UN Ocean Decade Vision 2030 Process
1st Public Webinar

02 November 2023

Please note that the webinar is being recorded
1. Agenda

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<td><strong>Welcome and Overview (10 mins)</strong></td>
<td>DCU</td>
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<td>- Overview of the webinar’s objectives and agenda</td>
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<td>- Rapid presentation of the Ocean Decade Objectives, Challenges, Outcomes and ‘Ecosystem’</td>
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<td>- Overview of the 2024 Ocean Decade Conference in Barcelona and its programme</td>
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<tr>
<td><strong>The Vision 2030 process (45 mins)</strong></td>
<td>DCU &amp; Co-Chairs</td>
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<td>- Introduction to the roadmap and framework of the Vision 2030 process</td>
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<td>- Overview of the White Papers, Consultation, and Review process</td>
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<td>- Opportunities to participate and engage in the process</td>
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<td>- Update from each WG on progress and upcoming milestones</td>
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<tr>
<td><strong>Q&amp;A Session (30 mins)</strong></td>
<td>All</td>
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<td>- Occasion for attendees to ask questions, engage and share insights</td>
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<td><strong>Closing Remarks (5 mins)</strong></td>
<td>DCU</td>
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<td>- Summarize the key takeaways</td>
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<td>- Guidance on accessing additional resources</td>
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<td>- Call to action for active participation in the Vision 2030 process</td>
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2. Main objectives

Facilitate broad Decade stakeholder engagement in the Vision 2030 process

Collect initial inputs and feedback on the Vision 2030 and the work of the Working Groups

Showcase initial outputs of the White Papers

Set out the process for further detailed engagement in the process moving forward
THE OCEAN DECADE ACTION FRAMEWORK

THE SCIENCE WE NEED
UN Decade of Ocean Science for Sustainable Development

THE OCEAN WE HAVE

DECADE OBJECTIVES
1. Identify required knowledge for sustainable development
2. Generate comprehensive knowledge and understanding of the ocean
3. Increase the use of ocean knowledge

DECADE ACTIONS
- Programmes
- Projects
- Activities
- Contributions

DECADE CHALLENGES
1. Understand and beat marine pollution
2. Protect and restore ecosystems and biodiversity
3. Sustainably feed the global population
4. Develop a sustainable and equitable ocean economy
5. Unlock ocean-based solutions to climate change
6. Increase community resilience to ocean hazards
7. Expand the global ocean observing system
8. Create a digital representation of the ocean
9. Skills, knowledge and technology for all
10. Change humanity’s relationship with the ocean

THE OCEAN WE WANT

DECADE OUTCOMES
- A clean ocean
- A healthy and resilient ocean
- A productive ocean
- A predicted ocean
- A safe ocean
- An accessible ocean
- An inspiring and engaging ocean

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4. Overview of the 2024 UN Ocean Decade Conference

**Purpose:** Assess the progress and achievements made during the first three years of the Ocean Decade and define a collective vision for the upcoming years.

**Date:** 10th - 12th April 2024 & full week of events

**Location:** Barcelona, Spain

**Key Points:**
- Publication of the set of White Papers addressing the 10 Decade Challenges
- Identifying future priorities for science-based solutions to global challenges
- Bringing together governments, leaders, maritime sectors, philanthropy, universities, private sector, NGOs, and more
- Platform for sharing knowledge, best practices, and innovative solutions
- Addressing pressing ocean challenges and advancing the Decade’s goals
4. Program of the UN Ocean Decade Conference

**10 April**

10.00 - 13.00

Plenary: High Level Opening Segment

Plenary: Principles of Success for the Ocean Decade
- Engagement of Small Island Developing States / Least Developed Countries
- Gender & Early Career Ocean Professionals
- Technology & Innovation
- Investment in ocean science

15.00 - 18.00

Session 1: Science and Solutions for a Clean, Healthy and Resilient Ocean
(Challenges 1, 2 and 5 – Pollution, Ecosystems and Climate)

Plenary and Parallel Sessions

**11 April**

10.00 - 13.00

Session 2: Science and Solutions for a Sustainable and Resilient Ocean Economy
(Challenges 3, 4 and 6 – Sustainable Ocean Economy, Sustainable Blue Food and Resilient Communities)

Plenary and Parallel Sessions

15.00 - 18.00

Session 3: Science and Solutions for a Safe and Predicted Ocean
(Challenges 6, 7 and 8 – Observations, Data, and Forecasting / Early Warning Systems)

Plenary and Parallel Sessions

**12 April**

10.00 - 13.00

Session 4: An Inspiring and Engaging Ocean for All
(Challenges 9 and 10 – Capacity Development, Ocean Literacy, and Indigenous and Local Knowledge and Cultural Heritage)

Plenary and Parallel Sessions

15.00 - 18.00

Plenary: Resources and Partnerships for the Ocean Decade

Plenary: Announcements & Commitments for the Ocean Decade

Plenary: Closing Segment - Charting a Vision to 2030
6. Strategic Ambition Setting

- Strong demand from Decade community to **shape a common vision** for the next 8 years & enhance collective impact
- Unique window of opportunity to **deliberately design the ‘science we need’** and avoid dispersion of Decade Actions
- Growing need to **measure & document impact** of the Ocean Decade

- What does success look like for this Ocean Decade Challenge at the end of the Decade?
- What milestones / targets do we need to achieve throughout the Decade to be on the path for success for this Challenge?
8. White Papers & Milestones

White Paper Layout

01 EXECUTIVE SUMMARY (1 PAGE)
02 INTRODUCTION (1 PAGE)
03 STRATEGIC AMBITION SETTING (4 PAGES)
04 MILESTONES AND INDICATORS (1 PAGE)

Finalization

Public review process (Jan-Feb 2024)

White Papers and Synthesis Report to be presented and discussed at the 2nd International Ocean Decade Conference in April 2024

Consolidation of White Papers and development of the Operational Plan to implement and operationalize the Strategic Ambitions for each Challenge
9. How to engage

- Get involved through targeted consultations with specific WGs
- Participate in the open review process of the White Papers
- Join the 2024 Ocean Decade Conference
- Share the Vision 2030 process during events & collect feedback
- Contact the coordination team
Challenge 10: Change humanity’s relationship with the ocean

Ensure that the multiple values and services of the ocean for human wellbeing, culture, and sustainable development are widely understood, and identify and overcome barriers to behaviour change required for a step change in humanity’s relationship with the ocean.
Challenge 10: Change humanity’s relationship with the ocean

Ensure that the multiple values and services of the ocean for human wellbeing, culture, and sustainable development are widely understood, and identify and overcome barriers to behaviour change required for a step change in humanity’s relationship with the ocean.

Restoring humanity's relationship with the Ocean

Strategic Ambition
To create enabling conditions and environments to support humanity to have the motivation, capability, and opportunity to behave in ways that ensure a healthy ocean

Does this high level ambition for 2030 resonate with you?
Priority Drivers of Pro-Ocean Behaviour

*Driver: a key factor that has a large influence on an outcome of interest

1. **Knowledge Systems**
   - Leveraging different ways of knowing about human-ocean connections and actioning this knowledge across all sectors of society.

2. **Education**
   - Using formal education in schools, as well as informal experiential learning (e.g., citizen science, museums, aquariums, and multimedia) to build connection.

3. **Communication**
   - Equipping people (from different user groups) with the tools, skills, and knowledge to communicate clearly about the values/services of the ocean to human well-being.

4. **Cultural Connections**
   - Recognizing how intergenerational interactions with the ocean (and local waterways, coastal areas, and sea ice) inform cultural identity, social values, and practices, and how these cultural relationships change and evolve over time.

What drivers do you feel are essential to ensuring societal behaviour and action that supports a healthy ocean?
Working Group 9

Challenge 9: Skills, knowledge and technology for all

Ensure comprehensive capacity development and equitable access to data, information, knowledge and technology across all aspects of ocean science and for all stakeholders.

Brian Arbic
Professor of Oceanography
University of Michigan

Edem Mahu
Senior Lecturer of Marine Biogeochemistry
University of Ghana
Working Group 9

PROGRESS

• Formed working group of about 20 members (> diversity in gender, geography, and career stage)
• Several online meetings with WG9 members
• Several online meetings with co-chairs only
• Generated long-list of key inequities, users, and user needs
• Created general outline of white paper
• Started to write white paper; will show the white paper now...

The Current Status: Unequal recognition, representation, and distribution of resources related to ocean science globally

KEY INEQUITIES

- Technological and Digital Divide
- Infrastructure and Monitoring Disparities
- Data Access and Ownership
- Data Quality and Standardization
- Knowledge generation and use

- Gender and Diversity Representation
- Educational Disparities
- Language and Communication Barriers
- Funding and Resource Allocation
- Political and Policy Barriers
- Resource Exploitation
Working Group 9

Addressing Key inequities

- Equitable Knowledge and Data Sharing
- Thoughtful Policy Development
- Co-design Projects through Interdisciplinary Teams
- Integrate Public and Private Sector Resources
- Assist Early Career Ocean Professionals
- Enhance Local Capacity
- Focus on Communities in Need
- International Collaboration

User Needs

- Funding
- Sustainable employment
- Sense of community
- Fit-for-purpose equipment
- Representation: Place in decision-making bodies
- Access to data, journal articles, and international meetings
- Training and Education
- Inclusive collaboration
- Access to technology, research vessels, and key infrastructure
- Local knowledge integration
- Acknowledgement and respect
- Policy and governance support
- Continuous monitoring and evaluation and feedback loops
- Elimination of inherent bias and stereotyping
- Private/ public partnerships to support sustainable employment
Challenge 8: Create a digital representation of the ocean

Through multi-stakeholder collaboration, develop a comprehensive digital representation of the ocean, including a dynamic ocean map, which provides free and open access for exploring, discovering, and visualizing past, current, and future ocean conditions.

Jan-Bart Calewaert
Lead Manager
Decade Coordination
Office for Ocean Data Sharing, IOC-UNESCO

Paula Cristina Sierra-Correa
Coordinator
Marine and Coastal Research Institute
‘Jose Benito Vives de Andreis’
## Working Group 8

### WHO WE ARE

A diverse, regionally representative group of individual experts as well as institutional members and representatives of relevant Decade Programmes, Actions and partners. +Observers from IOC&IODE

### WG8 IN NUMBERS

- 2 co-chairs
- 16 Working Group members
- 4 observers
- 4 brainstorming meetings (entire group)
- 2 drafting group sessions (sub-group)
- 1 briefing document
- 1 brainstorming document
- 1 White Paper Narrative
- 1 Supporting DCO (Ocean Data Sharing)

### OUR WORK SO FAR

Developed a White Paper Narrative addressing:

- What do we mean by Digital Representation of the Ocean?
- What is the time frame for the strategic ambition setting: from now to 2030? And beyond?
- Who are our users and what do they need?
- What content do we need to provide and by when?
- What tools & services should be in place by 2030? And beyond?
- Identifying needs from other Challenge WG’s and Actions
- Plan for elaboration and drafting white paper

### HOW CAN YOU PARTICIPATE/CONTRIBUTE?

- Ocean Decade webinars
- Ditto Digital Twins of the Ocean Conference: November 9-12 2023, Xiamen China and online
- Ocean Decade Conference in Barcelona in April 2024 - Participate in Ocean Decade Conference (Ch8: Session 3; 11/04/2024)
- Propose / implement / Contribute to Ocean Decade actions dealing with data/information sharing with a broader impact
- Promote, practice key messages of WG8
- Contact us:
  - Jan-Bart Calewaert ([ib.calewaert@unesco.org](mailto:ib.calewaert@unesco.org))
  - Paula Sierra ([paula.sierra@invermar.org.co](mailto:paula.sierra@invermar.org.co))
  - Decade Coordination Office for Ocean Data Sharing: [oceandatasharing@unesco.org](mailto:oceandatasharing@unesco.org)
Working Group 8

Process towards a Strategic Ambition Setting for Challenge 8 White Paper

**WHO ARE OUR USERS**
Everyone - diverse in expertise & area, leave no one behind
- professional (hands on)
- professional (not hands on)
- non-professional/public
- other 9 challenges are proxy users defining data & info needs (both content & services)

**WHAT DO THEY NEED?**
- easy access to ocean data & information (multidisciplinary)
- tools/services for accessing and sharing data, information and knowledge

**DIGITAL CONTENT NEEDS**
All data types relevant
Focus on **priority data products & underpinning data**
Global data-layers as drivers to pull in data
- Address data-gaps, agree on standards & improve interoperability
- Leverage existing communities
- Must be societally relevant (other challenges)
- Must be co-developed in a transparent process

Global layers must be **complemented with local case studies** (global south)

**DIGITAL SERVICES NEEDS**
1. Global Ocean **Data Discovery and Access Service**
2. Online user-friendly **Digital Atlas of the Ocean**
3. **Marine Knowledge exchange mechanisms**
4. **Help Desk** Service
5. **Capacity Development** / Sharing and **Training** facility

**NEXT STEPS**
- Agree on globally relevant data products: e.g., marine litter/pollution, MPAs, blue carbon,
- Elaborate service ideas, build on what exists / identify existing best practices
- Synergies with other WGs
- Incorporate feedback on strategic ambition
- Involve relevant Actions
- Draft White Paper
Challenge 7: Expand the Global Ocean Observing System

Ensure a sustainable ocean observing system across all ocean basins that delivers accessible, timely, and actionable data and information to all users.

Patricia Miloslavich
Program Lead
East Antarctic Monitoring Program, Australia Antarctic Division

Joe O’Callaghan
Director
Oceanly Science
<table>
<thead>
<tr>
<th>Name</th>
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<th>Country</th>
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<td>Erin Satterthwaite</td>
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<td>Irene Schloss</td>
<td>CADIC/SOOS</td>
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<td>Isa Olalekan Elegbed</td>
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<td>Sustainability of marine and coastal resources</td>
<td>Germany / Nigeria</td>
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<td>Jerome Aucun</td>
<td>SPC</td>
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<td>Integrated Marine Observing System (IMOS)</td>
<td>Ocean observing coordination, conservation and management of marine predators</td>
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<td>Emma Heslop *</td>
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<tr>
<td>Terry McConnell *</td>
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<td>Ocean observing coordination</td>
<td>Canada</td>
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(*) IOC/UNESCO coordination support
ACTIVITIES

- Established WG members – balancing expertise, geographic areas
- First meeting: 17 October 2023
- Topics discussed: background of the UN challenges and WG process, cross-pollination with other WGs, priorities for expansion of ocean observations, use of automated and low cost options, integrative approach, co-designing, resourcing, foundation of OceanObs19 papers, GOOS strategy, and planning of the Decade Collaborative Center for ocean observing.

SOME RECOMMENDATIONS

- High-level drafting (to fit in the established format/space)
- Reflect on priorities (societal part at the top) - use the GOOS delivery areas as the foundation for high level priorities
- Focus not only on "expanding" the observing system but on securing/strengthening the current system
- Articulating the importance of having best practices/standard operating procedures (SOPs) for all EOVs that are fit for purpose, as well as low-cost options associated to these SOPs
- Take the approach that a new funding model will be required - expanding from the traditional funding sources (involve a representative of one of these financial sectors in the WG)
- To reach out to other WGs to learn their specific needs for observational data

Next call: 2-3 November – assign writing teams
Challenge 6: Increase community resilience to ocean hazards

Enhance multi-hazard early warning services for all geophysical, ecological, biological, weather, climate and anthropogenic related ocean and coastal hazards, and mainstream community preparedness and resilience.
Working Group 6

Design ‘people-centred’ multi-hazard early warning systems

Characteristics:

- Stakeholder engagement
- Responsibility sharing
- Accessible communication
- Institutional capacity building

Design adaptation planning strategies to increase coastal resilience

OUTCOME: A safe ocean where life and livelihoods are protected from ocean-related hazards

Use the new data from the Ocean Decade to prepare updated plans and solutions, also in view of the Marine Spatial Planning processes
Working Group 6

Risk Assessment
1) Observational evidence of both hazards and impacts, merged topo/bathy
2) Numerical models of, and AI applied to, the hazards and impacts
3) Human activities data, economic indicators across sectors

Risk Reduction
1) Early warning systems for preparedness & response
2) Emergency response capacity
3) Advanced data management capacity
4) Staff and media training

Governance / Institutional / Social
1) Marine/Maritime Spatial Planning
2) Contingency planning and community partnerships
3) Track equity across time and space
4) Enhance Corporate social responsibility

Preliminary User Needs for Coastal Resilience Components
Challenge 5: Unlock ocean-based solutions to climate change

Enhance understanding of the ocean-climate nexus and generate knowledge and solutions to mitigate, adapt and build resilience to the effects of climate change across all geographies and at all scales, and to improve services including predictions for the ocean, climate and weather.
**Working Group 5**

15 members writing team from 13 countries, 9 female/6 male, all career stages, range of affiliations and expertise

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<th>Affiliation</th>
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<th>Group</th>
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<tbody>
<tr>
<td>Courtney McGeachy/Liliana Bastian</td>
<td>Ocean Visions</td>
<td>Decade Collaborative Center for Ocean Climate Solutions</td>
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<td>Stakeholder engagement</td>
<td>Norway/ China</td>
<td>Decade Actions etc</td>
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<td>Sonia Batten</td>
<td>PICES</td>
<td>North Pacific Marine Science studies</td>
<td>Canada</td>
<td>Decade Actions etc</td>
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<tr>
<td>Jean Pierre Gattuso</td>
<td>Sorbonne University</td>
<td>Multiple stressors/Carbon Dioxide Removal</td>
<td>France</td>
<td>Subject experts</td>
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<td>Richard Sanders</td>
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<td>Integrated Carbon Observing System</td>
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<td>Galen McKinley</td>
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<td>Ecologist, conservation, restoration</td>
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<td>User</td>
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<td>Cadi Ayyad University and ECOP Africa</td>
<td>Lawyer</td>
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<td>Jess Melbourne-Thomas</td>
<td>Commonwealth Scientific and Industrial Research Organization</td>
<td>Research into decision making / policy</td>
<td>Australia</td>
<td>User</td>
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KEY ISSUES

Mitigation approaches
• Develop marine renewable energy (windfarms, wave energy etc) as an alternative to fossil fuel derived energy
• Reduce marine pollution (nutrients, plastics etc)
• Restore and increase vegetation (seagrass, mangroves, saltmarshes, macroalgae)
• Marine Carbon Dioxide Removal
  ▪ Nutrient fertilization to enhance plant productivity including enhanced upwelling and seaweed farming
  ▪ Ocean Alkalinity Enhancement
• Carbon capture and storage

Adaptation approaches
• Increased ocean literacy / awareness
• Co-designed governance and co-operation between users including local and indigenous communities
• Improved risk reduction policies
• Improved predictive capability of ocean, climate and weather forecasts

PROGRESS & NEXT STEPS
• Met twice and drafted a long list of ‘user needs’
• Focusing on the text for the common structure of the white paper
• Draft ready for public review in January
Working Group 4

Challenge 4: Develop a sustainable and equitable ocean economy

Generate knowledge, support innovation, and develop solutions for equitable and sustainable development of the ocean economy under changing environmental, social and climate conditions.

Peter M. Haugan
Policy Director
Institute of Marine Research

Andrew Rhodes
Coordinator
High-Level Panel for Sustainable Ocean Economy
Working Group 4

1. Executive summary (1 page)
   1.1 Overview of the Ocean Decade Challenge
   1.2 Key findings and recommendations
2. Introduction (1 page)
3. Context (2-3 pages)
   3.1 Overview of current work in the Ocean Decade
   3.2 Importance and relevance of the Challenge for sustainable development
   3.3 Gaps and Barriers
      3.3.1 Climate change
      3.3.2 Institutional Inefficiencies
      3.3.3 Knowledge
      3.3.4 Finance
   3.4 Analysis of user needs and priorities

Guiding the Development of an Equitable and Sustainable Ocean Economy

- Active and diverse author group
- Agreed structure
- Written 50%
- Discussing key messages

An integral and holistic view of the sustainable use of ocean resources, not only emphasizing the economic value or ocean resources
Working Group 4

4. Strategic ambition setting (4 pages)
   4.1 Methodology for strategic ambition setting
   4.2 Definition of the strategic ambition for the Challenge
      4.2.1 Vision for 2030
      4.2.2 Knowledge generation and sharing
      4.2.3 Partnerships and resources
      4.2.4 Capacity development and exchange needs
      4.2.5 Technology and innovation solutions
      4.2.6 Integration, synergies and interdependencies with other Challenges

   5. Milestones and indicators (1 page)
      5.1 Key milestones to measure progress and success
      5.2 Indicators to track the achievement of the strategic ambition

«Ecosystem» interactions between government (planning / regulation), action (finance, private sector, society), and science (including practical and Indigenous knowledge)

Science → planning → finance
- Seek knowledge to explore opportunities, then plan sustainable ocean activities, then finance them

Planning → finance → science
- Set societal goals, then enable finance, then create demand for knowledge to sustainably implement

Ideas or input? Contact peter.haugan@hi.no
Working Group 3

Challenge 3: Sustainably feed the global population

Generate knowledge, support innovation, and develop solutions to optimize the role of the ocean in sustainably feeding the world’s population under changing environmental, social and climate conditions.

Vera Agostini
Deputy Director
FAO Fisheries and Aquaculture Policy and Resources Division

Erik Olsen
Head of Research
Research Group for Sustainable Development, Institute of Marine Research
Working Group 3

Sustainably feed the global population

Until now...

- Interdisciplinary Working Group
- Defined the scope, status and obstacles of Challenge 3
- Defined key users and their needs
- Identified key gaps:
  - Limited uptake of science in policy
  - Remaining science/knowledge gaps

Tigchelaar et al., 2022
What is the future we want (strategic ambition)?

An integrated approach to aquatic food systems

Knowledge transfer

Nutritious and sustainable aquatic food production and supply chain

Sustainable and equitable aquatic food consumption

Innovation

Greater inclusion of small-scale actors

Data

Solutions and pathways: Science/knowledge vs policy/governance

Next steps

- Draft White Paper!
- Incorporate feedback on strategic ambition
- Develop synergies with other WGs
- Involve relevant Ocean Decade actions
Challenge 2: Protect and restore ecosystems and biodiversity

Understand the effects of multiple stressors on ocean ecosystems, and develop solutions to monitor, protect, manage and restore ecosystems and their biodiversity under changing environmental, social and climate conditions.

Frank E. Muller-Karger
Professor of Oceanography
University of South Florida

Aileen TAN Shau Hwai
Professor of Oceanography
Universiti Sains Malaysia
Working Group 2

KEY MESSAGES / GOALS

● Strategic Ambition: enable wise management using timely, accurate information
● View and scope: “beyond 2030”
● Build on what exists and use existing global frameworks
  ○ Integrate research, policy, management in an operational framework
  ○ Focus on biodiversity indicators and best practices
    ■ SDG 14 Targets, Global Biodiversity Framework, national requirements
  ○ Co-design approach for restoration, conservation, and development efforts
  ○ Research to Operations: aim to forecast biodiversity and ecosystem services
  ○ Better link GOOS, CBD, GEO, national, private, monitoring and research
  ○ Best Practices:
    ■ Respectful, fair, ethical interactions
    ■ Coordinated, international capacity development focus: operations & jobs
    ■ Common language (linked Essential Variables: EOV, ECV, EBV)
    ■ Mobilize biology and ecosystems data, following FAIR/CARE principles
      ● Use standard data formats (e.g., Darwin Core, etc.), link databases
Working Group 2

**MILESTONES**

- Engage UN Global Compact:
  - Ocean Stewardship Coalition
- Commitment to a minimum set of common monitoring guidelines, Essential Ocean Variables and indicators (SDG, GBF, national)
- Commitment to best practices:
  - standard data formats (e.g., DarwinCore, etc.)
  - FAIR/CARE bio/eco data
- (Others)

**TIMELINE**

To be determined

**OPPORTUNITIES FOR PARTICIPATION**

- Propose / implement proactive Ocean Decade actions that have broader impact
- Participate in Ocean Decade Conference (Ch2: Session 1 - April 10: 15.00 – 18.00)
- Promote, practice key messages of WG2
- Link Vision 2030 working groups
- Contact co-chairs
  - Frank Muller-Karger (carlb@usf.edu)
  - Aileen Tan Shau Hwai (aileen@usm.my)
Challenge 1: Understand and beat marine pollution

Understand and map land and sea-based sources of pollutants and contaminants and their potential impacts on human health and ocean ecosystems and develop solutions to remove or mitigate them.

Rosemary Rayfuse
Emerita Scientia
Professor of International Law
University of New South Wales

Vanessa Hatje
Professor in Chemical Oceanography
Federal University of Bahia
Working Group 1

DEFINITION OF MARINE POLLUTION:

- Any substance or energy introduced by humans either directly or indirectly into the marine and estuarine environment from any source, which results or is likely to result in harm to marine life, hazards to human health, impairment of water quality or interference with marine activities (UNCLOS, 1982).
- Neither the intrinsic quality of the substance nor its source (i.e., terrestrial, marine or atmospheric) is of primary concern.
- Rather, it is the actual or potential impact that the introduction of a substance has on marine ecosystem services and functions that holds significance.

DEFINITION POLLUTANT:

- Pollutants (actual and potential) include: chemicals, biologically active substances, wastes, products like oil and gas and plastics – as well as light and noise.
- While our understanding of the ocean continues to improve, our scientific knowledge of the sources and impacts of marine pollution on the marine environment remains limited.
- Addressing these knowledge gaps is crucial for our understanding of marine pollution and its cumulative, long-lasting effects on human health and ecosystem functioning and lies at the core of WG 1’s work.

OUR CHALLENGE

Understand and map land and sea-based sources of pollutants and contaminants and their potential impacts on human health and ocean ecosystems and develop solutions to remove or mitigate them
Working Group 1

WHO WE ARE
A diverse and globally geographically representative group of individual experts as well as institutional members and representatives of Decade Programmes, Actions and Partners.

HOW YOU CAN PARTICIPATE
Ocean Decade webinars
Ocean Decade Conference in Barcelona in April 2024
Back to Blue Hackathon: November – December 2023

WHAT HAVE WE DONE

Our ‘short list of priorities’:
• **Datasets** – what is missing/what can we add?
• **Establishing baselines** and criteria for what/how constitutes a ‘risk’
• Establishing regional networks for **monitoring** and observation
• Developing **predictive models** to enable risk assessment of current, new and emerging pollutants (screening systems)

✓ **Identifying relevant elements** of these priorities for more detailed analysis and consultation
✓ **Establish milestones and indicators** by which success in meeting these priorities can be assessed
Q&A Session
10. Wrap-up & next steps

- Key takeaways
- Additional resources: Vision 2030 Webpage, UN Ocean Decade Conference Website, ...
- Call to action for active participation in the Vision 2030 process

Next Steps
- Consultation and review process
- Second Webinar (TBD)