

**INTERNATIONAL INSTITUTE
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Press Release

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Subject: Challenges and Solutions for Achieving Aquaculture Growth with Environmental Restoration (open press)

The growing global demand for aquatic food, estimated to reach by 2050 60% to 80% according to a World Bank study, is together by climate factors such as excessive growth and the reduced availability. Sustainability and meeting the burgeoning demand necessitates the sustainable growth of aquaculture. However, the expanded expansion of aquaculture systems requires multiple environmental considerations to ensure the sector's growth does not compromise ecosystems, fish health and the existing stress for sea fisheries. Issues such as habitat degradation, water pollution, and biodiversity loss must be addressed through the growing industry. With the rapid growth in aquaculture leading a staggering 10% to 15% rise in the world's supply in 2023 and a forecasted rise of 20% in other years, it becomes evident that the industry's growth also represents substantial economic loss. By reducing responsible culture, engaging in sustainable management, and fostering advancement in innovative aquaculture technology, we can create a future where the industry not only meets the rising demand but also co-exists harmoniously with the natural world, ensuring long-term sustainability and resilience.

Innovation and technology also a critical role in addressing challenges associated with sustainable aquaculture practices. This move to enhance and promote the adoption of sustainable farming systems, integrated in systems such as recirculating aquaculture systems (RAS) and biofloc, shifting the paradigm of aquaculture