

From a marketing perspective, the group's dependence on traditional distribution channels — mainly selling to intermediaries — reduces their bargaining power and often forces them to accept lower prices. They have yet to take full advantage of digital marketing platforms, e-commerce, or social media to expand their customer base and reach higher-value markets (Tito Wira Eka Suryawijaya et al., 2024). Without branding strategies or attractive product presentation, their offerings remain relatively unknown beyond local buyers. The use of fisheries science and innovative post-harvest handling techniques is also underdeveloped. Many members are unfamiliar with sustainable fishing practices, efficient aquaculture methods, or processing technologies that could extend product shelf life and enhance quality (Iriyadi et al., 2023). The absence of value-added product diversification, such as smoked fish, fish floss, or vacuum-sealed seafood, limits their competitiveness. In addition, inadequate waste management from seafood processing poses environmental concerns, potentially affecting local marine ecosystems (Barefoot et al., 2018). To address these challenges, this program integrates three main interventions: the digitalization of accounting systems, the enhancement of online marketing capabilities, and the introduction of sustainable fisheries practices, including better post-harvest handling and waste utilization. Beyond direct community benefits, the program is also designed to align with Indonesia's Merdeka Belajar Kampus Merdeka (MBKM) policy, creating opportunities for students to gain real-world experience while contributing to meaningful social change. Students from multiple disciplines are actively involved in training, mentoring, and implementation, allowing them to apply classroom knowledge to real economic and environmental challenges.

The initiative further supports key university performance indicators (Indikator Kinerja Utama, IKU), including facilitating student learning outside the classroom (IKU 2), encouraging faculty engagement with community partners (IKU 5), and ensuring that the outputs of academic work are adopted by stakeholders (IKU 6). Ultimately, the program seeks not only to improve the economic resilience and competitiveness of the Segara Ayu Kedonganan Fishermen Group but also to promote environmentally responsible practices that sustain both livelihoods and marine resources for the long term.

METHODS

Design, Time, Location, and Implementation Target. The program adopted a participatory and educational approach to ensure that members of the Segara Ayu Kedonganan Fishermen Group were not merely passive recipients of assistance but were actively engaged in every stage of the process. This approach was designed to combine hands-on learning with practical application, fostering both knowledge transfer and long-term skill retention (Ridho & Rachmawati, 2025). Activities were implemented in Kedonganan Village, a coastal area well known for its rich marine resources yet challenged by traditional management practices. The target beneficiaries were the more than 40 active members of the Segara Ayu Kedonganan Fishermen Group, who are engaged in fishing, seafood processing, and small-scale marketing. Recognizing that sustainable improvement requires systematic steps, the program was executed in five sequential stages:

- a. Preparation Stage – Conducted through coordination meetings with village authorities and group leaders, initial site visits, and needs assessments. This stage included surveys, direct observation, and stakeholder mapping to identify priority issues in financial management, marketing, and fisheries processing. Training materials and modules were then developed based on these findings.



- b. Replicate the program model in other fishing communities, with appropriate adaptations to local cultural, economic, and environmental conditions, to expand its positive impact.
- c. Strengthen partnerships with government agencies, cooperatives, and industry stakeholders to secure broader market access, facilitate participation in certification programs, and unlock new business opportunities.
- d. Implement a long-term monitoring and evaluation framework to measure the program's impact on participants' income levels, market expansion, and environmental sustainability over time, ensuring that future improvements are evidence-based

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