

World Aquaculture Institute Corporation

Regrowing the World's Resources Advancing Nutrition, Medicine,
Protein & Environment fighting World Hunger, Malnutrition

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EARLY STAGE SUSTAINABLE RESPONSIBLE INVESTMENTS-LEARN FROM EXPERIENCE William Connor, WorldAquaculture.org

"Global Aquaculture Initiative"

"It's Time to Rethink Growth and the Implications for Sustainable Investing We live on a finite planet with finite resources, where continued economic growth seems no longer sustainable. As such, we need to rethink how we define growth. As financial professionals and stewards of our clients' capital, we need to take a more balanced approach to investing—one that focuses both on sustainable capitalism and on sustainable growth.

With a world population of about 7 billion people, forecasted to grow to 9 billion by 2050, the challenges we face are unprecedented

Investors who integrate environmental, social, and governance (ESG) factors are still mainly motivated by short-term rather than long-term benefits, which does not seem to be sufficient for sustainable investments to spur sustainable development. I propose a methodological redirection of sustainable investments toward a long-term pattern to find ways to transform sustainable investments into sustainable business practices.

In 1999 as owner/operator of the Massachusetts Strategic Plan for Aquaculture, see Taunton Daily Gazette, 11/5/1999 I am quoted to say "I intend to focus on world hunger and the needed production of fin fish to supplement the world food shortages."

I founded WorldAquaculture.org to focus on what I call the "Blue Evolution" which is providing permanent life changing impact on women and children and the world protein supply; through the use of fish farms as a strategic solution; to help in eradicating childhood protein energy malnutrition, to improve the quality of life, health, education of people and the natural resources of the world. My hopes were that these efforts would prevent a global malnutrition famine as the world's population grows out of control and oceans will not be able to support the world populations' fish protein needs

UNICEF has reported that more than 15,000 children die every day from malnutrition worldwide. Protein Energy Malnutrition (PEM), marasmus, is the world's most lethal form of malnutrition in children. Globally, protein deficiency is the leading cause of brain damage, depressed immune system, severe developmental growth problems, and chronic illness of hundreds of million(s) of pregnant women and children The problem is so significant that the United Nations' designated malnutrition a major health crisis in 2008 and we are building

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awareness of this silent killer and helping pave the way to safer fish farming and maximum nutritional benefits.

It is great to see how much we have accomplished from that first day in 2007 at the kick off of the UN's Malnutrition Initiative luncheon. WorldAquaculture.org strategy implemented since then we have accomplished a lot but as always not enough. In 2007 working with the Ford Foundation, we developed the "Ghana Aquaculture Program" that is being copied in many countries like Uganda, Maldives, South Africa to name a few with fish farms built in local communities to supply fish protein to eradicate childhood PEM-Protein Energy Malnutrition.

What we wrote then in 2007 is now a reality in Ghana today, there are cooperatives in Ghana growing fish in Lake Victoria that received \$200,000 cedars for their crop and Ghana is investing an additional \$75,000,000 to increase aquaculture; see: Rockefeller's Bellagio Initiative's WA Ghana Concept paper: <http://www.bellagioinitiative.org/submissions/ghana-aqua-farm-sustainable-ecological-aquaculture-to-eradicate-protein-energy-malnutrition/>

Now my focus is to help do more and together build upon the Global Water Challenge and Global Water Initiative by raising awareness of opportunities for multiple water uses by building out these water systems with a "Global Aquaculture Initiative"(GAI) whose focus is women and children to address the major health crisis of PEM malnutrition by training workers on aquaculture issues; constructing aquaculture farms; and offering leadership to further fight the declining state of the world's protein food supply by the world's poorest people. Water from fish farms can increase crop yield 30%.

These projects at local and national levels will help catalyze change toward better health, education, nutrition with integrated management to build out these water resources. By combining capacities to support services in water supply, aquaculture, hydroponics, agriculture with environmental management.

What makes the Global Aquaculture Initiative distinctive from other development efforts is that we will use all the organizations that have been involved from the outset of the Global Water Initiative and Global Water Challenge and collectively build the common vision.

We need to build out these water systems, patiently teach poor farmers around the world; the "Blue Evolution" aqua cultural and hydroponic techniques that will prevent a global malnutrition famine.

A specific highlight of this initiative is the opportunity to address trans-boundary issues and regional watersheds in a broad approach. Combining these strengths provides an unusual opportunity to support transformation of water management in selected countries in close cooperation with other local partners and agencies.

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This initiative is designed to recognize and meet the needs of both domestic and productive water uses, while combining integrated watershed management with environmental accountability. It is our objective to utilize and leverage our experiences and that of our partners to create a flexible and spontaneous approach to providing poor communities access to safe drinking water and fish protein. By building new constituencies, creating stronger alliances and engaging all stakeholders, it is our hope to create a new vision and an effective platform for facilitating long-term change at local levels, by replicating and scaling solutions at global levels with the "Global Aquaculture Initiative".

World Aquaculture's Blue Evolution campaign is In compliance with the United Nations Millennium Development Goals, the campaign will be dedicated to reducing worldwide child mortality below 5% within the next ten years. To achieve our goal we will provide protein-starved regions of the World- beginning with Uganda- with low cost, high yield community based/owned, self-sustainable and ecologically friendly Aqua-Farms. These protein producing machines are the first step in eradicating PEM.

Over these last 20 years, we practitioners of sustainable ecological aquaculture have thoroughly demonstrated proof of principle in designing, engineering, and implementing models of aquaculture ecosystems suitable for diverse natural and social ecosystems. These sustainable, ecological aquaculture systems (SEAS) demonstrate innovations in the integration of mariculture and marine ecosystems, combining aquaculture, agriculture and restoration, and incorporate advances in input and output management, solar, water, and wind energy.

WA is pushing to rapidly accelerate the Blue Evolution through the financial support of the world's people, corporations and philanthropists.

We will take what we have learned and was implemented in Ghana and provide these programs and lessons to other countries globally.

The Global Aquaculture Initiative has a Community-Based Stewardship Model Defining Ecological Aquaculture which incorporates social ecology with community development.

Our principles of ecological aquaculture are:

1. Decrease childhood mortality rates by producing and increasing a self-sustainable nutritional fish protein supply.
2. Preserve the form and functions of natural ecosystems.
3. Become an integral part of a community and a region.
4. Practice input management and trophic level efficiency, ensuring that aquaculture is a highly efficient protein producer.
5. Practice output management by not discharging any nutrient, chemical, or biological pollution.

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World Aquaculture believes that the development and proliferation of sustainable aquaculture is essential to secure the future of thousands of resource-dependent families and their communities, and to provide healthy sustainable aquatic proteins to billions of people in the future.

Please help us today, as we are committed to working with partners throughout the world to develop aquaculture ecosystems that not only use the best science available, but also incorporate the principles of social ecology, social sustainability, and "social profit" into all phases of planning for aquaculture developments. Thank you"

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