





National Workshop on Strengthening the Science – Management Interface

Embedding Evidence and Technology in Marine Fisheries Governance

09-10 September 2025 | Taj Vivanta, Chennai



In Collaboration with

















1. Introduction

Effective fisheries management is essential for ensuring the sustainability of marine resources and the livelihoods of millions in India's coastal states. However, policy decisions in this sector have traditionally relied more on administrative prudence and historical practice than on scientific evidence. While this approach provides a degree of stability, it often overlooks opportunities in innovation, adaptive response, and resource optimization.

A sustained and structured interface between science and management remains absent. Current interactions are often informal, reactive, or event-driven, and scientific data is rarely presented in formats suitable for decision-making. In many instances, scientific assessments are used retrospectively to validate decisions already made on the basis of precaution or political exigency, rather than to guide them proactively.

To address these systemic challenges, the Bay of Bengal Programme Inter-Governmental Organisation (BOBP-IGO) and Environmental Defense Fund (EDF), along with its Indian affiliate - Environmental Defense India Foundation (EDIF), are convening a national workshop.

This two-day event aims to catalyze a formal, recurring platform for interaction between scientists and fisheries managers across India.

The workshop will

- Showcase promising technological tools for fisheries governance and discuss lessons from successes and failures
- Develop a roadmap for embedding evidence and science more systematically in marine fisheries governance.

The workshop will build on

- BOBP's regional experience in fostering cooperative fisheries governance, capacity building, and participatory management across South Asia
- EDIF/EDF's ongoing work in Tamil Nadu and Maharashtra
- EDIF/EDF's global expertise in embedding technology into fisheries management.

This initiative aligns with India's **National Policy on Marine Fisheries (2017)**, which calls for strengthening the science-policy interface, implementing a national fisheries data acquisition plan, and leveraging IT and space technology. It also echoes **Article 12 of the FAO Code of Conduct for Responsible Fisheries (CCRF)**, which underscores the role of research in achieving responsible fisheries.



2. About the Workshop

Purpose

To catalyze structured dialogue and ongoing collaboration between scientists and fisheries managers, leveraging new technologies and co-produced knowledge to promote adaptive, evidence-based decision-making in marine fisheries governance

Expected Outcomes

- Identification of priority technologies and capacity gaps
- Strengthened professional networks and partnerships
- A formal MoU between EDF/EDIF and BOBP-IGO
- Joint declaration or workplan for follow-up actions
- Comprehensive workshop proceedings including the roadmap for embedding evidence in routine decision-making

Objectives

- Demonstrate how evidence has improved management outcomes and where its neglect led to failures.
- Build the capacity of scientists and managers to interpret, communicate, and use policy-relevant evidence.
- Explore manager readiness and interest in adopting decision-support tools and technologies.
- Design a roadmap and initiate institutional mechanisms for continuous science–management exchange.

Participants

- One Senior fisheries officers from each of the coastal states (Headquarters – Marine fisheries) (6 Nos)
- District-level fisheries officers from all coastal districts of Tamil Nadu and Maharashtra (20 Nos).
- Scientists from ICAR Fisheries institutions (CIFE, CMFRI, CIFT) (12 Nos)
- Faculty from fisheries colleges/universities in Tamil Nadu and Maharashtra (5 Nos)
- Industry representatives (e.g., private companies, tech start ups) (5 Nos)
- Invited experts and Organizers (20 Nos)

3. Methodology

The two-day interactive workshop will comprise of panel discussions, technology demos, open forums, and working groups. The breakout sessions will have creative engagements viz., Role-Reversal exercise and Live Visual Mapping.

The workshop would follow a purposefully sequenced methodology that would blend diagnostics, demonstration, dialogue, and design. The participants would not only get to share perspectives but also contribute to co-developing actionable solutions.

4. Summary Agenda

Day 1		
Pre-lur	nch 1.	Inauguration: Context Setting; Objectives & Methodology Overview
	2.	Evidence for Governance : Science and Technology Solutions Currently in Practice
		National Institutes: INCOIS, CMFRI, CIFT, NCCR
		 Case studies - Lessons from success and failure (BOBP & EDIF)
	3.	Profiling perceptions on readiness and relevance of technologies
	4.	Introduction to the Group Exercise
Post lu	nch 1.	Role Reversal : Scientists make management decisions; managers provide evidence / frame research requests—then critique each other.
	2.	Live Visual Mapping : Real-time creation of a "Science–Policy Ecosystem Map" identifying flows and institutional bottlenecks.
	3.	Open forum : Group reflection on institutional barriers, bottlenecks in evidence use and opportunities for collaboration
Day 2		
Pre-lunch 1. Recap and s		Recap and synthesis of Day 1
	2.	Emerging Concepts and Technologies in Fisheries Governance
		Catch documentation & Near-Realtime Stock Assessment (BOBP)
		FISHE, SmartPass, FVON (EDF)
		 Traceability; Catch Documentation; Underwater Domain Awareness – (Threshold / Odakku / MRC)
	3.	Panel Discussion
Post-lu	nch 1.	Thematic Working Groups
		 Co-developing roadmap for science-management interface
		 Group presentations: Action plans and commitments
	2.	Closing session
		 Summary, next steps
		 MoU signing
		 Commitments from participants

Detailed Programme (Provisional)

Day 1: Setting the Context and Building Shared Understanding

Time	Activity	Responsibility	
08:45 – 09:30	Registration	BOBP	
09:30 – 10:15	Session 1: Inaugural Session Facilitator: D. Vijai, Senior Manager, Climate Resilient Fisheries, EDIF		
09:30 - 09:40	Welcome Address & Context Setting	Dr. P. Krishnan <i>Director, BOBP-IGO</i>	
09:40 – 09:50	Opening remarks: Vision and Commitment from EDIF	Dr. Hisham Mundol Chief Adviser, EDF-India & Director, EDIF	
09:50 – 10:00	Guest of Honour	Dr. N. Felix Vice Chancellor, Tamil Nadu Dr. J. Jayalalithaa Fisheries University	
10:00 – 10:15	Chief Guest	Dr.N.Subbaiyan , IAS Secretary, Animal Husbandry, Dairying, Fisheries and Fishermen Welfare, Tamil Nadu	
10:15 – 10:50	Group Photo / Tea Break		
10:50 – 13:00	Session 2: Evidence for Governance: Science & Technology Solutions Currently in Practice Facilitator: Dr. R. Venkatesan, Professor of Practice, IOM Anna University & Adjunct		
	Professor, University of Massachusetts Dartmuth, USA & IIT Mandi		
	This session introduces participants to the various scientific inputs and technological solutions which have been developed and piloted by the national research organizations in India and currently accessed/ used/ adopted by the fisheries managers for governance. Participants will understand practical use-cases, challenges, and potential for improvements.		
1100 – 1115	Scientific evidence for Fisheries Management	Dr. J. Jayasankar <i>Head, FRAEED, ICAR-CMFRI</i>	
1115 – 1130	Guidance on Fishing Technology (Gear and Craft modifications)	Dr. M.V. Baiju Naval Architect, ICAR-CIFT	
1130 – 1145	Ocean Information Services for Fishers	Dr. Dhanya Mohan Lal Scientist, MoES-INCOIS	
1145 – 1200	Advisories for Disaster and Safety of Fishers- Pilot projects	Dr. S.K. Dash Scientist F, MoES-NCCR	
1200 – 1230	Lessons from success and failure: Case studies	BOBP & EDF	

Time	Activity	Responsibility	
1230 – 1245	Slido Poll: Profiling perceptions on readiness and relevance of technologies	BOBP & EDF	
1245 – 1300	Introduction to Group Exercises	BOBP-IGO	
13:00 – 14:15	Lunch Break & Tech Walk		
	Tech Demo Booths		
	Leading Institutions and Tech solution providers display their tools and solutions in designated booths where the participants walk through and interact for details / partnerships / collaborations		
14:15 – 17:30	Session 3: Mutual Empathy and Problem Mapping		
	Coordination: BOBP/EDF & Facilitators		
	This session is meant to build mutual understanding between scientists and fisheries managers by reflecting on real-world constraints, communication gaps, and institutional bottlenecks in applying scientific evidence to fisheries policy. Participants will work in mixed-role groups to explore their lived experiences—where science has succeeded or failed in influencing decisions—and identify systemic barriers to collaboration. Through structured breakout discussions, participants will surface both operational frustrations and shared aspirations.		
14:15 – 15:30	Group Work 1: Role-Reversal Exercise		
	Mixed-role groups explore experiences, challenges collaboration. Managers and scientists switch roles to better		
15:30 – 15:45	Tea Break		
15:45 – 16:45	Group Work 2: Live Visual Mapping		
	Facilitators compile group insights into a Science–Policy Ecosystem Map.		
16:45 – 17:15	Open Forum		
	Group reflection on institutional barriers, bottlenecks in for collaboration Group reflection on institutional barriuse.	• •	
17:15 – 17:30	Announcements for Day 2		
18:30 – 20:30	Cultural Evening and Networking Dinner		



Day 2: Profiling Innovations and Planning Future Action

Time	Activity	Responsibility	
09:00 – 09:10	Recap and Synthesis of Day 1 Summary of key insights from Day 1	Mr. Rajdeep Mukherjee Policy Analyst, BOBP-IGO	
09:10 – 11:00	Session 4: Emerging concepts and technologies in fisheries governance		
	Facilitator: Dr. E. Vivekanandan, Sr. Scientific Consultant, BOBP-IGO		
	This session introduces participants to selected cutting-edge, field-tested tools designed to strengthen evidence-based decision-making in marine fisheries. Each tool targets a different bottleneck in the science—management continuum—from lack of timely effort data to gaps in coastal ocean monitoring, to challenges in managing data-limited fisheries. Participants will gain hands-on exposure to the technologies, engage directly with the developers, and understand practical use-cases, challenges, and potential for adaptation in Indian fisheries contexts.		
09:10 – 09:40	FISHE: A Framework for making climate- and science-informed management decisions	Dr. Jacob Eurich Small-Scale Fisheries Solutions Scientist, EDF	
09:40 – 10:00	Innovations in catch documentation, resource assessment & reporting for effective fisheries governance	Dr. P. Krishnan <i>Director, BOBP-IGO</i>	
10:00 – 10:15	SmartPass: Innovative Fishing Monitoring Using Shore-Based Cameras and Artificial Intelligence	Dr. Karly Kelso Senior Director, Global Oceans Strategies, EDF	
10:15 – 10:30	Digital solutions for strengthening value chain	Mr. B. Bharath Kumar CEO, Threshold Software; ZEROCODE	
10:30 – 10:45	The Fishing Vessel Ocean observing Network (FVON): A New Paradigm for Ocean Observing	Dr. Jacob Eurich Small-Scale Fisheries Solutions Scientist, EDF	
10:45 – 11:00	Underwater Domain Awareness; Opportunities for Fisheries	Dr. Arnab Das CEO, Marine Research Centre	
11:00 – 11:30	Tea Break		
11:30 – 13:00	Panel Discussion		
	Identified panellists discuss strategies for leveraging technologies and strengthening science-policy interface across various domains.		
	Facilitator: Dr. P. Krishnan, Director, BOBP-IGO, Chen	nai	
13:00 – 14:00	Lunch		



Time	Activity	Responsibility	
14:00 – 15:15	Session 5: Co-Creation and Planning		
	Facilitator: Dr. P.S. Ananthan, Principal Scientist, ICAR-CIFE, Mumbai		
	Building on the diagnostics and shared understanding developed during Day 1 and merging concepts and technologies on Day 2, this session shifts from analysis to action. Participants will work in thematic working groups to co-design practical roadmaps that strengthen the science—management interface in marine fisheries governance. Drawing from the Science—Policy Ecosystem Map, survey data, and earlier discussions, each group will focus on one of four strategic areas—institutions, communication, technology, and capacity—and use structured templates to identify key problems, root causes, and feasible solutions. Groups will be encouraged to build on real-world examples, pilot opportunities, and institutional mandates to ensure relevance and implementability.		
14:00 – 14:45	Thematic Working Groups Discussion		
	Participants co-develop actionable roadmaps across 4 streams:		
	 Science–Policy Mechanisms Evidence Packaging Tech Integration Capacity Building 		
14:45 – 15:15	Group Presentations		
	Each group shares roadmap outputs and peer feedba	ack.	
15:15 – 15:30	Tea Break		
15:30 – 16:15	Session 6: Plenary: Commitments & Next Steps		
15:30 – 16:00	Way Forward Discussion to converge on shared commitments	State GovernmentsResearch OrganizationsOrganizers	
16:00 – 16:10	MoU Signing Formalize EDF/EDIF and BOBP collaboration and working arrangements with partnering states	BOBP-IGO & EDF	
16:10 – 16:25	Chief Guest Remarks	Dr. N. Ramaswami, IAS Secretary, Animal Husbandry, Dairy Development & Fisheries Govt. of Maharashtra	
16:25 – 16:30	Vote of Thanks & Close of Workshop	D. Vijai Senior Manager, Climate Resilient Fisheries, EDIF	



Bay of Bengal Programme Inter-Governmental Organisation

91 St. Mary's Road, Chennai - 600 018, India. Tel: +91 44 42040024 Email: info@bobpigo.org | www.bobpigo.org