



Healthy Mediterranean
January 20th , 2020, Venice, Italy

What is UN Decade of Ocean Science - and why do we need it now???

The Ocean We Need
for Future We Want



Why do we need Clean, Healthy sustainable Ocean

-  Globally, **the Ocean market** value is estimated at **\$3 trillion per year** or about 5 % global GDP;
-  3 billion depending on the oceans as their primary source of protein
-  Oceans regulating the climate, absorb about 30% of CO₂ produced by humans, buffering the impacts of global warming.
-  and contribute to poverty reduction by increasing fish catches and income- **creating new more than 200 million jobs** only of fisheries sector.



United Nations
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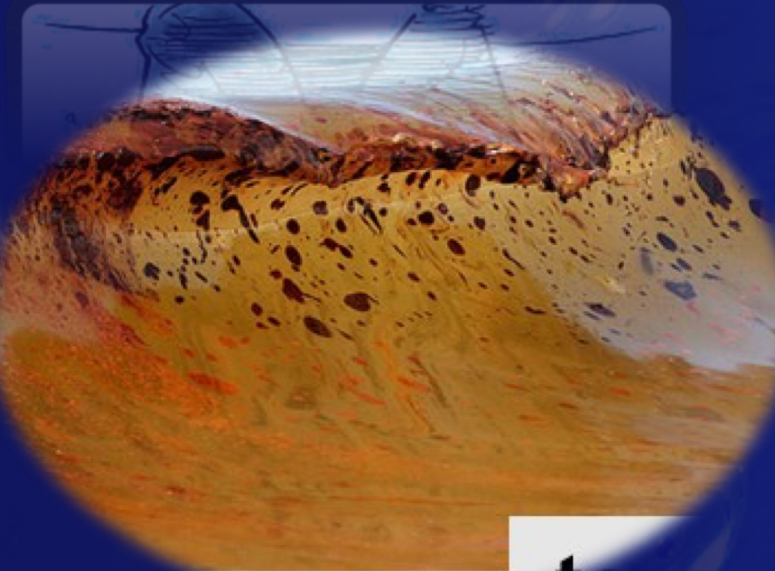
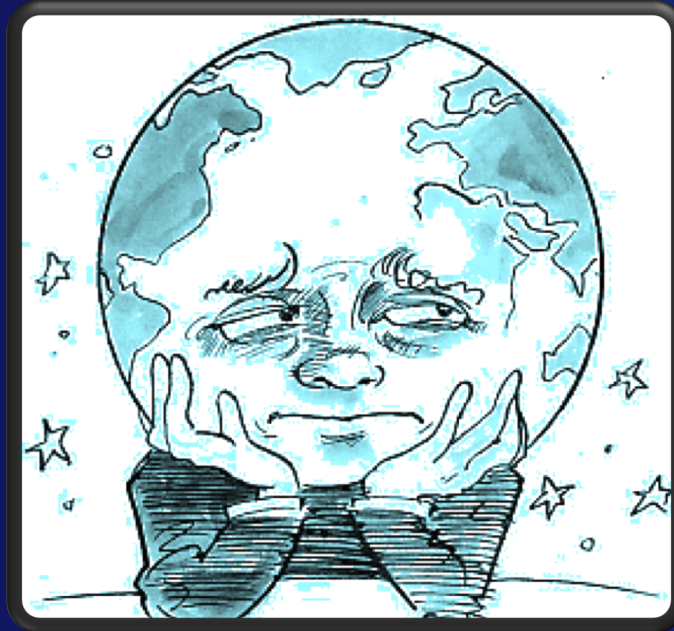


Intergovernmental
Oceanographic
Commission



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development

Ocean fights for his life,...

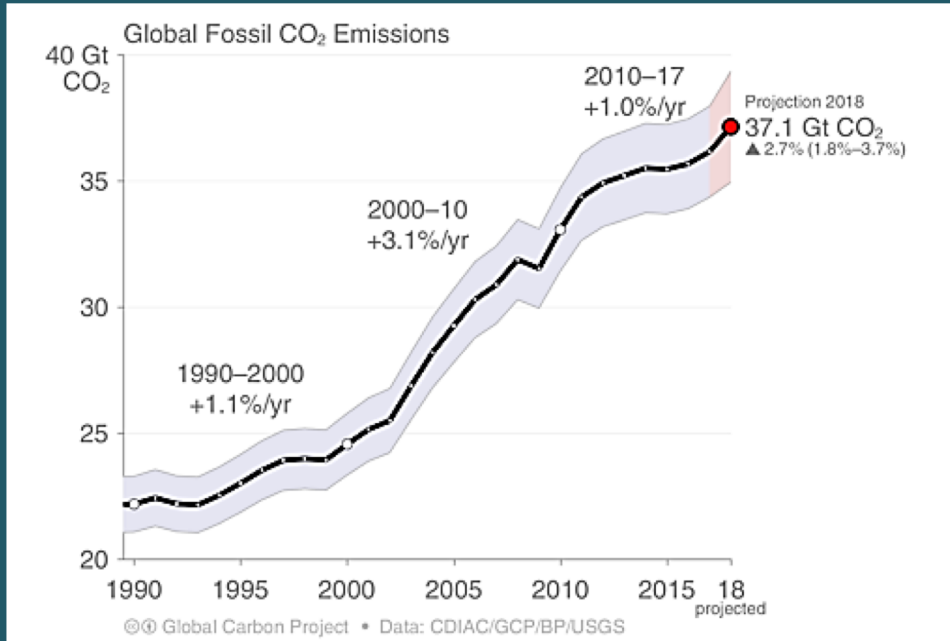


What is the most polluted problem for the Ocean?

If ocean pollution increases than current rates in the next years, experts estimate that by 2025 the ocean is expected to contain 1 tonne of plastic for every 3 tones of fish by 2025, and by 2050, more plastics than fish (by weight).



Climat Changes



VENICE SEES HIGHEST TIDE IN 50 YEARS

Carbon (GHG) emissions: Warming, heat, waves, demise of coral reefs, pH, sea-level rise, storms, De-O₂, sea ice, etc., etc.

last report of climat Changes by the IPCC SROC



Our world and the future we want are at risk

- ★ Even with significant efforts in the past four years, we are not on track to achieve the Sustainable Development Goals by 2030
- ★ The world's population is expected to reach 9 billion by 2050, and the ocean impacts associated with this growing will increase if we continue working ‘business –as –usual’




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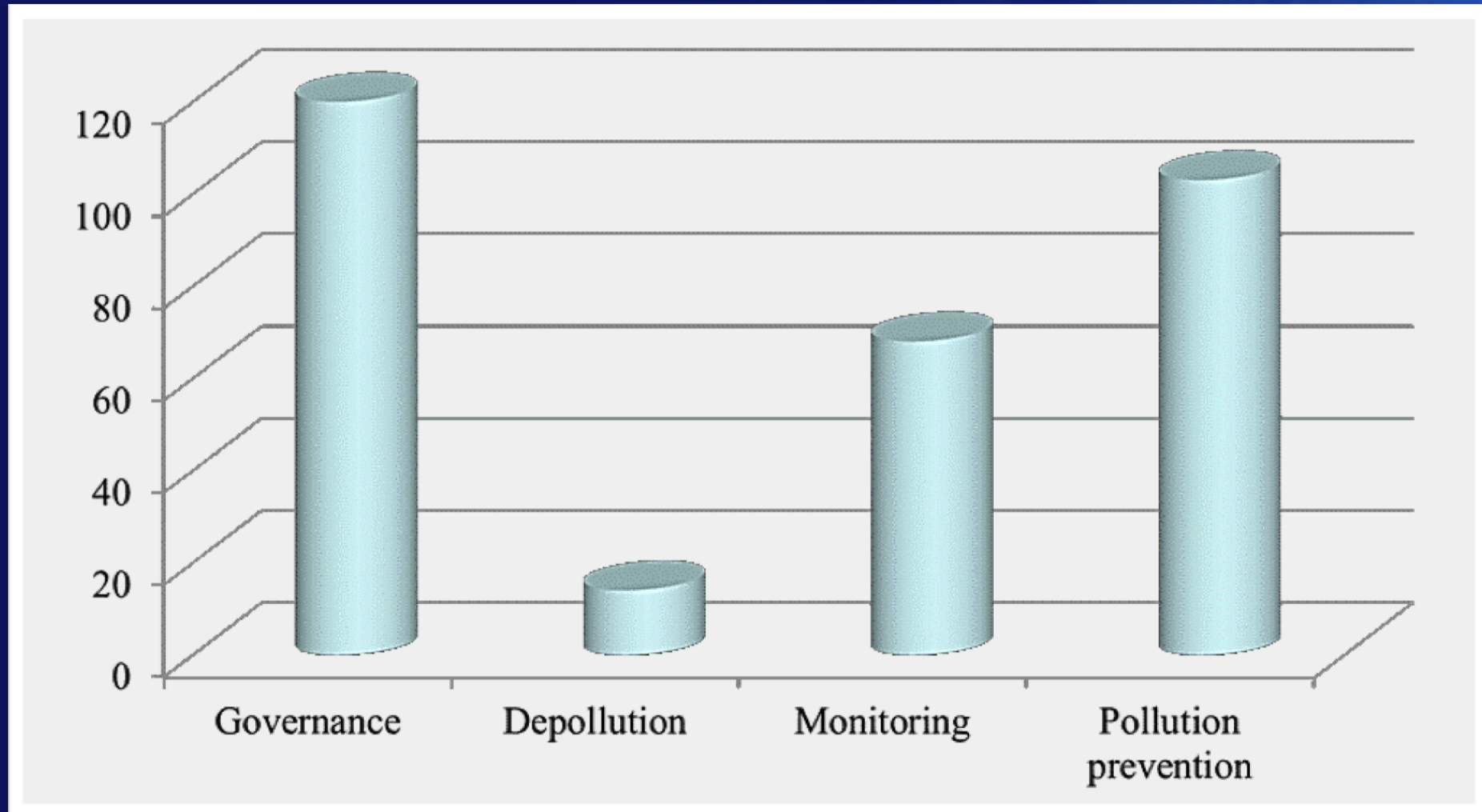


2021
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Despite
the progress made in the potential of
national, regional, international
bodies & the rapid development of
technology,
{ the pressures and risks remain
on the ocean and make it the
most vulnerable area for all.}

Research programs F5 + F6 + F7 2007-2016



Good intentions and reality

The world met for the first time around a simple and shared agenda of 17 SDGs

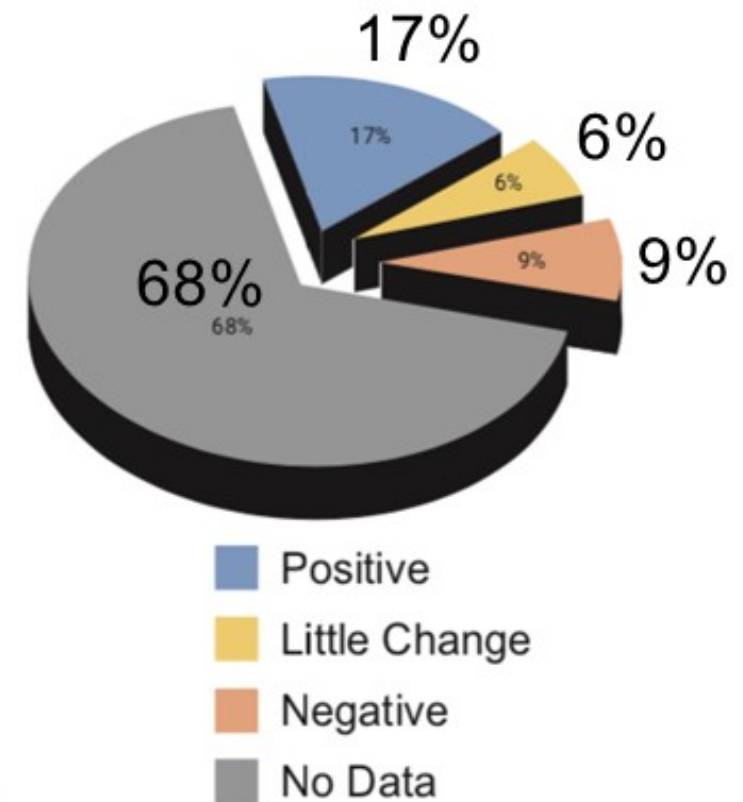
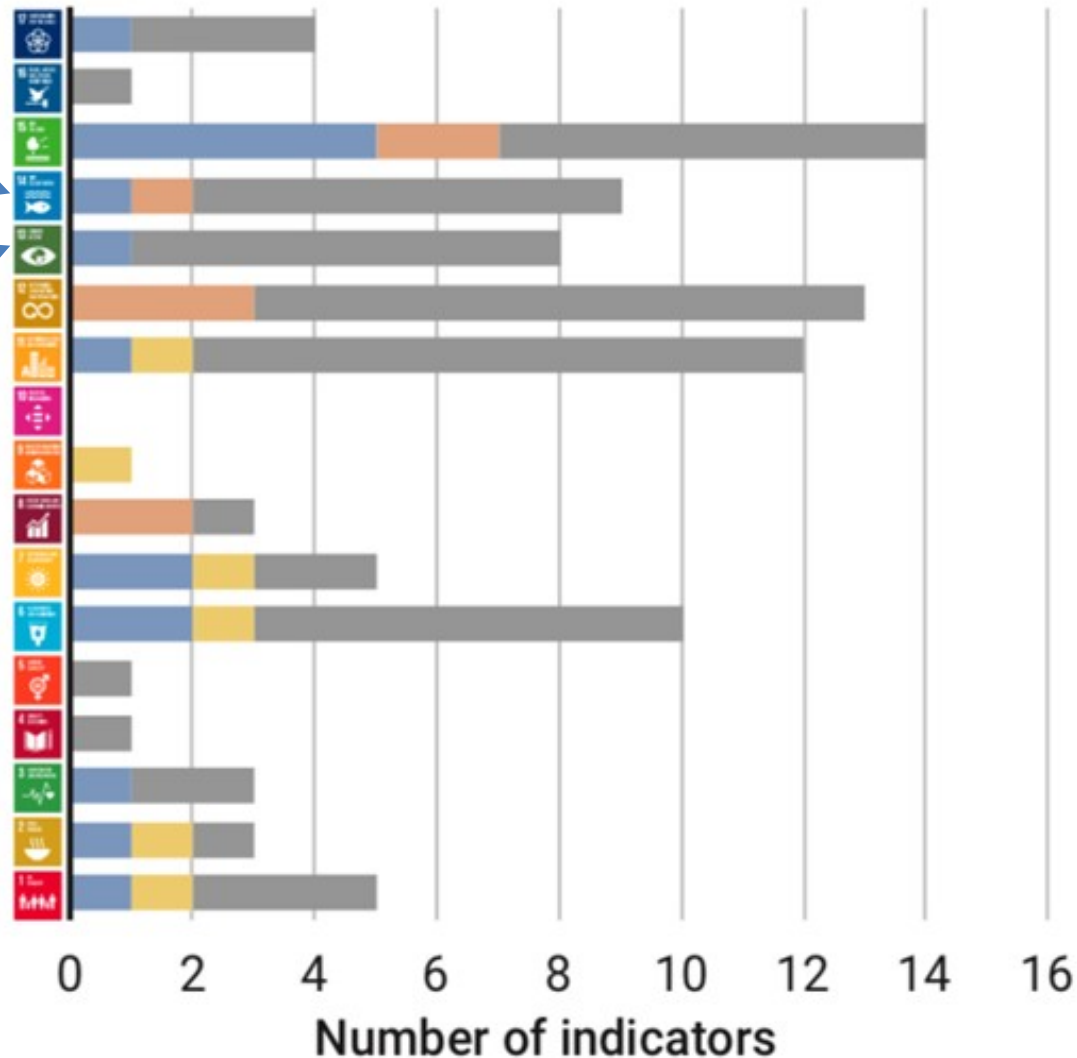


UN, SDGs goals identified to build toward a better and more sustainable future and address the global challenges faced by society.

Do we have the knowledge and therefore solutions we need to achieve SDGs?

Oceans

Climate



What is the way forward.....?

To meet this challenges the UN General Assembly called for an acceleration of Ocean Science data exchange to reverse declines in the health and functioning of the ocean system.

- Declare the UN Decade of Ocean Science for Sustainable Development 2021-2030, within existing structures and available resources,
- and called upon the IOC to prepare an implementation plan for the Decade in consultation with ...(everyone).



**UN Decade of Ocean Science for
Sustainable Development
The Ocean We Need for the Future We
Want**

Where we are

and

where we would like to be



- Science largely competent for problem *diagnostic*
- *Observing system for climate and emerging data service*
- Major knowledge gaps, weak ocean literacy
- Funding base mostly in research mode
- Hugely uneven capacity, especially developing countries/IDS



- Science providing solutions and **motivation** for action
- *Adequate ocean data and information system*
- Ocean literate society and well-informed decisions
- Clear value chain leading to resourcing and solutions
- CD/ transfer of technology: no one remains behind



Investment in Science, Technological Innovation and Capacity development

Acting for Societal Outcomes



A Clean Ocean

Sources of pollution removed from the Ocean -----→ Zero Pollution



A Healthy and Resilient Ocean

Marine ecosystems are mapped and protected, multiple impacts, including climate change, are measured and reduced, 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.



Acting for Societal Outcomes



A Safe Ocean

Human communities are protected from ocean hazards .



A Sustainable Productive Ocean

The provision of food supply and alternative livelihoods are secured.





A Transparent and Accessible Ocean


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



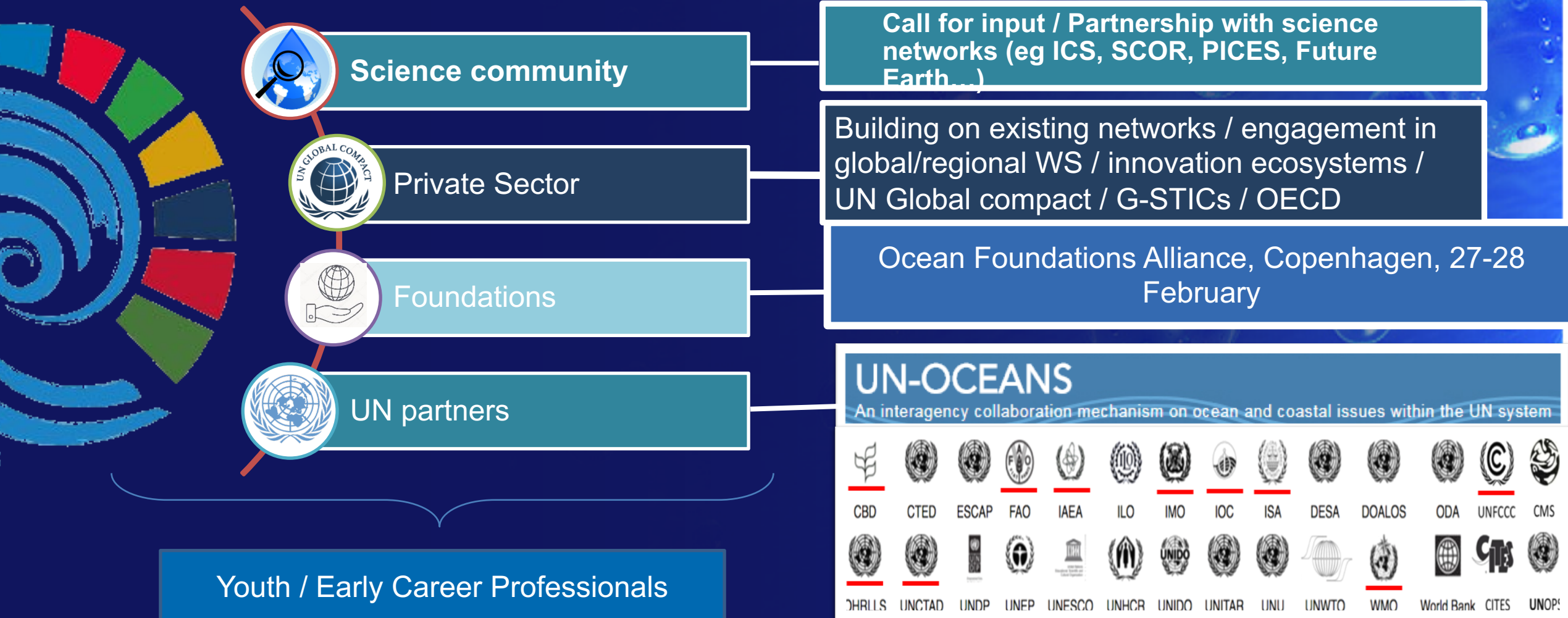


 Decade Building on the several decades of international cooperation in ocean research and observations, as well as the policy-relevant goals defined by the 2030 Agenda and **other ocean frameworks**.

 Filling the gaps through Science, Technology and Innovation and scaling of the best practices and potentialities

 At heart of Decade, it reaffirms the values of equity and public, youth, women, indigenous people participation in all implementation phases. The Decade will leave no one behind.

Working with Stakeholders from all Sectors: From co-design of the Decade to delivery of Sustainable Solutions



How to engage in the #OceanDecade discussion?



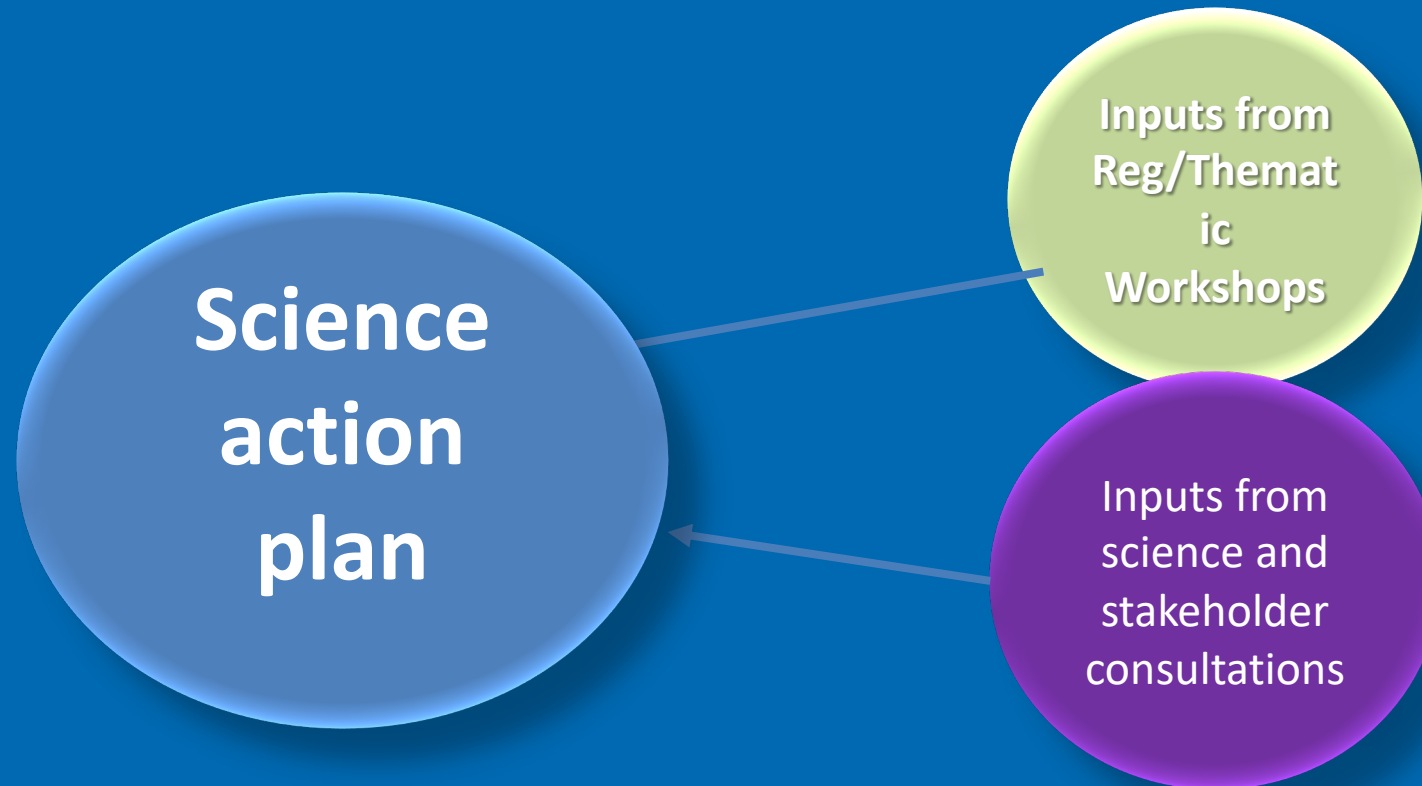
Arctic Workshop – Tromsø, Jan. 2020 
Copenhagen, March 2020 

 **Canada**
North Atlantic
Halifax
7-9 Jan. 2020



 **Med.**
Venice
Jan. 2020

Science Action Plan for the Decade



Focus on Early Career Professionals/Gender

The SAP will be high-level, providing a framework to guide actions by which ocean science can more effectively deliver its contribution to achieving the societal outcomes of the Decade.

New science/technological actions
Contribution of existing science plans/organisations
Commitments/investments from stakeholders

Thinking about the future

“We are the first generation that can end poverty – and the last generation to tackle climate change before it is too late.”

Ban Ki-Moon, UN Secretary General



Ceri Parker,

merci *arrigato*
Danke *gracia*
I' HANK YOU
Tapadh leibh A dank aych
TACK *gracias* *dank u*
MAHALO *o pebiyo*
ASHOGE *grazie* *anqoridrokas swa*

شعرا