



Blue Revolution: a Partnership to Accelerate Development in India & South Asia





- IBRD: Government projects India, Pakistan, B'desh,
 Maldives, Sri Lanka TA & SME Finance
- IFC: Private sector projects increasingly active in South Asia - Feedmills
- Poverty Alleviation = More and Better Jobs

India has abundant blue assets:



- 2.47 million ha of fish ponds;
- 7.8 million ha Floodplains/lakes;
- 9,058 (3.52 million ha) reservoirs;
- 1.24 million ha brackishwater;
- 388,957 km rivers;
- 5,160 glaciers;
- 7516 km coast line

Remember the green revolution?

- 1961: India on the brink of mass famine
- Best practices in irrigation, plant breeding, fertilization linked to finance
- Rice yields 2 up to 6 T/ha
- Price \$550 a ton down to < \$200 a ton
- India now exports 4.5 million tons



Baseline

- Experienced aquaculture producer – mostly IMC & shrimp
- 2.34 million ha ponds @ 2.9 TPH
- 3.52 million ha reservoirs; ≈ 40% used @ 20 kg/ha
- Market 5.6 kg/Cap/Yr Low



Opportunities for Growth

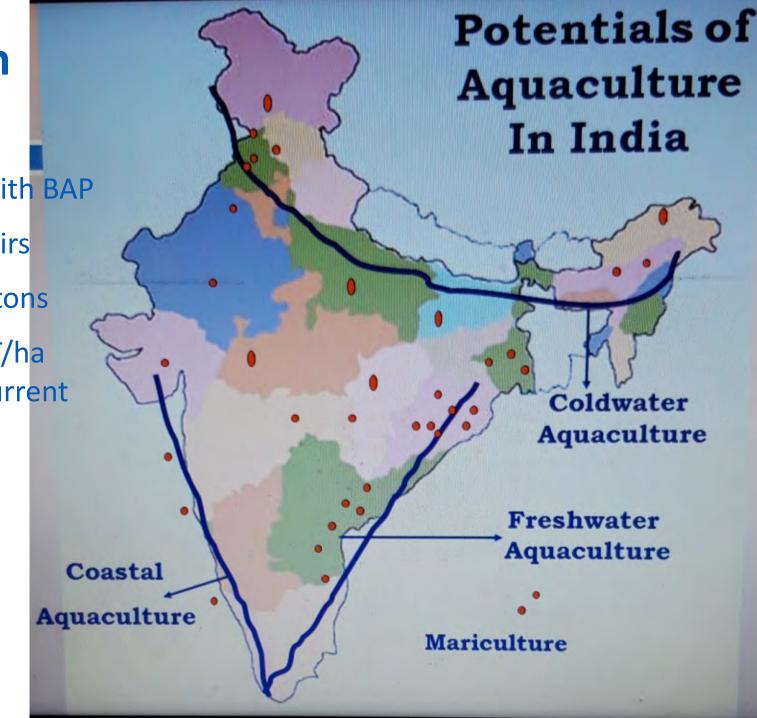
Managed reservoirs 28 – 275 kg/ha with BAP

Assuming modest 60 kg/ha in reservoirs

Reservoirs produce an extra 130,000 tons

 Tilapia & Pangas ponds - modest 4.0 T/ha with BAP = 5.6 million tons (double current production)

- Mariculture: 4-8 million T
- Cold water systems
- Processing & Cold Chain



Challenges

- Old technology
- Traditional markets
- "Complicated" policies/regulations
- Weak infrastructure & institutional capacity
- Need >\$10 billion



A Significant Return on Investment

• US\$27,260,000,000 (1% of GDP)

More seafood on local (regional?) markets

- More and better jobs for rural youth
- More poverty alleviation



