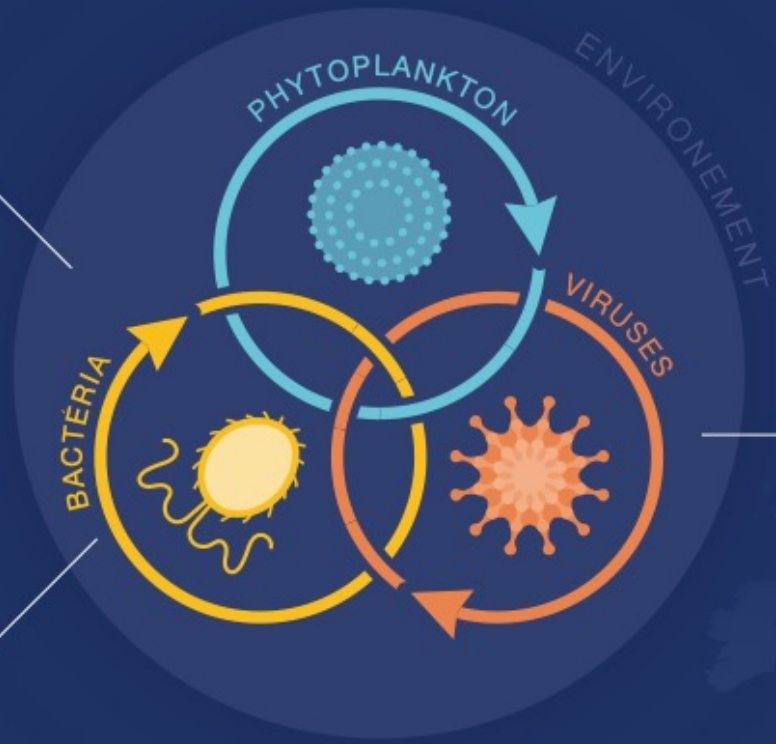
The Ocean microbiome is composed of all marine microorganisms (viruses, bacteria, micro-algae, protists, etc.) and the environment within which they evolve.

SOURCE OF LIFE

Through photosynthesis, it transforms light energy and nutrients into organic matter, the basis of the marine food chain.

RESOURCES FOR SOCIETY

This ever-changing biodiversity potentially abounds with molecules of great interest for biotechnological innovation.



REGULATORS OF ECOLOGICAL BALANCES

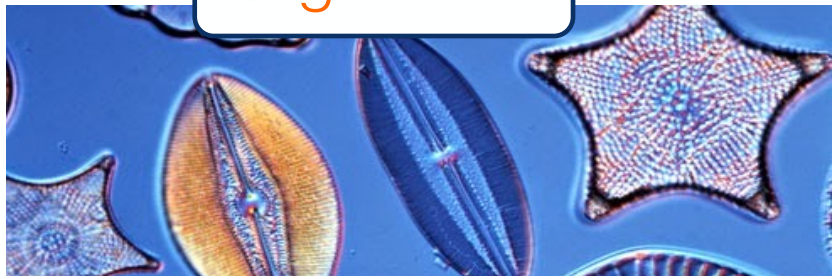
Among all photosynthetic organisms, marine phytoplankton is responsible for capturing and emitting half of the CO_2 and O_2 respectively.

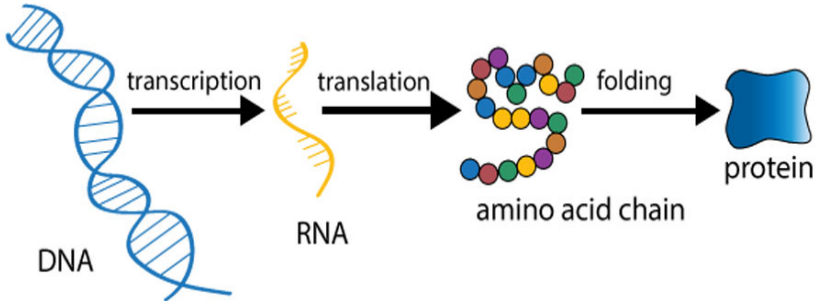
It transforms matter and makes it available to the rest of the system. Research approaches and focus

The challenge

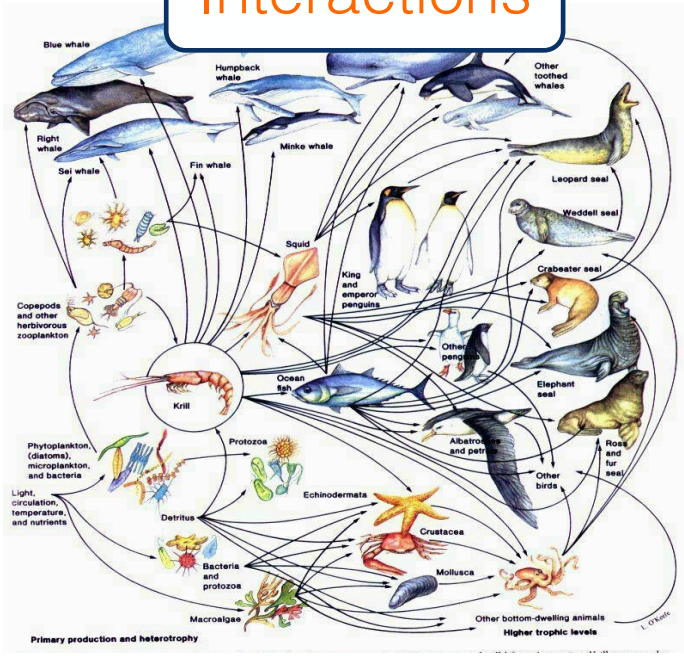
Climate

Organisms





Interactions



Microbiome vulnerability to climate change

Chaffron et al., Science Advances (2021)

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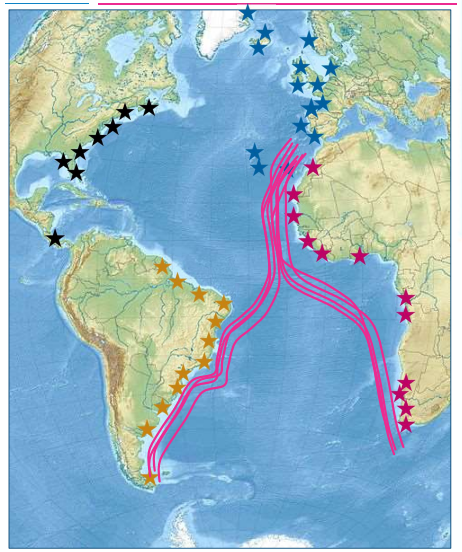
IMPACT

An innovative Literacy program

Intergovernmental Oceanographic Commission
Ocean Literacy Portal

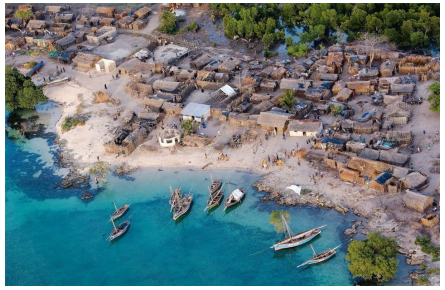
Inclusive multidisciplinary training

Cooperative sampling, Connecting infrastructures



Case studies – bridging toward applications

Capebio
Rich in Diversity



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