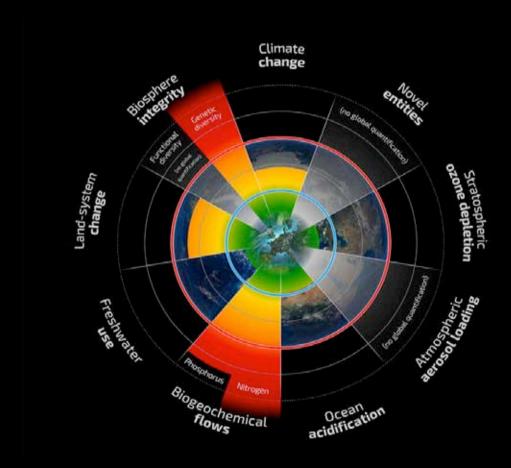




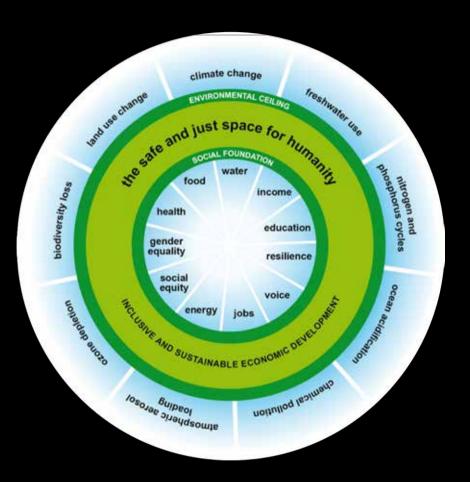
## Development needs to respect planetary boundaries





One Planet
One Ocean

### Development needs to respect planetary boundaries

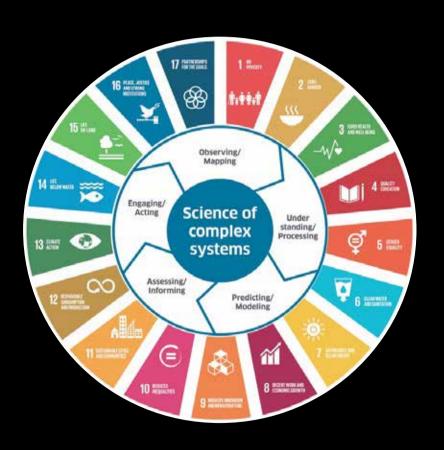




One Planet
One Ocean

What is the safe and just operating space for humanity?

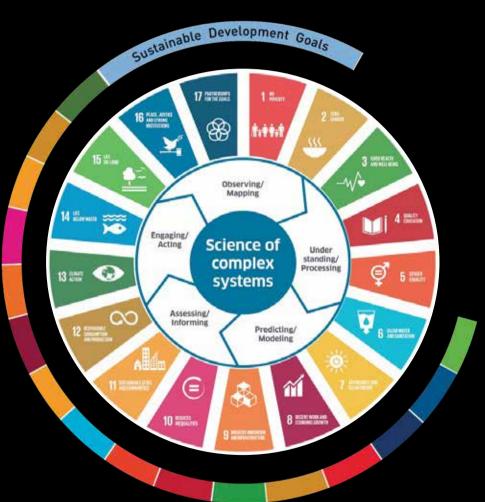
### Development needs to respect planetary boundaries





One Planet
One Ocean

What is the safe and just operating space for humanity?

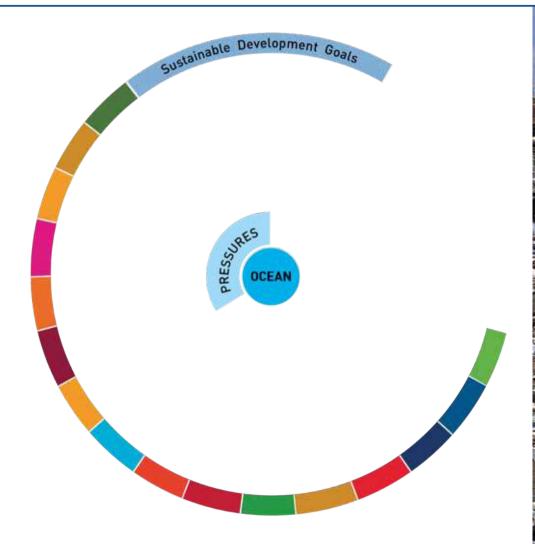




What is the safe and just operating space for humanity?

### Understanding Human **Pressures** on the Ocean System

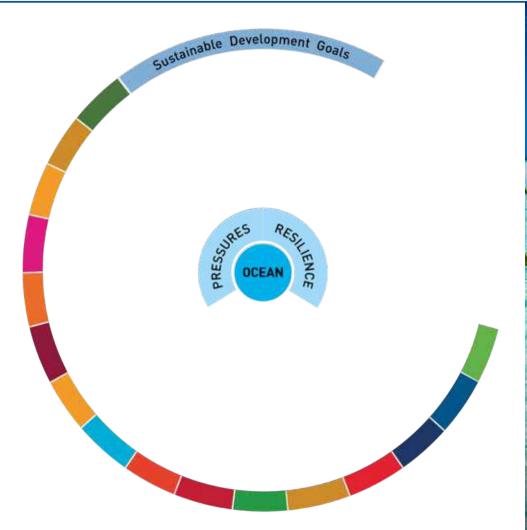






### Science Supporting a **Resilient** Ocean and Coastal Communities







### Advancing Pathways to Sustainable Ocean **Prosperity**







### Future Ocean supports – OCEAN DISCOVERY



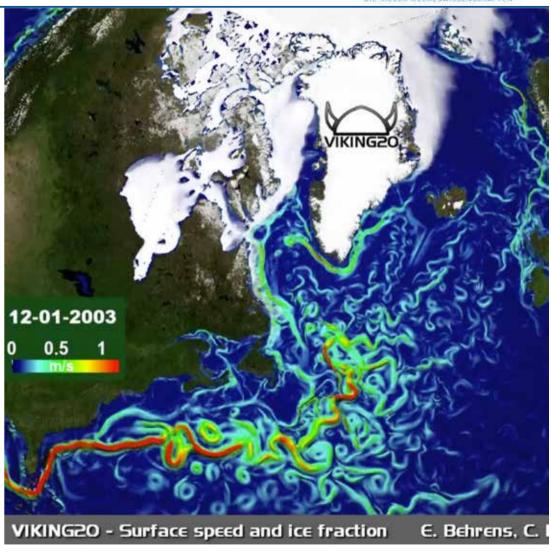




### Future Ocean supports – OCEAN UNDERSTANDING

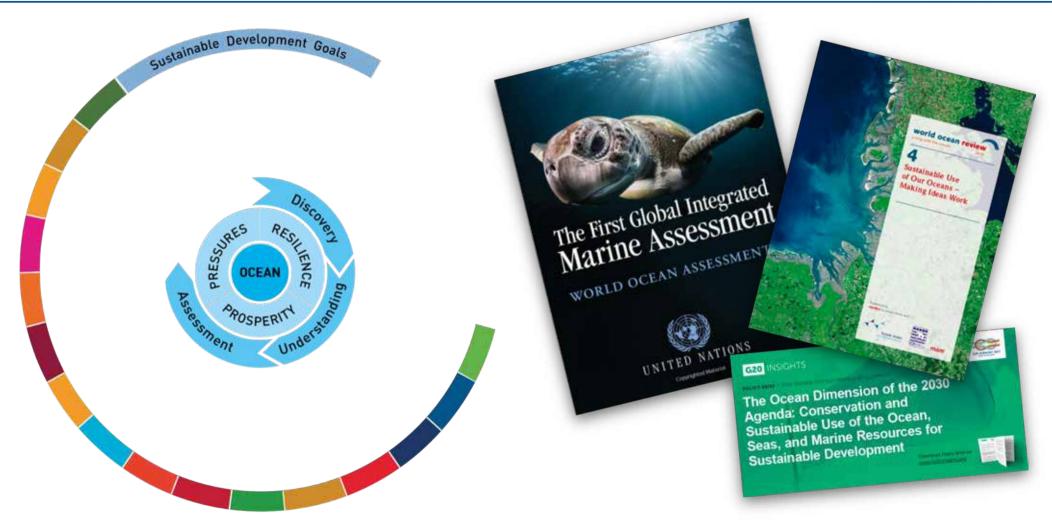






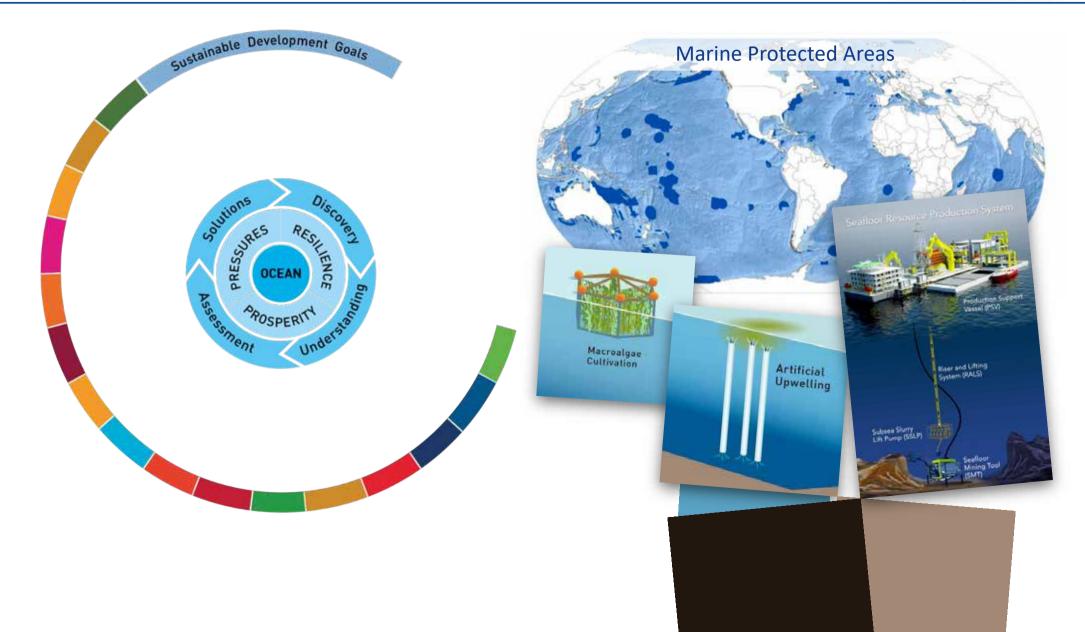
### Future Ocean supports – OCEAN ASSESSMENT





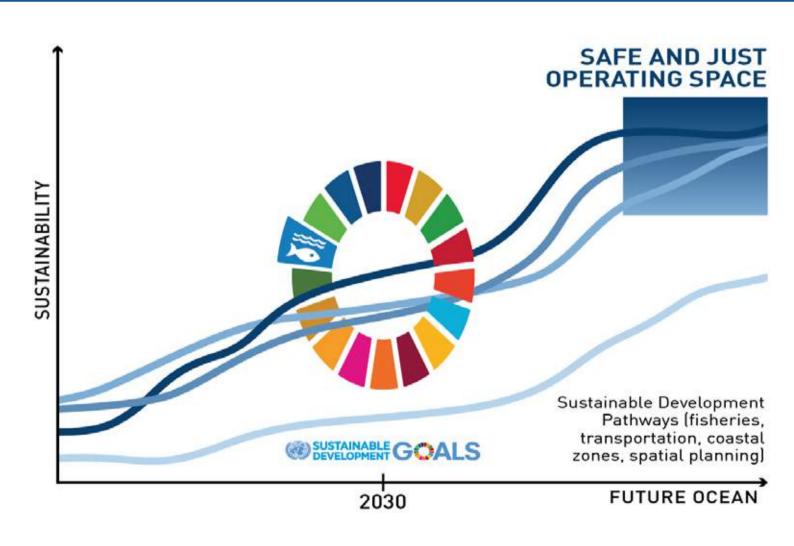
### Future Ocean supports – OCEAN SOLUTIONS





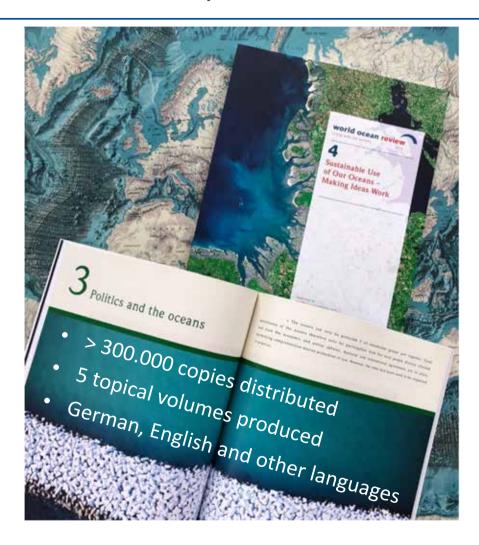
### Future Ocean supports – OCEAN PATHWAYS





### Ocean Literacy – Ocean Atlas and World Ocean Review







HEINRICH BÖLL STIFTUNG



**LE MONDE** diplomatique

> 150.000 copies distributed

**Ocean-Atlas.org** 



#### **International Ocean Science Organizations**





### International **Science Council**











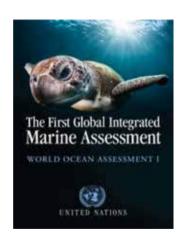














## **UN-OCEANS**

An interagency collaboration mechanism on ocean and coastal issues within the UN system



### Challenges for International Ocean Science Organizations



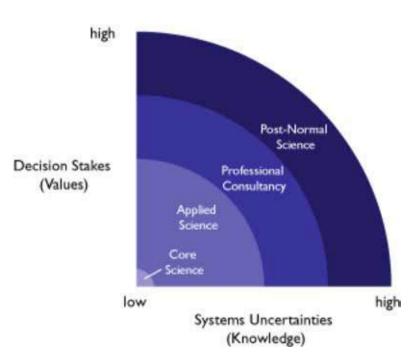
- Science Organizations serve the science community thus they have a self referenced frame.
- They articulate global scientific agendas and they define success and rewards.
- Scientific excellence is increasingly measured by impact on the science, which translates often to # of expert publications and their citation rates (H-Index).
- Scientific advice to society is 'nice', part of 'good citizenship', but something you do in your spare time ...



### Opportunities for International Ocean Science Organizations

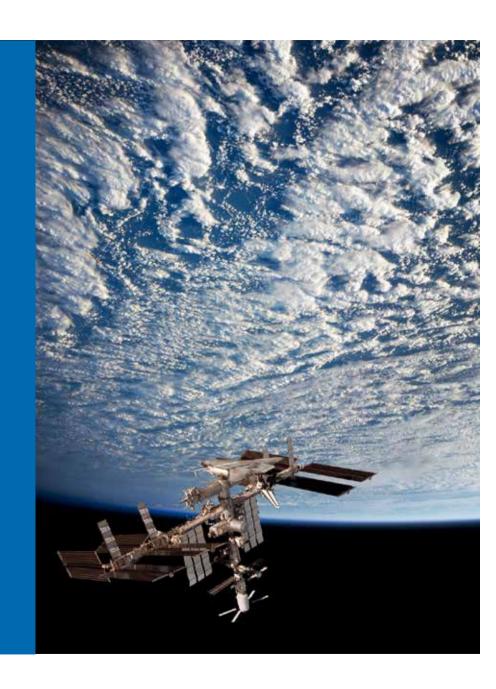


- Critically reflect our contract with society
- Provide alternative ways to measure success.
   Impact metrics or reward systems
- Science advice to society needs to become an integral part of the science we promote
- Balance the 'freedom' of science with 'responsible science'
- Promote System-Science in addition to deep expertise in a particular field.



UN Decade of Ocean Science for Sustainable Development (2021-2030)

Martin Visbeck
GEOMAR and Kiel University



## What is the **UN Decade of** Ocean Science for Sustainable Development?



Educational, Scientific and · Oceanographic Cultural Organization · Commission



United Nations . Intergovernmental



2021 United Nations Decade of Ocean Science for Sustainable Development





## On 5 December 2017, the UN General Assembly proclaimed the Decade of Ocean Science for Sustainable Development (2021-2030).



Resolution A/72/L.18 calls upon the IOC to prepare an Implementation Plan for the Decade in consultation with:

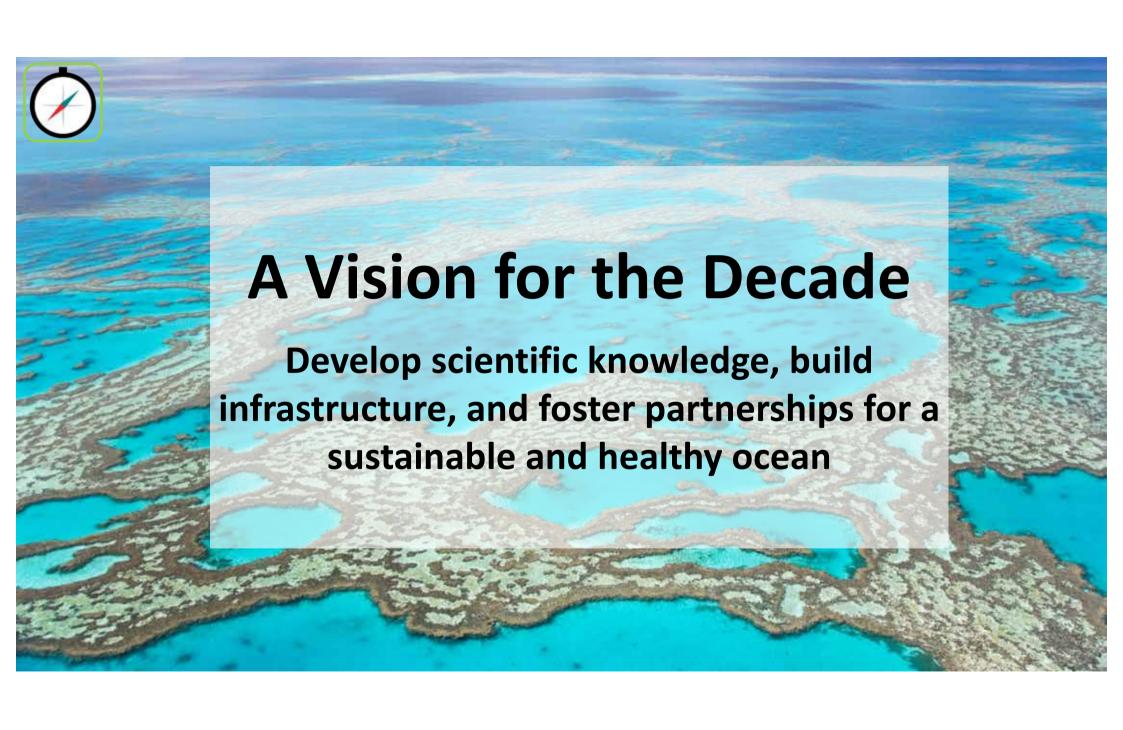
- Member States;
- UN partners;
- Institutional partners;
- Other relevant stakeholders.

And to report to the UN Secretary-General about the implementation of the Decade.

Resolution A/72/L.18 also invites UN-Oceans to collaborate with IOC.









### **Societal outcomes**



### **A Clean Ocean**

Sources of pollution are identified, quantified and reduced, and pollutants removed from the Ocean.





# A healthy and resilient Ocean

Marine ecosystems are mapped and protected, multiple impacts, including climate change, are measured and reduced, and the provision of Ocean ecosystem services is maintained.





### **A predicted Ocean**

Society has the capacity to understand current and future Ocean conditions, forecast their change and impact on human wellbeing and livelihoods.





#### The Decade will be mission-oriented



### A safe Ocean

Human communities are protected from ocean hazards and the safety of operations at sea and on the coast is guaranteed.





# A Sustainable **Productive Ocean**

The provision of food supply and alternative livelihoods are secured.





# A transparent and accessible Ocean

All nations, stakeholders and citizens have access to ocean data and information, technologies, and are capable of making informed decisions.





### A cooperation framework for ocean science

**Synthesise existing research** defining trends, knowledge gaps, priorities for future research

Funding /partnerships
Stakeholders engagement

Bridging science, policy and society
Science-policy dialogues, dissemination,
access to data, information, communication

Mobilizing scientists on critical ocean priorities relevant to Agenda 2030

Integration natural & social sciences

Capacity development

Synthesising, assessing results, development of user-driven solutions

New co-designed research strategies

Fostering new joint research and cooperation within & across ocean basins



## **Preparatory Phase:** 2018-2020



Educational, Scientific and · Oceanographic Cultural Organization · Commission





United Nations
al, Scientific and ral Organization

Intergovernmental Oceanographic of Ocean Science 2030 for Sustainable Development



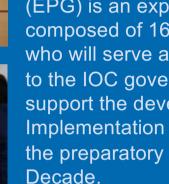




























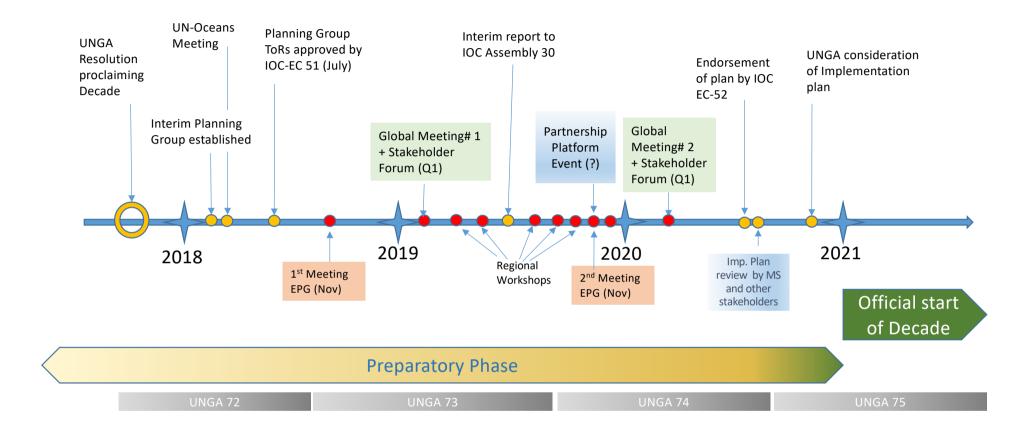


The Executive Planning Group (EPG) is an expert group composed of 16 to 20 members who will serve as an advisory body to the IOC governing bodies to support the development of the Implementation Plan as well as the preparatory activities of the

**Executive Planning Group** 



2021 United Nations Decade of Ocean Science for Sustainable Development





## **Preparing for the Decade: Next Steps**



## How can you help?



**Contribute to the Planning Process** 



**Host and organize events** 



**Provide staff and/or financial support** 



**Communicate about the Decade** 



Educational, Scientific and · Oceanographic Cultural Organization • Commission



United Nations • Intergovernmental



2021 United Nations Decade of Ocean Science 2030 for Sustainable Development

