

Building Confidence in Aquaculture: Thoughts on the Future in the Pecha Kucha Style

Power of Collaboration

- SUNIL KADRI, AQUAINNOVATION
- MATT THOMPSON, NEW ENGLAND AQUARIUM
- ROBERT JONES, THE NATURE CONSERVANCY
- o ISAAC FRAYND, AQUA-SPARK
- JENNIFER BUSHMAN, ROUTE TO MARKET
- o SCOTT WILLIAMS, BJ'S WHOLESALE CLUB





AQUACULTURE LEAD THE NATURE CONSERVANCY

Robert Jones

Robert is the global lead for aquaculture for The Nature Conservancy. He manages projects designed to demonstrate the environmental, social and economic benefits that aquaculture provides for people and nature. Previously, he was the program coordinator for the NOAA Fisheries Office of Aquaculture, where he worked to develop the agency's new Marine Aquaculture Strategic Plan. Before that, Robert served as Knauss Fellow with the U.S. Department of State.











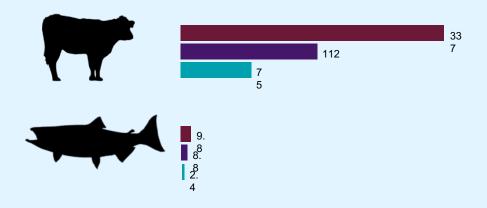
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Resource Use of Beef versus Aquaculture



GHG Emissions
(tonnes CO₂ emissions per tonne edible protein)

Land Use
(hectare per tonne edible protein)

Fresh Water
Use (m³ per tonne edible protein)

Credit: Aquarium of the Pacific



Aquaculture cannot fulfill its promise if major challenges are not addressed

Environmental Challenges

- Habitat Impacts
- Water Pollution
- Impacts to wild stocks
- Disease

Social Challenges:

- Labor Issues
- Gender Issues
- Impacts to fishing communities and other ocean users





A sustainable future for aquaculture means rethinking the:

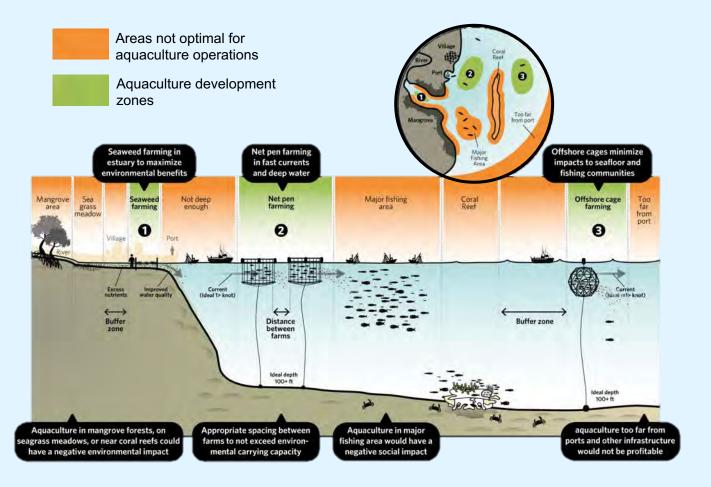


we grow our seafood



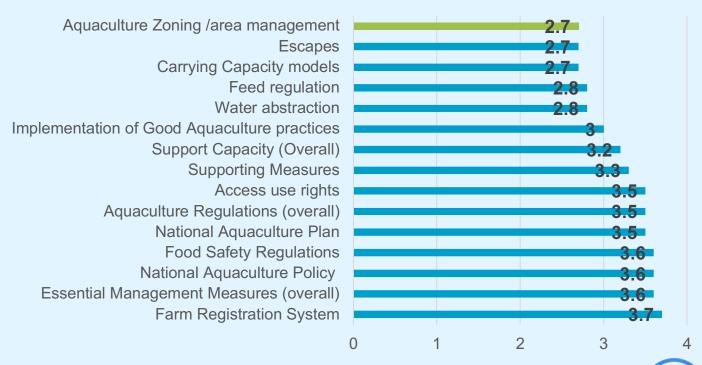
AQUACULTURE BY DESIGN







Countries are asking for help:



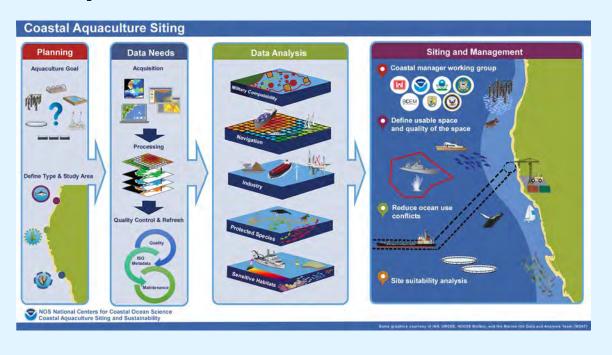
0 = Absolute Lack of Measure; 5= Full Enforcement at Ground-Level

Source: FAO Aquaculture Subcommittee, Rome 2017





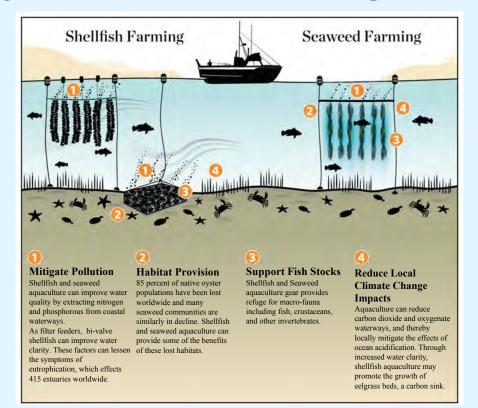
Partnership with NOAA on aquaculture spatial planning to transfer these techniques to countries around the world







Can aquaculture help restore ecosystems rather than degrade them?

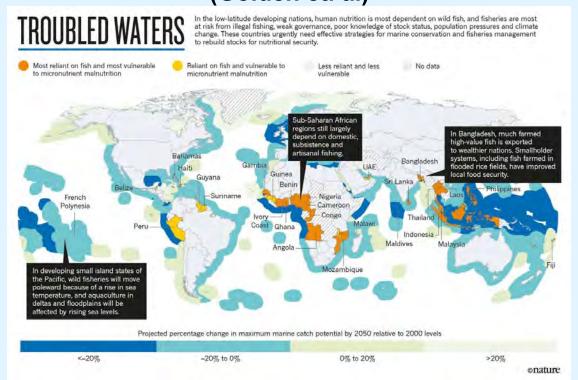








Countries reliant on wild fish and nutritionally vulnerable (Golden et. al)





Marine aquaculture currently not benefitting nutritionally insecure communities (Golden et. al)

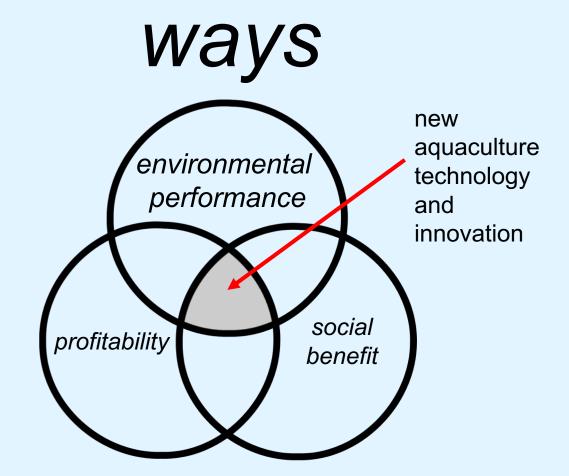




Is nutritionally-sensitive & sustainable marine aquaculture possible?









Production Methods





Supply Chain Innovations





Pre-competitive Information Products for Investors and Philanthropists



