



Seriola/Cobia Aquaculture Dialogue

**Creating standards for
responsible aquaculture**



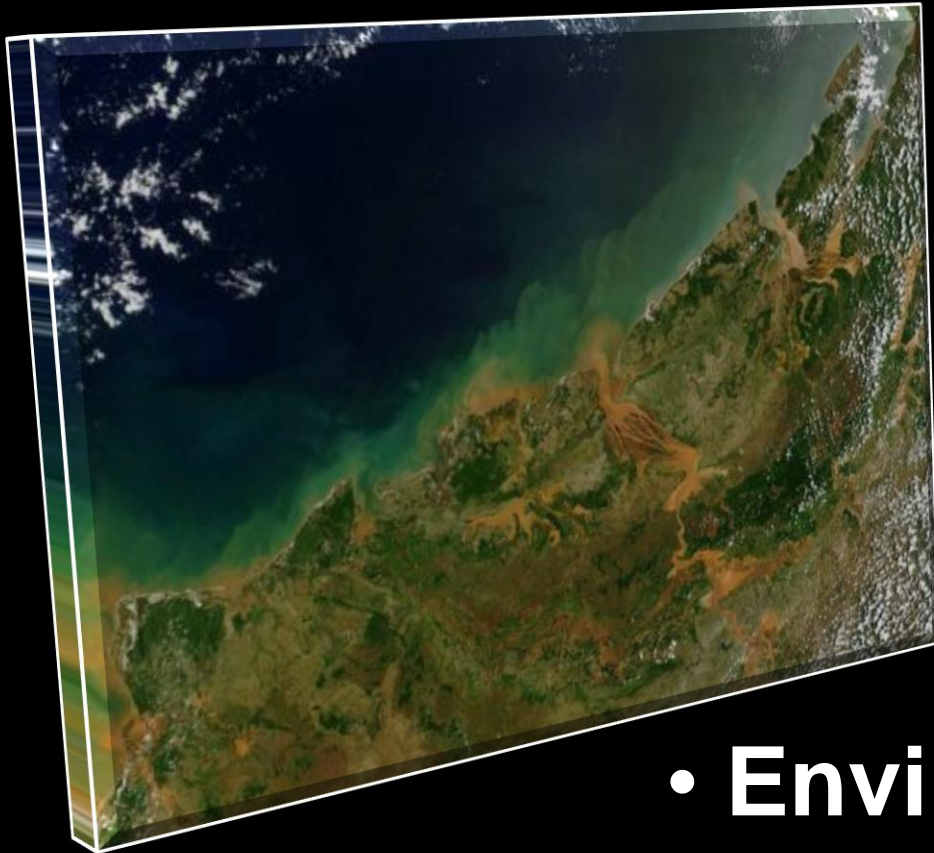
Goal of the Aquaculture Dialogues

Create standards for
responsible aquaculture



Why create standards?

Minimize aquaculture's impact on:



- **Environment**



- **Society**



Focus on the key impacts

Examples from other ADs

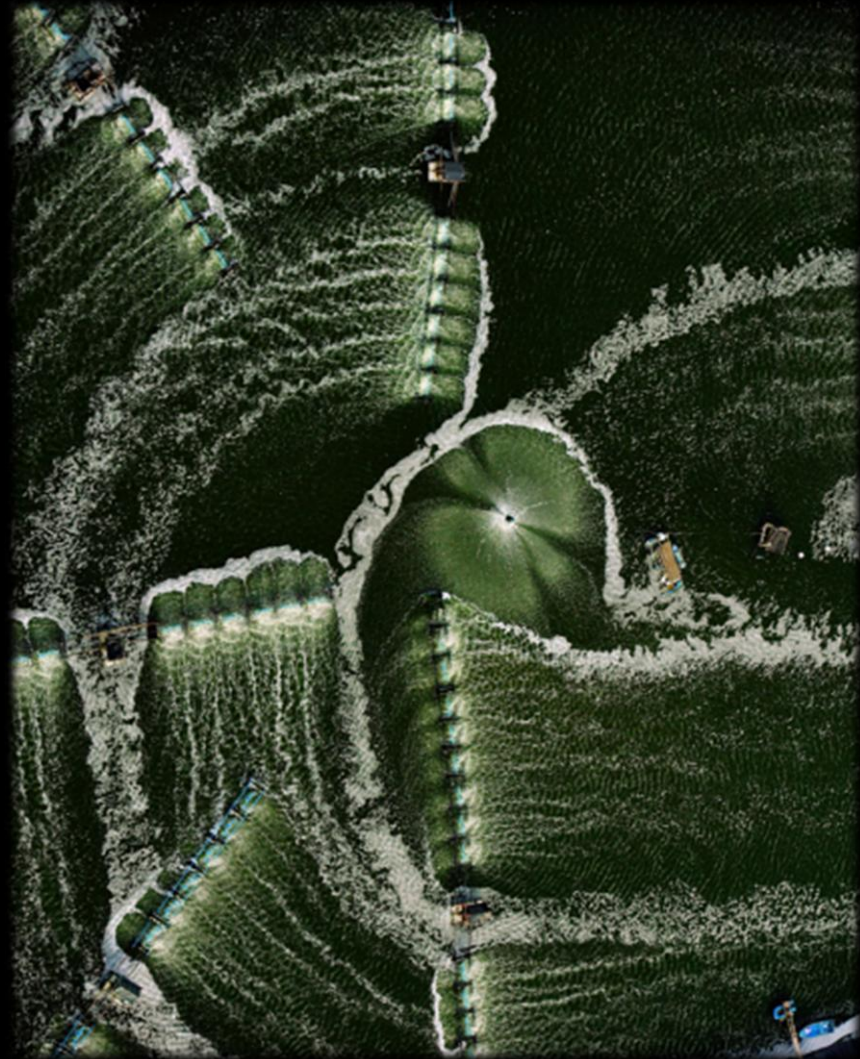
- Loss of habitat
- Transfer of disease
- Water pollution caused by excess chemicals and waste
- Depleted supplies of pelagic fish
- Unsafe working conditions





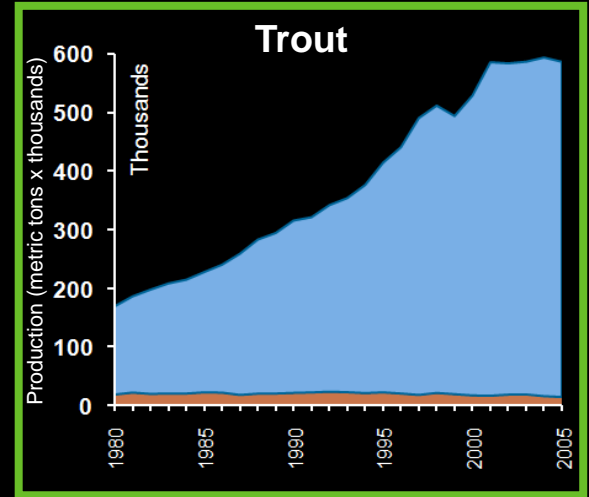
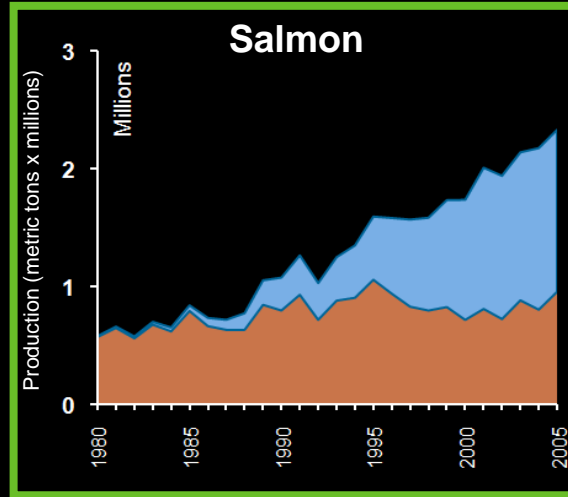
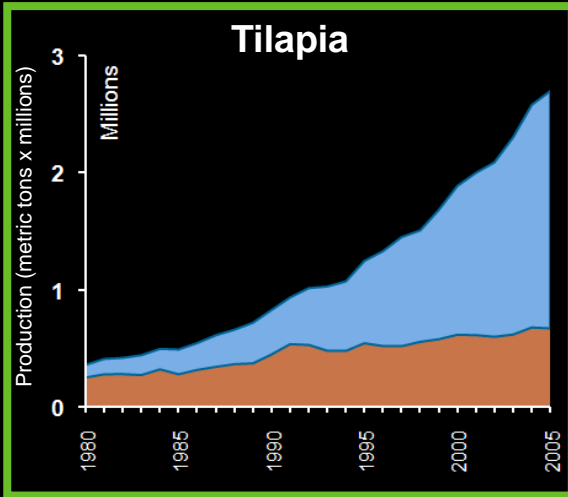
Use standards to transform aquaculture

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

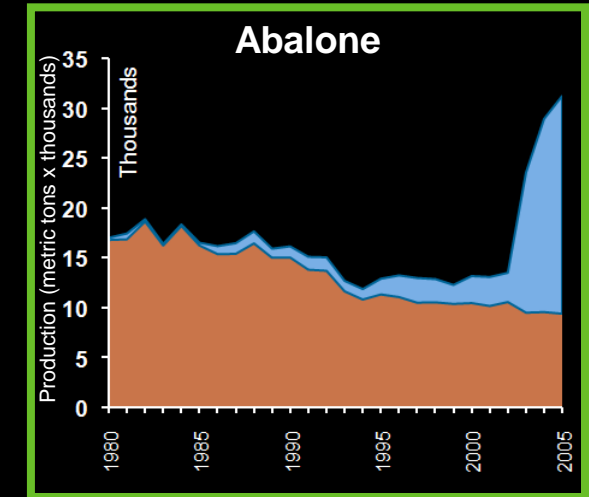
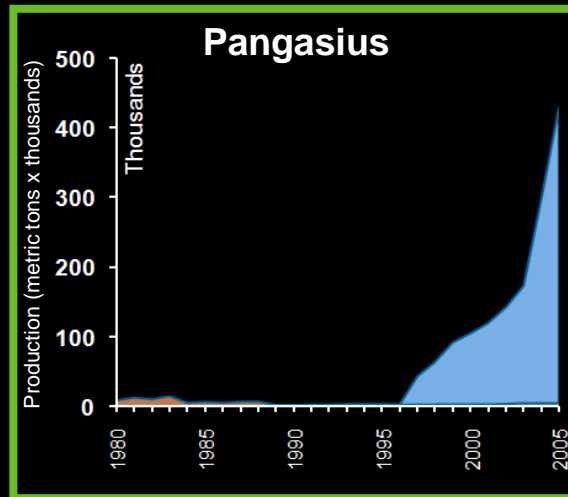
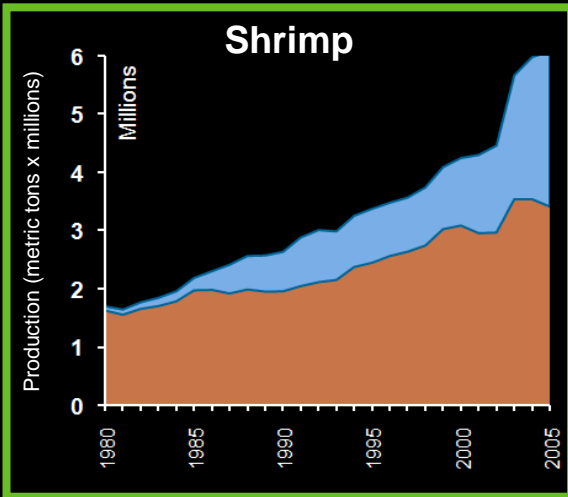




Standards to be created for 11 species



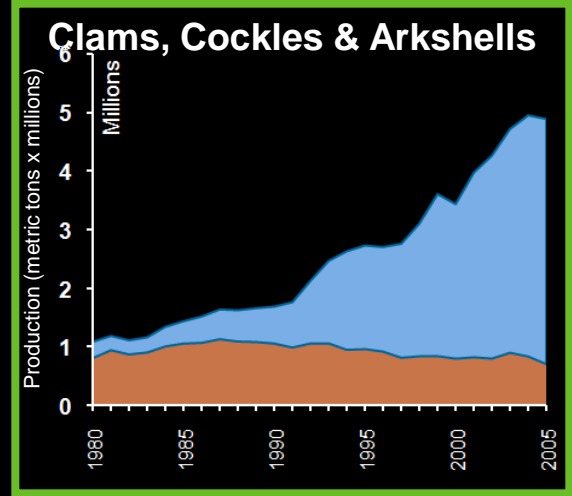
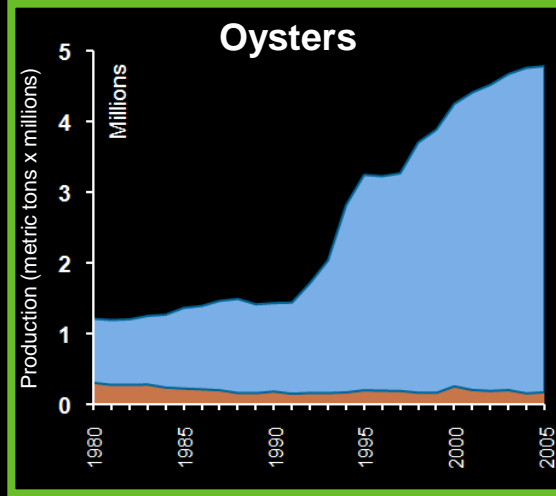
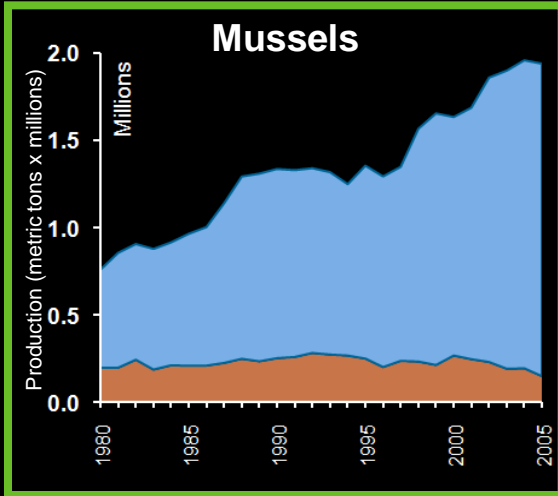
■ Aquaculture ■ Capture



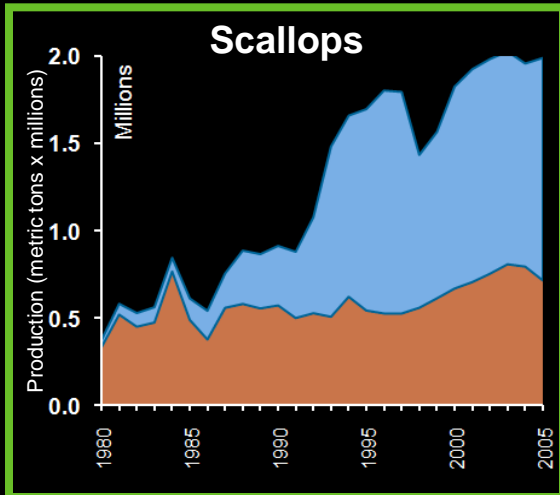
Source: FAO FishStat - Aquaculture Production: Quantities 1950-2005 and Capture Production: 1950-2005



Standards to be created for 11 species



■ Aquaculture ■ Capture



Seriola/cobia –
inaccurate data

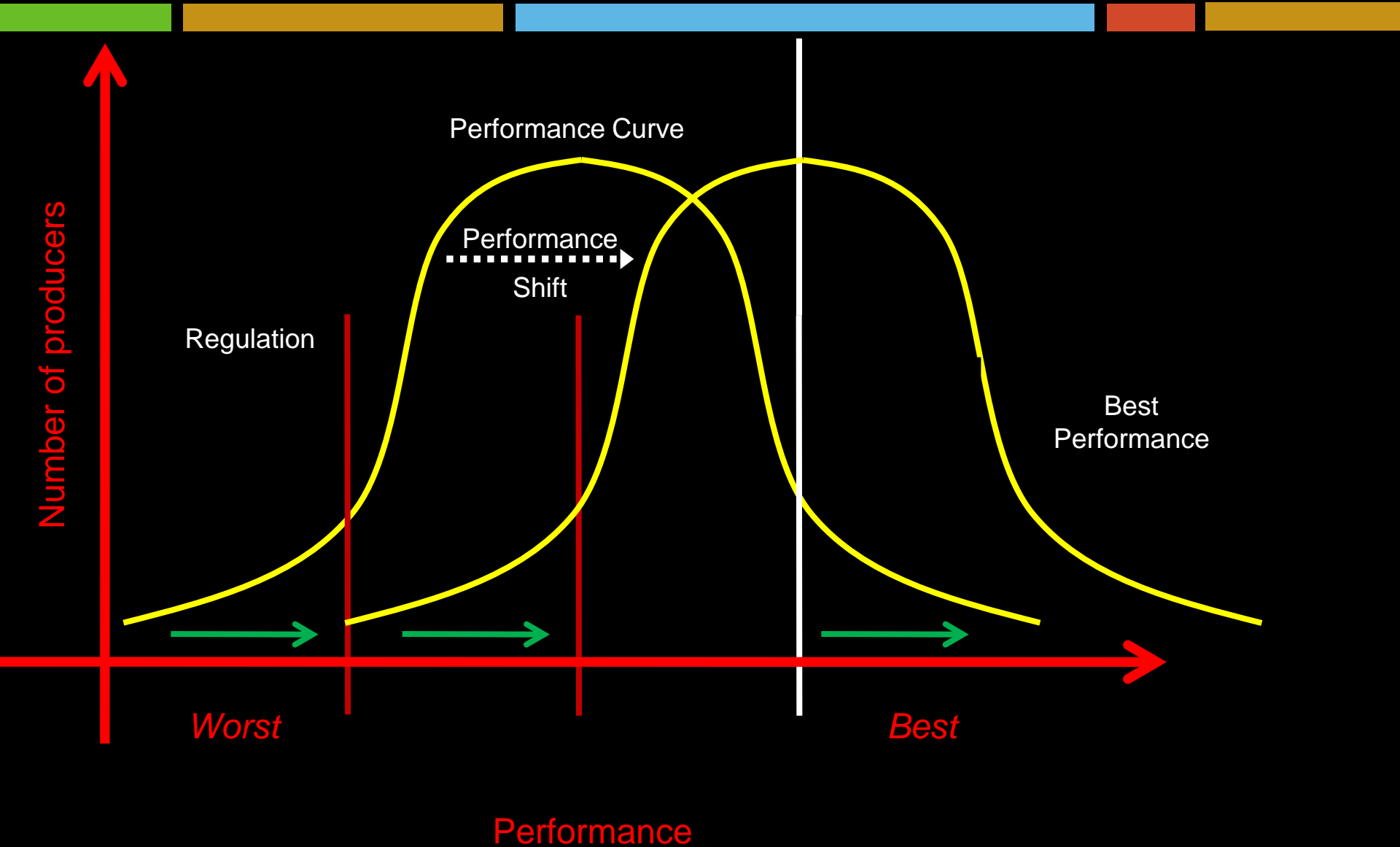


Need 'shared language' to reach agreement

	Definition	Non-aquaculture example	Aquaculture example
<i>Impact</i>	The problem we want to minimize	Overweight	Waste in effluents
<i>Principle</i>	The guiding principle for addressing the impact	Maintain a healthy weight	Conserve water resources
<i>Criteria</i>	The area to focus on to address the impact	Food consumption	Nutrient use and release
<i>Indicator</i>	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
<i>Standard</i>	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

24 - January 2007 - IntraFish **SPECIAL FOCUS: SUSTAINABLE SEAFOOD**

A black and white photograph showing a large group of men in suits seated around a long conference table. They appear to be in a formal meeting or negotiation. The room has wood-paneled walls and a framed portrait on the wall.

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

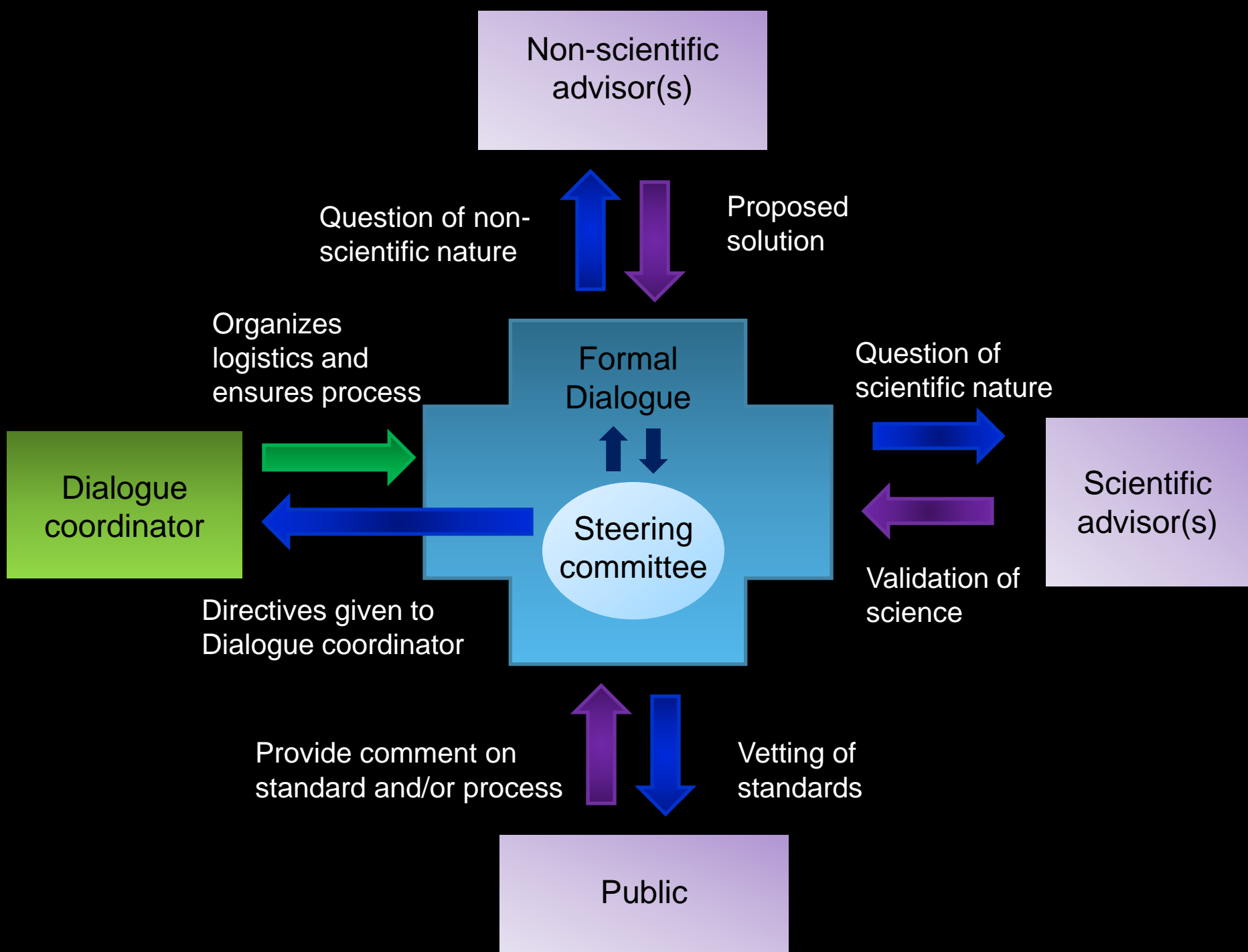
Tilapia dialogues: A matter of trust



Dialogues are open to everybody



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





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



Aquaculture



Tilapia Dialogue - Additional Resources

February 2008, Boston

- Meeting Summary
- Meeting Agenda
- Presentations
 - Tilapia cages, by Mike Picchiatti
 - Preamble to tilapia cages, by Mick Picchiatti
 - 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)

- 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

www.worldwildlife.org/aquadialogues

aquacultureinfo@wwfus.org