







# Trout Aquaculture Dialogue

# **Creating standards for responsible aquaculture**

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# **Goal of the Aquaculture Dialogues**





## Why create standards?

# Minimize aquaculture's impact on:





Society

Environment



### Focus on the key impacts

### Examples from other ADs

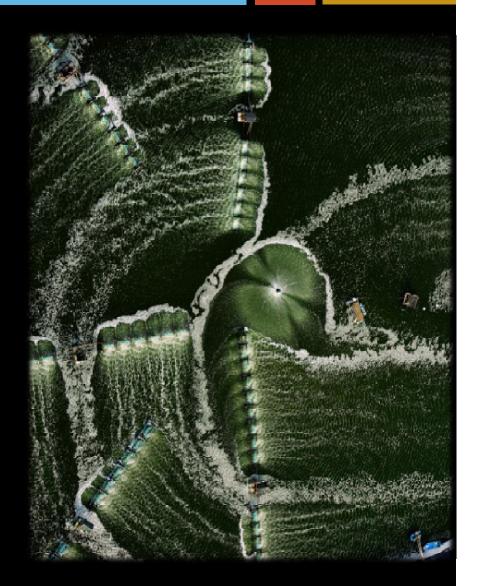
- Loss of habitat
- Transfer of disease
- Water pollution caused by excess chemicals and waste
- Depleted supplies of pelagic fish
- Unsafe working conditions





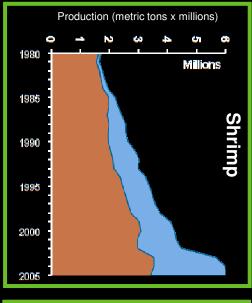
### Use standards to transform aquaculture

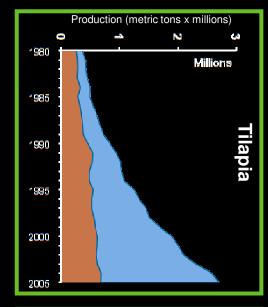
- Certification schemes
- Benchmark other standards
- Incorporate into government programs
- Create foundation for buyer and investment screens

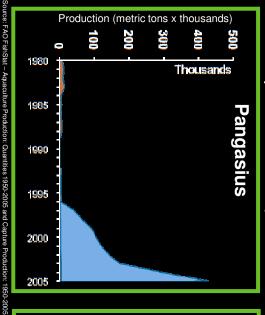


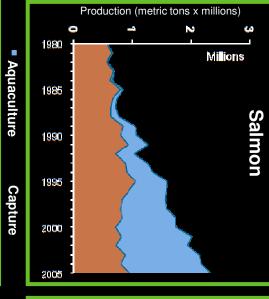


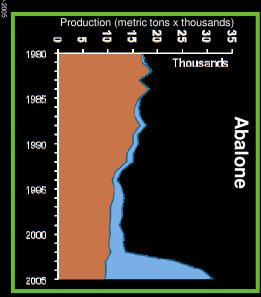
# Standards to be created for 11 species

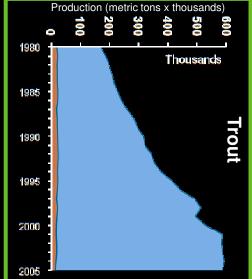






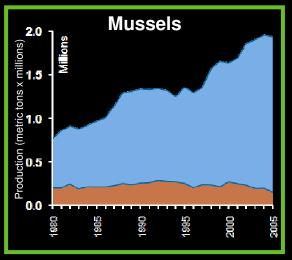


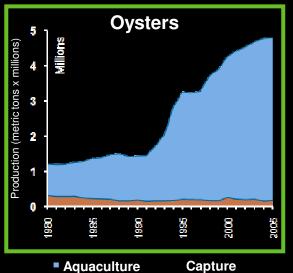


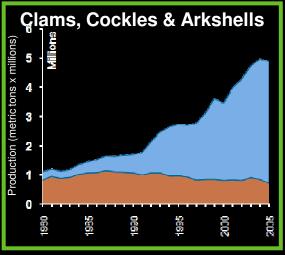


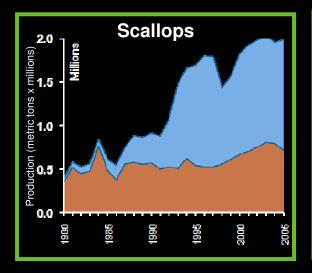


### Standards to be created for 11 species









Seriola/cobia Aquaculture Dialogue – in development

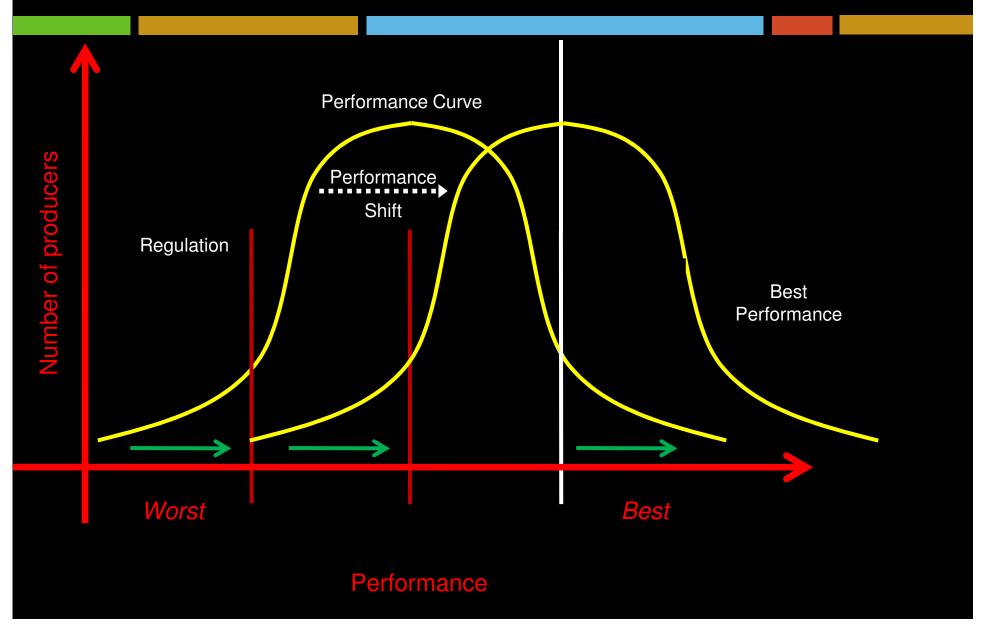


# Need 'shared language' to reach agreement

	Definition	Non-aquaculture example	Aquaculture example
Impact	The problem we want to minimize	Overweight	Waste in effluents
Principle	The guiding principle for addressing the impact	Maintain a healthy weight	Conserve water resources
Criteria	The area to focus on to address the impact	Food consumption	Nutrient use and release
Indicator	What to measure in order to determine the extent of the impact	Calories	The amount of phosphorus added and released per metric ton of fish produced
Standard	The number and/or performance level to reach to determine if the impact is being minimized	< 4.5 calories/kilogram of body weight/day	Phosphorus input or utilization in tilapia aquaculture operations will not exceed 30 kg P / mt fish produced and loads of phosphorus released into natural receiving waters will not exceed 22 kg P/mt fish produced



# Standards will encourage innovation





### Process is tried and true

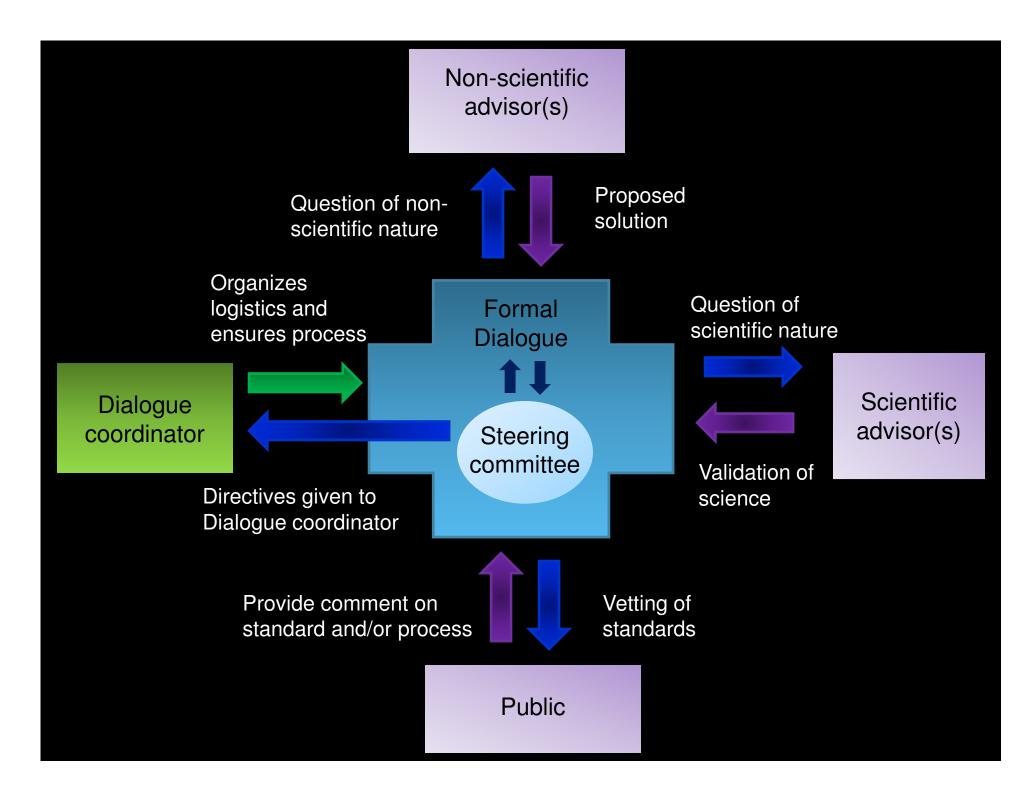
- Multi-stakeholder
- Consensus oriented
- Transparent
- Based on sound science
- Performance-based
- Measurable standards
- ISEAL compliant





### Dialogues are open to everybody

- 2-9 meetings/year/species
- 30-100 people at each meeting
- Key stakeholders: NGOs, academics, producers, buyers, government





### Participation at many levels

- Attend Dialogue meetings
- Do not attend but provide input
- Join a technical working group
- Join an advisory group
- Coordinate the Dialogue
- Serve as a steering committee member



### **Steering Committee manages process**

- Global
- Make final decisions, by consensus
- Resolve issues

WWF coordinates but does not manage the process



### Dialogues are transparent

WWF - A quaculture - Tilapia Dialogue - Additional Resources Aquaculture Digg and delicteur Tilapia Dialogue - Additional Resources February 2008, Boston Meeting Summary Meeting Agenda Presentations o Tilapia cages, by Mike Picchietti Preamble to tilapia cages, by Mick Picchietti Tilapia raceways, by Carl Baum o Tilapia ponds, by Alfonso Delfini o Coming to completion, by Dr. Aaron McNevin Standards for responsible tilapia aquaculture, by Dr. Aaron McNevin August 2007, Malaysia Meeting Summary (PDF, 89k) February 2006, Nevada Meeting Agenda (PDF, 31k) Meeting Summary (PDF, 63k) . Structure and Roles (PDF, 90k) Draft Goals and Objectives (PDF, 191k) Contact Information for Attendees (PDF, 61k) August 2005, Washington, DC. · Meeting Summary (PDF, 94k) Participants (PDF, 64k) Presentations 8th Sea Producer Presentation (PDF, 2.1M) o Compound Fish Meal Tilapia (PDF, 443k) Feed and feeding practices of tilapia (PDF, 71k) o Invasives (PDF, 1.3M) Market for Sustainable Tilapia (PDF, 1.2M) Predator Control (PDF, 2.8M)

- All meeting documents posted on the web
- Invitations sent to key stakeholders
- Meeting notices in trade publications



### Dialogues have a roadmap

Goals/objectives approved

■ 6 – 8 key impacts identified



### Dialogues have a roadmap

- Stakeholders propose criteria
- Technical working groups or stakeholders propose indicators and standards
- Two 60-day public comment periods are held
- Steering Committee finalizes full suite

# Get involved

### November

- Shrimp in Asia
- Molluscs in Spain
- Salmon in Scotland
- Trout in Denmark

### December

- Pangasius in Vietnam
- Molluscs in British Columbia
- Tilapia in Washington, DC

### February

Abalone in South Africa



# **Get involved**

www.worldwildlife.org/aquadialogues

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