



# Promoting PICES and ICES Leadership in the UN Decade of Ocean Science for Sustainable Development

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Session 1, PICES-2022, Busan, Korea

September 26<sup>th</sup>, 2022





## WHAT IS THE UN OCEAN DECADE?



## WHAT IS SMARTNET?

[OBJECTIVES & STRUCTURE]



## WHAT IS SMARTNET DOING?

[OUTREACH & NETWORKING]



## HOW CAN YOU GET INVOLVED IN SMARTNET?



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

<https://www.oceandecade.org>



**The United Nations Decade of Ocean Science for Sustainable Development is a framework** that brings stakeholders together across the globe to collaborate on ocean research and management in support of the Sustainable Development Goals for the 2030 Agenda.



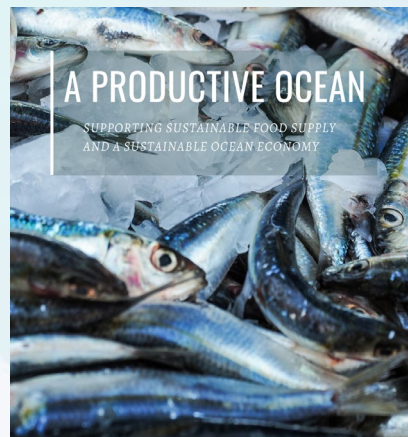
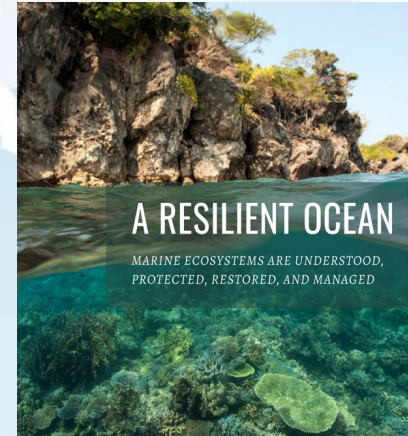
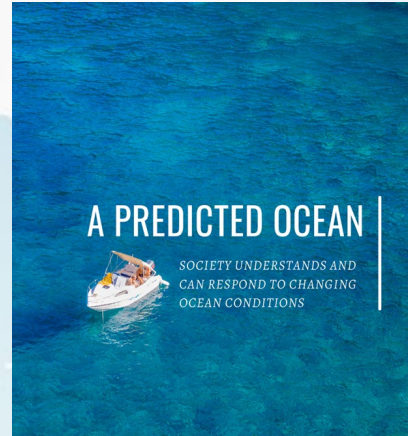
Slide courtesy of Kaitlen Lang (NOAA)



North Pacific Marine Science Organization

# Ocean Decade Outcomes

## “The Ocean We Want”



Slide courtesy of Kaitlen Lang (NOAA)



# Ocean Decade Challenges



Understand and beat marine pollution



Protect and restore ecosystems and biodiversity



Sustainably feed the global population



Develop a sustainable and equitable ocean economy



Unlock ocean-based solutions to climate change



Increase community resilience to ocean hazards



Expand the global ocean observing system



Create a digital representation of the ocean



Skills, knowledge, and technology for all



Change humanity's relationship with the ocean

[Ocean Decade Implementation Plan](#)

Slide courtesy of Kaitlen Lang (NOAA)





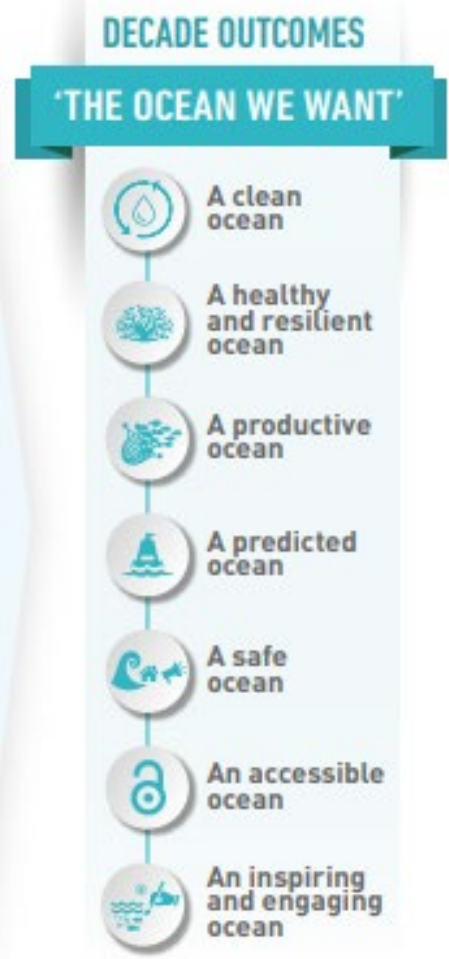
# Framework of the Ocean Decade

Moving from the ocean we have to the ocean we want



## 'THE SCIENCE WE NEED'

UN Decade of Ocean Science for Sustainable Development



© UNESCO



# Benefits of Participating in the Ocean Decade



- Brings formal recognition to endorsed Decade Actions
- Amplifies the work and makes it attractive to funders
- Serves as umbrella for and strengthens international/multi-stakeholder collaboration
- Leverages global and regional networks and communication channels
- Supports co-design and elevates voices of community members
- Helps to address global challenges and create solutions in the face of rapid change





# WHAT IS SMARTNET?







**ENDORSED AS OCEAN DECADE PROGRAMME - JUNE 2021!**

**smart NET**

**Sustainability of Marine Ecosystems through Global Knowledge Networks**



**2021  
2030**

United Nations Decade  
of Ocean Science  
for Sustainable Development



**ICES  
CIEM**



North Pacific Marine Science Organization

Lori Waters (PICES)



Promotion of ECOPs

Indigenous knowledge

Empowerment of Women

Greener Ocean Science

Science Communication

Involvement of SIDS



Sustainability of Marine Ecosystems through Global Knowledge Networks





Promotion of ECOPs

Indigenous knowledge

Science Communication

Empowerment of Women

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Greener Ocean Science

**Ambition**  
 Build on existing joint activities of **ICES** and **PICES** to facilitate research and knowledge generation for our members and beyond to share research, develop ideas and contribute to sustainable ocean solutions



Sustainability of M

through Global Knowledge Networks





## ICES/PICES Ocean Decade Steering Committee (IPOD)

Chaired by Steven Bograd and Sanae Chiba (PICES) and Liisa Perimaki and Jörn Schmidt (ICES)



### SMARTNET *PHASE I* OBJECTIVES

Draft a strategy that prioritizes **engagement** with early career ocean professionals, indigenous communities, developing nations, and recognizes the importance of promoting diversity and gender equity in our activities

Identify and engage **partner** organizations to ensure their full participation in the programme and in developing activities

Develop recommendations for new and existing Expert Groups to implement and maintain the Programme activities, and also **encourage and support** expert group participation in all aspects of the UN Ocean Decade





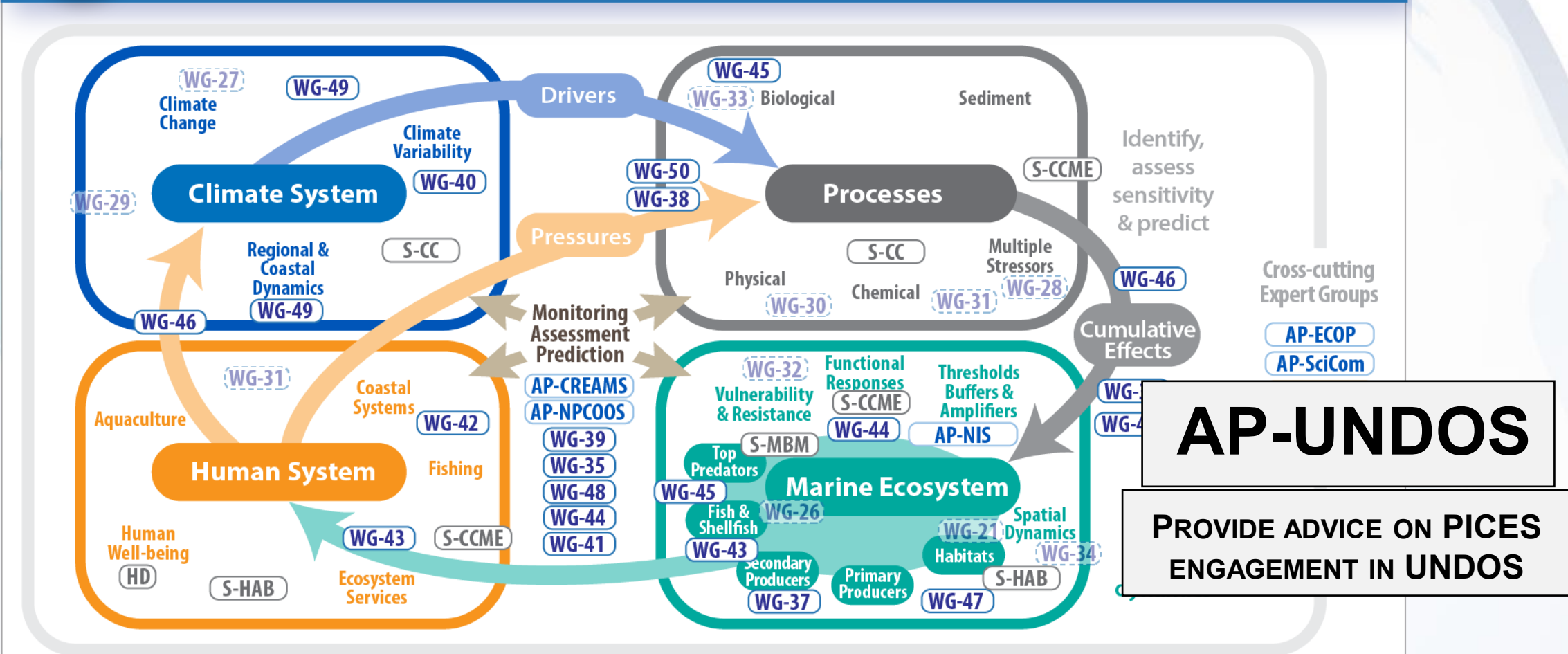
# WHAT IS SMARTNET?



## FUTURE Science Program

Forecasting and Understanding Trends, Uncertainty and Responses of North Pacific Marine Ecosystems

Collaborating to Understand the Predictability and Sustainability of Social-Ecological-Environmental Systems (SEES)

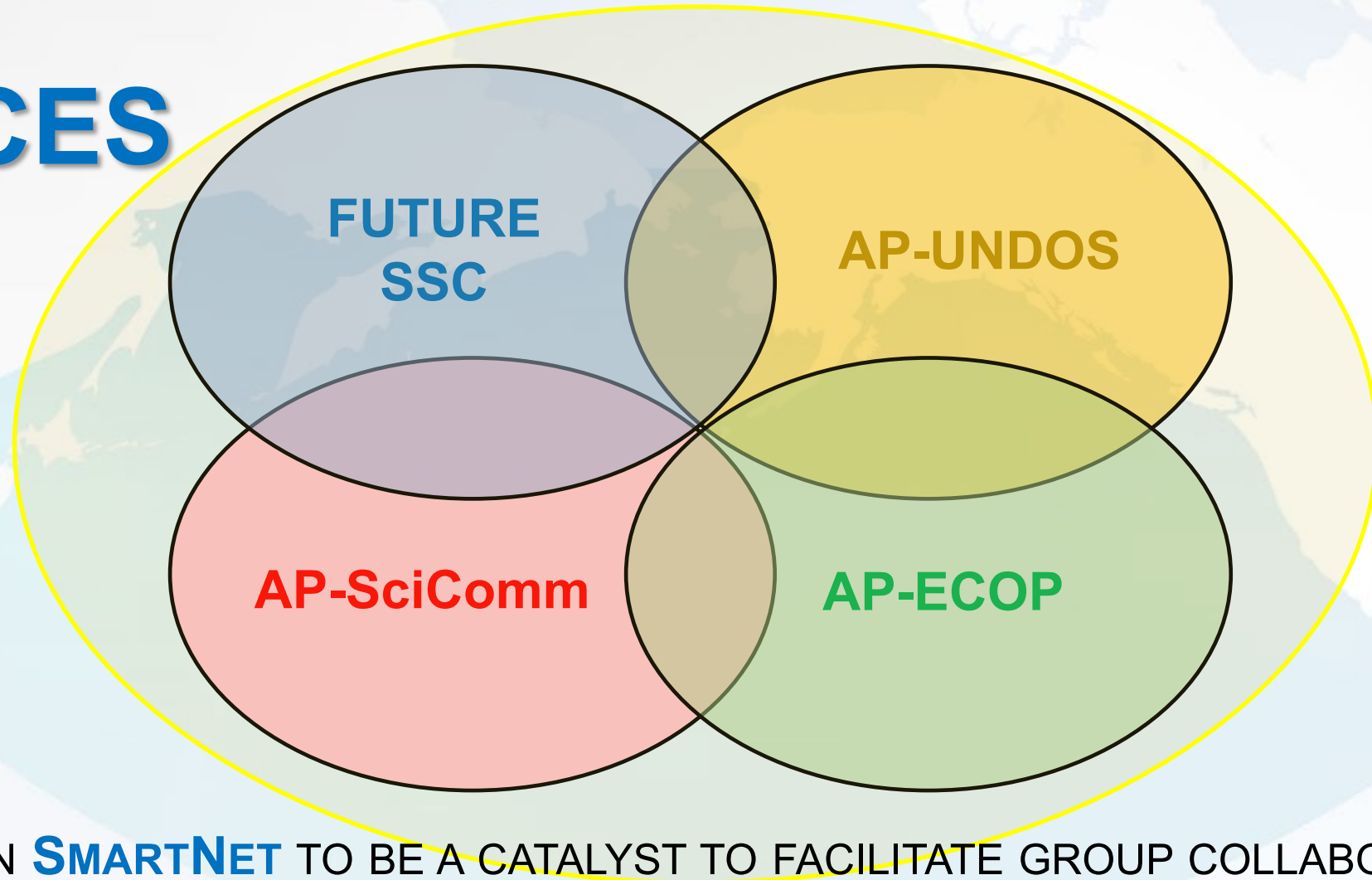




# WHAT IS SMARTNET?



**PICES**



ENVISION **SMARTNET** TO BE A CATALYST TO FACILITATE GROUP COLLABORATIONS





# An Invitation to Collaborate - UN Decade of Ocean Science Joint Activities



## Thematic and cross-cutting topics

- Climate Variability and Change
- Fisheries & Ecosystem-based Management
- Social-Ecological-Environmental-Systems (SEES) Dynamics
- Coastal Communities and Human Dimension

International Capacity Building & Enhancement

## Thematic Topics

- Early Career Scientist Development
- Gender Awareness, Diversity, Equity and Inclusion
- Engagement with Indigenous Communities

## ICES/PICES Joint Expert Groups

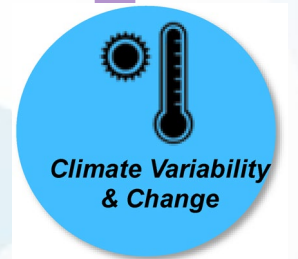
- Small pelagic fish ecology and sustainable management
- Ocean negative carbon emission
- Integrated Ecosystem Assessment for the Arctic Ocean
- Impacts of warming on growth rates and fisheries yield
- Climate change effects on marine ecosystems



Ecosystem Health & Biodiversity



Water, Food & Energy Security



Climate Variability & Change

**See details on our Websites!**

<https://www.ices.dk/community/groups/Pages/default.aspx#k=PICES>

<https://meetings.pices.int/members/working-groups>



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## Thematic and cross-cutting topics

- Climate Variability and Change
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### Cross-cutting Topics

- International Capacity Building & Enhancement
- Early Career Scientist Development
- Gender Awareness, Diversity, Equity and Inclusion
- Engagement with Indigenous Communities

### Framework

- Early Career Professionals support
- Science Communications Strategy
- Capacity Development

### Partners for wider community engagement

- Asia-Pacific Network for Global Change Research (APN)
- Ocean Network Canada
- Ocean Knowledge Action Network and many more...





# SmartNet Program Structural Landscape and Strategy



How can we help decision-making and promote ocean solutions?





# SMARTNET ACTIVITIES



North Pacific Marine Science Organization



# SMARTNET ACTIVITIES

## *1. NATIONAL SURVEYS*





# GLOBAL SURVEY ON GENERAL PUBLIC PERCEPTIONS ABOUT THE 7 OUTCOMES OF UNDOS

## *‘THE OCEAN WE WANT’*

Initiated by the ICES-PICES SG-UNDOS (now, AP-UNDOS):

**Makino Mitsutaku** & Juri Hori (Japan), Alan Haynie & Jörn Schmidt (ICES), Dan Lew & Erin Satterthwaite (USA), Olivier Thébaud & Nathalie Krien, Ifremer (France), and many others.





# GLOBAL SURVEY ON GENERAL PUBLIC PERCEPTIONS ABOUT THE 7 OUTCOMES OF UNDOS

## First step: Pilot study in France, USA and Japan, Jan 2023

- Discuss and identify direction of ICES & PICES's international science collaboration.
- Make recommendations for science policy (national, regional, int'l) to facilitate such collaborations. That will be the conclusions of our study (to be submitted to “**Policy Forum**” of **Science**).
- Repeat the global survey in 2026 (Year 6) and in 2031 (after the UNDOS) for an assessment of UNDOS impacts to the world.





# GLOBAL SURVEY ON GENERAL PUBLIC PERCEPTIONS ABOUT THE 7 OUTCOMES OF UNDOS

We can discuss commonalities and differences by:

**Ecological factors** (latitudes, ecosystem types, geography, biological productivities, biodiversity, etc.)

**Social factors** (political groups, religious groups, histories, education levels, GDP levels, etc.)



**The General Theory of the Ocean and Humans**





# SMARTNET ACTIVITIES

## 2. *OUTREACH & NETWORKING*





*SmartNet: Establishing Global Knowledge Networks to Achieve "A Productive Ocean"*

Ocean Decade Laboratories  
Laboratory 4: "A Productive Ocean"  
Satellite Activities | 31 May to 2 June 2022 CEST



2020-2030  
United Nations Decade  
of Ocean Science  
for Sustainable Development

## OBJECTIVES

- ❑ Introduce **SmartNet** to the Decade community. SmartNet seeks to establish a global knowledge network for ocean science by strengthening and expanding the collaboration of ICES, PICES and partner organizations.
- ❑ Provide **networking opportunities** with potential partner organizations, stakeholders, end users, and Decade-endorsed activities with common goals.
- ❑ Advance **progress around key themes**: climate change, fisheries and ecosystem-based management, social-ecological-environmental-systems, coastal communities and human dimensions, communications and capacity development.







# SmartNet Workshops



## **PICES 2022 Workshop, Sept 2022, Busan**

SmartNet: Promoting PICES and ICES Leadership in the UN Decade of Ocean Science for Sustainable Development

**ICES/PICES Joint Symposia 5<sup>th</sup> Effects of Climate Change on the World Ocean, April 2023, Bergen.**

**Workshop:** The Climate-Fisheries Nexus Within the UN Decade of Ocean Science for Sustainable Development: Co-Designing Actions and Solutions for a Productive, Healthy and Resilient Ocean. Co-convened by SmartNet, SUPREME, FishSCORE, Marine Life 2030.

## **PICES 2023 Session/Workshop (proposal submitted), Oct 2023, Seattle**

Sharing Capacity and Promoting Solutions for Marine Ecosystem Sustainability within the UN Decade of Ocean Science.





# HOW TO GET INVOLVED?





# Ocean Decade launches new Call for Decade Actions No. 03/2022

IOC-UNESCO, 15.04.2022



## THE OCEAN DECADE

The Global Stakeholder Forum

JOIN

### GET IN TOUCH

Contact us for more information about how you can be involved with The Ocean Decade.

CONTACT US

### USEFUL LINKS

[Privacy Policy](#)

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[Accessibility Statement](#)



<https://www.oceandecade.org>

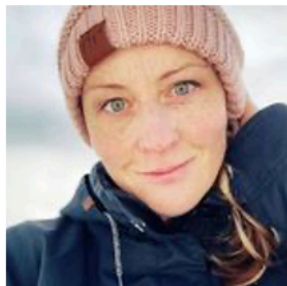
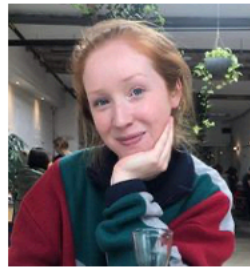


North Pacific Marine Science Organization

○ **Ocean Decade Collaborative Center for the Northeast Pacific will make the Ocean Decade a success in our region by:**

- Coordinating across Programmes and projects
- Catalyzing new Decade Actions
- Facilitating knowledge co-production and supporting stakeholder engagement
- Amplifying Decade Actions to build broad public awareness of the Ocean Decade
- Monitoring and evaluating Decade Actions and DCC activities





## NE Pacific DCC

Rebecca Martone, PhD, Executive Director

Kathryn Sheps, Project Coordinator; Facilitation & Co-Design;  
Monitoring & Evaluation

Kate Henderson, Project Coordinator; Communications

Nicole Smith, Project Coordinator, Cultural Heritage Initiatives

Naomi Boon, Project Coordinator, Ocean Observing; ECOPs

TBD, Project Coordinator, Protecting Monitoring and Restoring  
Biodiversity; Tula Science Coordinator

TBD, Indigenous Relations Liaison

## Tula Foundation

Eric Peterson & Christina Munck (Co-directors)

Bridget Latham, Chief Financial Officer

Ray Brunsting, Chief Technology Officer

Other Admin staff

Tula's Hakai Institute Science staff

Tula's Hakai Media team & Hakai Magazine

Tula's Quadra Center for Coastal Dialogue

**Advisory Committee (15 representatives across NE Pacific)**





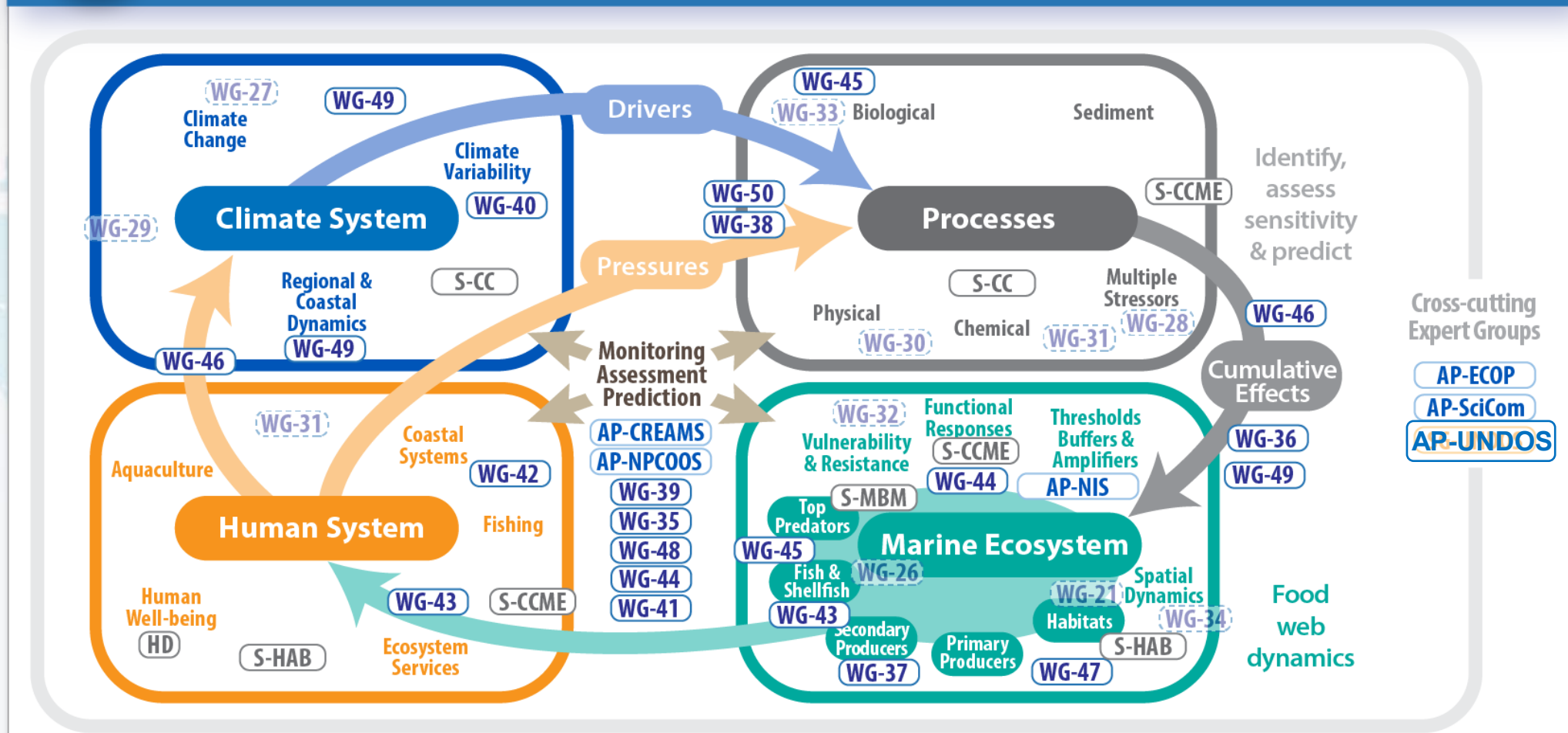
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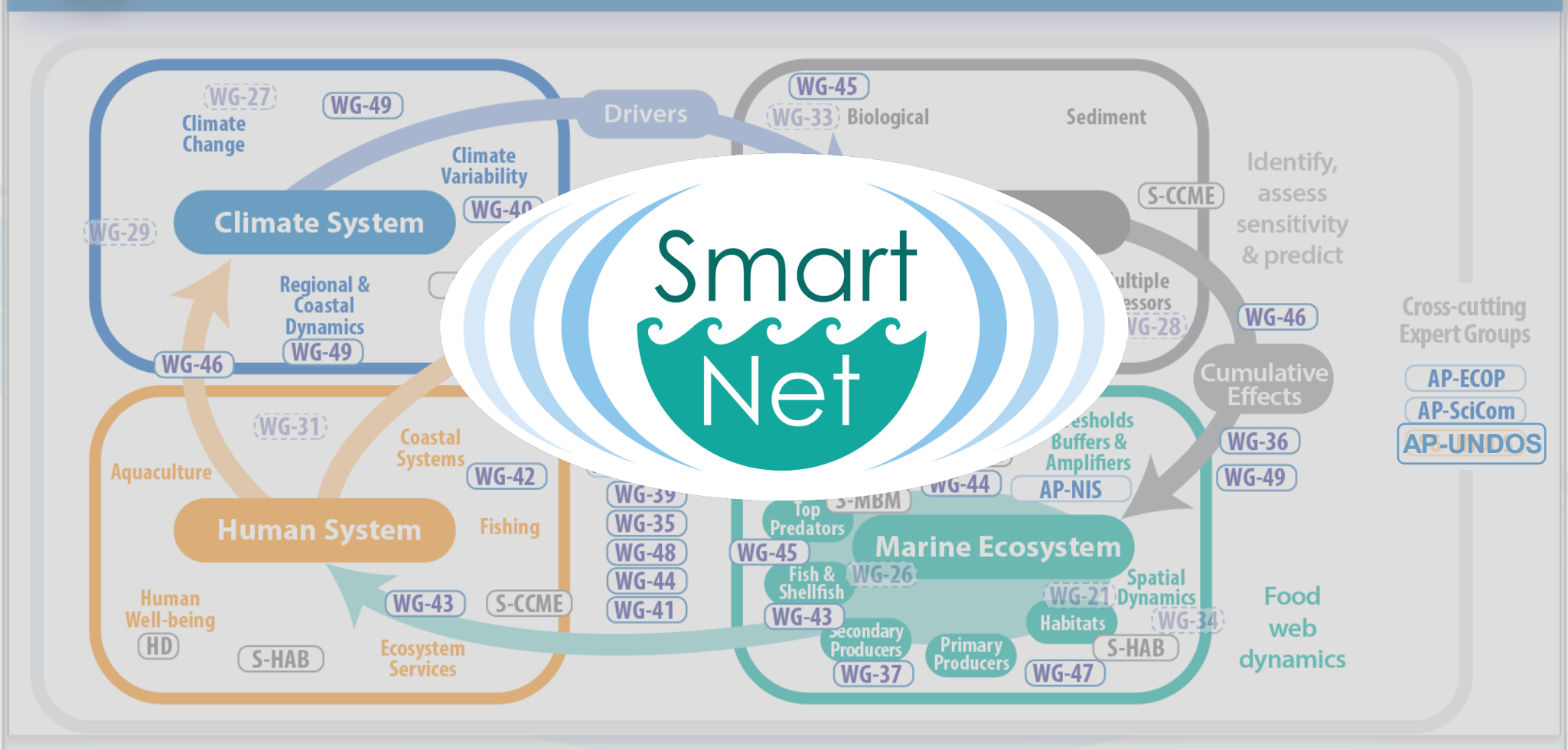
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## Building Local Warning Networks for the Detection and Human Dimension of Ciguatera Fish Poisoning in Indonesian Communities

- Co-design of science with local communities
- Involvement of local community in data collection, dissemination and use
- Sharing and developing capacity
- Solution-focused



<https://meetings.pices.int/projects/Ciguatera>







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1. Integrate your PICES activities within SmartNet;  
propose new Working Groups
2. Participate in & contribute to SmartNet workshops and  
events
3. Facilitate outreach to your networks within and outside  
of PICES [ECOPs, non-Convention countries]
4. Consider Decade endorsement of SmartNet Projects  
& Activities

*Talk to Sanae and Steven!*





# LET'S HEAR FROM PICES SCIENTISTS

HANNA NA



HANNAH LACHANCE



SANAE CHIBA



STEVEN BOGRAD

