

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



Intergovernmental
Oceanographic
Commission



**Sustainable
Development
Goals**





On 5 December 2017, the **UN General Assembly proclaimed the Decade (2021-2030) of Ocean Science for Sustainable Development (Resolution A/72/L.18)**

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

UN PROCESSES for SUSTAINABLE DEVELOPMENT

Biological Diversity/Aichi Biological targets (CBD)

Law of the Sea (UNCLOS + BBNJ + UNFSA)

SIDS Action (SAMOA Pathway)

Disaster Risk Reduction SENDAI Framework

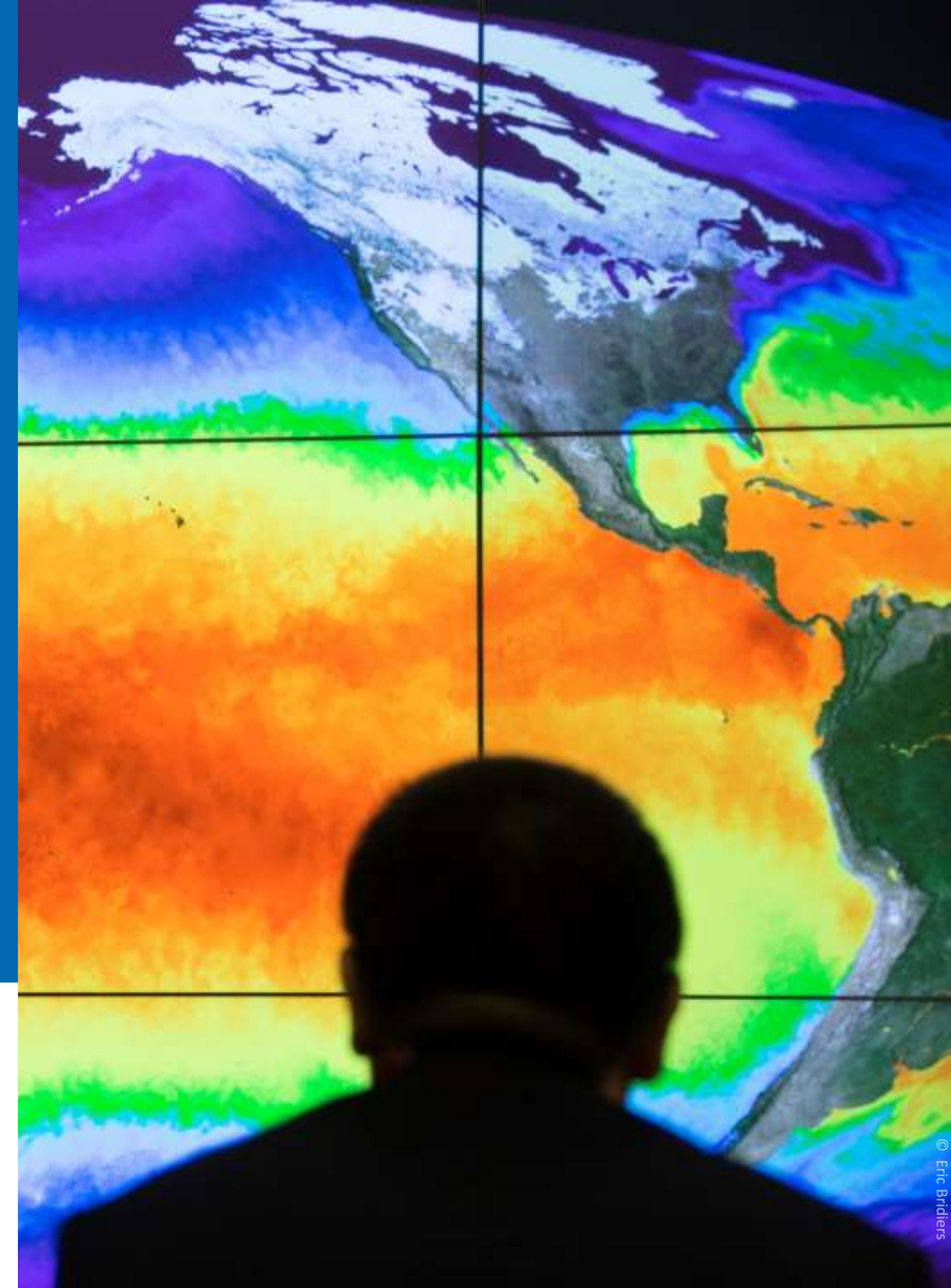
Climate Change/Paris Agreement (UNFCCC)

AGENDA 2030





Why a Decade of Ocean Science for Sustainable Development?



“ At present, we have a dearth of knowledge about the ocean. Only about 5% of the ocean bottom has been mapped in high resolution, which is incredible when you think about the fact that we've mapped *Mars* in high resolution! ”

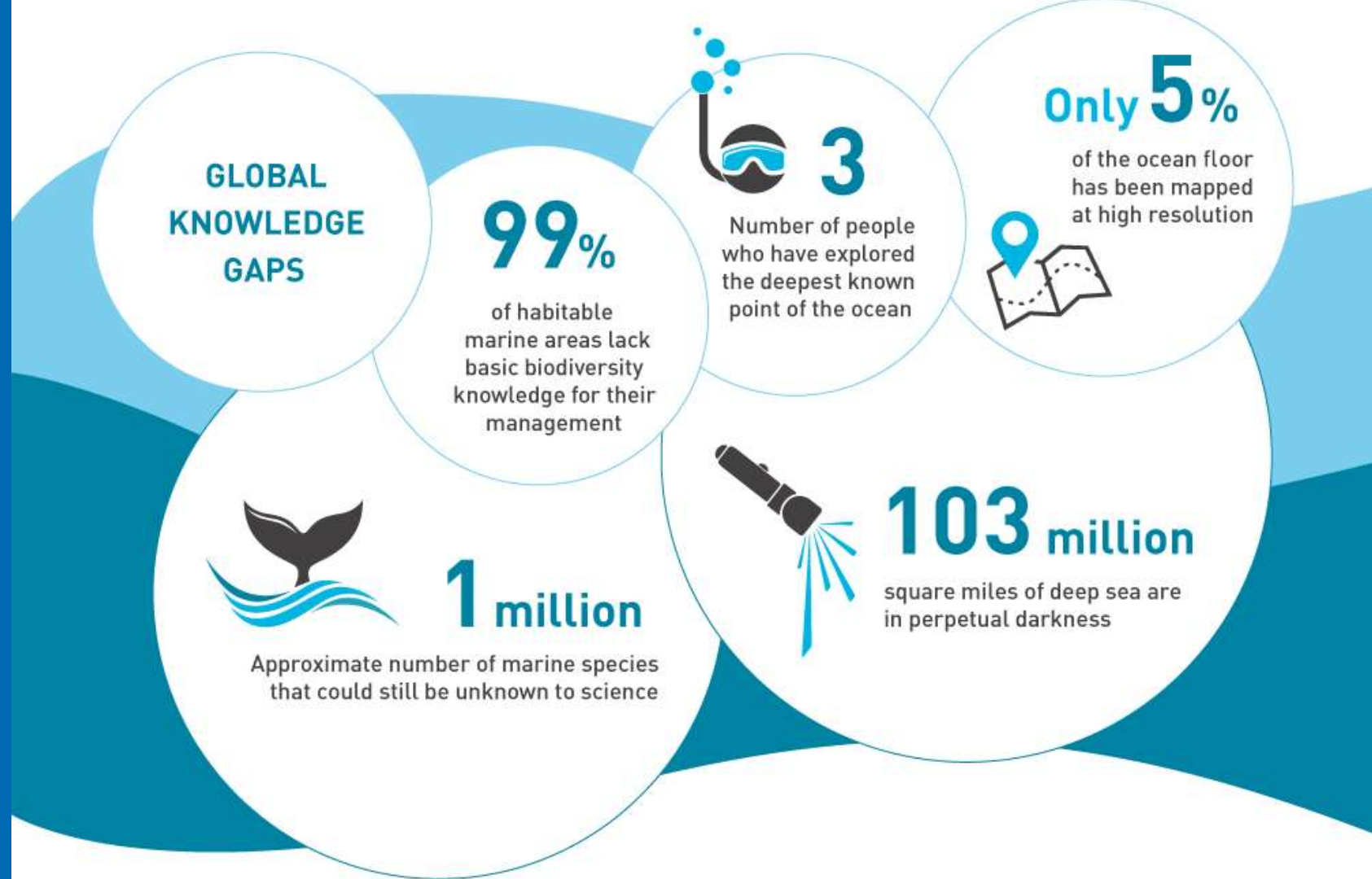
PETER THOMSON

UN Special Envoy for the Ocean



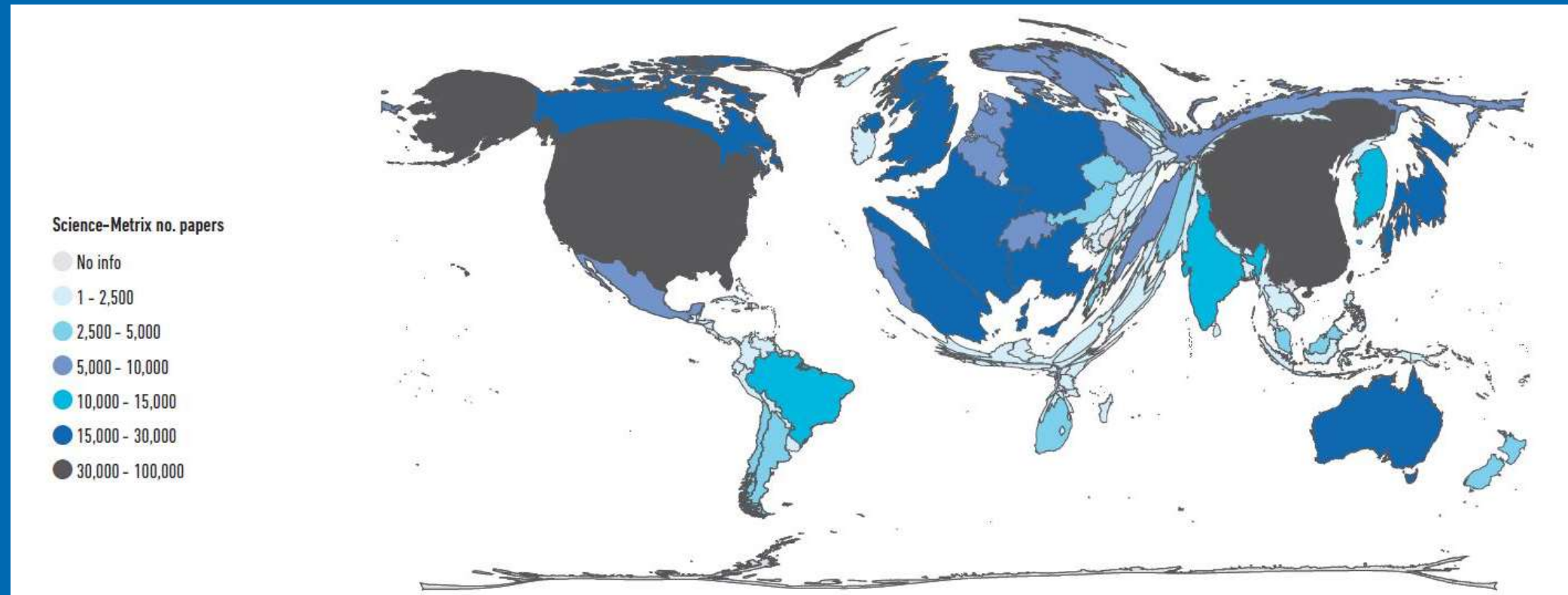


A global collective research and investment framework to close the knowledge gaps





Ocean Science accounts for only between 0,04% and 4% of total research and development expenditures worldwide (GOSR, 2017)



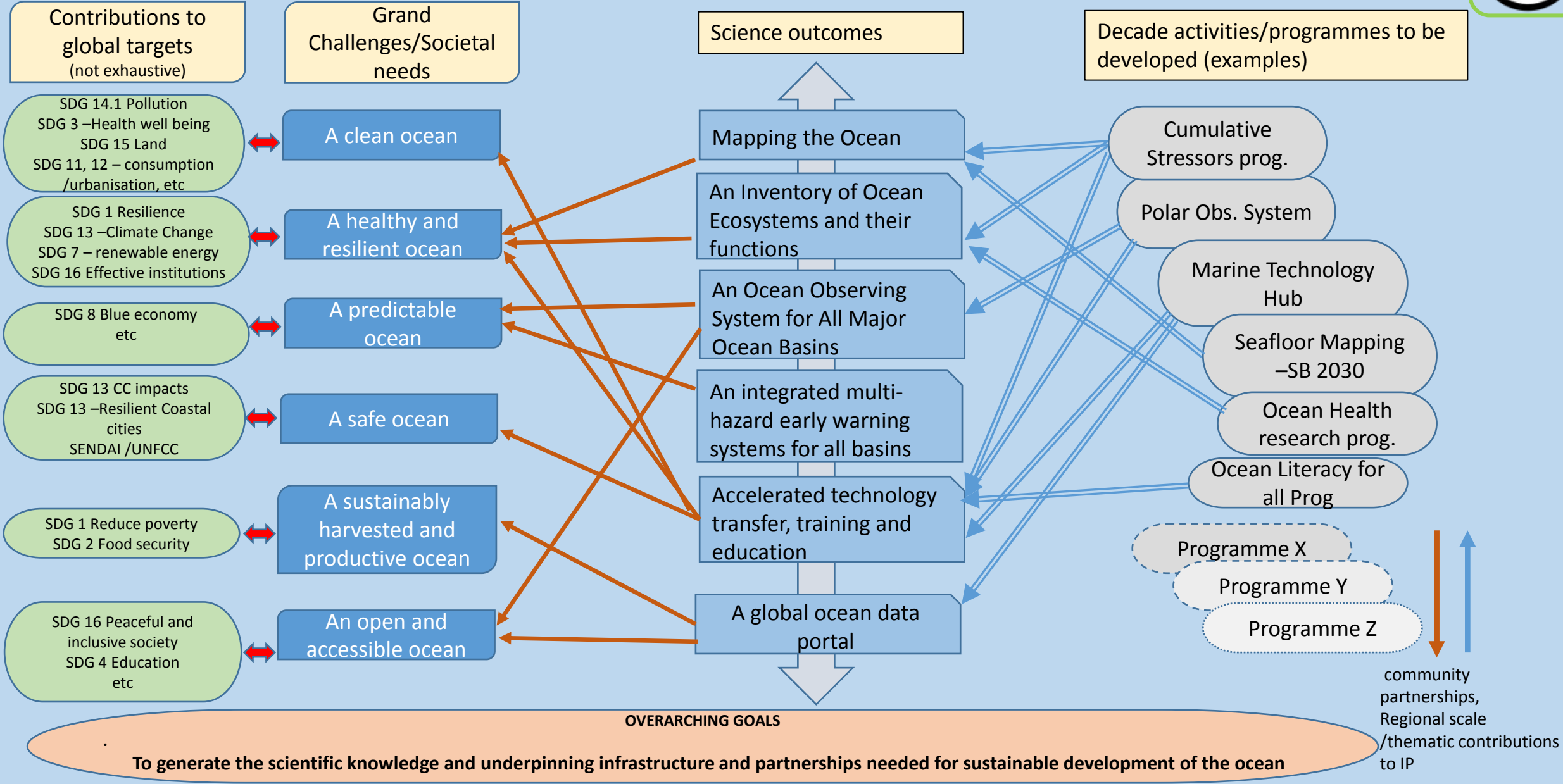
A global framework to structure and boost scientific efforts nationally and internationally to address global and regional SD challenges



A Vision for the Decade

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

THE DECADE : RESPOND TO SOCIETAL NEEDS, CONTRIBUTE TO ALL SDGs, FOSTER NEW SCIENCE PROGRAMMES



A Decade to...

TRANSFORM

knowledge systems
to support
sustainable
development

Potential activities

- Complete mapping of the seafloor
- eDNA Sequencing of marine life
- Integrated research on climate change impacts
- Science products for maritime industries
- Enhanced sharing of data and information

A Decade to...

MEASURE

cumulative impacts
for effective
solutions

Potential activities

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

A Decade to...

REDUCE

vulnerability to ocean and coastal hazards

Potential activities

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



A Decade to...

BOLSTER

ocean observing
and data systems

Potential activities

- An Ocean Observing System for All Major Ocean Basins
- New ocean technologies
- Operational Deep Ocean Observing System
- Open access, data portal for all
- Social science metrics



A Decade to...

ACCELERATE

transfer of marine
technology, training
and education

Potential activities

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

A Decade to...

DELIVER

best available knowledge
to decision-makers

Potential activities

- Promotion of Science/policy mechanisms
- Consolidated network of Decade partners
- Enhanced National arrangement for SD
- Regional & global dialogue enhancement
- Peace through science initiatives

Key Applications of Decade Breakthroughs



**Coastal zone
management
and adaptation**



**Marine
Spatial
Planning/
Blue economy**



**Establishment of
Marine Protected
Areas**



**Fishery
management**



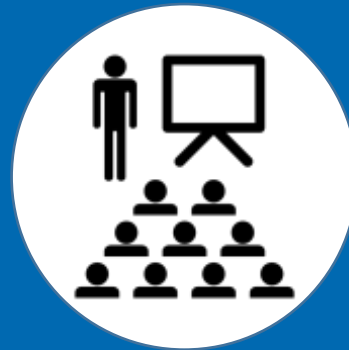
**Nationally
Determined
Contributions
to UNFCCC**



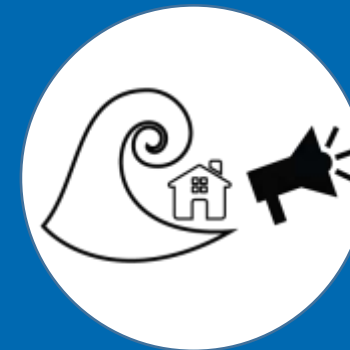
**Development of
national ocean
policies**



**Development of
national R&D
strategies**



**Regional and
national capacity
development
planning**



**Early warning
systems**





Planning Phase: 2018-2020



United Nations
Educational, Scientific and
Cultural Organization



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**Sustainable
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Between 2018 and 2020, the UNGA tasked IOC with preparing the Decade and coordinating the development of an Implementation Plan:

- Science Plan
- Capacity Development Plan
- Resource Plan
- Communications & Engagement Plan
- Monitoring & Reporting



Decade Process : a transformative and participative process



UN/non-UN
support

National
commitments/contributions

THE DECADE

The leadership, processes and structure to enable delivery of a successful Decade of Ocean Science for Sustainable Development

PORTFOLIO

Selection of contributions to realize the Goals of the Decade with proactive monitoring and adjustment base on performance, risk and objectives

PROGRAMMES

Management of all the projects (grouped into Programmes) that are necessary to realise the expected benefits and outcomes

PROJECTS

Management of execution, resources, budget and schedule to deliver a specific project outcome/benefit

NGOs
contributions

Existing
system/support



A cooperation framework for ocean science

Mobilizing scientists on critical ocean priorities relevant to Agenda 2030

*Funding /partnerships
Stakeholders engagement*

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

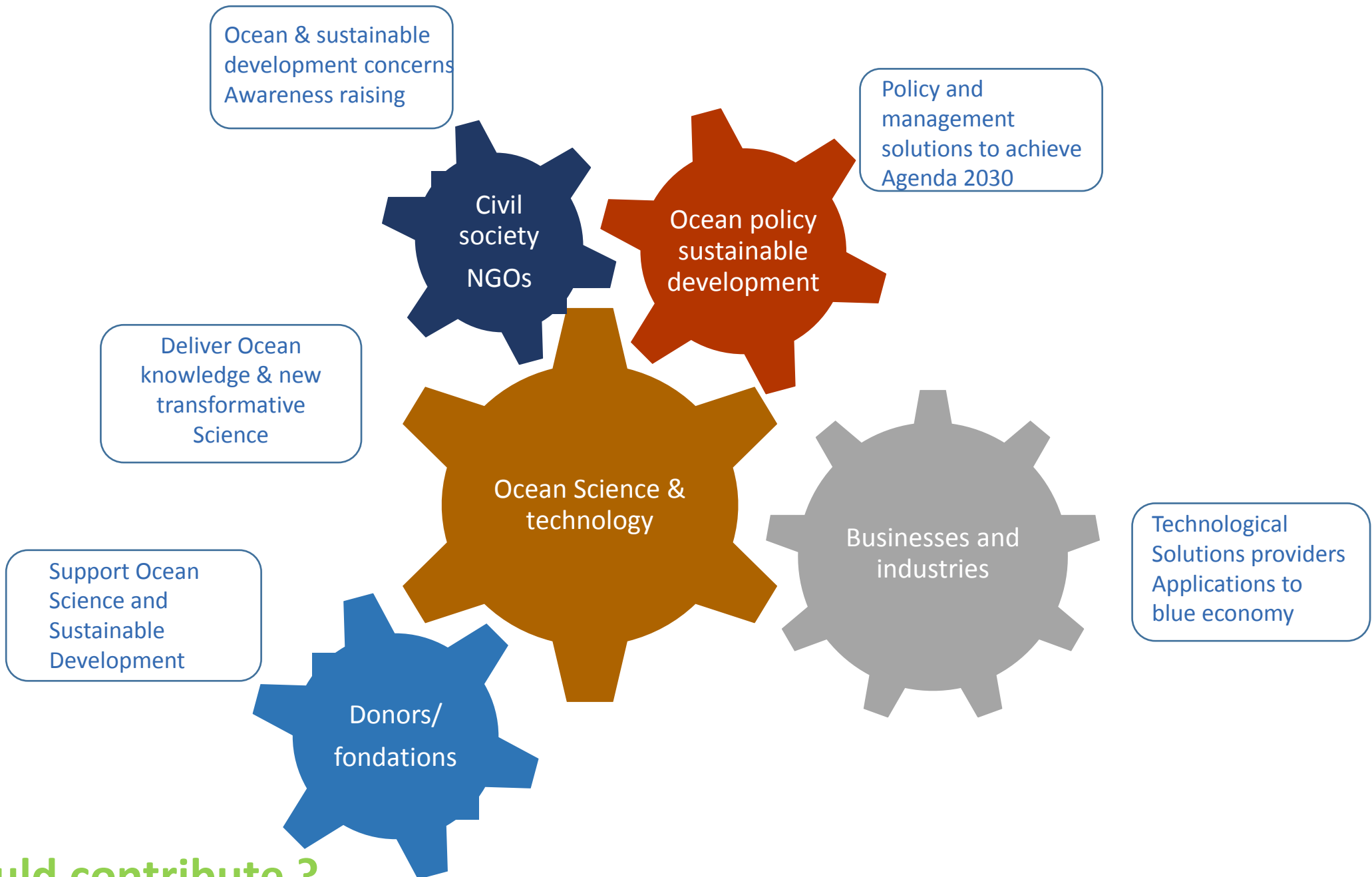
Synthesising, assessing results, development of user-driven solutions

New co-designed research strategies

Fostering new joint research and cooperation within & across ocean basins

*Integration natural & social sciences
Capacity development*

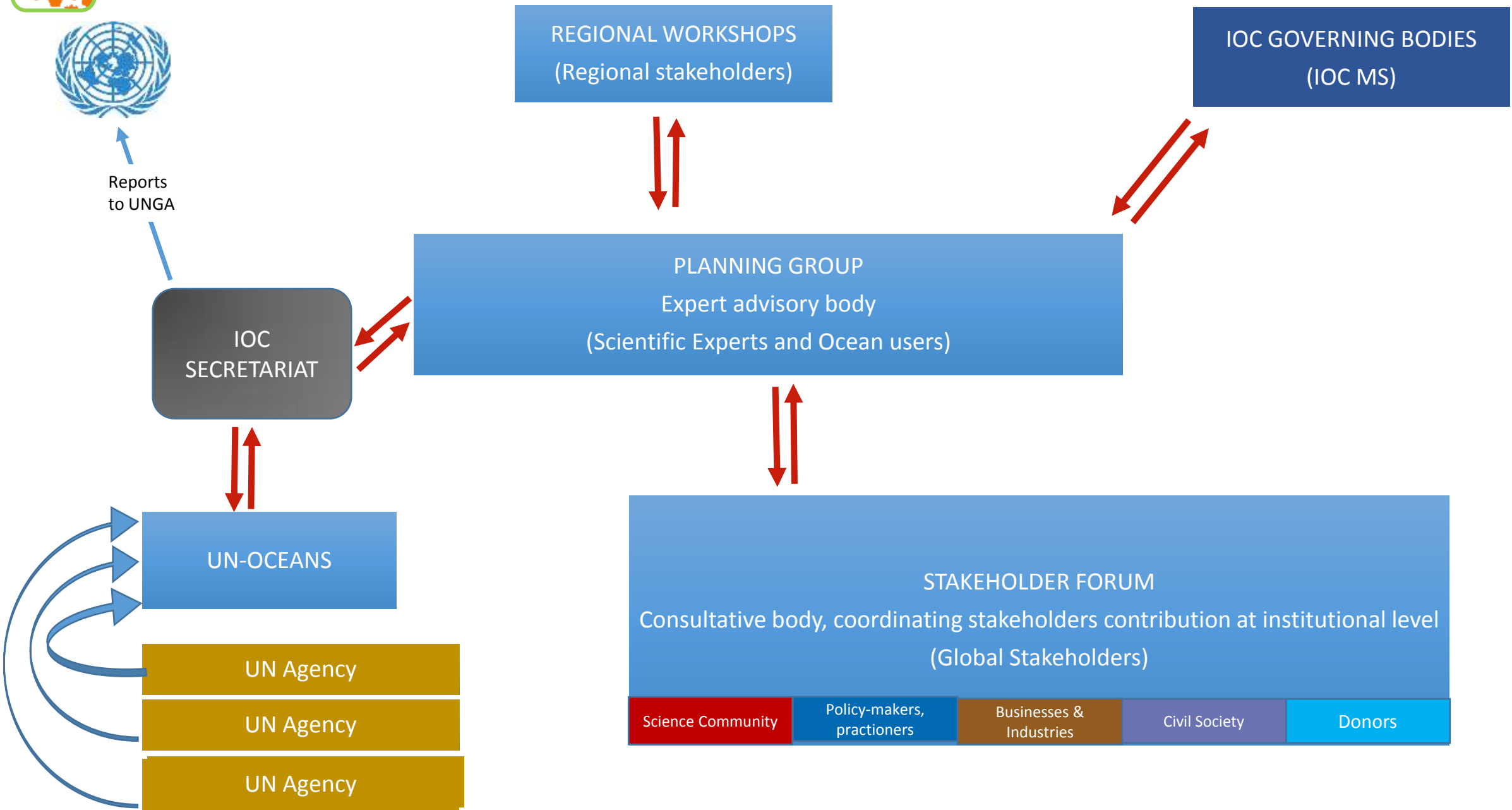


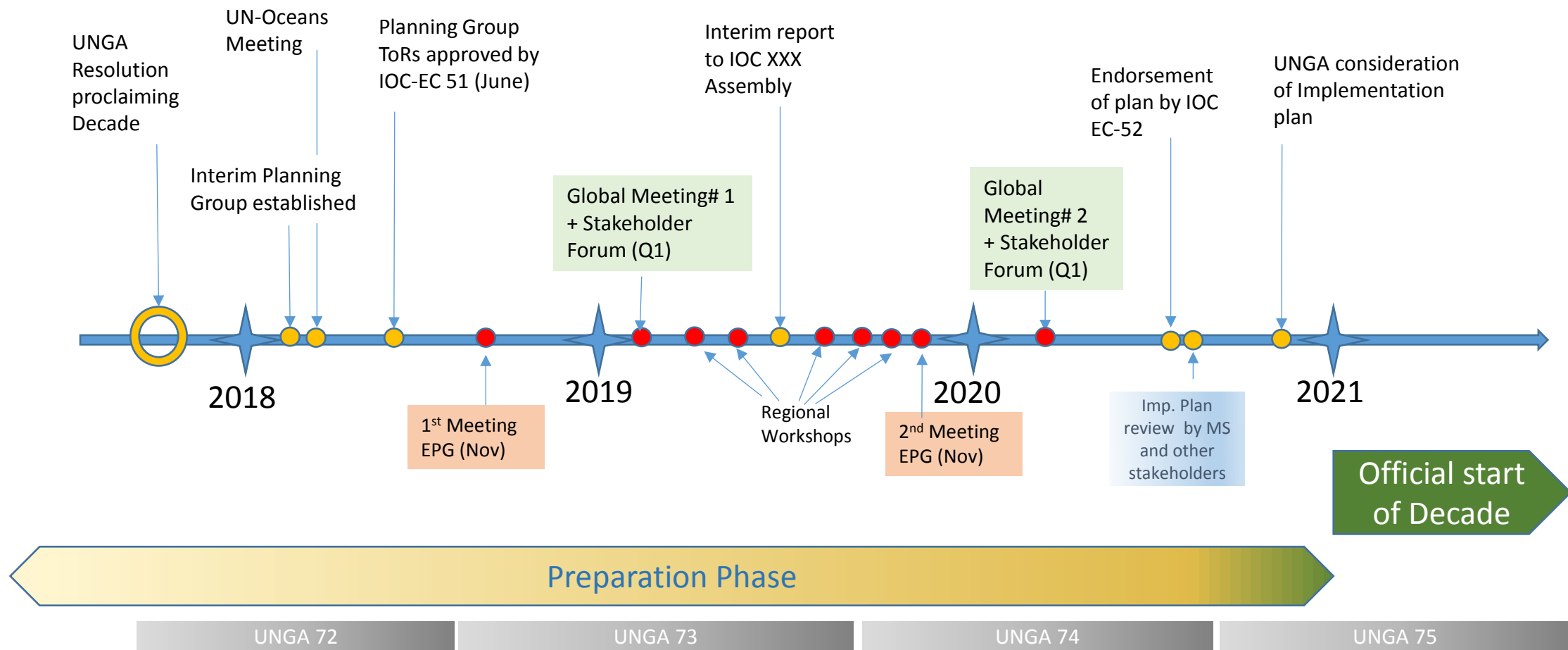


Who should contribute ?



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





Preparing for the Decade: Next Steps

How can the Flemish Science community contribute ?

Aligning research priorities in accordance with Decade goals

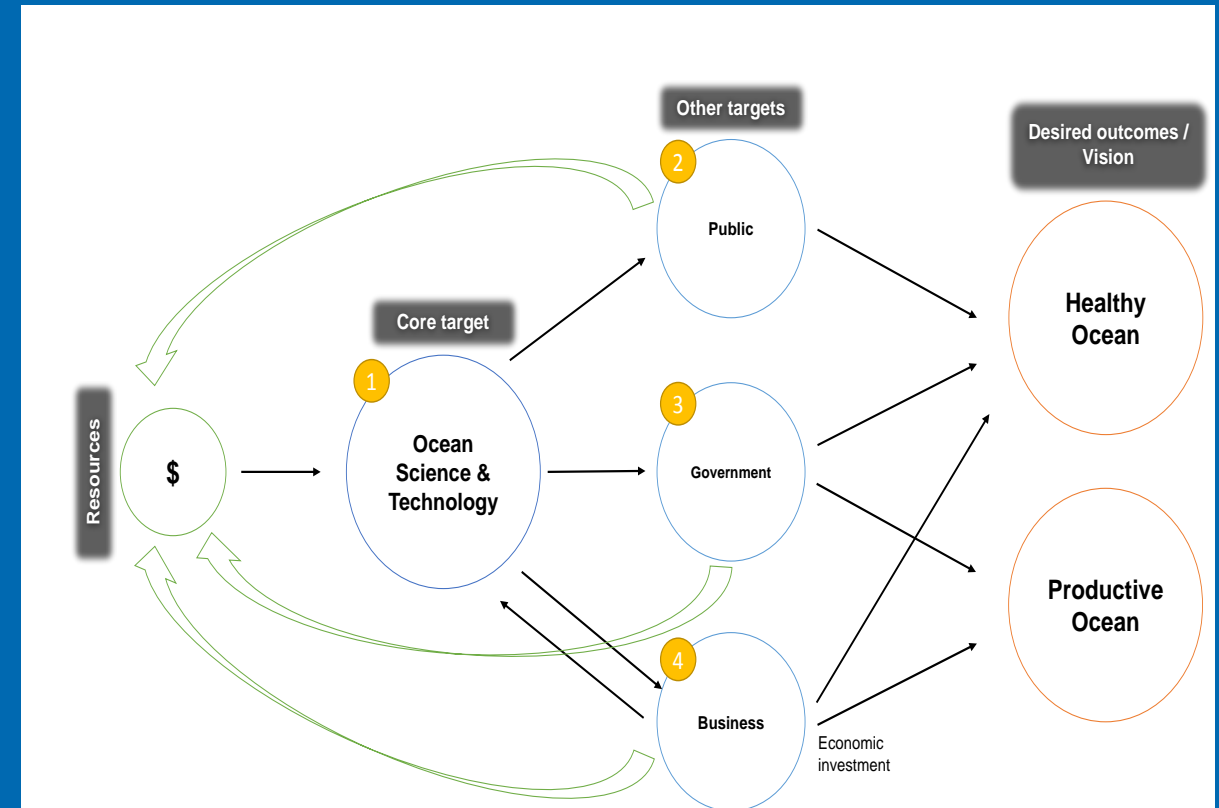
Offering research infrastructure, education/training opportunities

Supporting international collaboration through networks

National committee

Organisation of Decade events

Increasing societal involvement in science





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:
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<http://en.unesco.org/ocean-decade>

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The United
Nations
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The Ocean We Need
for the Future We want