

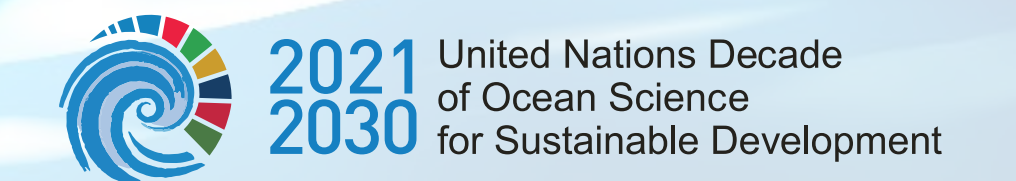


PICES and ICES introduce an UNDOS Program entitled SmartNet: Sustainability of Marine Ecosystems through global knowledge networks

Steven J. Bograd (PICES), Sanae Chiba (PICES), Jörn Schmidt (ICES), Liisa Peramaki (ICES)



PICES and ICES are established intergovernmental marine science organizations with a network of scientists, significant knowledge-generation and sharing capacity. PICES and ICES comprise 23 northern hemisphere member countries as well as organizations with formal PICES/ICES affiliations, including southern hemisphere countries, UN bodies, Regional Fisheries Management Organizations, and parties to Regional Seas Conventions.



During the UN Decade of Ocean Science for Sustainability, PICES and ICES, have established SmartNet: a UN-endorsed global knowledge network for ocean science.

SmartNet will:

- Implement a coordinated global network to support production and distribution of knowledge focused on marine social-ecological systems and services they provide.
- Facilitate ecosystem-based science to create tools and assessments that support evidence-based decision-making, including cumulative effects evaluation and trade-off analyses.
- Provide ecosystem, fisheries, and aquaculture assessments to: describe ecosystems; identify human pressures and impacts on key ecosystem components; and advance best practices in the inclusion of traditional, local, and stakeholder knowledge.
- Generate clear science communications targeted at achieving solution-based goals for the “Ocean We Want,” through state-of-the-art evidence-based advice to meet the conservation, management, and sustainability goals of stakeholders.
- Implement joint expert groups and facilitate symposia that prioritise accessibility and increase scientific collaboration with diverse partners, under-represented communities, indigenous populations, and early career ocean professionals.
- ICES and PICES coordinate diverse efforts to understand, estimate and predict climate change impacts on marine ecosystems, addressing UNDOS themes to: assess global implications of climate change on the spatial distribution and forecasting of fish and fisheries; create seasonal to decadal predictions of marine ecosystems; develop and evaluate socio-economic scenarios; and develop scientific evidence to support decision-making. Our current collaborative efforts will be extended in cooperation with partners, i.e. regional organisations, stakeholders and member countries.

Please contact us if you're interested in becoming a SmartNet partner. The SmartNet fact sheet is available on the UNDOS website.



Sustainability of Marine Ecosystems through global knowledge networks (SmartNet)

Lead Institution
International Council for the Exploration of the Sea (ICES) & North Pacific Marine Science Organization (PICES)

Key Partners
SmartNet will facilitate partner engagement by developing ICES and PICES partners and through creation of global knowledge networks.

Decade Challenges Addressed
CHALLENGE 1: Understand and learn marine policies
CHALLENGE 2: Protect and restore marine biodiversity
CHALLENGE 3: Sustainably feed the global population
CHALLENGE 4: Develop a sustainable and resilient ocean
CHALLENGE 5: Uncover ocean-based solutions to climate change
CHALLENGE 6: Ocean health and ecosystem integrity
CHALLENGE 7: Support the Global Ocean Cleanup System
CHALLENGE 8: Create a digital ocean
CHALLENGE 9: Skills, knowledge and capacity for the future
CHALLENGE 10: Change human impacts on the ocean

Ocean Basins
North Atlantic, Indian, South Atlantic, Southern Ocean, Arctic, Southern Ocean

Summary
SmartNet will establish a global knowledge network (GKN) for ocean science to investigate and understand the interconnectedness of marine ecosystems and the human impacts on them. The network will support and coordinate research, monitoring, and management activities across the globe, focusing on the most pressing challenges facing the ocean. The network will also facilitate the exchange of knowledge and best practices between scientists, managers, and the public. The network will be led by ICES and PICES, with other organizations and individuals as partners. The network will be open to all who are interested in ocean science and management.

Priority Activities (first 2 years)
• Establish ICES-PICES Expert Groups on key themes on marine social-ecological systems
• Facilitate stakeholder outreach and partner engagement in SmartNet activities
• Participate in Ocean Decade Laboratories and Communities of Practice
• Publication of SmartNet article for Eco-Management
• Co-sponsor ICES/PICES Marine Science Symposium, 2022, Portugal
• Co-sponsor 4th ICES/PICES Early Career Scientists Conference, May 2022, Canada
• Co-sponsor Small Pelagic Fish Symposium, Nov 2022, Portugal
• Co-sponsor ICES/PICES Joint Annual Meeting, Feb 2023, USA

SmartNet will reach beyond our established networks to advance and align scientific understanding of marine ecosystems and the services they provide to generate state-of-the-art advice and evidence for meeting conservation, management, and sustainability goals.

ICES/PICES Ocean Decade Steering Committee

Our natural capital and infrastructure make us ideally positioned to focus scientific efforts to meaningfully contribute to the UNDOS. Contact us to participate and collaborate in SMARTNET! Learn more in the eco magazine special UNDOS issue: <https://tinyurl.com/yvywpyjf>

Championing Ocean Diversity

Introducing the SMARTNET Ocean Knowledge Network
Accessible, Diverse, and Solution-Oriented

By Steven J. Bograd, Sanae Chiba, Jörn Schmidt, and Liisa Peramaki

SmartNet is a global knowledge network for ocean science, established by the International Council for the Exploration of the Sea (ICES) and the North Pacific Marine Science Organization (PICES). The network is designed to support and coordinate research, monitoring, and management activities across the globe, focusing on the most pressing challenges facing the ocean. The network will be led by ICES and PICES, with other organizations and individuals as partners. The network will be open to all who are interested in ocean science and management.

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PICES / MAFF MarWeb project team and students releasing juvenile Olive Ridley sea turtles on the Pacific coast of Guatemala. <https://meetings.pices.int/projects/marweb>



Please visit the SmartNet website for additional updates: <https://www.ices.dk/about-ICES/global-cooperation/Pages/Smartnet.aspx>

