Seriola/Cobia Aquaculture Dialogue

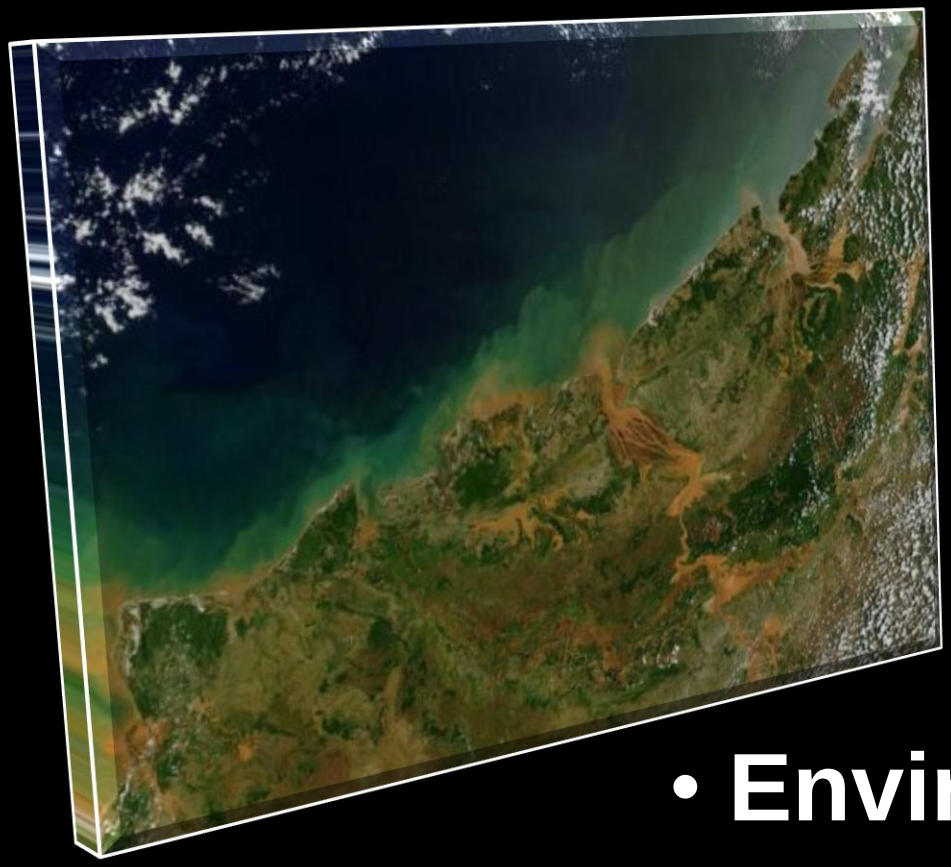
Creating standards for responsible aquaculture

Goal of the Aquaculture Dialogues

Create standards for responsible aquaculture

Why create standards?

Minimize aquaculture's impact on:



- **Society**
- **Environment**

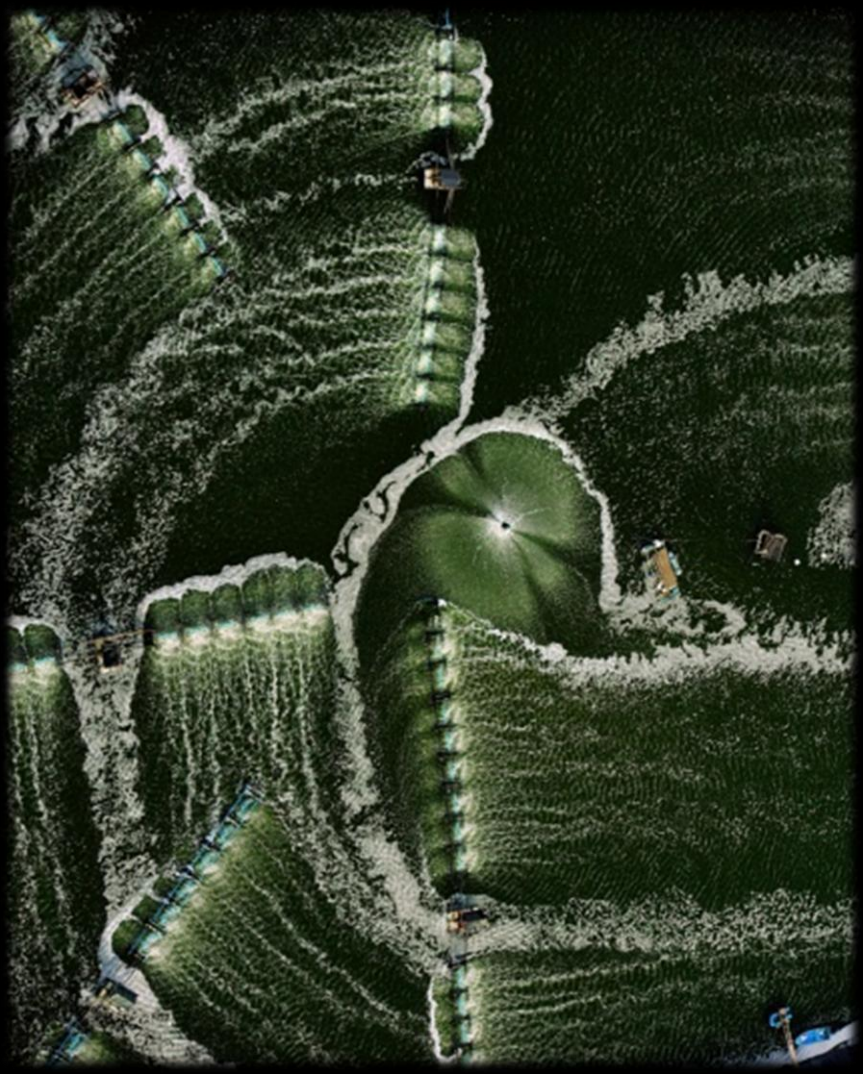
Focus on the key impacts

Examples from other ADs

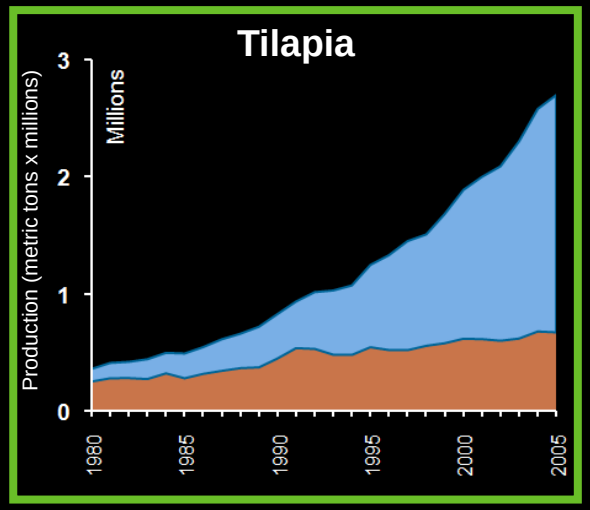
- Loss of habitat
- Transfer of disease
- Water pollution caused by excess chemicals and waste
- Depleted supplies of pelagic fish
- Unsafe working conditions

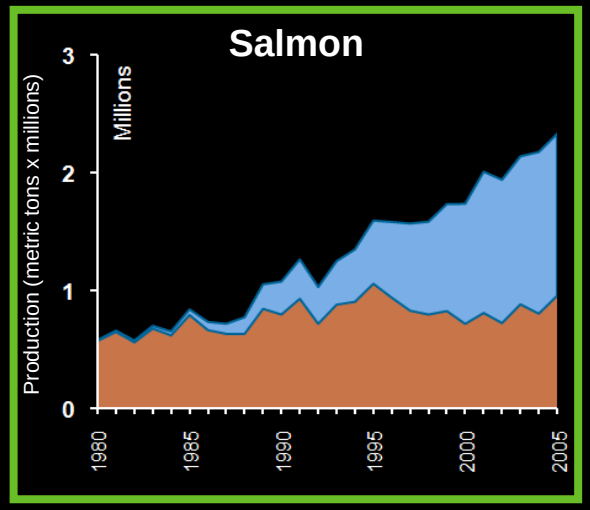
Use standards to transform aquaculture

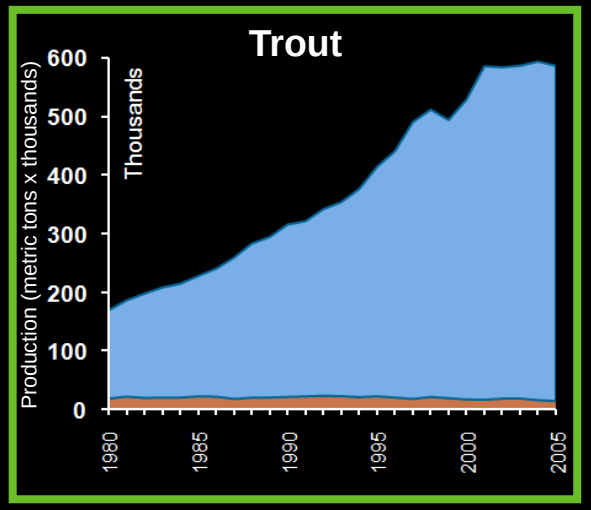
- Certification schemes
- Benchmark other standards
- Incorporate into government programs
- Create foundation for buyer and investment screens



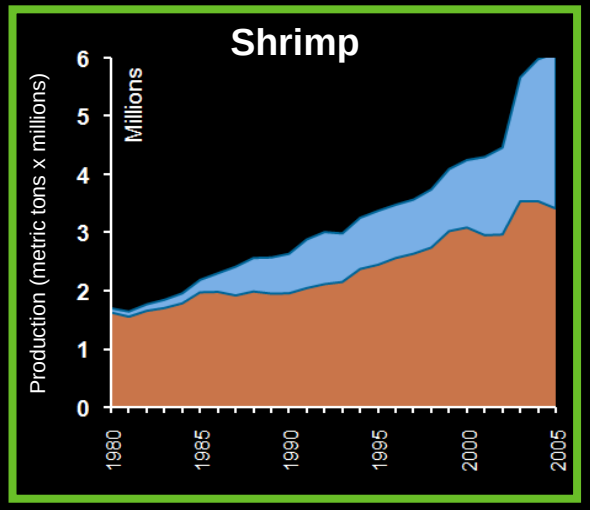
Standards for 11 species groups

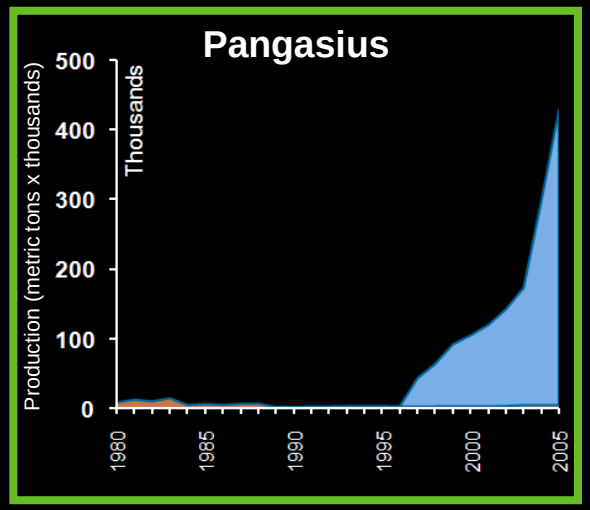


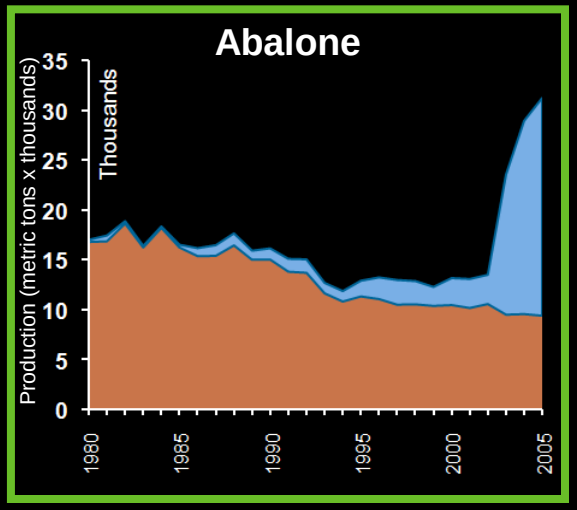




Aquaculture Capture

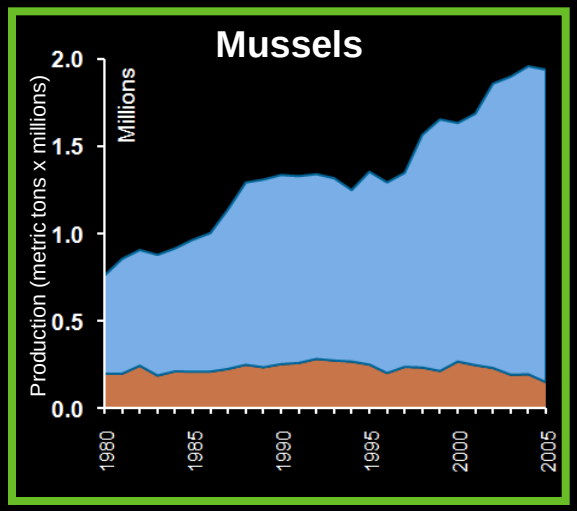


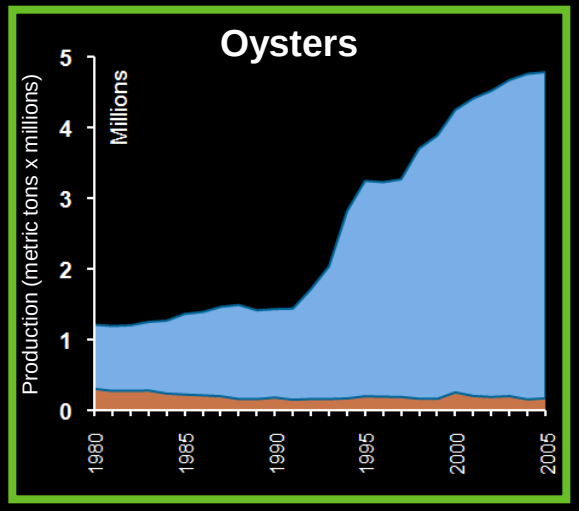


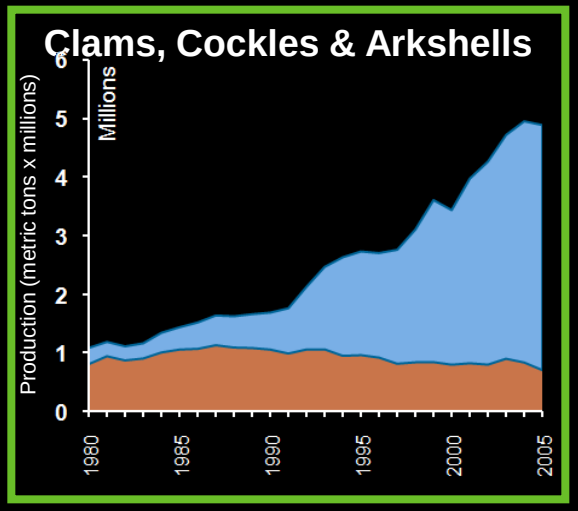


Source: FAO FishStat – Aquaculture Production: Quantities 1950-2005 and Capture Production: 1950-2005

Standards to be created for 11 species







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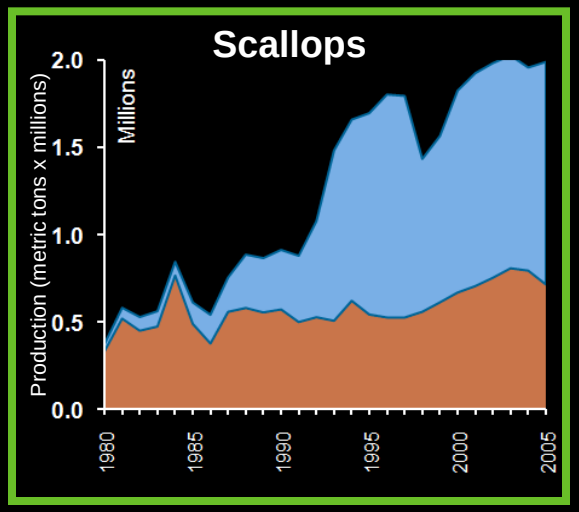
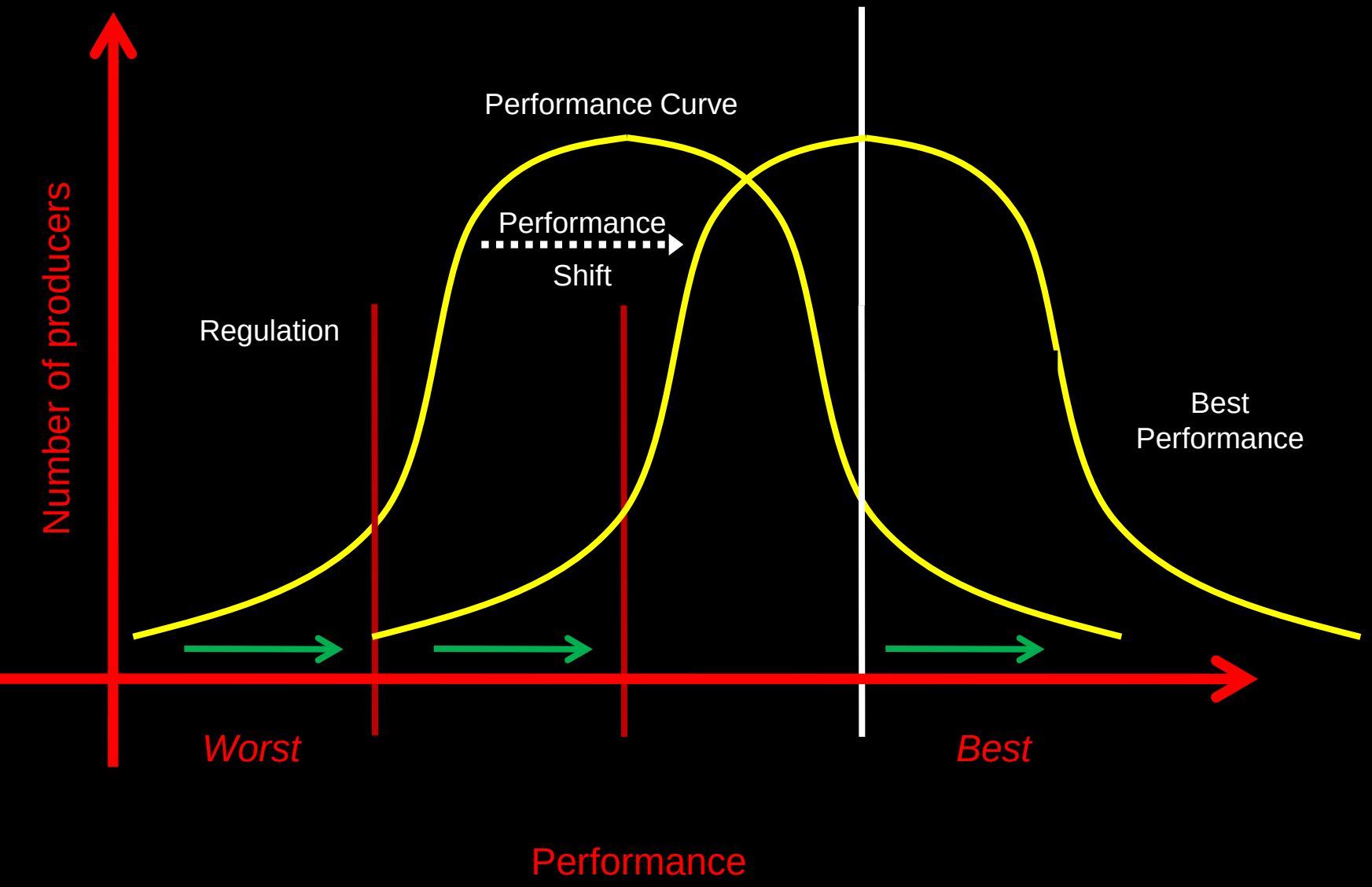


Seriola/cobia – inaccurate data

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



Dialogue Process

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

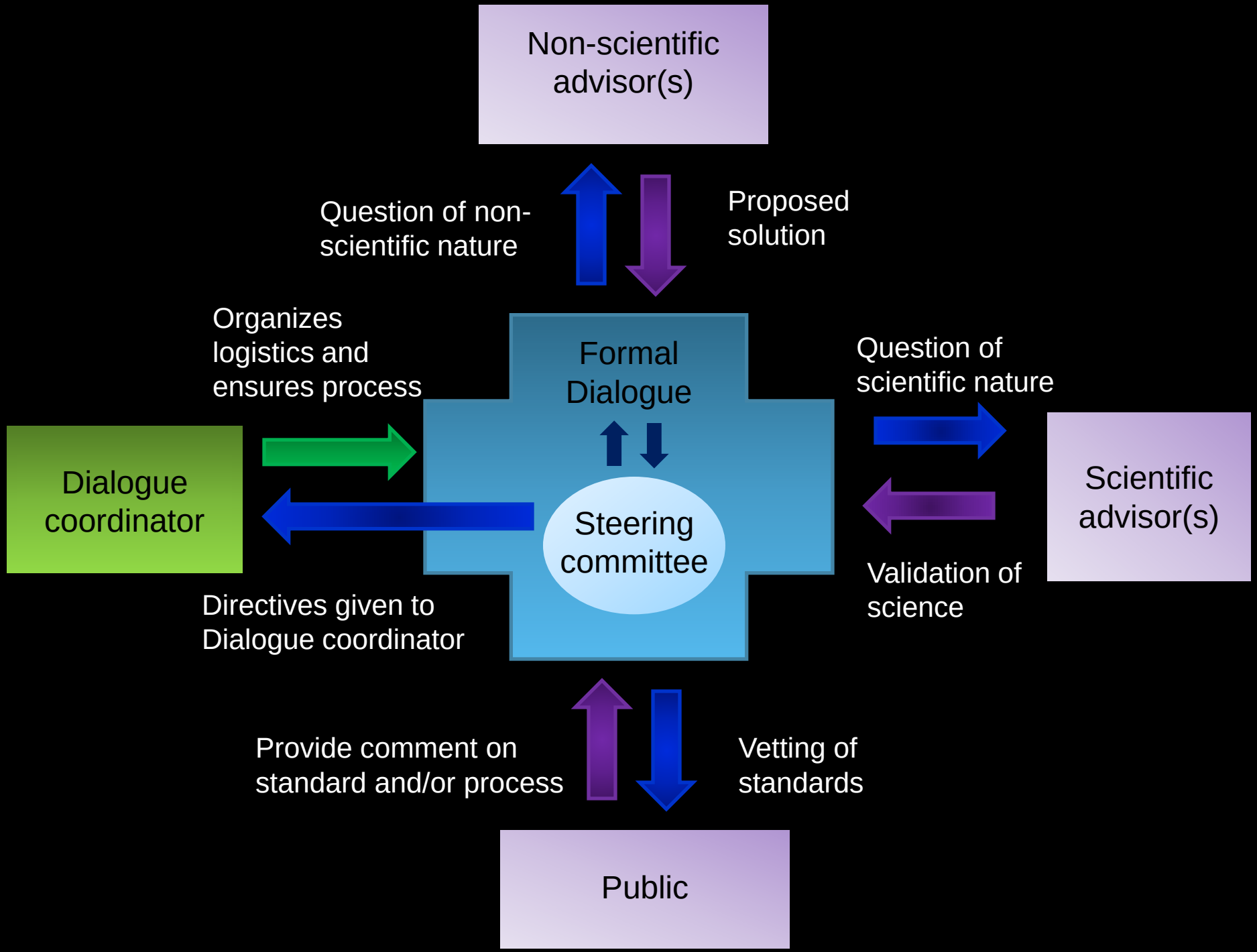
24 – January 2007 – IntraFish SPECIAL FOCUS: SUSTAINABLE SEAFOOD

IF THE U.S. AND RUSSIANS COULD DO IT: If the United States and the former Soviet Union were able to agree on treaties governing nuclear weapons, as they did in this 1963 photo, how hard can it be for tilapia producers to find common ground with environmentalists on growing standards? PHOTO: BETTMANN/CORBIS.

Tilapia dialogues:
A matter of trust

Dialogues are open to everybody

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


Non-scientific advisor(s)
Question of non-scientific nature
Proposed solution
Organizes logistics and ensures process
Formal Dialogue
Question of scientific nature
Dialogue coordinator
Steering committee
Scientific advisor(s)
Validation of science
Directives given to Dialogue coordinator
Provide comment on standard and/or process
Vetting of standards
Public

Participation at many levels

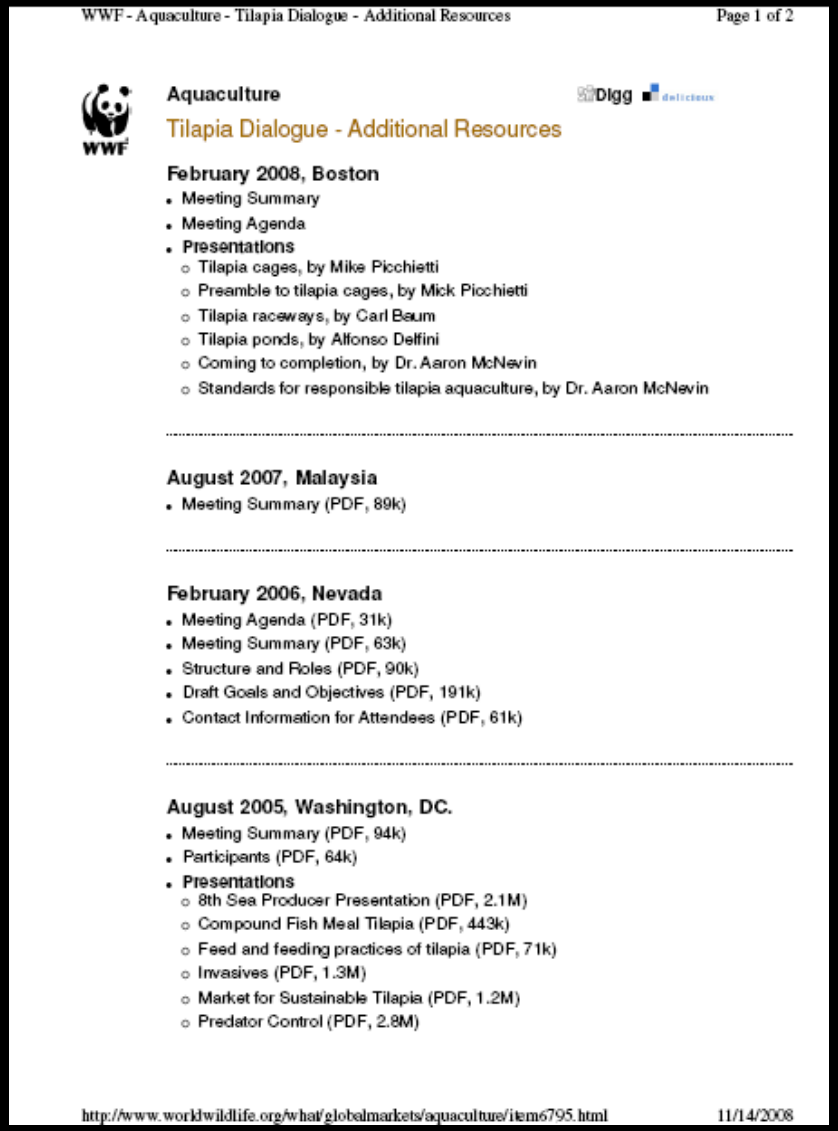
- Attend Dialogue meetings
- Do not attend but provide input
- Join a technical working group
- Join an advisory group
- Coordinate the Dialogue
- Serve as a steering committee member

Steering Committee manages process

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

WWF coordinates but does not manage the process

Dialogues are transparent



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Aquaculture

Tilapia Dialogue - Additional Resources

February 2008, Boston

- Meeting Summary
- Meeting Agenda
- Presentations
  - Tilapia cages, by Mike Picchietti
  - Preamble to tilapia cages, by Mick Picchietti
  - Tilapia raceways, by Carl Baum
  - Tilapia ponds, by Alfonso Delfini
  - 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)
  - Compound Fish Meal Tilapia (PDF, 443k)
  - Feed and feeding practices of tilapia (PDF, 71k)
  - Invasives (PDF, 1.3M)
  - Market for Sustainable Tilapia (PDF, 1.2M)
  - Predator Control (PDF, 2.8M)

http://www.worldwildlife.org/what/globalmarkets/aquaculture/item6795.html 11/14/2008

- 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

More information

www.worldwildlife.org/aquadialogues

aquacultureinfo@wwfus.org