





Stakeholder Consultation on Progressive Management Pathway (PMP) to Improve Aquaculture Biosecurity

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Health Management in Smal-scale Aquaculture and Inland Fisheries: Opportunities for the Progressive Management Pathway (PMP) Approach

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Why Fish?

Production

Fisheries and aquaculture 167 million tonnes

Consumption

- 17% of animal protein to 7.3 billion people
- 146.3 million tons for human consumption
- >50% from aquaculture

Livelihood

10-12% of world population

Economic growth

• Export value USD 148 billion







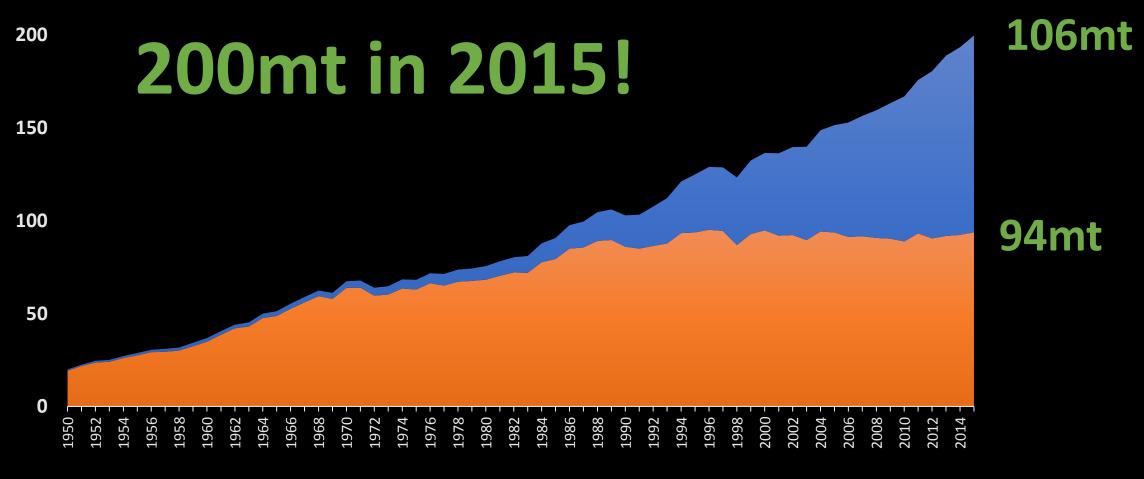




Nutritionally Superior!

VITAMIN A ZINC CALCIUM IRON





■ Capture production **■** Aquaculture

Some food for thought!

- Aquaculture is a highly complex sector!
- Aquatic (fluid) environment and its' trans-boundary nature
- Over 500 species
- Different habitats
- Different food habits
- Different production systems
- Different production practices

Open-water culture



Marine vs. Freshwater



High-value vs. Low-value



Local vs. Exportable products



Industrial vs. Small-scale



75 Percent Small-Scale!









Inland
Fisheries is almost forgotten!





Arthur, J.R.; Phillips, M.J.; Subasinghe, R.P.; Reantaso, M.B.; MacRae, I.H. (eds.) Primary Aquatic Animal Health Care in Rural, Small-scale, Aquaculture Development. FAO Fisheries Technical Paper. No. 406. Rome, FAO. 2002. 382 p.

Avoiding pathogens is almost impossible!



No access to basic aquatic animal health services!



Farmer awareness and knowledge on biosecurity is minimal!



More research, focusing smallscale farmer requirements is essential!





Basic biosecurity manual for tilapia hatchery technicians in Bangladesh

*Affordable diagnostic tools and health capacity limited!



Poor state extension services



No conducive policies and/or incentives for private-sector engagement



Floodplains and Inland fisheries health issues are nearly forgotten!









PMP – an integrated, holistic approach - might provide hope!

Thank You!