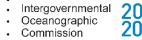
**UN Decade of Ocean Science for** Sustainable Development (2021 - 2030)





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### **Presentation Outline**



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





#### A Vision for the Decade

**Preparing the Decade: 2018-2020** 





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





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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.







#### **2030 AGENDA**

#### UN PROCESSES for SUSTAINABLE DEVELOPMENT

Biological Diversity/Aîchi Biodiversity targets (CBD) Law of the Sea (UNCLOS + BBNJ + UNFSA) SIDS Action (SAMOA Pathway) Disaster Risk Reduction SENDAI Framework Climate Change/Paris Agreement (UNFCCC)

> A global framework that will ensure Ocean Science can help governments and societies achieve the major goals of our generation





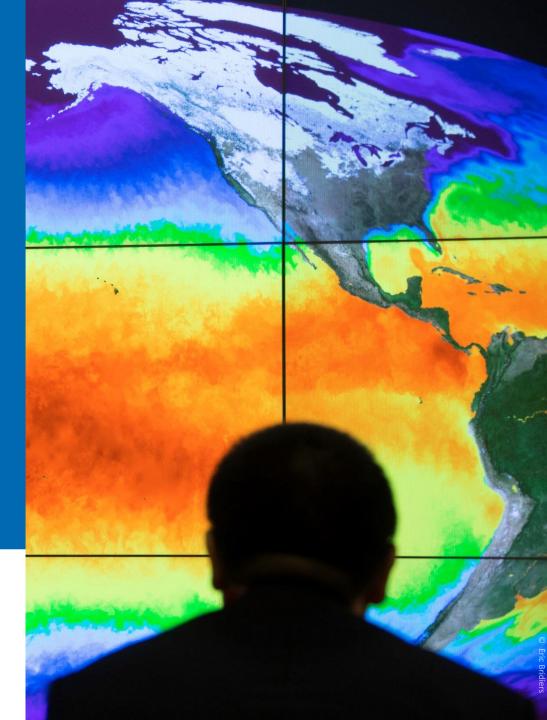
Why a **Decade of Ocean Science for** Sustainable **Development?** 





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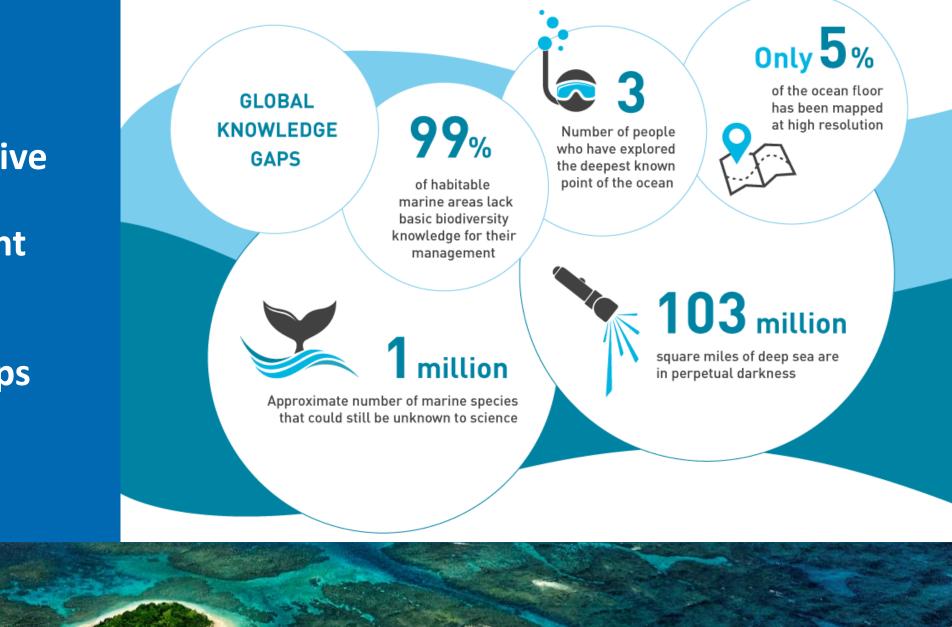
climate change **marine pollution** marine ecosystems services **nutrient cycling degradation of habitats** ocean acidification loss of species **climate regulation** growing population primary productivity **seafood** 

A global framework to support efforts to reverse the cycle of decline in Ocean health & create improved conditions for sustainable development



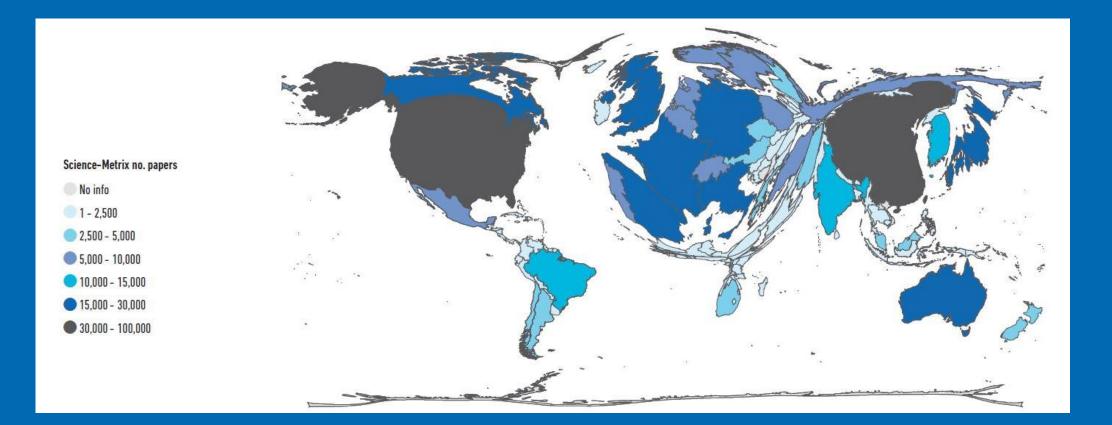


A global collective research and investment framework to close the knowledge gaps





A global framework to structure and boost scientific efforts at national and international levels to address global and regional SD challenges







#### **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.



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ISLAND VOICES



### 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 Vision for the Decade**

Develop scientific knowledge, build infrastructure, and foster partnerships for a sustainable and healthy ocean

# TRANSFORM

knowledge systems to support sustainable development

- Complete mapping of the seafloor
- eDNA Sequencing of marine life
- Science products for maritime industries
- Enhanced sharing of data and information

# MEASURE

### cumulative impacts for effective solutions

- Ocean health research programme
- New environmental services from ocean data/satellites
- Ocean productivity and biodiversity
- EBM tools and models

## **REDUCE** vulnerability to ocean and coastal hazards

- Improved coastal hazards warnings syst.
- Better mapping of vulnerable areas
- Coordinated programme of OA research, including forecasting
- Sea-level change and coastal impacts projections

# BOLSTER

### ocean observing and data systems



- An Ocean Observing System for All Major Ocean Basins
- Sustained Deep Ocean Observing System
- Open access, data portal for all
- Social science metrics

# ACCELERATE

transfer of marine technology, training and education

- Marine technology transfer/exchange hubs
- Self-driven regional capacity development programmes
- Ocean literacy initiatives
- Gender focused programmes

# DELIVER

### best available knowledge to decision-makers

- Promotion of Science/policy mechanims
- Consolidated network of Decade partners
- Regional & global dialogue enhancement
- Peace through science initiatives



#### **Research & Development Priority Areas**

















Strengthen capacities and accelerate technology transfer and ocean literacy

**Include ocean** in earthsystem observation

**Establish an** integrated multi-hazard warning system



Map the entire ocean floor and processes

**Bolster** ocean observation systems in all basins

**Conduct** an functioning

inventory of ecosystems and their

**Develop** a data and information portal

#### **Key Applications**



Coastal zone management and adaptation



Marine Spatial Planning/ Blue economy



Establishment of Marine Protected Areas



Fishery management



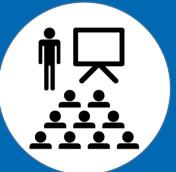
Nationally Determined Contributions to UNFCCC



Development of national ocean policies



Development of national R&D strategies



Regional and national capacity development planning



Early warning systems



### **Key principles of the Decade**

#### **Inclusive & transformative**



### A cooperation framework for ocean science

Funding

stakeholders ene

Mobilizing scientists on critical ocean priorities relevant to Agenda 2030

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

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

New co-designed research strategies

Synthesising, assessing results, development of user-driven solutions

Fostering new joint research and cooperation within & across ocean basins

Integration natural & social sciences Capacity development



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





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#### HOW TO PREPARE THE DECADE: PREPARATORY PHASE (2018-2020) GOVERNANCE





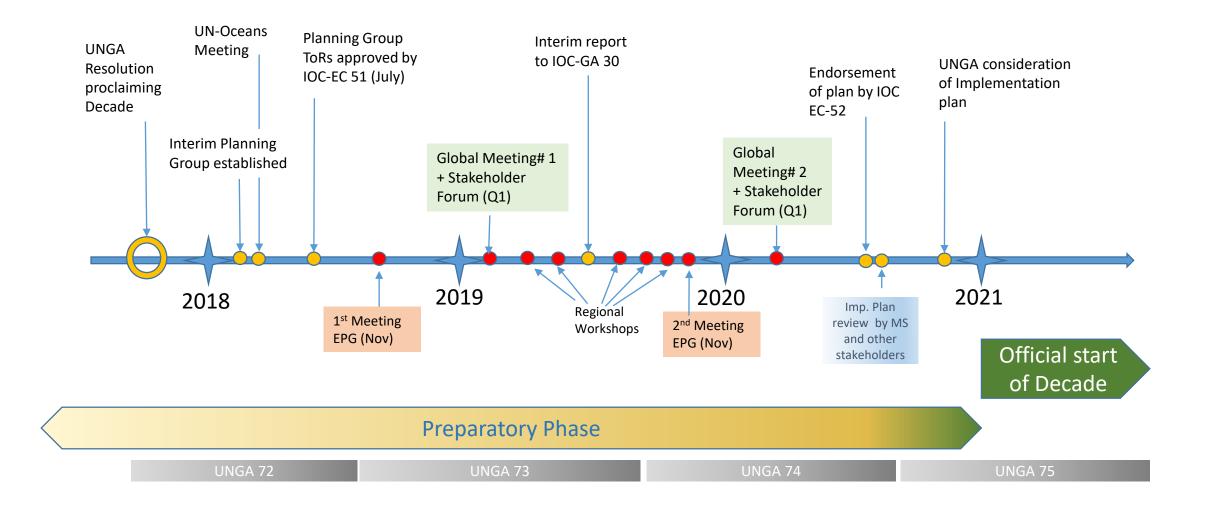
**Implementation Plan** 

Between 2018 and 2020, the UNGA tasked IOC with preparing the Decade and coordinating the development of an Implementation Plan which will include:

- Science Plan
- Capacity Development Plan
- Resource Plan

Communications &Engagement PlanMonitoring & Reporting







### **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**





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### Get in touch

Write to us: oceandecade@unesco.org

Follow all Decade news: http://oceandecade.org

#### Social media:

locUnesco

ioc\_unesco





The United Nations Decade of Ocean Science for Sustainable Development (2021-2030)



United Nations Intergovernmental Educational, Scientific and Oceanographic Cultural Organization Commission

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