



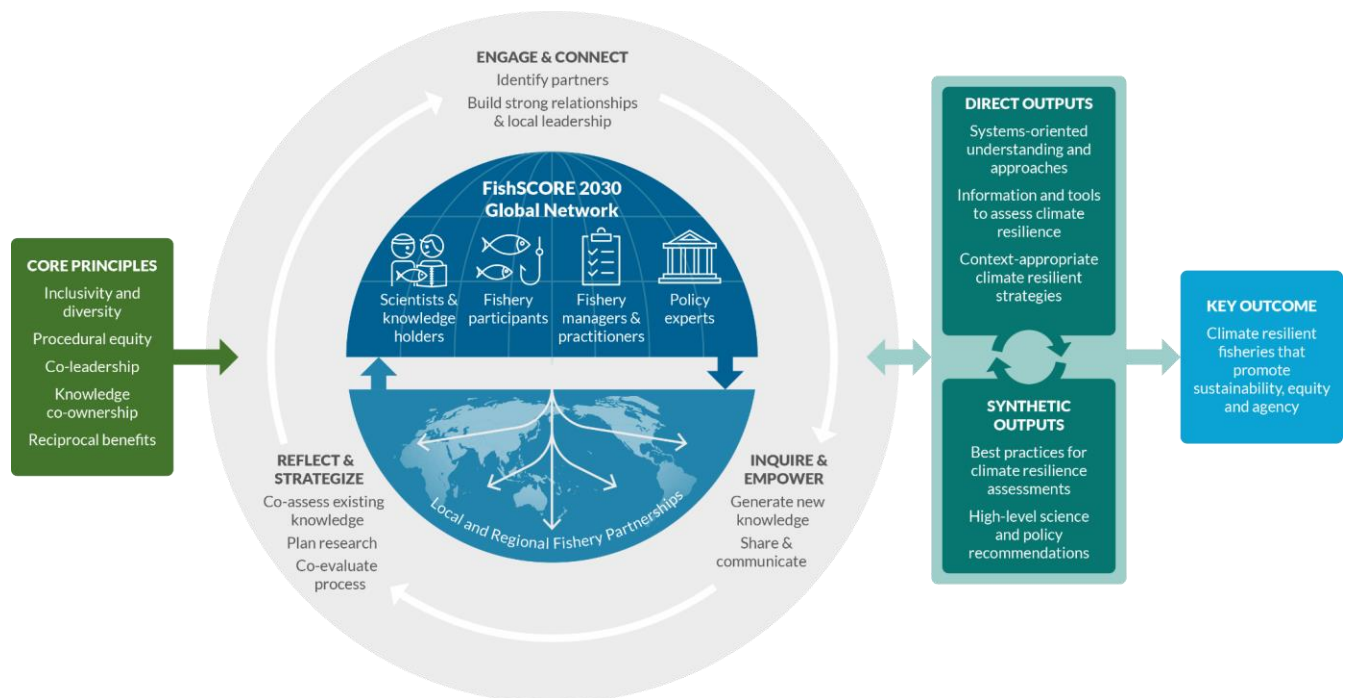
# Implementation Plan

## for the UN Ocean Decade Endorsed Program, *FishSCORE2030: Fisheries Strategies for a Changing Ocean and Resilient Ecosystems by 2030*

June 17, 2024

### Program Summary

Fisheries Strategies for Changing Oceans and Resilient Ecosystems by 2030 (FishSCORE2030) is working to sustain fisheries as a global source of food and jobs in the context of climate change, while protecting ocean ecosystem health and enhancing equitable benefits from fisheries. FishSCORE2030 is built on the core principles of inclusivity, equity, and diversity that will inform and strengthen collaborations and partnerships. The program will result in direct outputs such as context-specific climate resilient strategies and synthetic outputs such as science and policy recommendations. A key outcome of the program and the FishSCORE2030 Network will be the development and implementation of practices that increase climate resilience in fisheries, while simultaneously increasing the sustainability of marine ecosystems and food systems as well as the equity and agency of the people and communities that rely on them.





## Background

Fisheries operate at the intersection of oceans and societies, and future fisheries will be shaped by climate change. Transitions within marine fisheries are needed to not only adapt to climate impacts but also to assist in the transformation to more equitable systems that confer fishery system resilience. Resilience is defined as the capacity to prepare for, resist, cope with, recover from or adapt to a given stressor to ensure the sustainability of marine ecosystems, fishery resources and human benefits. Marine fisheries cannot only react or respond to climate change impacts to maintain the status quo but must also have the potential to proactively adapt and transform to a state that enhances sustainability, equity, and wellbeing.

These transitions will benefit from sharing data, local experiences, predictive models, forward-looking information, scalable application approaches, diverse types of knowledge and ways of knowing, and tailored adaptation strategies. Fisheries systems are experiencing impacts and change from multiple stressors in addition to climate change. By understanding and addressing these impacts holistically, FishSCORE2030 aims to ensure sustainable resource use, continued provision and equitable distribution of benefits, improved adaptive capacity, reductions in hunger and poverty, and greater capacity for diverse fishery participants to take part in climate adaptation planning.

The FishSCORE2030 approach encourages consideration of a broad suite of ecological, social, economic, governance, and cultural features that influence how climate impacts may affect a fishery and the ability of the fishery to respond to change. This supports the inclusion of Indigenous and local knowledge in the development of projects and recommendations. FishSCORE2030 facilitates collaborations that enable meaningful knowledge exchange by ensuring that scientific information is tailored for applied needs and local knowledge is valued as equivalent to scientific data.

In this way, FishSCORE2030 supports *knowledge co-production*, which we define as an iterative, collaboration-building process that brings together multiple participants with different types of knowledge and ways of knowing to develop a systems-oriented understanding of the impacts of climate change on diverse marine fisheries. Through the program, we aim to support on-going and new work at local, regional, national and international scales that will identify potential solutions to climate resilience in fisheries and elevate local knowledge and experiences in decision making. This co-development approach strengthens partnerships and builds capacity for forward-looking planning in marine fisheries across the globe, including large-scale industrial and small-scale artisanal fisheries.

The goals of the FishSCORE2030 program are to:

- (1) Provide opportunities for knowledge co-production and new collaborations through a network of scientists, fishery participants, resource managers, community practitioners, and policymakers,



- (2) Strengthen information exchange, existing capacities, and approaches for identifying and employing climate resilience strategies in diverse types of fishery systems,
- (3) Co-produce information, strategies, and equitable recommendations to improve climate resilience in fishery systems across scales,
- (4) Synthesize key climate resilience knowledge gaps, issues facing marine fisheries and fishing communities, and current assessment and planning efforts, and communicate these insights to support resilience efforts and improve tools and frameworks, and
- (5) Support the implementation of policies, processes and solutions to advance climate resilience at local, regional, national, and international scales.

## Contributing to the UN Ocean Decade

The mission of the UN Decade of Ocean Sciences is to enable “*Transformative ocean science solutions for sustainable development, connecting people and our ocean*”. FishSCORE2030 aims to support this mission by advancing climate resilience in fisheries of various types and global locations. Building resilient fisheries is essential for ensuring the continued flow and equitable distribution of benefits, such as delivery of nutritious foods, realization of economic gains, and maintenance of cultural traditions. These benefits will help achieve many of the UN Sustainable Development Goals, including supporting healthy marine ecosystems and fisheries (SDG 14), food security (SDG2), poverty reduction (SDG1), and human health and well-being (SDG3).

As an endorsed UN Ocean Decade program, FishSCORE2030 is an umbrella for endorsed projects and activities with similar objectives or synergistic goals. While FishSCORE2030 is not able to provide funding for aligned projects, it will support the existing goals of aligned projects by providing opportunities to present their work to wider audiences, creating new collaborations, and participating in larger synthesis efforts that examine different resilience approaches, thereby encouraging their overall success.

Together with the program’s aligned projects, FishSCORE2030 aims to contribute to the Ocean Decade by increasing equitability and inclusion for all voices in management of fisheries and decision-making systems in order to improve the development and implementation of climate resilience strategies.

## Resilience

This implementation plan and other public materials of the FishSCORE2030 program use terms that can be defined or interpreted differently. Central to FishSCORE2030 is the term *resilience*, which is defined to encompass the suite of actions that help bolster the natural and human system to deal with past, current and future changes in the system to ensure the sustainable delivery of benefits. FishSCORE2030 holds as a central premise that resilience is based on increasing equitability and inclusion in order to ensure that goals account for the needs of a diverse set of



actors, tradeoffs associated with decisions are appropriately assessed, and benefits are equitably distributed.

We do not aim to use terms in a prescriptive way to apply to all fisheries and contexts. We acknowledge that fisheries are experiencing and will respond to the impacts of climate change in different ways.

## **Aims**

FishSCORE2030 will form a network of collaborators from across the globe to develop the knowledge base needed to sustain resilient marine fisheries in changing oceans. This program will integrate transdisciplinary knowledge from diverse sources into new understandings of how climate change is affecting and will continue to affect marine fisheries at local to regional scales, and moreover, how healthy marine ecosystems and resilient fisheries can be achieved in the context of these changes.

Spanning a diversity of marine fisheries will ensure that our work helps advance equitable processes and outcomes across geographic and contextual settings, including in countries and societies that have limited capacity for collecting and accessing fishery and climate data or conducting marine science research. Moreover, local and regional projects will engage relevant or interested fishery participants to ensure their knowledge and needs are integrated into our work. Specifically, FishSCORE2030 acknowledges that issues of equity and inclusivity, particularly of groups that have been historically or are presently excluded by structural systems, directly impact the ability of fisheries, their socio-economic systems, and fishing communities to respond to climate change and other impacts. To this end, FishSCORE2030 will advance work that supports equity among individuals and groups with different roles, genders, capacities, resources, and power in order to facilitate climate resilience that enhances equity and wellbeing.

## **Approach**

The ability to understand and plan for climate resilience in ways that engage diverse participants will be important for identifying pathways to sustain fishery resources, provide food and income for communities, and ensure greater equity in sharing responsibilities and benefits associated with marine ecosystems and fisheries. To date, climate considerations in fisheries management have largely focused on how climate conditions may alter fish stocks and appropriate harvest levels; however, changes in marine ecosystems and the impacts on fished species have cascading effects on fishers, marine resource dependent communities, their economies, and how fisheries are managed. The FishSCORE2030 approach encourages consideration of a broader suite of ecological, social, economic, governance, and cultural features that influence how climate impacts may affect a fishery and the ability of the fishery system to adapt to change. These complex interactions require transdisciplinary efforts to fully understand climate impacts and opportunities for resilience within a given fishery, and to create effective recommendations and solutions.



To support climate resilience in fisheries systems, FishSCORE2030 will use the approach of knowledge co-production as an iterative, collaboration building process that brings together multiple sources and types of knowledge to develop a holistic understanding of the impacts of climate change on diverse marine fisheries and identify potential solutions. This includes the incorporation of Indigenous and local knowledge and knowledge-holders in the development of projects and recommendations.

An approach based on knowledge co-production is specifically relevant when considering the impact of climate change on fisheries. Scientific information, place-based knowledge, socio-economic understanding, and management experience are needed together to develop an understanding of change and potential resilience actions. Local and indigenous knowledge of fishery systems contribute long-term perspectives that provide a deep understanding of drivers, patterns, and impacts of changes, as well as real time observations of changes at scales that are not easily observed by most scientific surveys. In complement, scientific data and modeling can provide a larger context for interpretation and explanation. Local perspectives on goals, resources and capacities is essential to determine best approaches to implementation of particular strategies for building and maintaining resilience. FishSCORE2030's co-production approach will facilitate information exchange among partners with wide-ranging experience in order to increase the understanding of local and regional fisheries systems and the impacts of climate change, refine resilience strategies within specific fisheries, and advance science and policy recommendations appropriate to a given fishery and its economy, community, and governance systems. This co-development and application approach will strengthen partnerships and capacity for forward-looking resilience planning in marine fisheries across the globe, including industrial and small-scale fisheries.

## **Program Evaluation**

FishSCORE2030 will rely on iterative, participatory and collaborative processes for evaluating the program's success. At the outset, evaluation will be applied through review by a Strategic Advisory Board of the implementation plan and activities set forth to advance FishSCORE2030. This review will consider adherence to the principles of interdisciplinarity and co-production through the process of collective leadership in the global FishSCORE2030 Network and fishery partnerships, as well as assess the effectiveness of feedback between the leadership and participants. The outputs, impacts, and processes will be considered iteratively through periodic reviews that will guide subsequent two-year work plans for the program. Finally, a summative evaluation at the conclusion of the UN Ocean Decade will assess the program's achievements and provide recommendations to maintain collaborations and the FishSCORE2030 approach.

## **Objectives**

Through transdisciplinary collaborations and partnerships with fishers, resource managers, community practitioners, and policymakers across fisheries sectors and contexts, FishSCORE2030 will develop and apply information needed to support decisions, plans, and policies that will enhance the resilience of marine fisheries to climate change. Acknowledging



that fisheries of different scales and types are experiencing the impacts of climate change in different ways, the FishSCORE2030 program will advance work in various fishery types and regions with the goal of understanding the unique and shared experiences of working to implement climate resilience strategies.

These aims will be achieved through:

- I. Collaboration building and knowledge co-production;
- II. Information exchange and capacity strengthening;
- III. Local and regional efforts and advancement of equity;
- IV. Synthesis and communication; and
- V. Providing actionable practices for policy and management.

Actions under each of these objectives are detailed below.

### **I. Collaboration Building and Knowledge Co-Production**

As a primary objective, FishSCORE2030 aims to build collaborations among diverse partners to support climate resilience decision-making and planning in fishery systems at local and regional scales, and to assess fisheries strategies employed in diverse settings to understand commonalities that may be useful on even wider scales. We aim to foster these collaborations through:

- the establishment of the FishSCORE2030 Network to facilitate information exchange and collaboration building,
- the co-development of knowledge, research, and products (e.g., case studies, synthesis papers, policy briefs, data resources, and support tools), and
- the iterative refinement of program plans and activities.

Central to accomplishing the goals of FishSCORE2030 is the establishment of an international network of collaborators to share and advance climate resilient fisheries strategies and frameworks for their implementation. Supporting climate resilient fisheries requires linking climate and social-ecological system change to ecological, social and economic outcomes. As such, the FishSCORE2030 Network will include scientists spanning a range of disciplines as well as policy practitioners, fishers and industry members, community practitioners, fisheries managers, and others with knowledge and experience in sustainable fisheries. The FishSCORE2030 Network will provide interdisciplinary and transdisciplinary knowledge to identify and implement practices for assessing:

- how marine ecosystems and resource-based enterprises and households will be impacted by climate change and global efforts to reduce CO<sub>2</sub> emissions,
- features of fishery systems that may be vulnerable or resilient to these impacts, and
- how specific fishery systems can prepare for and adapt to the projected changes.

Such information is necessary for achieving desired outcomes such as conserving marine ecosystems, ensuring sustainable and equitable resource use, and maintaining or enhancing the societal benefits derived from fisheries.



## II. Information Exchange and Capacity Strengthening

FishSCORE2030's capacity strengthening objectives focus on three overarching activities:

- creating opportunities to facilitate information exchange and learning,
- supporting collaborative projects and partnerships,
- encouraging the exchange of results and local/regional experiences to scale local lessons up to a global understanding of climate resilience in fisheries.

FishSCORE2030 will provide a forum for information exchange and knowledge co-production through workshops, seminar series, and virtual meetings that will inform scientific research, fisheries practices, climate-forward policy, and the development of climate resilient strategies. We will build the FishSCORE2030 Network from an established group of collaborators participating in an international working group on Climate Resilient Fisheries<sup>1</sup> and will expand participation to include fishery participants, scientists, policymakers, development agencies, management, and community practitioners from diverse fishery contexts (e.g., industrial and small-scale, developing and developed nations).

FishSCORE2030 will provide an opportunity to increase collaborative work and communication across geographies and disciplines to develop information and design frameworks for assessing and enhancing climate resilience in local and regional marine fisheries. Additionally, it will help catalyze collaborative projects, connecting members from across sectors, geographies, and areas of expertise to carry out climate vulnerability and resilience assessments and climate-forward planning. These collaborations will build the capacities of all individuals involved in a project by expanding their working networks and providing a wider range of perspectives and technical expertise.

## III. Local and Regional Efforts & Advancement of Equity

FishSCORE2030's objectives to support local and regional efforts center on the following core activities:

- synthesizing current knowledge and resources and ensuring equitable access to this information,
- connecting global ocean science to societal benefits at regional and local scales,
- facilitating collaborations to carry out on-the-ground projects,
- supporting learning opportunities among different local and regional efforts through the FishSCORE2030 Network and the Ocean Decade framework, and
- applying the experiences and results from different efforts to refine and revise climate resilient fisheries assessment tools.

Through the relationships developed within the FishSCORE2030 Network, we aim to advance both new and on-going efforts to support research, adaptive decision-making and planning in fishery systems. Through local and regional engagement, collaborators will advance strategies to

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<sup>1</sup> <https://snappartnership.net/teams/climate-resilient-fisheries/>



strengthen fisheries systems' resiliency so that they are able to not only respond to climate impacts, but also operate in changing conditions in ways that advance the equity and well-being of all fishery participants. These include the potential for achieving multi-dimensional outcomes such as ecosystem conservation goals, social-economic objectives, and sustained and equitable flows of benefits. Because fisheries are often experiencing the impacts of climate change together with additional compounding issues such as habitat loss and degradation, competing marine uses, consolidation of fishing effort, and loss of fishing rights, FishSCORE2030's efforts will aim to holistically evaluate and move forward resilience strategies.

These efforts and projects will be unique in their aims and outcomes. The following are examples of projects that may be supported; however, the needs of different fisheries and communities will determine the best-suited efforts to advance resilience. Projects may support multidisciplinary ocean and fisheries science expertise to advance observations, models, and frameworks for evaluating climate impacts, vulnerabilities, resilience attributes, capacities, and opportunities in specific fisheries. Other projects may work with local and regional practitioners to conduct benchmark assessments of resilience to projected climate impacts and evaluate actionable strategies for enhancing resilience, including uncertainty considerations. The program will also support efforts and research to understand and enhance the equity and inclusion of fishery system participants in planning and management, specifically of groups that have been historically marginalized.

In all local and regional activities, FishSCORE will be attentive to procedural equity in determining who is invited to participate in activities and to distributional equity when evaluating climate impacts and resilience strategies. When appropriate, FishSCORE2030 can help support the engagement of local and regional efforts with fishery management or non-governmental organizations. This arrangement will help broaden the FishSCORE2030 Network of contacts that may be involved in resilience assessments, planning, and management, which will provide a pathway towards implementing climate resilience actions and foster new experiences and networks for historically marginalized individuals.

#### **IV. Synthesis and Communication**

FishSCORE2030 will develop and publicly provide resources to inform climate resilient fisheries strategies through:

- resources that can be used to support climate resilient fisheries,
- examples of how effective resilience strategies have been implemented in diverse fisheries, and
- synthesis papers, policy briefings, and summary reports that reflect on the commonalities and differences among project approaches, outcomes and recommendations

The scientific advances and information generated by the FishSCORE2030 Network will be translated to actionable climate-ready strategies, data, products, tools, protocols, and policies for use in local and regional fisheries. Through partnerships with fishery managers and community





practitioners, the program aims to contribute to additional outcomes such as the local reduction of poverty and hunger, improvement of nutrition and health outcomes, and more equitable distribution of benefits through fishery systems.

To achieve these goals, synthesis efforts will evaluate the scalability and transferability of experiences across diverse fisheries to identify conditions that support resilience, adaptation, and innovation. High-level findings over the course of the program will be synthesized in multiple formats for diverse users, including publicly-accessible summary materials, scientific papers and data, and policy and development guidance documents.

For scientific efforts, FishSCORE 2030 is deeply committed to communicating science in ways that are transparent and reach directly into industry, policy, and community channels. Authors of scientific publications arising from this work will be expected to include local practitioners as co-authors and will be encouraged to publish their work on open-science platforms, with the financial support of the program if needed and feasible. The data, results, and information produced will be provided through easily accessible interfaces, intuitive decision-support tools, and incisive printed materials honed to the needs of local and regional fishery participants, managers, and other practitioners. For example, information on climate-resilient fisheries will be contributed to the UN Food and Agriculture Organization's knowledge sharing platform for small-scale fisheries (SSF Hub). Multiple avenues will be pursued to widely communicate results to public, management, donor, conservation, development, and policy audiences through, for example, information, tools, and approaches for building and maintaining climate resilience.

## **V. Providing Actionable Practices for Policy and Management**

FishSCORE2030 aims to support the near-term adoption of actionable practices and policies in fisheries activities and fisheries management. This will be accomplished through the formation of a team of management and policy experts from around the world with expertise at international, national, regional and/or local levels that will consider existing strategies and policies to develop recommendations for their implementation with considerations of transferability, the potential for maladaptation, and local and regional attributes that may confer or complicate their adoption. Additionally, we will bring together community development practitioners to discuss and recommend near-term strategies for climate-resilient fishing practices that may be transferable on local and regional levels.



## Long-term Work Plan (2021-2030)

To achieve the aims and objectives of FishSCORE2030, our long-term work plan will focus on the following tasks. The relationship of each of the work plan items to the objectives detailed above is summarized in Table 1.

1. Expand and strengthen a network of collaborators including scientists, fishery participants, policymakers, managers, and community development practitioners.

The establishment of an international network of collaborators with common interests in climate resilient fisheries is central to FishSCORE2030. This FishSCORE2030 Network will provide a foundation for sharing knowledge and experiences that span multiple viewpoints, scales, geographies, sectors, and areas of expertise. We anticipate the FishSCORE2030 Network serving as a forum for open discussions of project results; a pathway for co-development of projects, tools, and resources; and a catalyst for new collaborations. We will enhance the FishSCORE2030 Network's membership through contacts of these initial members, public communications and press releases, and targeted invitations to individuals from underrepresented geographic regions and disciplines.

Developing meaningful relationships among collaborators requires effective communication and reciprocal information sharing. Frequent and regular opportunities to meet with the participants of FishSCORE2030 will provide an opportunity to spotlight participants' work, challenges, and successes as well as serve as a forum for building trust. These opportunities will be created by hosting workshops, conferences, and discussions in the form of:

- Annual in-person workshops and regular intra-annual virtual meetings with the aims of (1) iteratively assessing FishSCORE2030's goals and near-term work plan and (2) cultivating ideas and collaborations for new projects, synthesis efforts, information products, or fishery partnerships.
- A virtual seminar series that will be held multiple times per year to highlight project results and explore climate-relevant topics of interest. By rotating seminar topics and presenters and by soliciting seminar topics from all participants as well as practitioners and researchers outside of the FishSCORE2030 Network, FishSCORE2030 will provide a forum for information exchange and learning.
- Topic-specific workshops to develop synthesis products, assess how tools and resources need to be revised, develop management-oriented information, and determine distribution and engagement avenues.

2. Enhance international collaborations and obtain funding to promote FishSCORE2030 implementation and strengthen capacities at multiple scales.

The realization of the aims and objectives of FishSCORE2030 will rely on the successful formation of scientist-practitioner-manager collaborations to co-develop and implement effective resilience strategies in diverse fisheries globally. These relationships will be necessary to



complete the activities described in this plan, but they require robust funding support. FishSCORE2030 organizers will work with collaborators to identify appropriate opportunities to financially support these activities and the management of the FishSCORE2030 program.

It is also critical to obtain funding that supports the participation of collaborators in workshops, seminars, research projects and results synthesis, and product development in cases where a lack of funding would preclude their participation or limit their ability to take on substantive roles (e.g., community practitioners and fishers who would be contributing voluntarily outside of their jobs). Funding is also necessary to support on-the-ground activities and case studies to assess, for example, the suitability of vulnerability and resilience assessment tools or the effectiveness of adaptation strategies in different geographies and fishery types. Funding will also be pursued to support the creation and distribution of publicly available resources, tools, publications, and reports necessary to make FishSCORE2030's outputs widely available for diverse audiences. Finally, support is needed to sustain overall program management, leadership, and coordination throughout the decade.

3. Support endorsed Ocean Decade projects aligned with FishSCORE2030 as well as other local and regional efforts to advance climate resilience and equity in marine fisheries.

Through projects aligned with FishSCORE2030 within the framework of the UN Ocean Decade and within broader efforts, the program will support existing and new efforts to achieve adaptive decision-making and planning in fishery systems. Projects may focus on different approaches for conferring resilience in fisheries systems, including elevating the voices of marginalized individuals in fisheries practices and management, advancing data collection and modeling needed to inform our understanding of climate impacts on fisheries, and employing frameworks for evaluating climate impacts, vulnerabilities, resilience attributes, and opportunities in specific fisheries. Other examples of projects may include advancing more integrated management frameworks that evaluate outcomes for multiple marine sectors and/or foster the inclusion of ecosystem conservation goals, alongside social and economic objectives, and work to ensure sustained and equitable flows of benefits.

While FishSCORE2030 is not able to provide funding for aligned projects, it will support aligned projects by fostering opportunities to present their work to wider audiences, create new collaborations, and participate in larger synthesis efforts that examine different resilience approaches. The FishSCORE2030 program aims to support the existing goals of aligned projects and to encourage their success, but it is not responsible for project completion or reporting. FishSCORE2030 does not aim to become involved in a project's strategic planning, activity development, or programmatic operations.



#### 4. Synthesize key climate issues facing marine fisheries and fishing communities and communicate these insights

4a. Work with local and global practitioners to apply frameworks for benchmark assessments of climate resilience and evaluate strategies to enhance resilience, improve planning tools, and support recommendations.

There is a pressing need to understand potential vulnerabilities and resilience of fisheries at different scales and various locations to identify actionable, culturally appropriate, and accessible strategies for climate resilience. Through the FishSCORE2030 Network, we aim to connect global ocean and fisheries climate science to socio-economic and fisheries realities at local and regional scales in order to:

- advance scientific and fisheries management information and understanding of opportunities, constraints, and challenges,
- understand local knowledge and evaluate climate impacts, vulnerabilities, capacities, and opportunities,
- assess resilience attributes, strategies, and operationalization,
- and develop tools, resources, and recommendations based on analysis of similarities and differences among various applications and approaches.

The collaborations developed through the FishSCORE2030 Network will support the assessment of climate challenges that face various fisheries. These projects will allow for the application, testing, and iterative improvement of resilience assessments. Further, comparative syntheses of the various projects will inform and expand the range of strategies that may be employed elsewhere based on the attributes of a given community, fishery, and climate change impacts on that community and fishery.

#### 4b. Advance synthesis and communication of results

The work of this program will result in information, resources, tools, and experiences that will inform the ability of management entities and communities in different areas of the world and operating at different scales to sustain fisheries as a source of food and jobs, while also protecting ocean ecosystems in the face of a changing climate. To support the ability of different localities and regions to access and adopt these practices, collaborators will synthesize and leverage outcomes of the FishSCORE2030 Network, on-the-ground projects, and other work of related groups and initiatives focused on operationalizing climate resilience in fisheries. We will aggregate and interpret this information to better understand commonalities and differences among localities and regions and to enhance tools for assessing climate impacts, vulnerabilities, capacities, and resilience. These insights will be incorporated into future research plans, framework and tool design, implementation protocols, strategy recommendations, and publicly available resources.



A central goal of FishSCORE2030 is the communication of this work through various audiences and media to support fisheries climate vulnerability assessments and resilience strategy development beyond the UN Ocean Decade. To achieve this, we will work with the FishSCORE2030 Network, with other Ocean Decade programs, and beyond these groups to carry out objectives, share results, and communicate the findings, tools, and recommendations of FishSCORE2030. These will include:

- Resources, such as:
  - climate vulnerability and resilience assessment frameworks, strategy development processes, and implementation protocols,
  - technical reports, journal articles, policy and management briefings, and
  - periodic reports on state of the science, management, and strategies.
- Communications and information exchange, such as:
  - newsletters and email updates that summarize and highlight resources, case studies, and opportunities for assistance,
  - descriptive online interfaces (e.g., StoryMaps) and printed summary materials, and
  - public webinars and in-person local and regional workshops.

We will encourage FishSCORE2030 Network members and other UNDOS programs to publicly and freely share the materials and information produced through FishSCORE2030. Where feasible and with appropriate funding, the program will help support this goal by making open access publications possible.

VI. Support the implementation of policies, processes and solutions to advance climate resilience on local, regional, national, and international scales.

FishSCORE2030 aims to support the near-term adoption of actionable practices in fisheries activities and policies in fisheries management. This will be accomplished through:

- Forming a team of management and policy experts from around the world with expertise at international, national and/or local levels that will consider existing strategies and policies and develop recommendations for their implementation with considerations of transferability, the potential for maladaptation, and local and regional attributes that may confer or complicate their adoption; and
- Bringing together community development practitioners to discuss and recommend near-term strategies for climate resilient fishing practices that may be transferable on local and regional levels.

Through these efforts and others, we will develop resources that can be used to support the adoption of climate-resilient strategies in fisheries policies. These resources may include synthesis papers, policy briefings, and summary reports. Further, we will work to support on-going efforts to implement climate-forward fisheries management strategies and policies.



**Table 1. FishSCORE2030 Goals, Objectives, and Work Plan**

FishSCORE Goal	Objective	Related Work Plan Item(s)	Detailed Work Plan Activities
Provide opportunities for knowledge co-production and new diverse collaborations through a network of scientists, fishery participants, resource managers, community practitioners, and policymakers.	I. Collaboration Building and Knowledge Co-Production	1. Expand and strengthen a network of collaborators including scientists, fishery participants, policymakers, managers, and community development practitioners.	Create and facilitate the FishSCORE2030 Network to increase collaborative work and communication across geographies and disciplines
Strengthen information exchange, existing capacities, and approaches for identifying and employing climate resilience strategies in diverse types of fishery systems.	II. Information Exchange and Capacity Strengthening	1. Expand and strengthen a network of collaborators including scientists, fishery participants, policymakers, managers, and community development practitioners.	Convene workshops and virtual meetings to cultivate collaborations for new projects, data synthesis efforts, or partnerships
			Hold a virtual seminar series to highlight project results and explore relevant topics of interest.
		2. Enhance international collaborations and obtain funding to promote FishSCORE2030 implementation.	Convene working groups to develop synthesis products, recommend management strategies, and refine or create new tools
			4b. Advance synthesis and communication of results
Co-produce information, strategies, and equitable recommendations to improve climate resilience in fishery systems across scales.	III. Local and Regional Efforts & Advancement of Equity	3. Support aligned projects and other local and regional efforts to advance climate resilience and equity in marine fisheries.	Provide opportunities to present work, create new collaborations, and participate in larger synthesis efforts
		4. Synthesize key climate issues facing marine fisheries and fishing communities and communicate these insights	Assess resilience attributes, strategies, and operationalization
Synthesize key climate resilience knowledge gaps, issues facing marine fisheries and fishing communities, and current assessment and planning efforts and communicate these insights to support resilience efforts and improve tools and frameworks.	IV. Synthesis and Communication		4. Synthesize key climate issues facing marine fisheries and fishing communities and communicate these insights
		Synthesize outcomes of the FishSCORE2030 Network, on-the-ground projects, and other work focused on operationalizing climate resilience in fisheries	
		Synthesize experiences to better understand commonalities and differences among localities and regions	
Support the implementation of policies, processes and solutions to advance climate resilience on local, regional, national, and international scales.	V. Providing Actionable Practices for Policy and Management	4. Synthesize key climate issues facing marine fisheries and fishing communities and communicate these insights	Communication through various avenues to support the development and implementation of climate resilience practices beyond the UN Ocean Decade
			5. Support the implementation of policies, processes and solutions to advance climate resilience on local, regional, national, and international scales.



## Short-term Work Plan (2021-2025)

During the first two years of the program, the organizers of FishSCORE2030 will focus on the implementation of key activities that will stand up the program for the decade. These are:

- Establish the initial Strategic Advisory Board, Development Team, and FishSCORE2030 Network of collaborators; host kick-off meetings and follow-up workshops to hone the program work plan.
- Launch FishSCORE2030 seminar series to highlight local or regional case studies of climate-fisheries issues, assessment approaches, and adaptation strategies, and the lessons learned that may inform work in other areas.
- Identify and compile a list of active working groups and initiatives focused on operationalizing climate resilience in fisheries, as well as tools and resources that may be used for fisheries climate vulnerability assessments and resilience planning.
- Develop collaborations and identify funding to begin on-the-ground projects with local practitioners to conduct benchmark assessments of climate resilience and evaluate strategies to enhance resilience.
- Launch topic-based discussion forums and working groups, including a working group specifically focused on recommending and advancing near-term strategies for climate resilient fishing practices, policy, and management
- Convene a workshop to compare resilience approaches and understand factors that influence resilience pathways in order to synthesize insights from multiple assessment and planning efforts.
- Build a communication strategy and framework to support sharing of FishSCORE2030 goals and objectives, events, and partnership opportunities, as well as to highlight projects, research, and tools and resources developed by FishSCORE2030 Network participants.

## Organization

FishSCORE2030 will establish a network of collaborators that includes fishery participants, resource managers, community practitioners, policymakers, and scientists spanning diverse disciplines (e.g., climate scientists, oceanographers, ecologists, economists, social scientists). Its operations will be organized through several tiers of leadership teams.

### Coordination Group

Overall coordination for the program will be performed by the Principal Investigators, the program manager, and 2-3 active members with the assistance of other members of the FishSCORE2030 Network as needed. This group will be responsible for the development of program guiding documents and work plans, funding proposals, as well as processes for



soliciting and reviewing FishSCORE2030 projects. Draft documents and processes will be reviewed by the Strategic Advisory Board and Development Team. The Coordination Group will also organize and implement meetings, workshops, seminar series, and other opportunities to engage and strengthen collaborations and knowledge sharing. The program manager will also be responsible for organizing the administrative tasks associated with the program, such as maintaining budgets, responding to requests for information and concerns from participants, and other day-to-day activities.

### **Strategic Advisory Board**

Leadership for the program will be provided by a team of approximately 10 individuals from organizations with knowledge and connections across ocean science, fishery management, social equity and justice, and ocean policy arenas. The Strategic Advisory Board will help ensure activities align and are pursued in a manner consistent with the FishSCORE2030 objectives, accomplish milestones in a timely manner, coordinate with other projects, programs and networks, and represent FishSCORE2030 in the Ocean Decade and other relevant arenas. Members of the Strategic Advisory Board will rotate throughout the tenure of the program so that diverse viewpoints are represented. The Strategic Advisory Board will inform an iterative process of revising FishSCORE2030's research goals, assessment tools, recommendations, and products.

### **Development Team**

A Development Team will assist in the implementation of FishSCORE2030 and work with the Coordination Group to develop activities and help make connections to individuals, organizations, and regions to enhance the impact of the program. Like the Strategic Advisory Board, membership will rotate over time to facilitate the inclusion of different viewpoints over the course of the program. Development Team members will have backgrounds spanning different disciplinary expertise, networks, sectors, geographies, and fisheries experience. These individuals may have a breadth of expertise in multiple areas and geographies or have work focused within a specific locality or fishery. Development Team members will facilitate and/or lead specific scientific activities, fishery applications, working groups or similar elements of work associated with FishSCORE2030. Membership of the Development Team will reflect FishSCORE2030's commitment to diversity, equity, and inclusion and will represent a range of backgrounds, cultural and gender identities, and roles within the fishing industry, fisheries management and policy, and fisheries research and application.

### **FishSCORE2030 Network**

The FishSCORE2030 Network will be an open group for any individual or organization interested in following or advancing the objectives of FishSCORE2030, thereby substantially expanding the involvement in and impact of the program. The FishSCORE2030 Network will be composed of the larger community of scientists, managers, practitioners, and fishery participants that are or may become involved in specific scientific or application projects associated with this program, the conversations and information disseminated about the work, and the products to communicate and apply results in other management and community settings. The participants





will reflect FishSCORE2030’s commitment to diversity, equity, and inclusion, representing a range of backgrounds, socio-cultural and gender identities, and roles within the fishing industry, fisheries science, management and policy, and community development. As such, we will continually assess the composition of the FishSCORE2030 Network and will target invitations to certain individuals and communities that are not represented at any given time.

*This version of the FishSCORE2030 Implementation Plan was revised in June 2024. This document will be reviewed and revised on an ongoing basis throughout the Ocean Decade.*