The Ocean Decade: a framework for transformative change at the regional and national level

AIR Centre – Networking Fridays

18 December 2020
14.00 – 16.00h
Opening Remarks:
Minister Manuel Heitor
Minister of Science, Technology, and Higher Education
Update on the Ocean Decade and launch of the report ‘Engaging and Empowering Regional Stakeholders: Synthesis of Regional Consultation Workshops (2019–2020)’: Vladimir Ryabinin, Executive Secretary, IOC
Co-designing the science we need for the ocean we want at the global and regional level:
Susanne Moser
Expert in collaborative research and co-design, IOC Consultant
The Ocean Decade Webinar Series

Key pillars of the series:
- Inclusivity
- Co-design and co-delivery
- Subsidiarities
- Partnerships

Based on the Decade Challenges and cross-cutting issues such as...
- Research co-design
- Data sharing
- Ocean & human health
- Ocean-climate nexus
- Sustainable economy of SIDS
- Ocean observation
- Food security

More information on sessions on www.oceandecade.org
The Need for Transformations to Ocean Sustainability

Central to the Ocean Decade is the notion of transformation

**Where we are**
- 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 in developing countries/SIDS

**Where we would like to be**
- Science providing solutions and motivating action
- Ocean data and information system for past, present, and future
- Ocean literate and well-informed decisions
- Clear value chain leading to resourcing and commitment
- Capacity Development/Transfer of Technology: no one left behind
Two global sessions:
• 655 attendees
• Session 1 – Importance of TDR and how to engage diverse sectors, geographies and disciplines
• Session 2 – Methodologies to recognize complementarities across knowledge systems, institutional conditions and appropriate funding structure, capacity building

Seven regional sessions:
• More than 1,350 attendees
• Challenges and opportunities for doing TDR
• Capacity-building, training & education needs
Global Webinars

Introductory Session

- What is co-designed, solution-oriented research in the context of the Decade?
  - What is transdisciplinary research
  - Lessons learned from transdisciplinary project
  - From interdisciplinarity to transdisciplinarity Question period

- How to foster co-designed, co-production, co-delivery in ocean research?
  - Funding structure
  - Overcoming institutional barriers
  - Role of private sector
  - Reinforcing the science-policy interface
  - Regional Ocean Governance

Concluding Session

Part 1 - Co-design and initial recommendations to support innovative co-designed, solution-oriented research
  - Introduction to co-design and transdisciplinary science
  - Initial recommendations from webinars
  - Methodologies for engagement

Part 2 - How to recognize complementarities across knowledge systems and support effective interactions
  - Lessons learned from the SOPHIE project
  - Moderated expert panel

Part 3 - How to build capacity & mobilize resources for co-design and co-production of solution-oriented knowledge
  - Moderated expert panel
  - Lessons learned from the Transformations to Sustainability programme

Session - “Co-designing the science we need for the Ocean Decade”
24 September, 2020 (16:00 - 18:00 CEST)
REPLAY: https://www.youtube.com/watch?v=I5YX3Zk8vIc&feature=youtu.be

8 December 2020 - will be posted at:
https://www.oceandecade.org/news/77/The-Ocean-Decade-Virtual-Series
Key Aspects of Collaborative Research

Collaborative or “transdisciplinary” research: Collaboration between sectors, geographies, and disciplines (natural, social sciences and humanities) to produce and use ocean science that addresses complex societal challenges

**Co-Design**

Participatory development of a research project with stakeholders and users.

**Co-Production**

Participatory implementation of a research project with stakeholders.

**Co-Delivery**

Participatory development of delivery strategies with stakeholders for:

- Appropriate use of research
- Reaching decision-makers wherever they are
- Establishing knowledge sharing and data platforms
- Connecting communities, private sector, current & new partners
What are some key challenges in doing TDR?

- Stakeholders have different values and expectations
- Different languages across a region
- Unequal resources (financial, human)
- Uneven Valuation of TDR
- Participating requires an investment of time, commitment and money
- COVID-19
### Initial recommendations

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<tr>
<th>Define clear role for stakeholders &amp; expected investments</th>
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<td>Establish mutual understanding and coordination</td>
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<td>Build on pre-existing relationship and shared practical experience</td>
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<td>Structural mechanisms to manage complexity</td>
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<td>Common goal &amp; positive impact for all &amp; communicate clearly</td>
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<td>Co-leadership between academic and non-academic leaders</td>
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<td>Identifying baseline inequalities</td>
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Recommendations for the Arctic:
• Develop an Arctic research project
• Increase involvement of Indigenous and local communities

Recommendations for the Southern Ocean:
• International collaboration and reorganisation
• Sustained funding

Recommendations for Africa:
• Model based on a sustainable blue economy
• Vertical and horizontal collaboration
• Develop knowledge platform
• Develop training and university programs; employment and internship prospects in the blue economy for the young

Recommendations for the WTA:
• Involve other sectors beyond fisheries/blue economy
• Increase coordination and inventory of existing networks
• Role of women (agents of positive change)
Recommendations for the Mediterranean:
• Planning & management tools (MSP & ICZM)
• Cooperation North/South & transboundary cooperation
• Value arts, underwater archeology and history
• In situ observations for essential ocean variables

Recommendations for the Southeast Pacific:
• Reduce inequalities to improve information generation
• Promote research centers
• Identify existing alliances & networks (CPPS)

Recommendations for the Western Pacific:
• Establish a Western Pacific ECOPs Network
• Enhance research capacity & TMT via the WESTPAC regional network of Training and Research Centres
• Empower local/coastal communities
Final report
January 2021
→ Training course
1st Q of 2021

Virtual session for the
Eastern Tropical Pacific
Next Steps

• Final report – January 2021
• Call for Decade Actions: submit your proposal online before 15 January 2021
• Get involved at national and regional levels

For more information please contact: oceandecade@unesco.org
Panel discussion: Translating the Ocean Decade to regional and national action:
Moderated by Luis Pinheiro
Chairman, Portuguese Committee for IOC
Panel discussion: Translating the Ocean Decade to regional and national action:
Cesar Toro
IOC of UNESCO Secretariat for IOCARIBE, Co-Chair Western Tropical Atlantic Taskforce
Uneven Ocean Science Capacity
Competitive ocean science is driven by international partnerships

In the period 2012–2017, 61% of the papers published by ocean scientists globally had at least one co-author from a foreign country, compared with approximately 56% from 2006 to 2011 and 52% from 2000 to 2005 (Figure ES.9). Increased collaboration among scientists from different countries is a sustained trend and should be seen as a very valuable and positive development.
Ocean Decade Challenges

1) Pollution and Marine Debris
2) Ecosystem Protection, Restoration
3) Food Security, Sustainable Seafood
4) Economic development
5) Ocean-Climate Nexus
6) Multi-Hazard Warnings
7) Ocean Observing Systems
8) Digital Ocean Map and Data Portal
9) Capacity Development
10) Social & Behavioral Barriers to Change
### Regional Initiatives

#### WG I

**Issue**: A clean ocean whereby sources of pollution are identified, quantified and reduced and pollutants removed from the ocean.

**Grand Challenge**: There are significant gaps in data and research regarding the types, sources, concentrations and channels of marine pollutants in the Western Tropical Atlantic.

**Gran Action**: Improve understanding, through a harmonized, region-wide data collection, analysis and research programme, of the flow and impacts of all pollutants in the Western Tropical Atlantic, transforming decision making, facilitating targeted pollution prevention measures, to sustain and catalyse more sustainable use of our coastal and marine resources.

#### WG II

**Issue**: A healthy and resilient ocean whereby marine ecosystems are mapped and protected, multiple impacts, including climate change, are measured and reduced, and provision of ocean ecosystem services is maintained.

**Grand Challenge**: Overcoming deficiencies and inequalities through training in data analysis techniques and significantly increasing access to data and information to understand combined effects of stressors in marine and coastal ecosystems and biodiversity at multiple scales, as well as the influence of connections (between ocean basins and continents) on the climate and ocean processes.

**Gran Action**: Build capacity to understand, map and protect of marine and coastal ecosystems and services at a regional scale through science informed strategies to manage marine stressors including human activities at multiple scales and the oceans role in a changing climate.
The IOC of UNESCO Sub-Commission for the Caribbean and Adjacent Regions

▪ The Intergovernmental Oceanographic Commission’s Sub-Commission for the Caribbean and Adjacent Regions - IOCARIBE has the overall responsibility for formulation of policy, principles and strategy, and for planning and coordination of the UN Decade of Ocean Science for Sustainable Development (2021-2030) in the Western Tropical Atlantic region.

▪ IOCARIBE catalyse actions, projects and programmes
Panel discussion: Translating the Ocean Decade to regional and national action:
Karen Silverwood-Cope
Brazil National Committee for the UN Decade of Ocean Science
How can the Ocean Decade decentralized coordination mechanisms can successfully work to unite Decade stakeholders at sub-regional and regional levels?

Karen Silverwood-Cope - MCTI, BRA
Dedicated Website & YouTube Channel

- 40,000+ page views
- 11,000+ YouTube views
about 3,000 registrations
That’s a lot of interest

about 600 participants
active participation

62% women
Total success!

300+ Technical contributions
Thank you!

Karen Silverwood-Cope, head of unit
General Coordination for the Ocean, Antarctica and Geosciences
Department of Natural Sciences
Secretariat for Research & Scientific Capacity Building
Ministry of Science, Technology & Innovation - Brazil
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All from Bahia, Brazil
Panel discussion: Translating the Ocean Decade to regional and national action:
Taylor Goelz
Knauss Marine Policy Fellow NOAA, Early Career Ocean Professional Working Group
Intergenerational diversity is necessary for a sustainable future.
Intergenerational diversity is necessary for a sustainable future

<table>
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<tr>
<th>Countries Represented in the 2020 Youth Summit for the UN Ocean Decade</th>
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<tr>
<td>Afghanistan, American Samoa, Argentina, Australia, Bangladesh, Brazil, Belgium, Cameroon, Canada, Sao Paulo, Costa Rica, Colombia, Czech Republic, Fiji, France, Federated States of Micronesia, Germany, Guam, Gambia, Hong Kong, India, Indonesia, Iran, Iraq, Italy, Jamaica, Japan, Kenya, Malaysia, Marshall Islands, Mexico, Myanmar, New Zealand, Nigeria, Pakistan, Palau, Papua New Guinea, Peru, Portugal, Puerto Rico, Serbia, Singapore, South Africa, South Korea, St. Lucia, Spain, Sweden, Taiwan, Tanzania, Thailand, The Netherlands, Tunisia, Turkey, Uganda, United Kingdom, United States, St. Vincent &amp; The Grenadines</td>
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How to include intergenerational diversity in the Ocean Decade

- **Integrate.** Integrate ECOP and youth engagement into your organizations & institutions & networks;
- **Advocate.** Advocate for intergenerational diversity in your work spaces/panels/papers/etc.;
- **Capacity Development.** Fund ECOP & youth involvement, workforce development, job opportunities
- **Share.** Share your ideas & initiatives;
- **Connect.** Connect with others who are interested in diverse engagement;
Keep in Touch!

contact@ecopdecade.org
@OceanDecadeECOP
Ecopdecade.org - Coming January 2021!

taylor.goelz@noaa.gov
@tweetertaylor
Questions and Answers with the Panel
The Ocean Decade: Looking Towards 2021:
Alison Clausen
Programme Specialist, IOC
Major Milestones in 2021

- **OCEAN DECADE STARTS!**
  - 1 January 2021

- 'Brave New World - Brave New Ocean' High Level Event
  - 28 January 2021

- Ocean Decade Virtual Launch
  - End-April TBC

- Opening Event of First International Conference for the Ocean Decade
  - Berlin, 1 June 2021

- Start of Ocean Decade Laboratories
  - July 2021 - February 2022

- Africa Decade Kick-Off Conference
  - Egypt, Dates TBC

- Asia Decade Kick-Off Conference
  - Thailand, August TBC

- UN Ocean Conference
  - Lisbon, Dates TBC
Launch of process to endorse Decade Activities!

• Do you have an event, workshop, publication or conference planned for 2021 that will contribute to the Ocean Decade Challenges?

• As of today you can request endorsement for your Decade Activity via this link:

• You will need to provide basic information on your Decade Activity including how it contributes to the Ocean Decade Challenges and aligns with the endorsement criteria contained in the Implementation Plan

• Decisions on endorsement will be made in early 2021 and will allow you to be officially recognized as part of the Ocean Decade movement!
Reminder: Call for Decade Actions No. 01/2020

• First in a series of ‘Call for Decade Actions’ open for:
  1. Global or major regional programmes.
  2. Contributions including support to central or decentralised coordination functions (including collaborative centres and coordination offices).

• Actions that contribute to post-COVID-19 recovery welcome

• The Call is open until 15 January 2021 with decisions in Q1 of 2021 following facilitate dialogue between partners

• No geographic or thematic restrictions and no limit on who can apply

• Call will be followed by other Calls for programmes and projects in 2021

• The Call is not a funding call but the IOC may be able to help make connections to funders => potential Actions can be submitted without secured funding
THANK YOU