



---

## Blue Revolution

---

Sumit Mallick

B.F.Sc, College of fisheries Science, AAU, Jorhat, Assam

E-mail: [sumit.mallick8@gmail.com](mailto:sumit.mallick8@gmail.com)

---

Discussions about global aquaculture production and prospects for future growth largely focus on Asia, where most global production takes place. Countries in Asia accounted for about 89% of global production in 2016. Exclusive attention to Asian aquaculture, however, overlooks the fact that “the blue revolution” is occurring in most parts of the world. The results show that production in some non-Asian countries is growing more rapidly than the major Asian producers. Moreover, most developed countries have played a limited role in the blue revolution despite being leading producers as late as the 1970s.

About a hundred years ago several technologies came about that would revolutionize our world. Everything from automobiles to plastics to electronics to satellites all this sweet technology worked together to improve the lives of billions of people around the world and brought about what we'd call the modern age which I'll be honest having experienced firsthand. I can say is pretty great we all got to live in a time when distances could be covered quickly disposable products could be made cheaply.

**Towards a Blue Revolution:** Catalysing Private Investment in Sustainable Aquaculture Production Systems seeks to articulate the full scale and potential of this exciting sector to catalyze investment into aquaculture projects and companies that can deliver targeted financial returns and improved environmental performance over business-as-usual production. Conservative estimates suggest that by 2030, the aquaculture sector will require an additional \$150-300 billion in capital investment to expand production infrastructure capacity to meet projected demand growth. By directing large-scale, private, and multilateral investment towards more sustainable production systems, aim to drive investment into the aquaculture segments that offer the most potential for meeting growing global seafood demand in harmony with the marine ecosystems.

Blue Revolution identifies the major environmental challenges associated with business-as-usual production systems, describes the benefits of the local aquaculture production systems of the report, and defines the impact thesis for sustainable aquaculture. Many of the prevailing aquaculture methods (e.g., traditional coastal net pens) can have significant negative impacts on wild fish populations, pollute the water column, and damage marine habitats when irresponsibly conducted. Investment in more sustainable systems and projects has been held back by a general lack of publicly available information, a lingering impression of outsized risks, the limited consensus among industry stakeholders as to which opportunities qualify as both sustainable and commercially viable, and few widely adopted principles for sustainable investment and impact measurement. We believe that these barriers can be overcome. With Towards a Blue Revolution, we endeavor to begin to remedy the outstanding issues through the following:

- Defining the sustainability, industry, and operational challenges that can be addressed through private investment in sustainable aquaculture;
- Providing commercial and conservation context on the aquaculture industry and supply chain, including risks, opportunities, challenges, and segments;
- Offering an investment thesis that identifies specific opportunities to positively impact marine ecosystems; and
- Identifying key barriers, outstanding questions, and opportunities for further analysis.