



EU SEAT project: Bangladesh context



Institutional Background, and Value Chain and Export Status of 4 Target Species

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Team Leader

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Bangladesh Agricultural University (BAU)



Faculty of Fisheries (FoF) - BAU



- **BAU is the leading University in Agricultural Education and Research in Bangladesh since 1961**
- **Out of 6 faculties, FoF is pioneer in fisheries and aquaculture education**

Main activities of FoF

- **Offers degrees: BSc, MSc and PhD**
- **Research & dissemination**
- **Partnerships with DOF, BFRI, NGOs, & private sectors**
- **International collaborations with the leading universities of Europe, USA, and Asia**
- **Notably, over 25 years collaboration with UoS, UK**



BAU



FoF

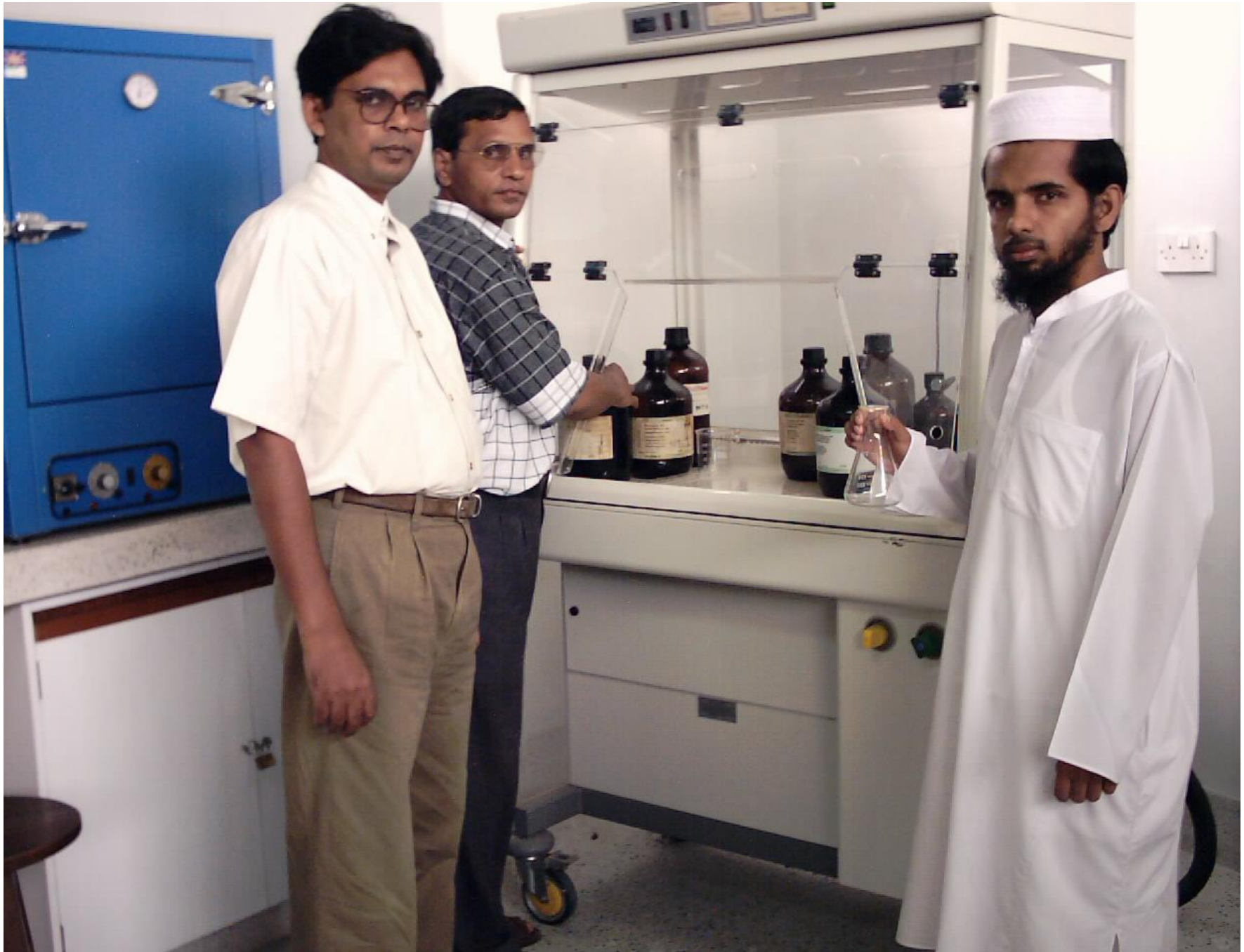


Four departments of FoF

- **Fisheries Biology and Genetics** — to offer teaching and undertake research on fish biodiversity, biology, reproductive physiology and genetics
- **Aquaculture** — to develop culture practices for finfish, shellfish, aquatic plants and other organisms, fish nutrition and fish disease and health management
- **Fisheries Management** — to manage aquatic natural resources for sustainable harvest and conservation
- **Fisheries Technology** — to develop techniques for post-harvest processing and quality control

Fisheries Field Lab









Prof. Dr. Md. Abdul Wahab
Project Leader



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CO – PI (Systems & Development Aspects)



Dr. AKM Nowsad Alam
Post harvest & quality control



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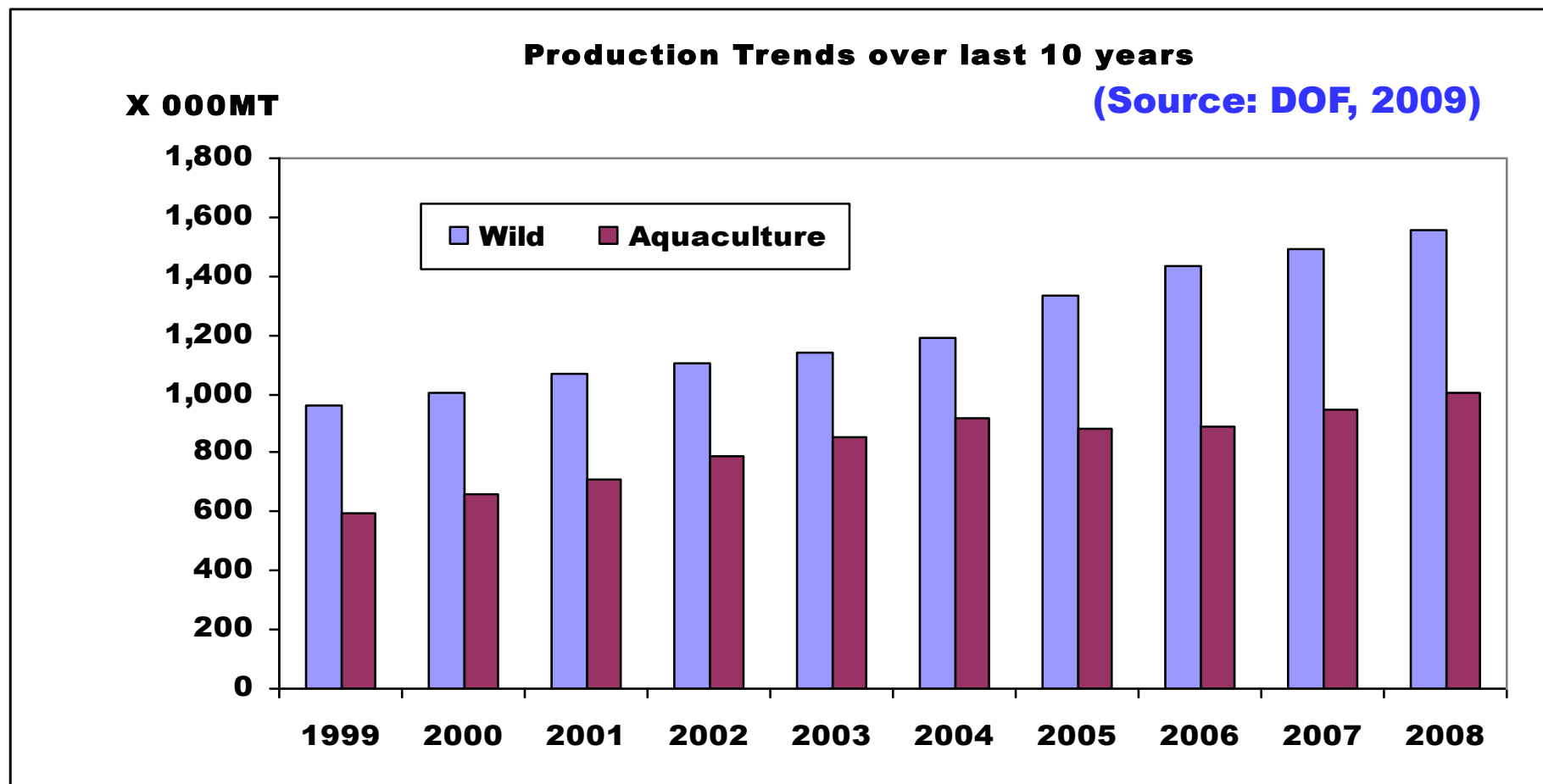






BAU as SEAT partner



- **BAU, Mymensingh located in Pangasius and Tilapia producing area**
- **Have competent manpower with diverse specializations**
- **Staff with field level working experiences in different aquaculture fields**
- **Modern lab facilities for water quality, fish nutrition, fish diseases and fish genetics & biotechnology**
- **BAU field facilities comprised of 100 ponds and a hatchery**
- **International guesthouse at BAU for accommodation of consortium members**
- **Internet facilities (modem based internet service)**

- **Extensive water resources - ponds, lakes, natural depressions, rivers, estuaries and Bay of Bengal**
- **FAO ranked Bangladesh as 6th largest aquaculture producing country**
- **Total fish production is 2.56 million MT (DOF, 2009) ; 39% from Aquaculture**



Species	Scope
Tilapia	Limited production/local consumption 
Pangasius catfish	Major domestic industry 
Peneid shrimp	Major export industry 
Prawns	Major export industry 



Key production areas of 4 species

S = Shrimp

M = Macrobrachium

P = Pangasius

T = Tilapia

P - Mymensingh, Dhaka, Jessore, Bogra and Comilla

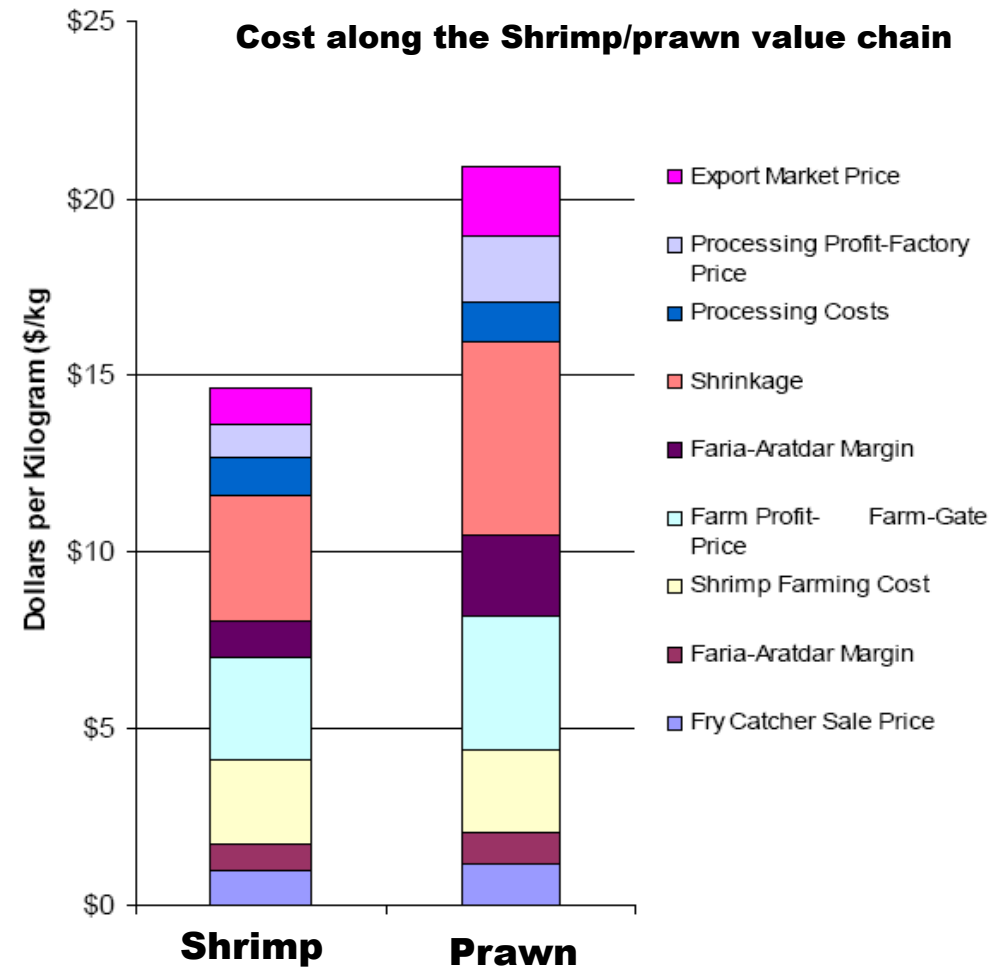
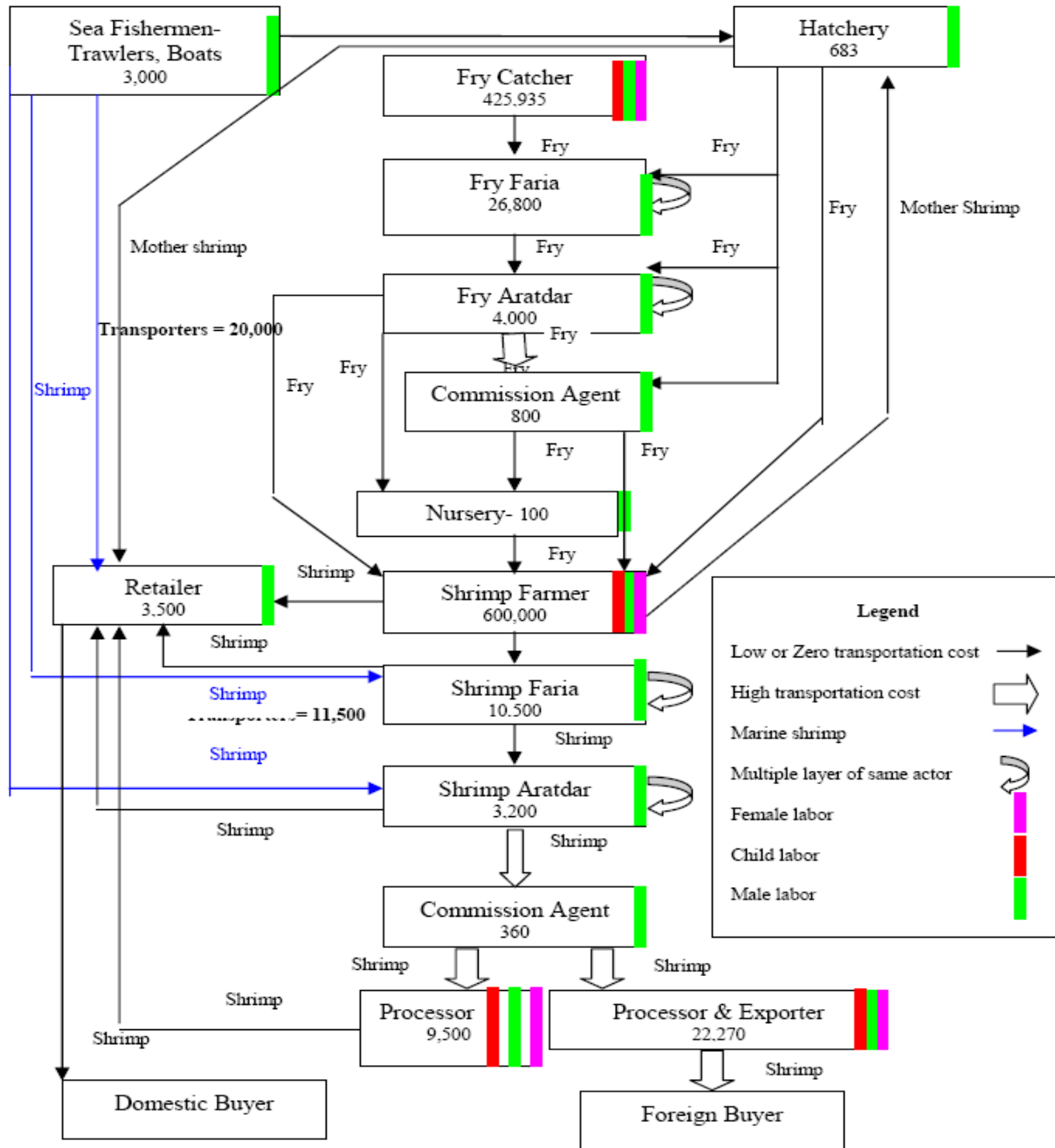
T - Mymensingh, Comilla & Dinajpur



M – Khulna, Satkhira, Bagherhat & Jessore

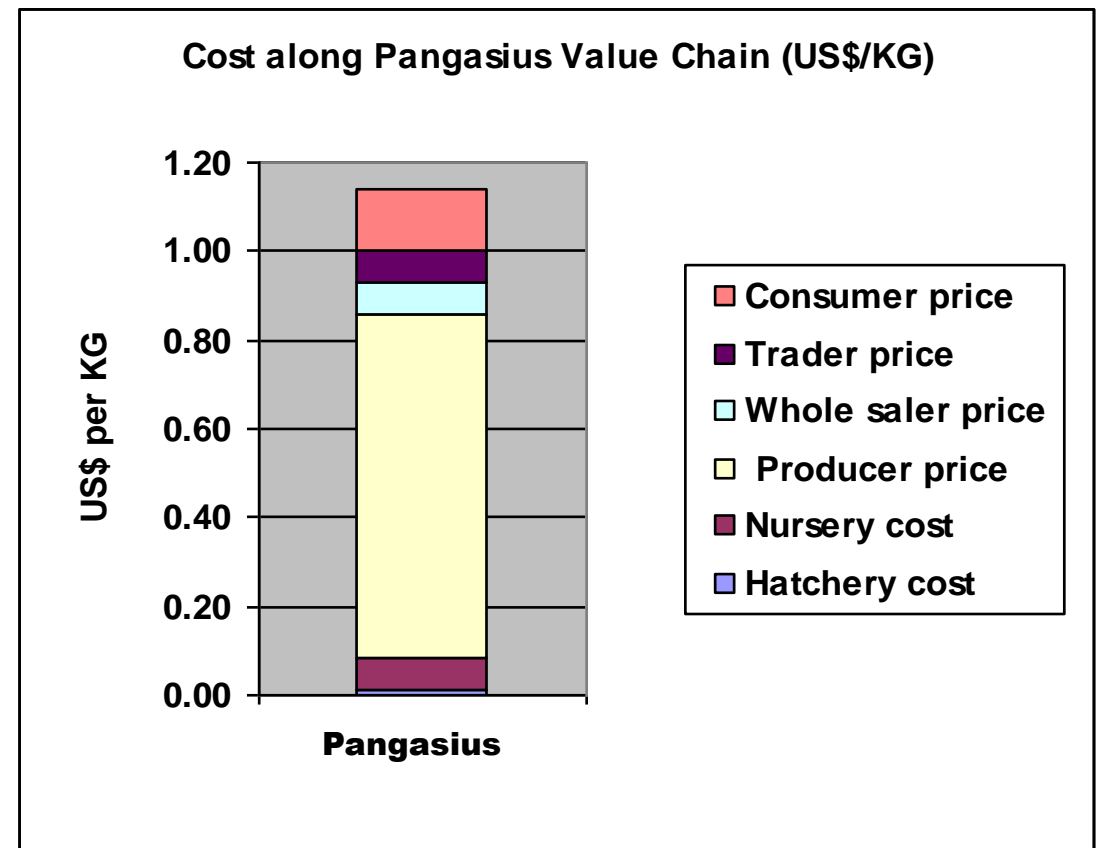
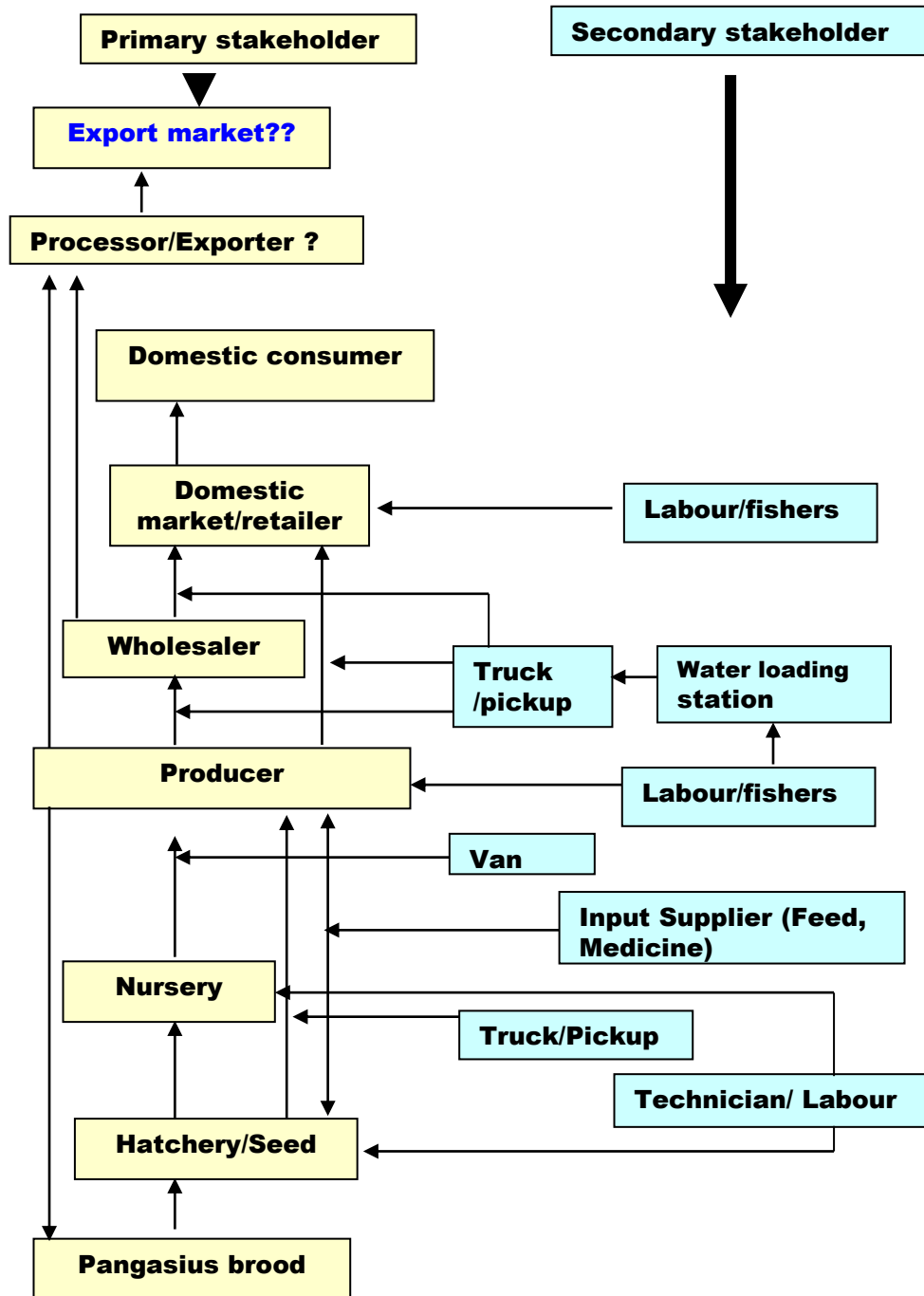
S – Chittagong, Cox's Bazar, Khulna-Shatkira-Bagerat

Value Chain of Shrimp/Prawn

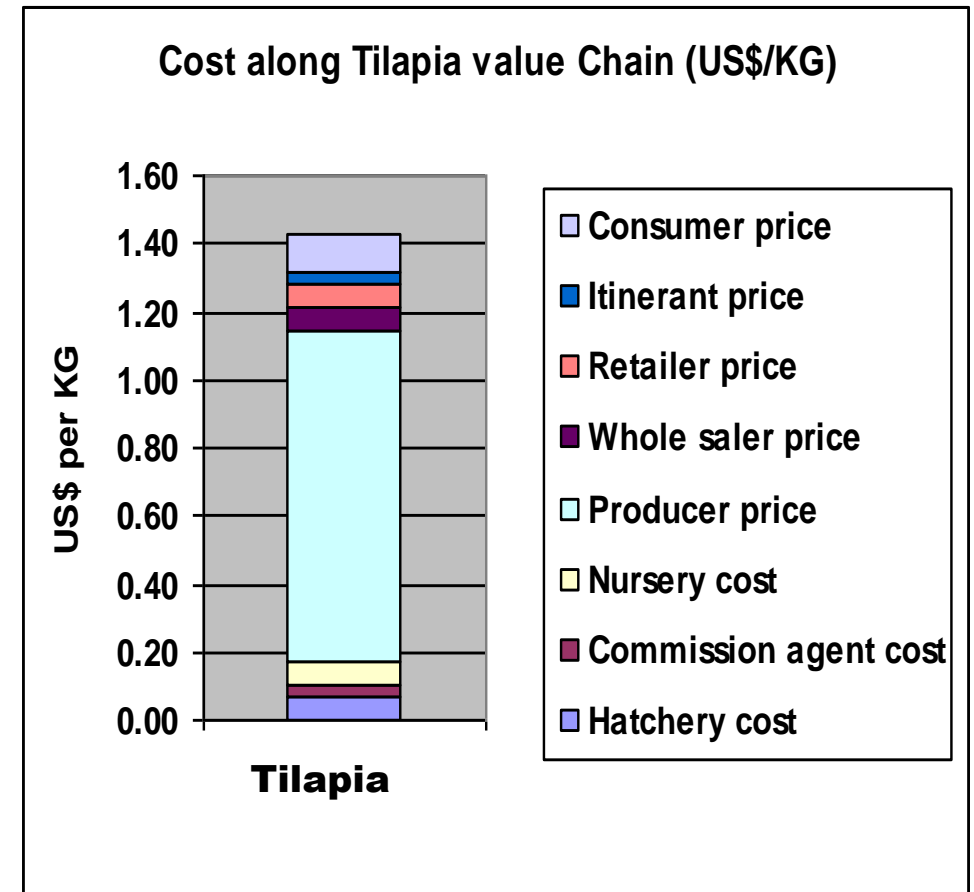
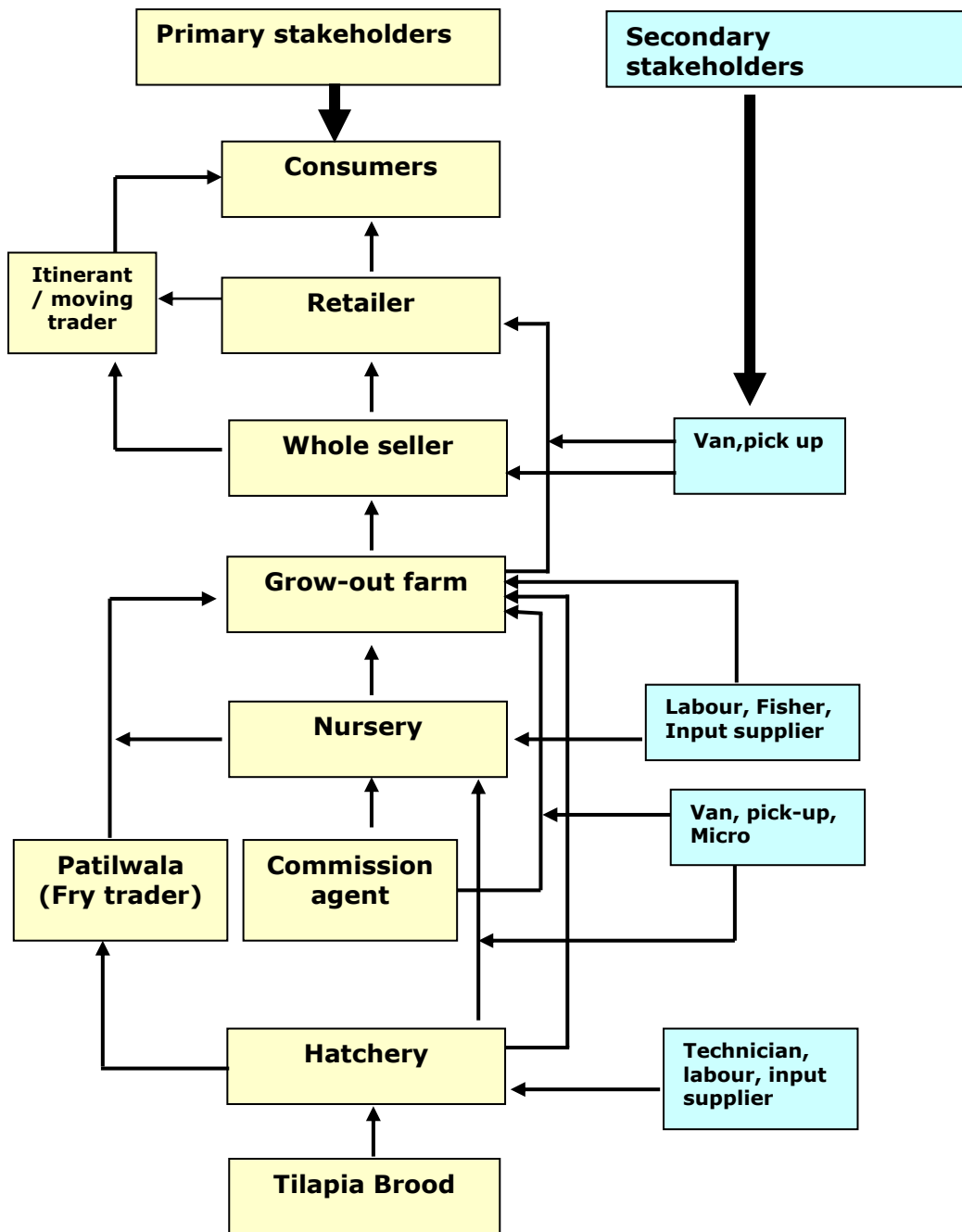


Source: USAID, 2006

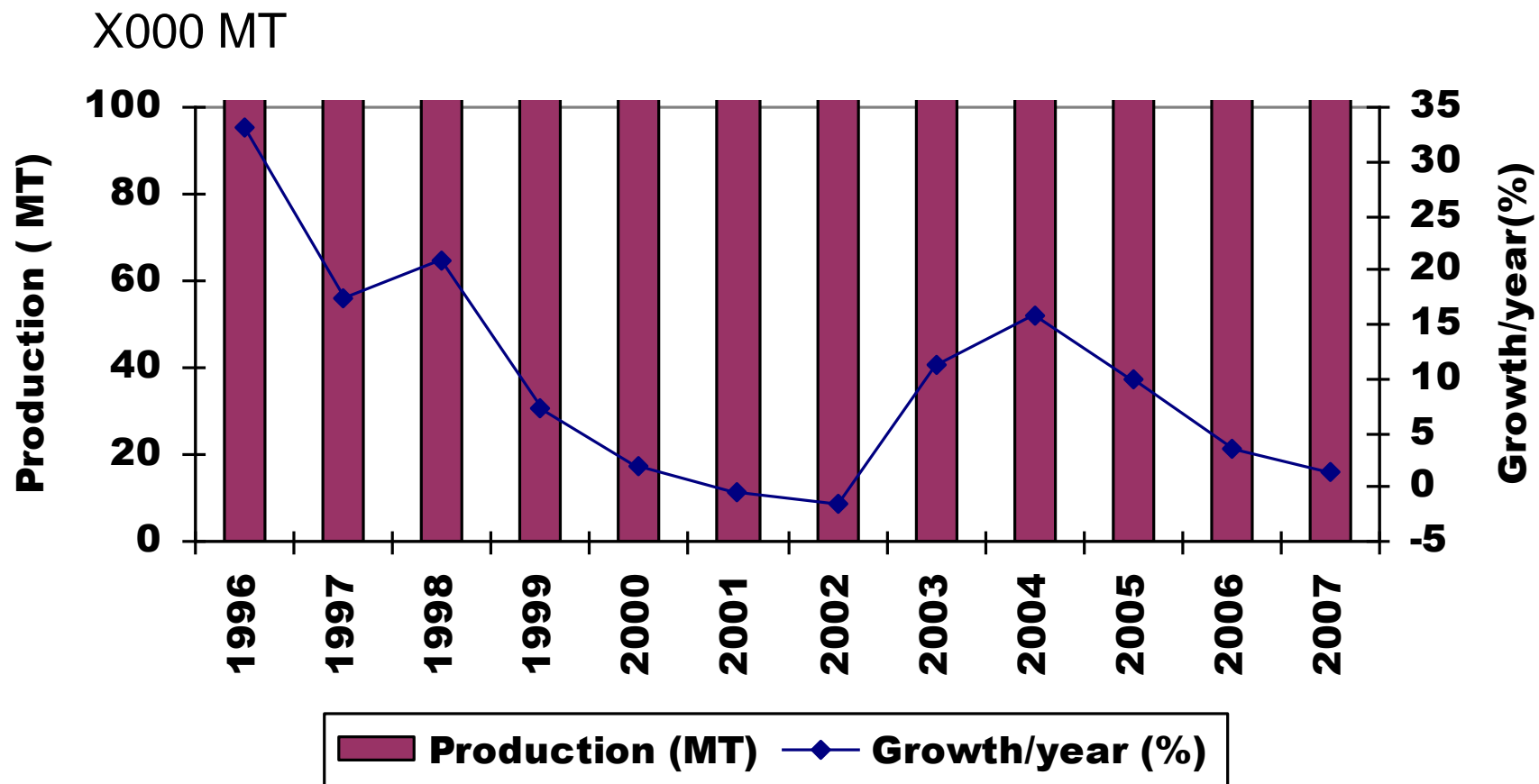
Value Chain of Pangasius Catfish



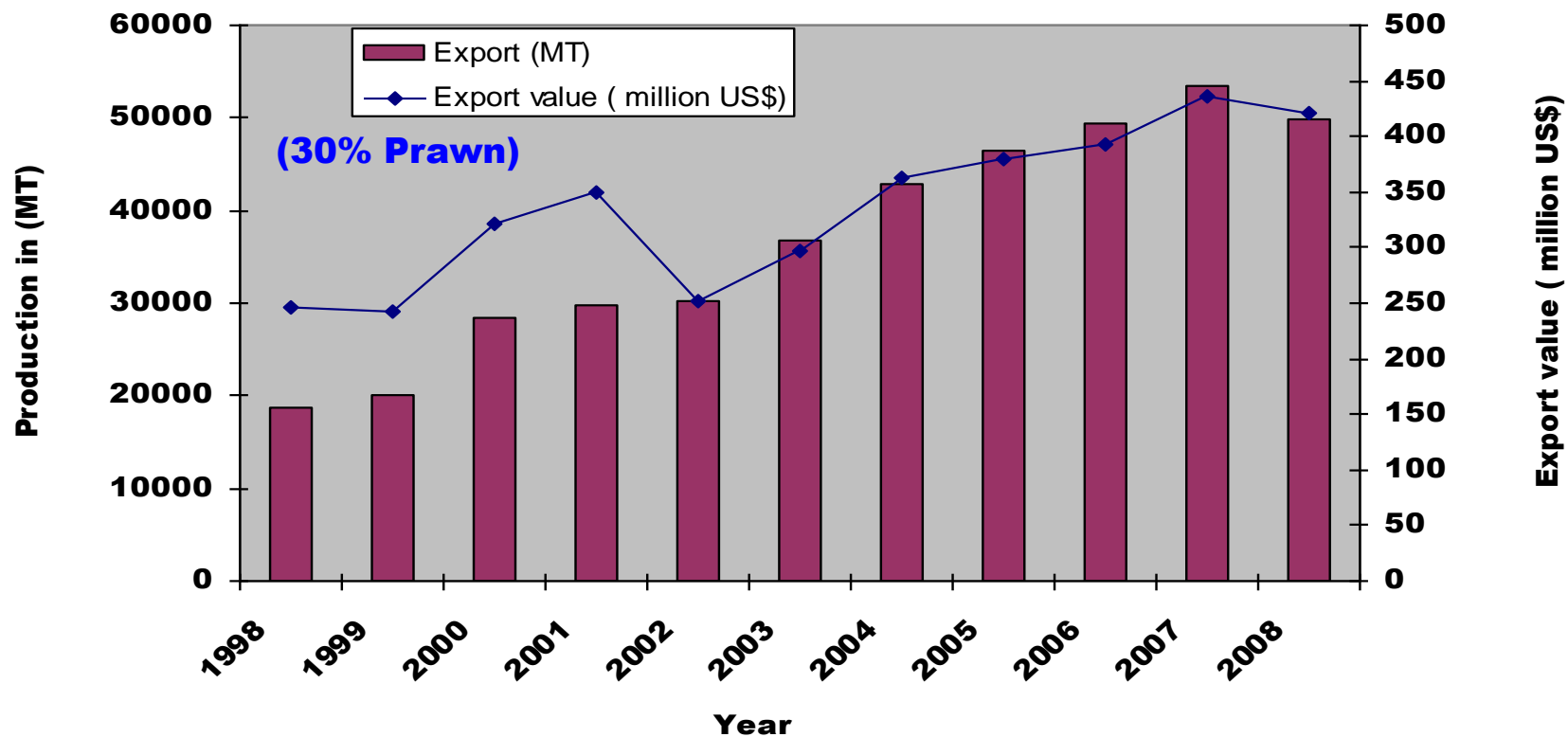
Value Chain of Tilapia



Shrimp/Prawn sector - second largest export industry (4.04% export earning, 5% to GDP in 2008)



- **2.2% to 3% by volume, 2.1% to 2.7% by value to the global export**
- **Export earning from Shrimp/prawn - 421 million US\$**



(Source: DOF,2009)

- **148 shrimp and Prawn processing plants**
- **71 plants approved by EU**
- **68% of exportable shrimp processed in SW**
- **30,000 workers in processing plants, 60% are women**



01	Frozen Shrimp/Prawn
02	Frozen Fish
03	Fresh & Chilled Fish
04	Frozen Fillets & Steaks of Fish, Sharks Shells Skates & Rays
05	Shark fins & fish heads
06	Salted & dehydrated Fish
07	Dry Fish
08	Live Crabs & Tortoises
09	Fish meals & Crushed
10	Processed shrimp & fish Products

(BFFEA, 2009)





SEAT Research Objectives



- **To gain and disseminate and in depth understanding of emergent Asian food production market chains**
- **To develop improved and transparent measures of sustainability for target species**
- **To enhance the sustainability and ethical values of 4 major aquatic food commodities**
- **To enhance farmed aquatic food, scientific, business and policy linkages between Asia and Europe**



Comments suggestions welcome



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Thank You