### Ocean & People

Working together to manage our Ocean interactions



Strengthen our understanding of the Blue Economy and the potential for future developments

Explore the many different Ocean values, and better understand the interconnections between humans and the Ocean

Reform Ocean governance to ensure equitable community participation and consideration of values and knowledge

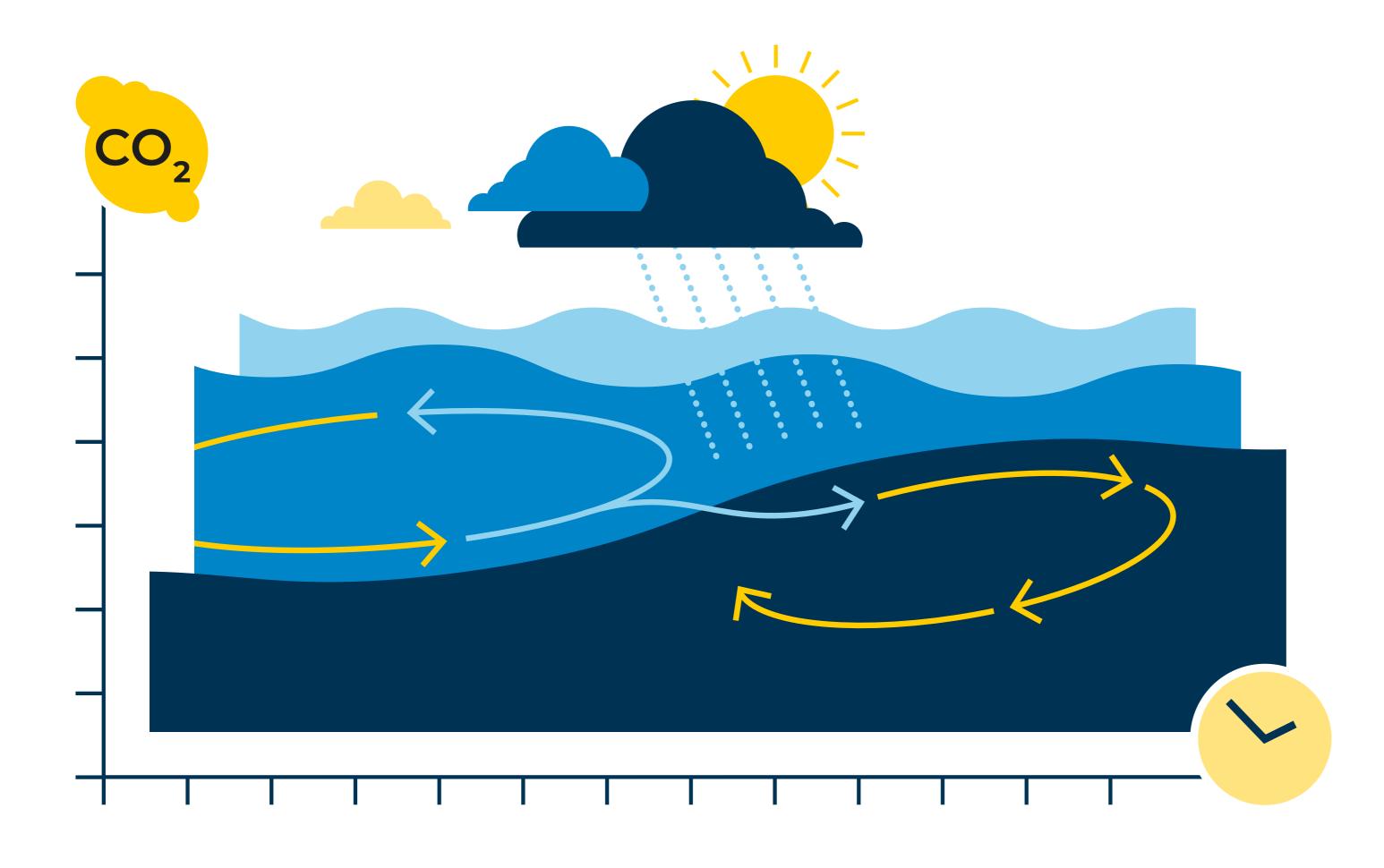
Recognise the need for structural change in Ocean policy, research and management

Use appropriate criteria to monitor engagement in citizen science projects

Increase capacity in and appreciation of all forms of collaboration

#### Ocean & Climate

An Ocean that is no longer impacted by climate change



Gain full understanding of marine ice sheet instability and impacts of melting

Build holistic coastal management plans to ensure adaptation and liveability

Address knowledge gaps highlighted by IPCC as 'low' or 'very low' confidence

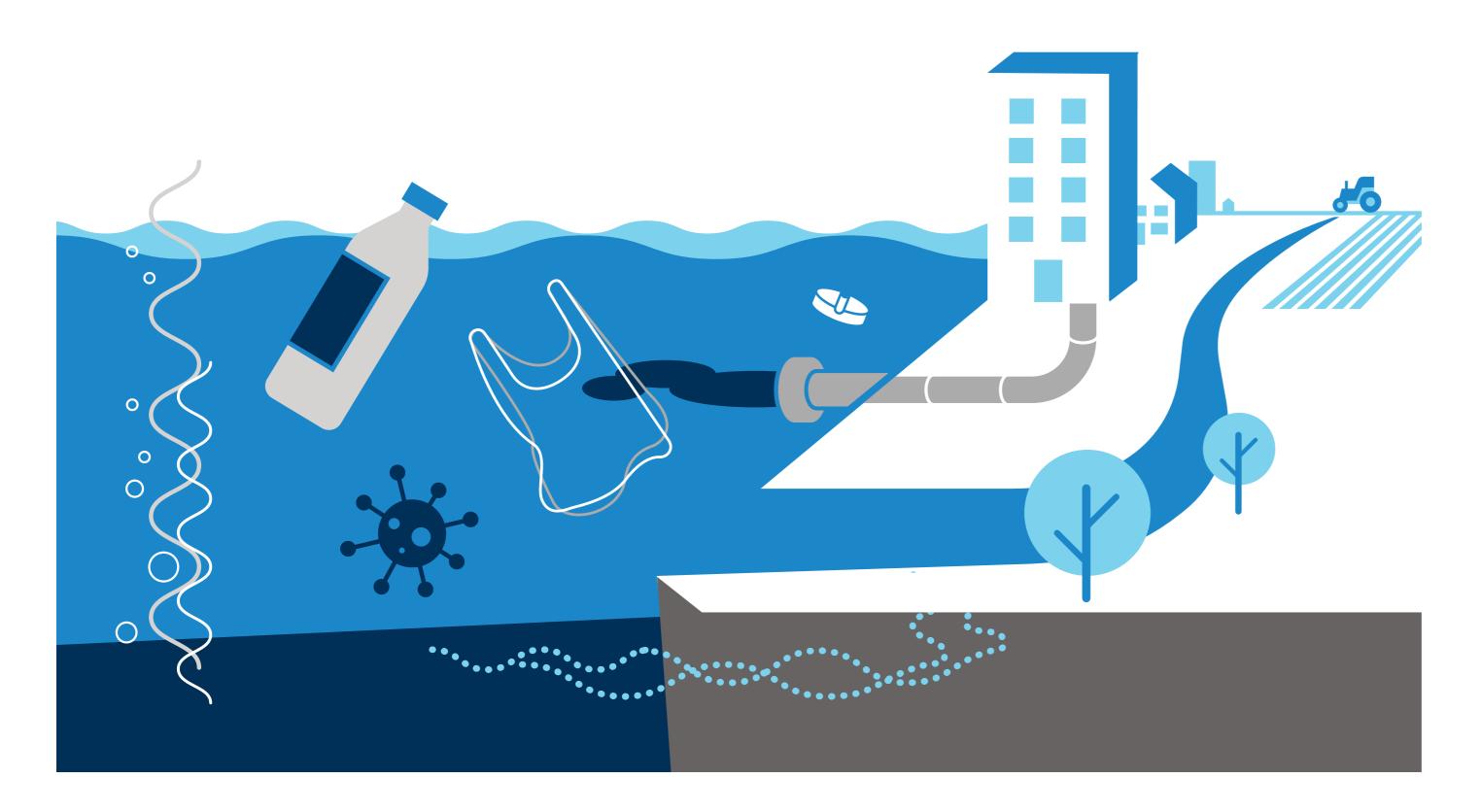
Conduct research to identify
Ocean signals for coastal
adaptation tipping points

Measure and map naturally occurring CO<sub>2</sub> and methane to address uncertainties related to potential release

Research the 'triple threat' synergistic effects of warming, deoxygenation and acidification

#### Ocean & Fresh Water

Clean and safe waters available to all communities



Include all contaminants and discharge pathways in risk assessments and EU Directives

Monitor deteriorating coastal freshwater reserves and submarine discharges

Broaden monitored parameters to understand salination impacts

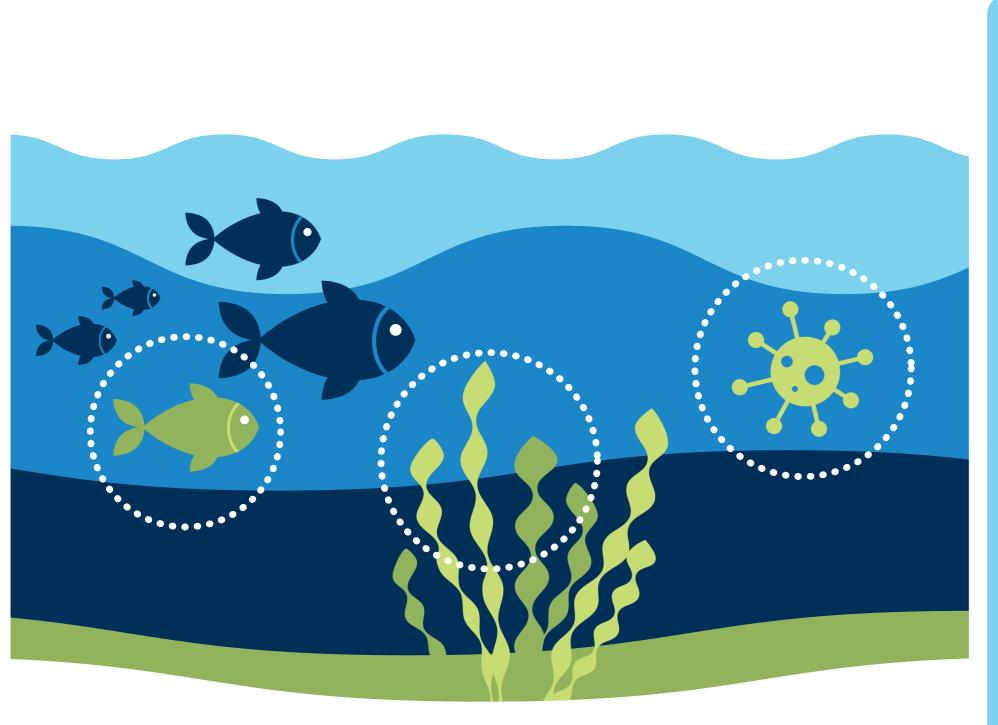
Create nature-based costeffective technologies for emerging and legacy pollutants

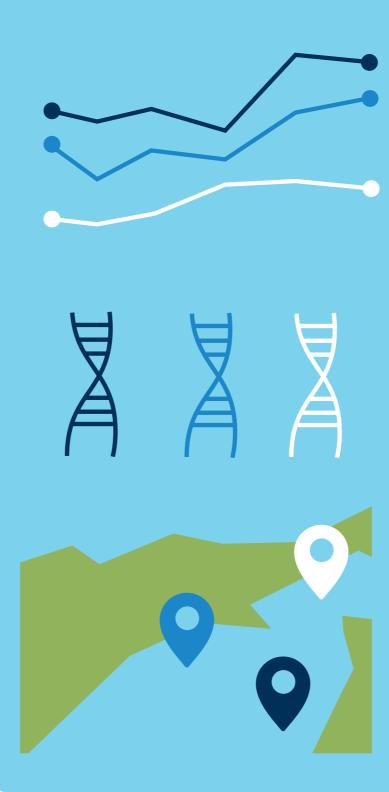
Monitor biochemical and genetic markers to prevent the spread of diseases

Harmonise monitoring and reporting methods between freshwater and marine systems

## Ocean & Biodiversity

A biodiverse Ocean that continues to provide ecosystem services





Study and effectively manage the impacts of emerging and expanding human activities on marine biodiversity

Assess the impact of human activities on ecosystems using cost-benefit analysis of their conservation or restoration

Study and monitor the spatial-temporal distribution and adaptive potential of marine organisms

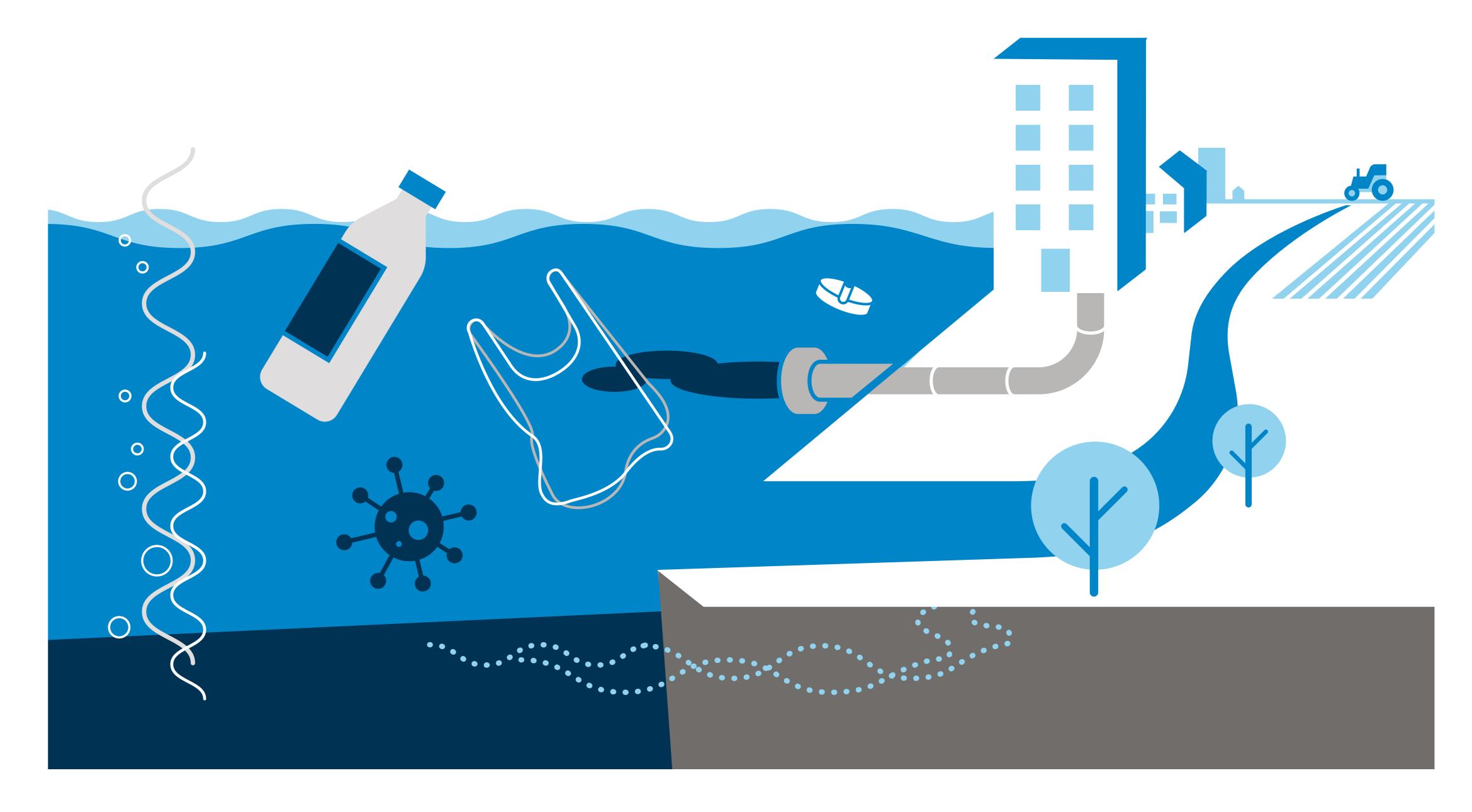
Evaluate the epidemiological, genetic, and ecological consequences of invasive species

Study the distribution of marine microorganisms to predict future epidemic risks from invasive microbes or resistance to antibiotics

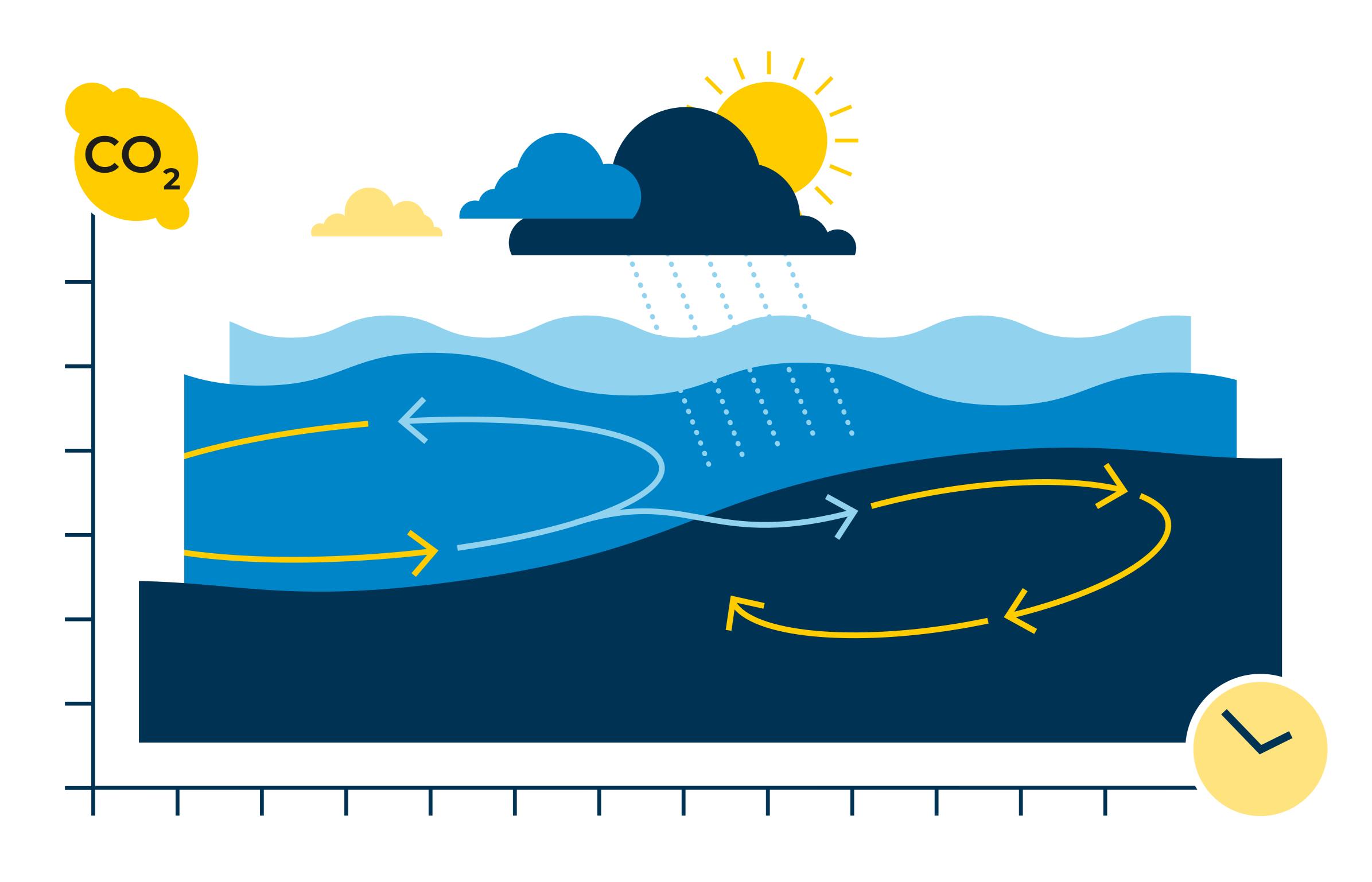
Promote all initiatives to increase biodiversity knowledge and capacity building, including the European Digital Twin, citizen science, recovering lost knowledge, and using traditional and new tools



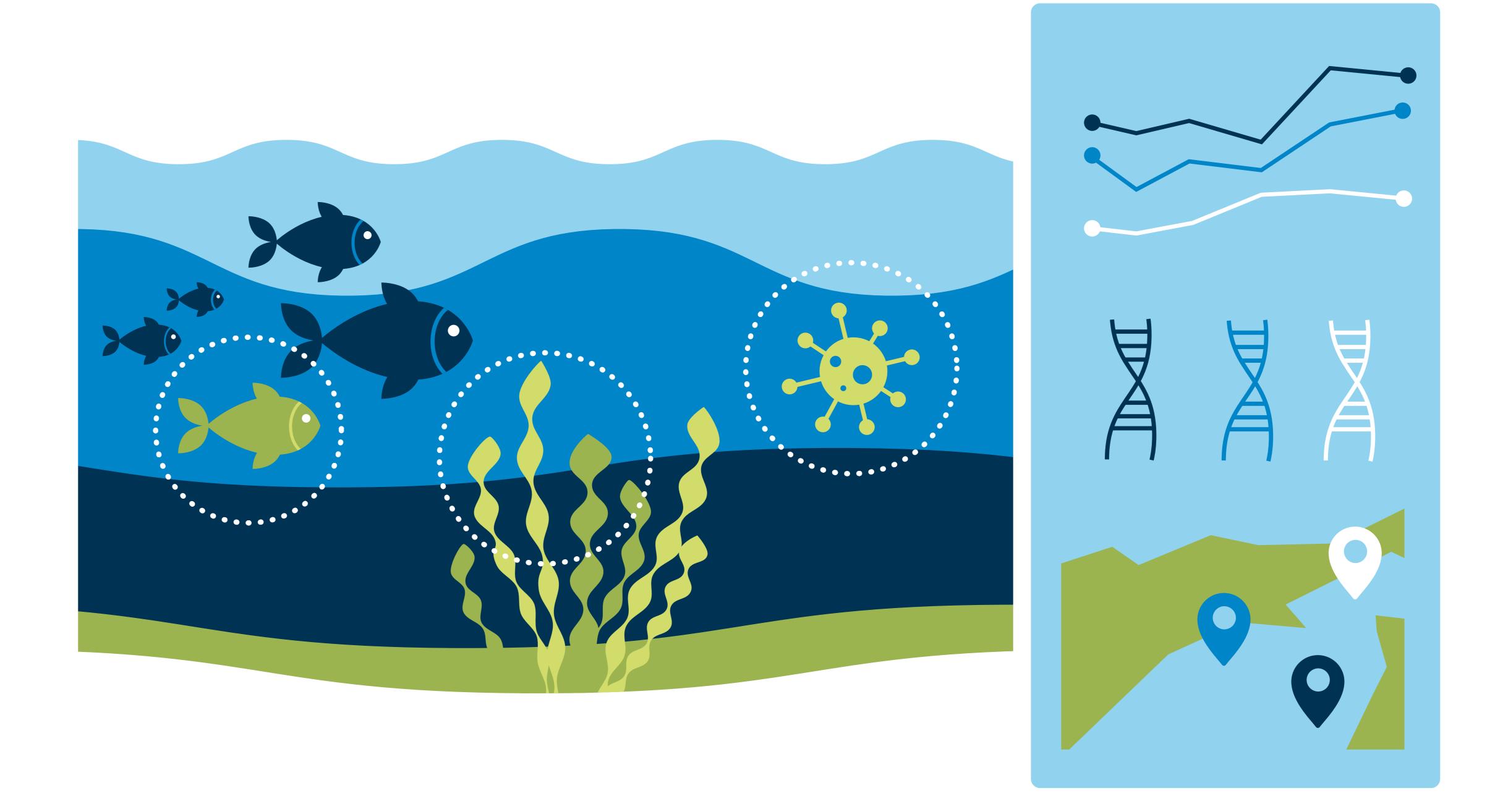
Working together to manage our Ocean interactions



Clean and safe waters available to all communities

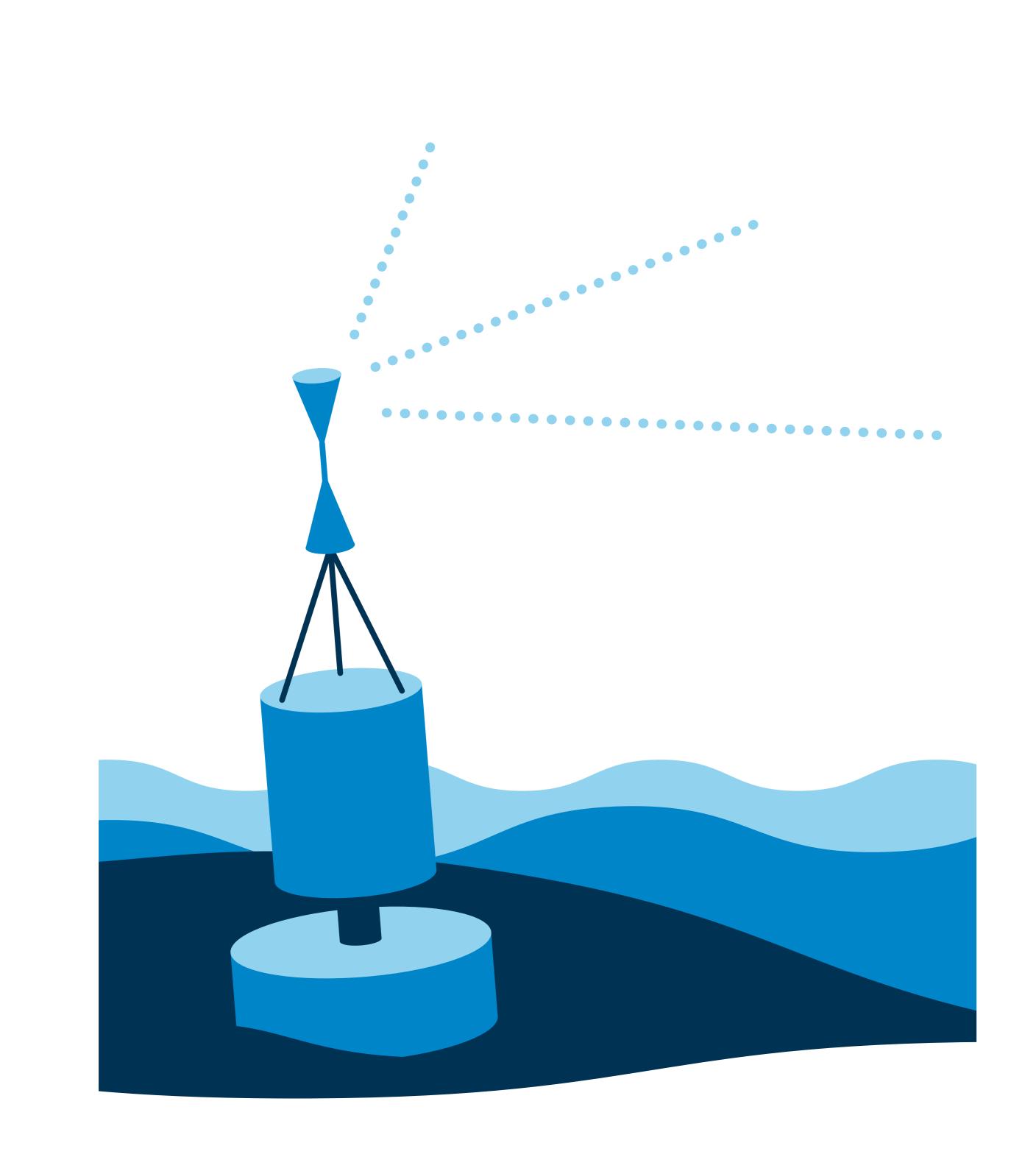


An Ocean that is no longer impacted by climate change



A biodiverse Ocean that continues to provide ecosystem services

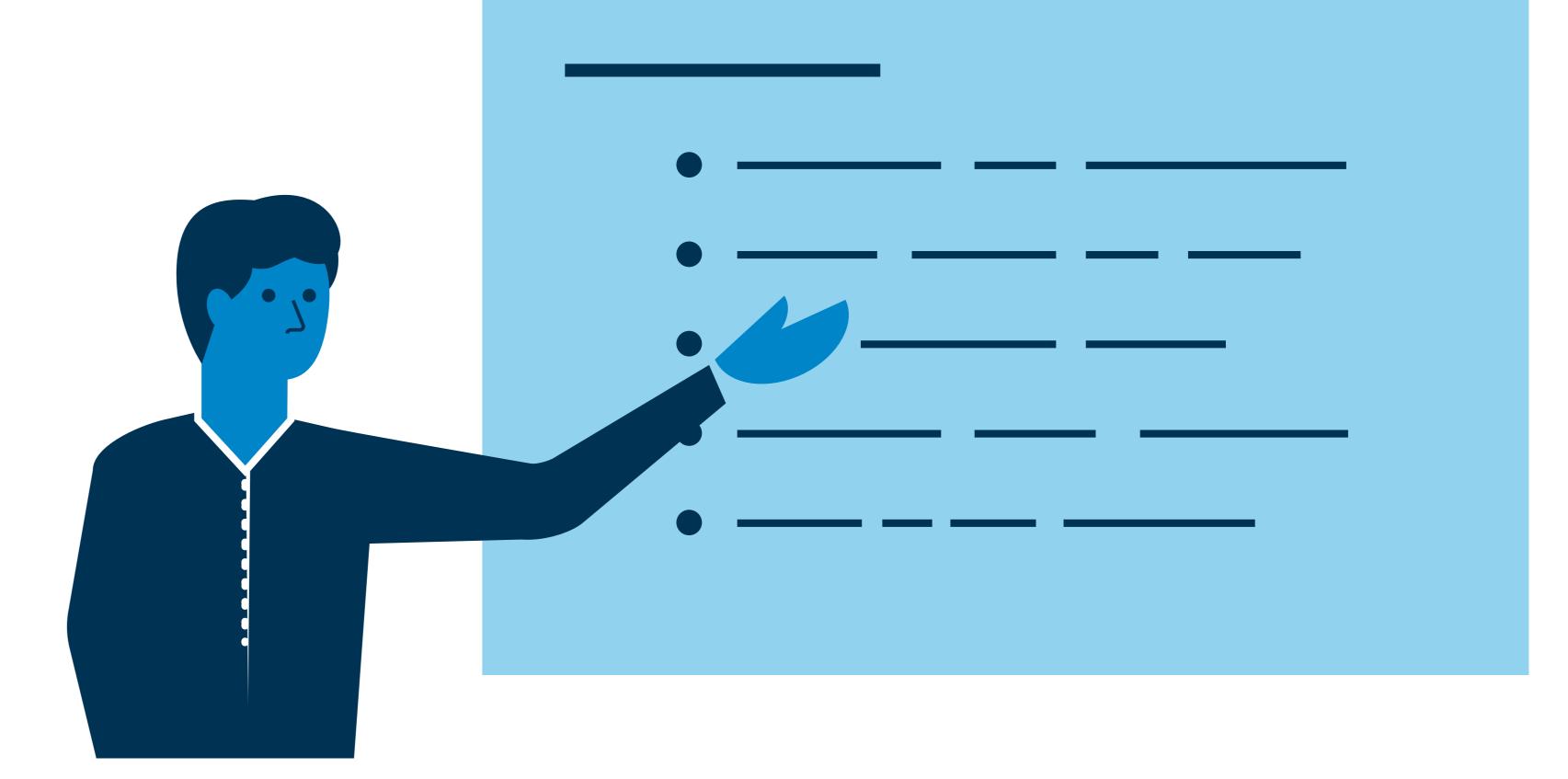
# Requirements



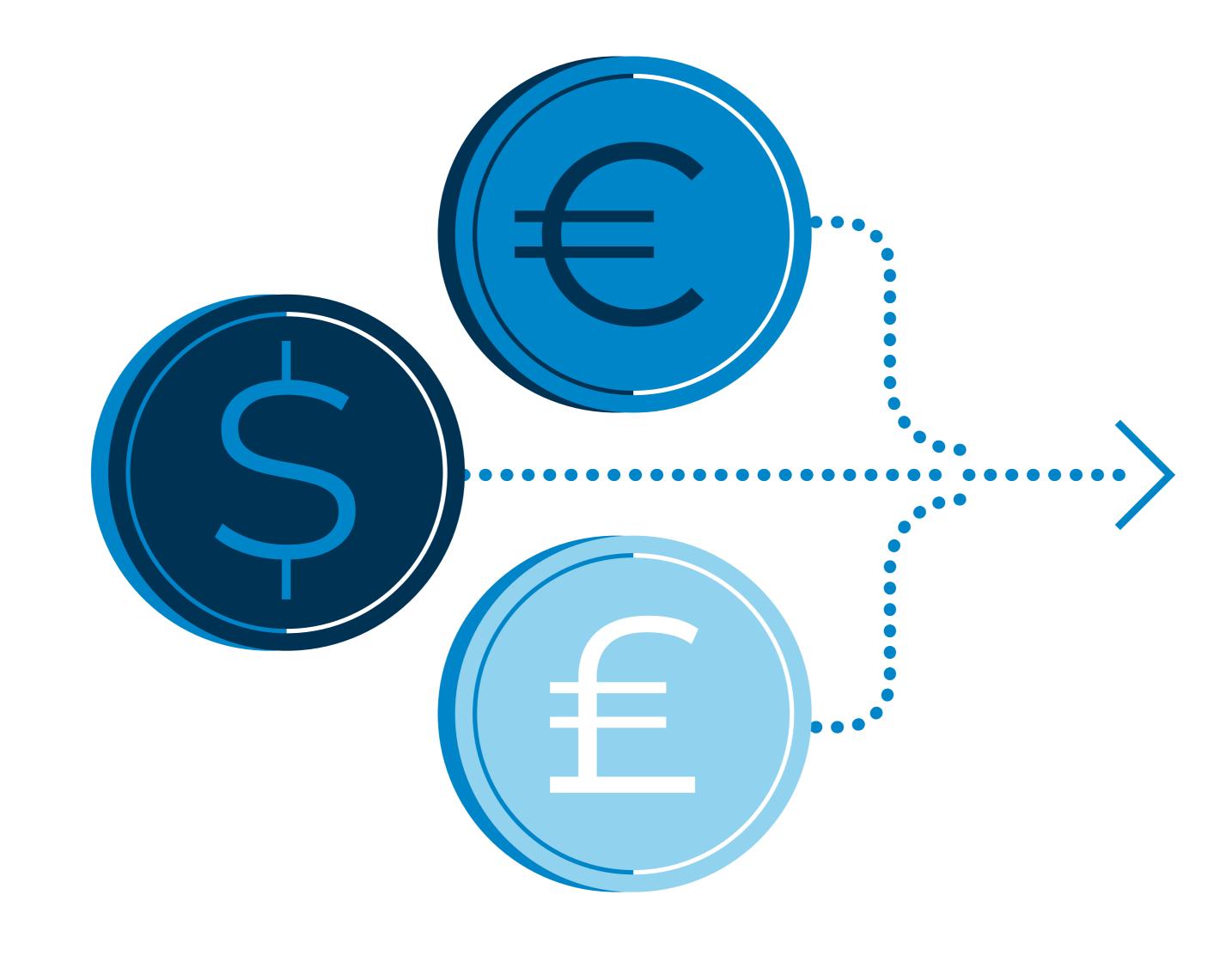
Sustained Ocean observationsBalance between needsand resources



Accessible data
 Contribution to models and
 Digital Twins of the Ocean



People trained to collaborate
 Research on impact of multiple stressors



- Sustained, long-term research funding
- Substantial, sustainable Ocean finance



Harmonised Ocean-coastal-land
 management approaches
 Sustainable and equitable marine science