

The IPNLF Small-Scale Fishing Hackathon

Hackathons have the potential to be tools of disruptive innovation, and the IPNLF hackathon promises to be a unique opportunity to engage in creative problem-solving and innovation within the realm of sustainable fisheries.

"If you look at history, innovation does not come just from giving people incentives; it comes from creating environments where their ideas can connect,"

— Steven Johnson, [American author](#)

Traditionally, hackathons are 48-hour events where experts gather to develop new approaches to solving problems or completing large projects that require collaboration. Participants look to introduce new technology, standards, and their professional knowledge to progress on projects and develop solutions. Instead of computer programmers, we bring together experts and visionaries from diverse backgrounds and geographies within tech, fisheries, and finance during the IPNLF hackathon. We ask you to develop innovations and modern climate-friendly technology to reduce the carbon footprint of one-by-one tuna supply chains and help ensure a future for even the most remote fishing communities.



Impact

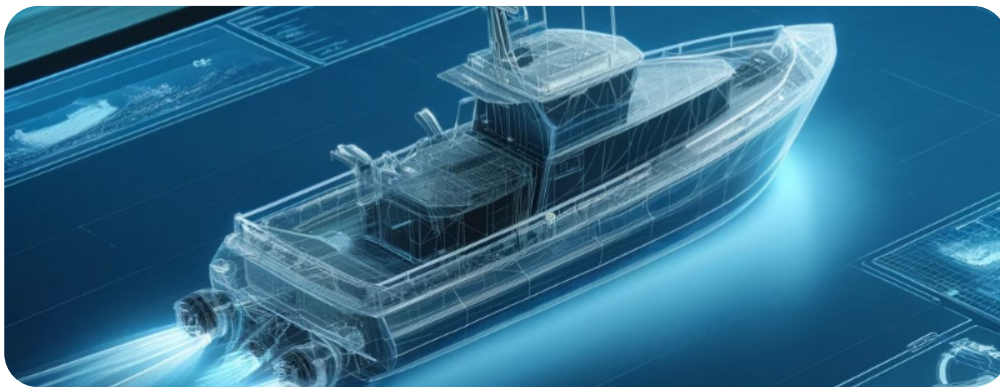
This hackathon aims to reimagine small-scale fishing vessels to be futuristic, technology-driven, safe, productive, and efficient to foster global sustainability, competitiveness, and resilience in one-by-one fisheries. The ultimate goal is to draw up a vision of a future in which SDG-aligned small-scale fisheries replace large offshore industrial fleets as the obvious choice for sustainable, ethical and efficiently sourced seafood whilst providing dignified, prosperous livelihoods to coastal communities around the globe.



The Challenge

The challenge is to design the ultimate small-scale fishing vessel. These vessels should blend existing and emerging technologies in novel ways while employing traditional low-impact fishing methods. There are various vessels to be designed:

- Under 2 GT up to 10 GT vessels: one-day boats with a small crew, ideal for handline or rod and reel fishing.
- Under 20 up to 50GT vessels: Large multi-day fishing vessels that can spend extended periods at sea with larger crews.



Design Criteria

The vessels should prioritise operational efficiency and sustainability.

Key considerations include:

- Efficient and stable hull design for safe working conditions and high-quality harvests in any sea conditions.
- Innovative cold storage solutions and weight distribution for maximum carrying capacity and harvest quality.
- Integrating renewable energy, navigation, and advanced fish-finding technology to maximise fuel and operational efficiency.
- Comfortable living conditions for multi-day vessels, focusing on renewable energy/low-carbon propulsion systems.
- Technology integration for automatic fisheries data collection, traceability, and life safety at sea.



Questions on the Challenge?

Please reach out to **Craig Turley** - IPNLF Fisheries Director

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