

Animal Health & Welfare

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- PRESENTER IAIN SHONE | GLOBAL AQUACULTURE ALLIANCE

GLOBAL OUTLOOK FOR AQUACULTURE LEADERSHIP

GUANGZHOU, CHINA | DAY 1

HEALTHY FISH | HEALTHY PEOPLE | HEALTHY PLANET



Iain Shone

- Iain Shone has been Global Aquaculture Alliance's development director since 2014.
- He has been committed to GAA's mission of responsible aquaculture for 15 years, supporting the development the Best Aquaculture Practices third-party certification program from the outset and guiding the organization's evolution as a director on the board.
- Previously, he served on GAA's Executive Committee, representing Lyons Seafoods Ltd., where acted as the UK supplier's director of sourcing.



Zone Management Program

Biosecurity Area Management Standard

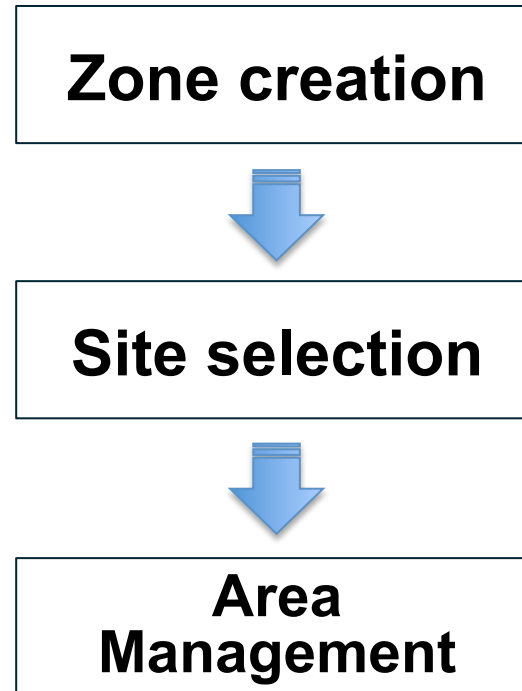
Iain Shone

GOAL 2016 Guangzhou



What is Zone Management?

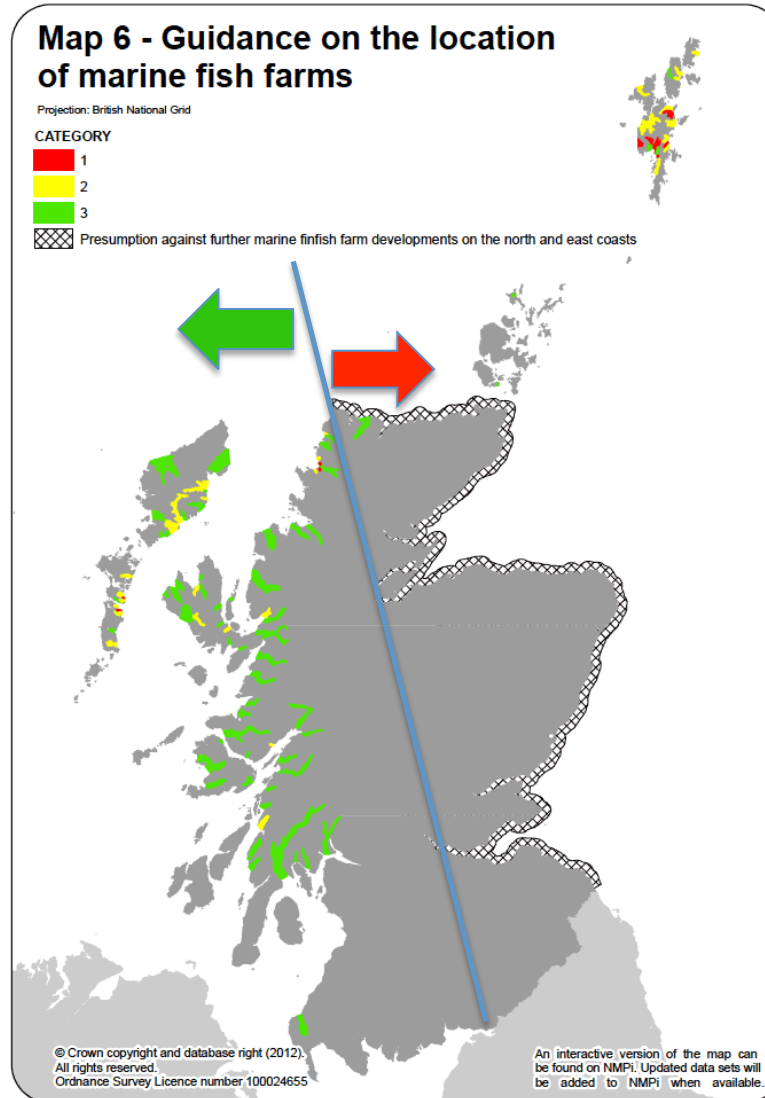
Zone management is *not the norm* in aquaculture. Where it is practiced either in full or in part, is often a regulatory function for spatial planning & resource management



What is Zone Management?

Zone creation

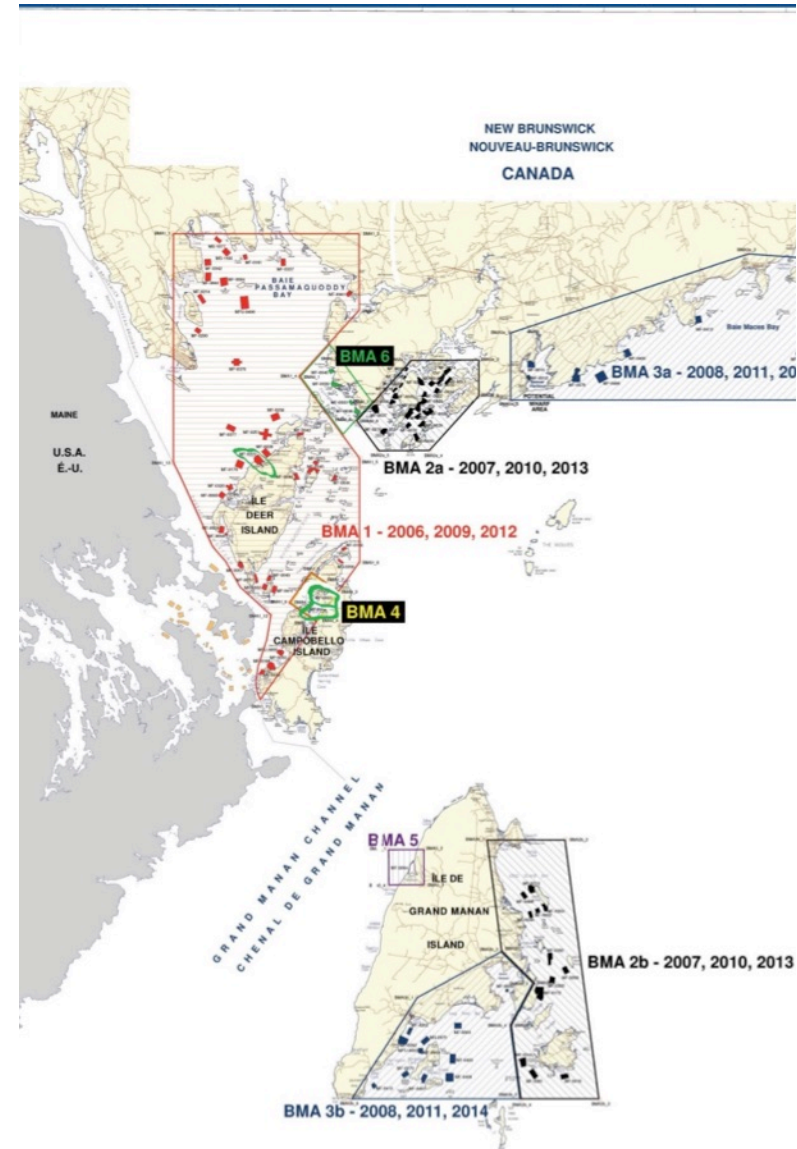
- The formation of large scale zones **by governments** for aquaculture development e.g. coastlines
- Wide stakeholder input
- Environmental, social, economic considerations
- Control to avoid over development (effluent, disease) or 'carrying capacity' – very complex!



What is Zone Management?

Zone creation

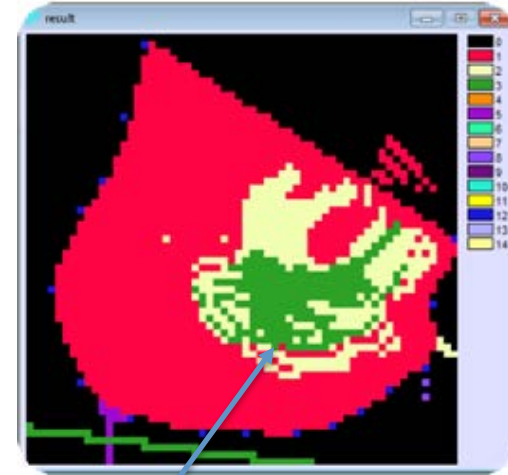
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What is Zone Management?

Site selection

- **Private sector** assesses the best locations for farms **within the zone**, according to species & farming system
- An Environmental Impact Assessment (EIA) is normally required
- Permits or Licenses are granted by regulating authority

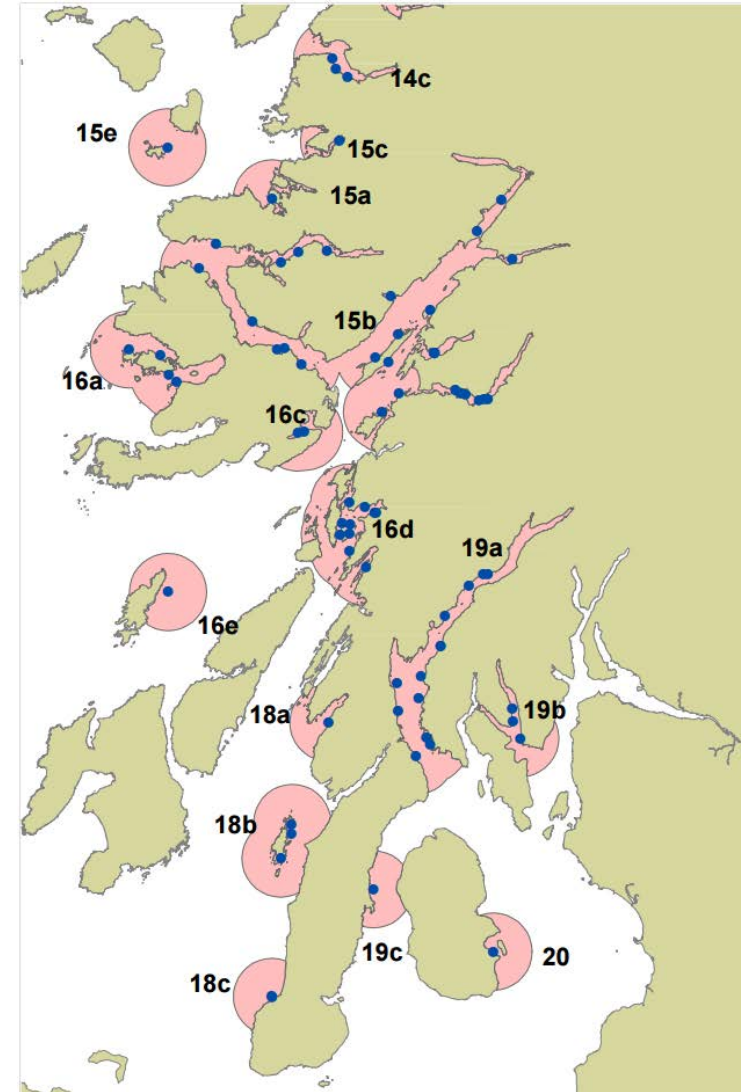


Site selection study

What is Zone Management?

Area Management

- Tend to be created where farms share a common water body & therefore their practices can **impact on each other**
- The farms benefit from a common management system to minimize risks



23 April 2015

Case studies explain the benefits

**Especially with regards
to disease management**

7 Coastal Shrimp Farming in Thailand: Searching for Sustainability

B. Szuster
Department of Geography, University of Hawai'i at Manoa, Honolulu, Hawaii, USA,
e-mail: szuster@hawaii.edu

Abstract

Shrimp farming in Thailand provides a fascinating example of how the global trade in agricultural commodities can produce rapid transformations in land use and resource allocation within coastal regions of tropical developing nations. These transformations can have profound implications for the long-term integrity of coastal ecosystems, and represent a significant challenge to government agencies attempting to manage land and water resources. Thailand's shrimp-farming industry has suffered tremendous regional 'boom and bust' production cycles that created considerable environmental damage in rural communities. At a national scale, these events were largely masked, however, by a shifting cultivation strategy and local adaptations in husbandry techniques. This chapter outlines the need to upgrade planning systems, improve water supply infrastructure and enhance extension training services within coastal communities to address ongoing systemic environmental management problems within the Thai shrimp-farming industry.

Environmental problems have created widespread crop failures throughout the country. A predicted national-level collapse in shrimp production has not occurred since 1996.

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Food and Agriculture
Organization of the
United Nations



WORLD BANK GROUP
Environmental & Natural Resources

**Aquaculture zoning, site selection and area
management under the ecosystem approach to
aquaculture**

Photo credit: Aqualine and Yngvar Olsen

Policy Brief



Area Management benefits

Farms working together on collaborative biosecurity management plans will result in **better disease control** leading to improved harvest and crops results.

Other benefits:

- ✓ Lower risk = Lower insurance premiums
- ✓ Lower risk = Improved access to finance
- ✓ Opportunity to consolidate & improve technical services & lower cost

**Buyers benefit too!
lower risk in your
supply chain = more
reliable supply**

Zone creation



Site selection



**Global
Aquaculture
Alliance™**

**Biosecurity Area Management
Standard**



Three key phases

Application by
producer group

GAA Review



Risk Assessment &
Area plan development

CB Review



Implementation of
Area plan

CB Assessment



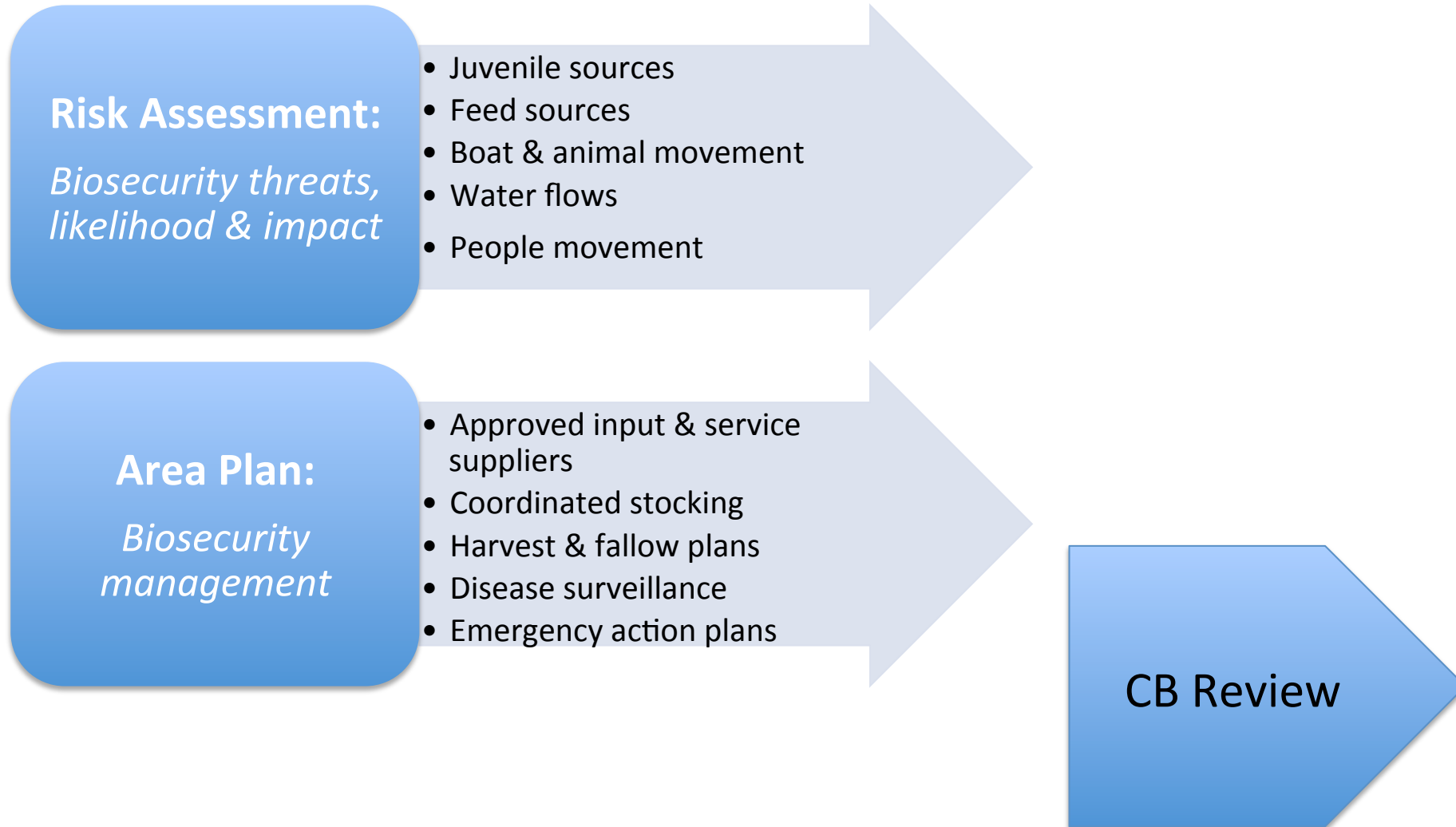
Application

The application will normally be raised by a group of producers and will be assessed by GAA to ensure the building blocks are in place to start the process:

- ✓ A proposed area containing multiple farms
- ✓ A Committee of all the producers* with signature of commitment and appointed representative
- ✓ A list of relevant non-aqua activities in the Area
- ✓ Insight into the Area's (disease) history
- ✓ Production scale and operational detail

* Exclusion of any producers has to be explained, risk assessed and justified

Risk Assessment & Area Plan development



Implementation

Risk Assessment & Area Plan

Fully implemented, working & recorded



CB Assessment

All standard criteria achieved



Certification to the GAA Biosecurity Area Standard

Area Management status



Some key issues

- Defining the 'Area'
- How to manage if there are producers in the Area that are *not* willing to participate
- How to manage with producers who may *not* have existing farm certification
- Producer collaboration



Process for raising the standard

Technical Committee, our thanks to:

- Peter Marshall RS Standards (Chair)
- Bas Geerts ASC
- Valeska Weymann Global Gap
- Ally Dingwall Sainsburys
- Jennifer Wiper Cooke Aqua
- Donal Maguire Irish Fisheries Board
- Robin Wardle Benchmark
- Patrick White Consultant- FAO
- Jonathan Shepherd Consultant
- Matt Thompsen NEAq
- Anton Immink SFP
- Joanna Smith Nature Conservancy
- Lisa Tucker MBAq
- Jon Grant Dalhousie University

Process for raising the standard

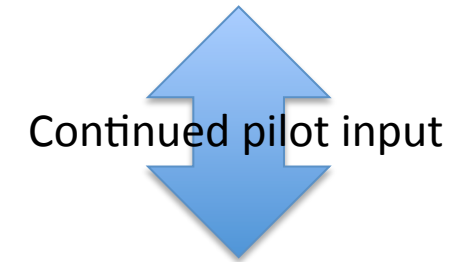
Completed steps:

- ✓ Technical Committee formed
- ✓ Consultation
- ✓ Draft standard informally presented to SOC
- ✓ Pilot input
- ✓ Pilot visit

Process for raising the standard

Steps to complete:

- ❖ GOAL 2016 formal SOC submission
- ❖ Public comment
- ❖ Audit guidance documents
- ❖ Final SOC approval
- ❖ Launch



Thank you!



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