



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; \approx 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**





Creating Opportunities to Invest

- *Veterinary Services*
- *Facilitated Finance Across the Value Chain*
- *Genetic Management*
- *Technology Acquisition & Transmission*
- *Best in Class Learning Opportunities*
- *Leasing: Clarified and Simplified Rules*
- *Market stimulation*