

Global Conference on Aquaculture 2010 Farming the waters for People and Food 22-25 September 2010, Phuket, Thailand

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Why are we gathered here?

• Farming of the waters

- Significant food production sector
- Provide many of millions of livelihood opportunities
- Contributes to: food security, nutrition, poverty alleviation
- Has a very long history
 - Thought to originate in China
 - But new evidence (?) suggests south-west Victoria, Australia: Farming of eels by the aboriginal communities
 - Need to be revisited?



• We are here to:

- Take stock of the last decade
- Evaluate how the sector could sustain in the next decade
- Ascertain how the sector could contribute to the Millennium Development Goals

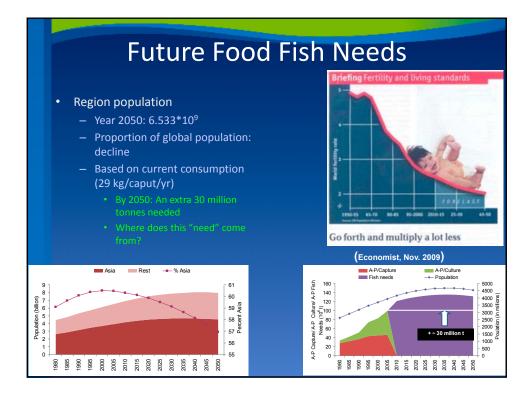




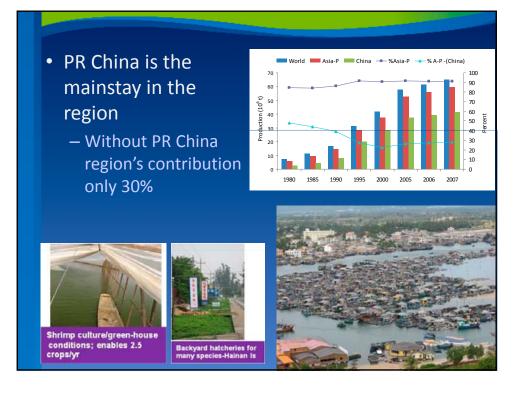


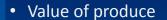




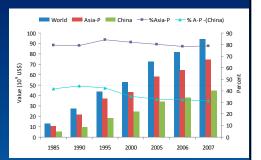


• A-P dominated aquaculture globally	
aquaculture globally 1987 13,961,611 11,939	(t)
(85.5	·
Accounts for 90% of global production	
2007 65,190,029 59,568 (91.4	



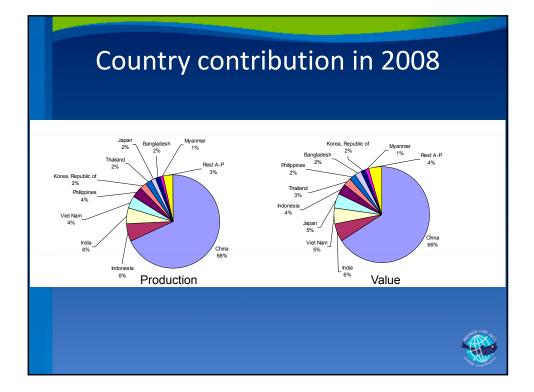


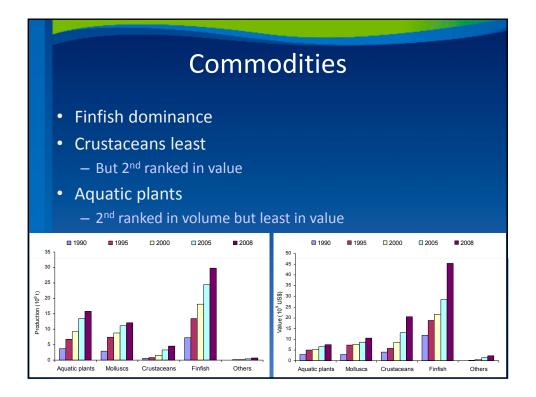
- Almost mirror image of production trend
- Overall, accounts for about 80% value of global aquaculture
- China is the main contributor
- The rest accounts for 30% of value of culture

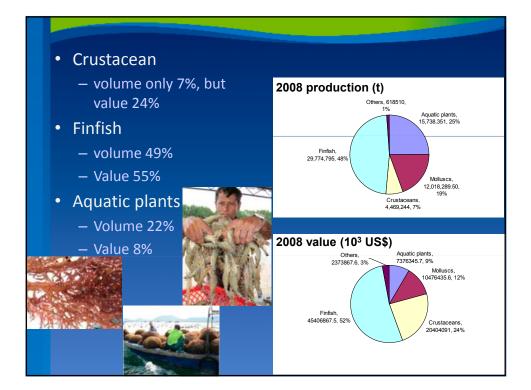


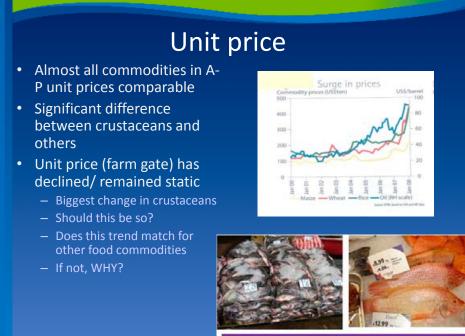




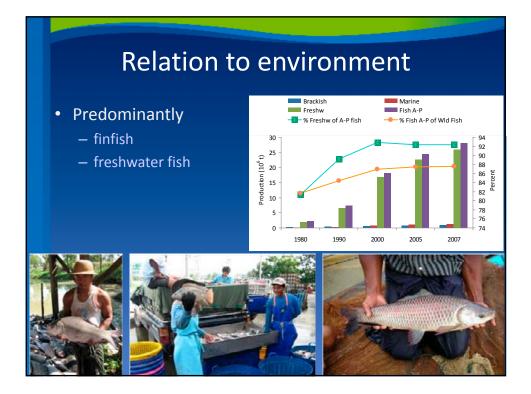


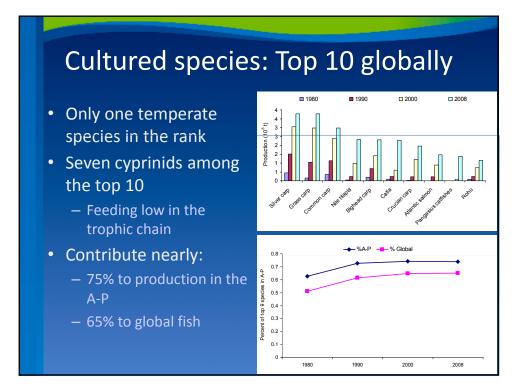


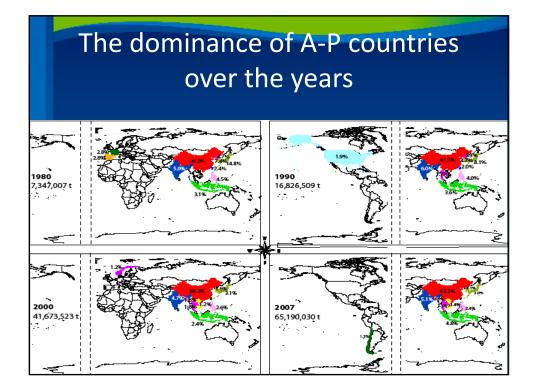


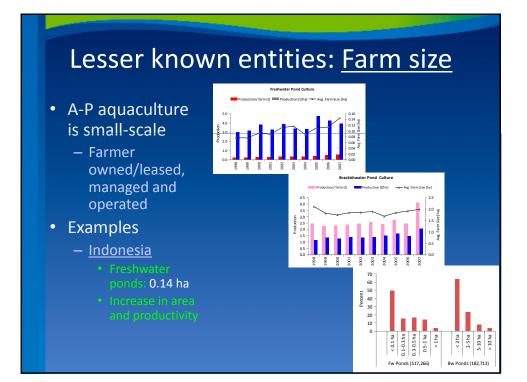


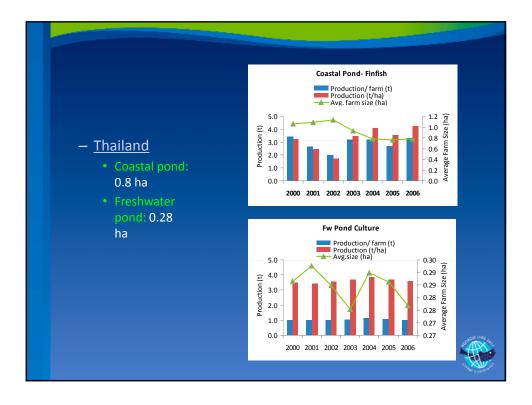
But where and for who benefits most?





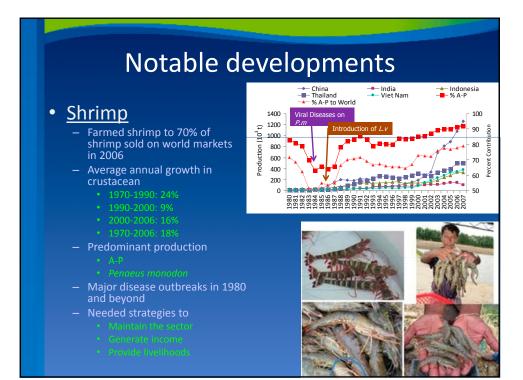


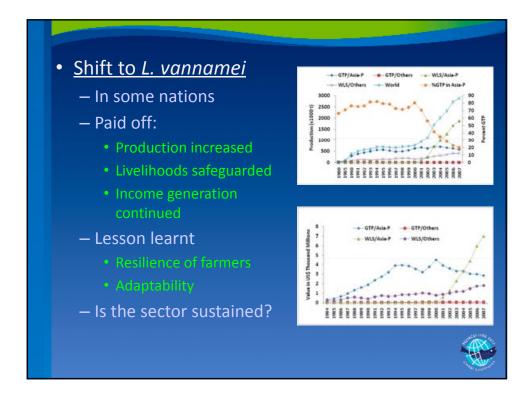














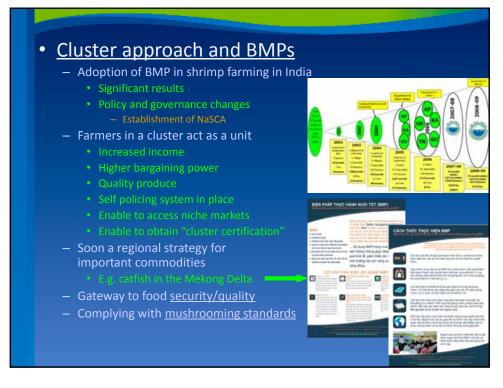




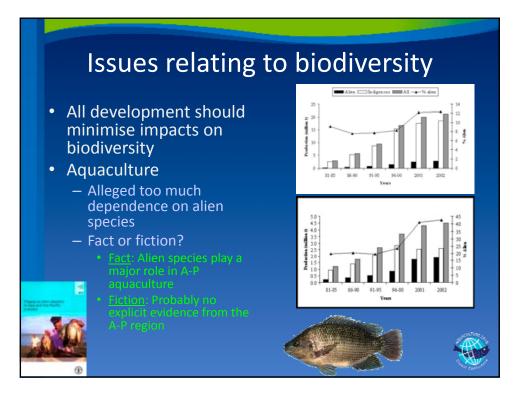


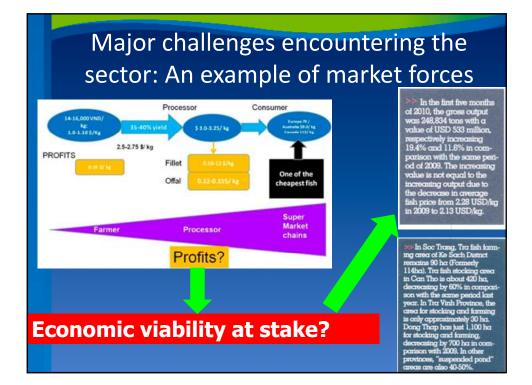


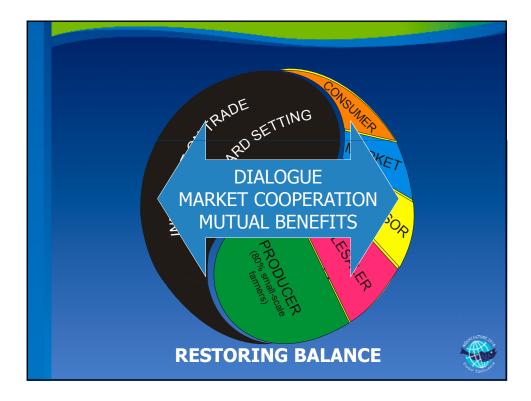


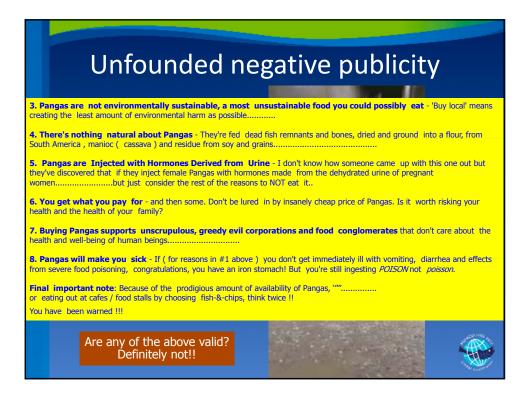




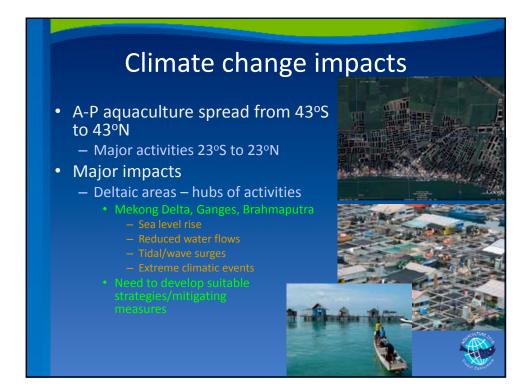








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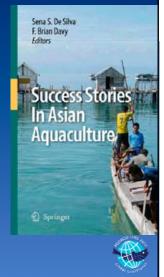
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Establishing a conducive climate for development

- Improve public perception on aquaculture

 Conductive policy developments
- Increase the profile of aquaculture
 - As a food source
 - Income generator
 - Contribute to food security
 - As an effective secondary user of water
 - Minimal environmental perturbation
 - Publicise positive impacts on
 - biodiversity
- How?
 - Develop and publicise "Success Stories"



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Furthering communication & smallscale farmer education Small scale farming Narrow profitability Often induced to use Untested, unproven efficacies Probotics (indiscriminate)

- Comparable to what is
- recommended for humansFlog technologies
 - Polovant or no

•

- Needed or not
- Proven or not
- Evidence that farmers could save up to 20% of recurrent costs
- Interactions between farmer groups

 Intra- and inter-countries
 - Learn from each other







- Controversies linger on

 E.g. Mekong mainstream damming

• In some intensive cage culture

- Alternative livelihood to "displaced persons"
- The cage culture potential in Asian reservoirs not adequately exploited
 - Exception: Indonesia
 - Ciratum watershee
 - 3 reservoirs (~20,000 ha)
 - 60-80*10³ t/yr
 - ~3,000 kg/ha/yı
 - Local, stable mark

Development not without problems

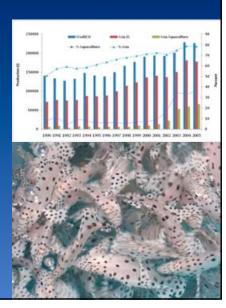
Not insurmountable



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Expansion of mariculture

- Fastest growing sub-sector – Groupers, wrasses
- Caters to lucrative markets
 - Live food fish restaurant trade
 - Growing trade
- Increasing dependence on hatchery produced seed stocks
 - E.g. mouse grouper
 - Many others developed
- Decreased dependence on wild caught fish
 - Lesser use of destructive gears
 Fragile babitat preservation
- ++ impacts on biodiversity



Application of technologies

- Genetic improvement in major cultured commodities
- Science-based broodstock management
 - Maintain and improve genetic quality of broodstock
 - Minimise negative impacts on local populations
- Molecular screening for diseases
- New strains to combat climate change impacts
 - E.g. salinity tolerance catfish for the Mekong Delta





