

## Concept Note

### Global Artemia Summit: Accelerating Brine Shrimp Artemia Aquaculture Production and Conservation for a Resilient Blue Economy

**Hosted during:**

World Aquaculture Society (WAS) Safari Conference –2025, at Entebbe (Uganda), June 24-27, 2025.

**Date: June 27, 2025.**

#### 1. Background and Rationale

Artemia (brine shrimp) plays a pivotal role in aquaculture, especially as a live food for larval stages of high-value fish, shrimp, prawn and crab. However, despite growing global demand, Artemia availability is increasingly constrained due to overexploitation, habitat degradation, and climate-related changes in hypersaline ecosystems. Untapped potential for Artemia aquaculture exists in many parts of the world, with the opportunity to improve hatchery performance, reduce feed imports, generate livelihoods, and contribute to broader blue economy goals.

To raise awareness, share the knowledge and services generated by the World Bank Global Advisory Services and Analytics on Artemia production and conservation, and foster partnerships, the World Bank and FutureFish will host a Global Artemia Summit, focused on Artemia production, conservation, and innovation, as part of the WAS 2025.

#### 2. Objectives

- To showcase global and regional advancements in Artemia aquaculture production and resource management, development and conservation.
- To share country experiences, innovative production models, integrated production strategies for Artemia as a feed and as human food, and scalable investment opportunities.
- To raise awareness of Artemia's role in sustainable aquaculture development and biodiversity conservation.
- To facilitate networking and technical exchange between researchers, governments, investors, producers, and other stakeholders.

### 3. Expected Learning Outcomes

By the end of the event, participants will:

- Understand the global and regional trends in Artemia production and use.
- Gain insights into cost-effective Artemia farming practices, including integration with salt production and other aquaculture practices.
- Learn about the environmental pressures on wild Artemia resources and strategies for conservation.
- Discover tools and approaches for scaling Artemia value chains in Africa and globally.
- Identify key areas for research, investment, and policy engagement.

### 4. Scope and Themes

- **Artemia Biology and Ecology:** Fundamentals of Artemia species, production and conservation requirements, and ecological roles.
- **Production Systems:** Integrated Artemia-salt farming, pond-based and tank culture, hatchery applications.
- **Genetic Resources and Conservation:** Wild stock pressures, species and strains biodiversity, biosecurity, and habitat preservation.
- **Market Trends and Trade:** Global demand, supply bottlenecks, and Africa's potential.
- **Novel Artemia Products:** Artemia applications in animal and aquaculture feeds and human foods
- **Regulatory Frameworks:** including laws and policy.
- **Investment:** Public-private models, enabling policies, and donor-led initiatives.
- **South-South Knowledge Sharing:** Lessons from Asia, Africa and Latin America on Artemia development.

### 5. Target Audience

- National aquaculture authorities and ministries.
- Selected Africa country participants.
- Aquaculture private sector, hatchery operators and other supporting activities.
- Investors and agribusiness stakeholders.
- Researchers and academics.
- Development partners.
- NGOs.
- Donor institutions and investor financing platforms.

## 6. Agenda

Time	Session
09:00 – 09:15	<b>Welcoming Remarks</b> – Nasser Kasozi (NARO) and Martin Sserwadda (Mountains of the Moon University)
09:15 – 09:20	<b>Opening Remarks</b> – Harrison Charo-Karisa (World Bank Group WBG, Senior Fisheries Specialist)
09:20 – 09:30	<b>Keynote Speech:</b> The Role of Artemia in Resilient Aquaculture – Patrick Sorgeloos (Professor, Ghent University)
	<b>Global Artemia Overview and Business Case</b> <b>Session Moderator: Ruth Garcia Gomez (WBG)</b>
09:30 – 09:45	<b>Presentation 1:</b> Global Market Trends and Investment Opportunities – Olek Kaminski (Expert, Futurefish)
09:45 – 10:00	<b>Presentation 2:</b> Artemia Aquaculture in Africa: Opportunities and Constraints in Kenya – Morine Mukami (Artemia Research Leader, Kenya Marine and Fisheries Research Institute)
10:00 – 10:20	<b>Q&amp;A Session</b>
10:20 – 11:00	<b>Coffee Break and Networking</b>
	<b>New Applications &amp; Opportunities for Investment</b> <b>Session Moderator: Harrison Charo-Karisa (WBG)</b>
11:00 – 11:15	<b>Presentation 3:</b> Crucial role of Artemia in solar salt production: opportunity for new integrated Artemia-Salt farming business model? – Hector Teruel (solar salt production specialist, video presentation)
11:15 – 11:30	<b>Presentation 4:</b> Human Food Potential - Manika Saha (University Professor and Researcher, Australia)
11:30– 11:45	<b>Presentation 5:</b> Artemia in animal feeds: Opportunities in Africa and abroad Kartik Baruah (Associate Professor, Swedish University of Agricultural Sciences)
11:45 - 12:00	<b>Presentation 6:</b> Tapping into the Global Artemia network (Yeong Yik Sung, chairman International Artemia Aquaculture Consortium IAAC)
12:00 – 12:40	<b>Q&amp;A Session</b>
12:40 – 14:00	<b>Lunch Break and Networking</b>
	<b>Artemia - New Frontiers</b> <b>Session Moderator Ivan Abaho (NARO)</b>
14:00 - 15:40	<b>Expert Panel on Global Artemia Production Opportunities – Global Cases:</b>  Panel from Tanzania (Nazeel Madalla), Uganda (Martin Sserwadda), Kenya (Morine Mukami), Vietnam (Nguyen Van Hoa), Thailand (Patipon Srianeek), Iran (Naser Agh), Uzbekistan (Davlatiyar Djemuratov), Malaysia (Yeong Yik Sung), USA (Thomas Bosteels) -- presenting technical and scaling opportunities
15:40- 16:00	<b>Coffee Break &amp; Networking</b>
16:00 – 17:15	<b>Open discussion on Artemia Future perspectives: Catalysing Innovation &amp; Investment</b> <b>Moderated by Michael Philips (Futurefish) and Anita Louise (IFC)</b> Global business-to-business networking and investment strategies. Opportunities for South-South collaboration.
17:15 – 17:20	<b>Final Remarks and Next Steps</b> – Harrison Charo-Karisa (World Bank Group)
17:20 – 17:40	<b>Closing Remarks</b> – Ivan Abaho (Program Leader and Senior Research Scientist (Aquaculture), National Agricultural Research Organization, NARO)

## **8. Follow-Up and Knowledge Sharing**

- A summary brief will be produced, capturing key insights and recommendations.
- Presentations and resources will be made available online via the AquaInvest Platform and at the IAAC website
- Opportunities for country-specific actions/technical support or regional collaboration will be identified, to be explored post-event.