



HILSA FISHERIES MANAGEMENT IN BANGLADESH

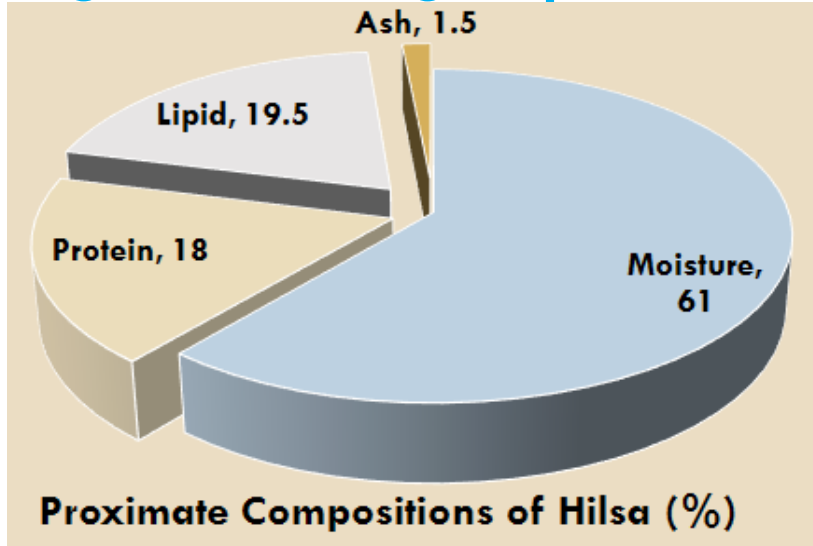
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Md. Nahiduzzaman & Philippa Cohen**



Hilsa (*Ilish*) as nutrient rich sea fish



High Protein High Lipid Fish



Rich in PUFA & Omega-3 Fatty Acid

Rich in Vitamin: A & E

Rich in Minerals: P, Ca & Zn

- *Highly palatable- taste, flavor and mouth feel awesome*

- *Problem-138 Pin-bones*



- *ECOFISH Solution: Hilsa Soup & noodles*

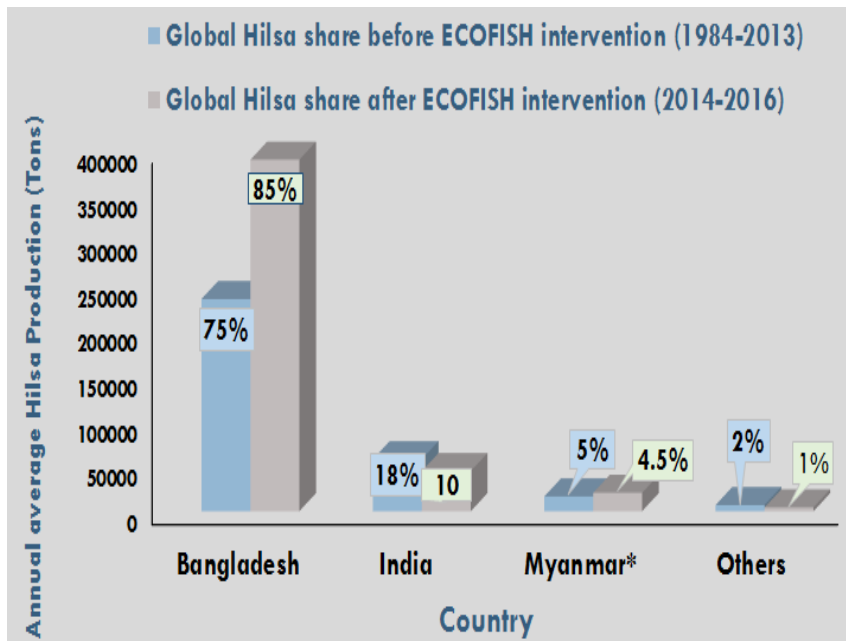
Technology handed over to private entrepreneur



Hilsa - A Flagship species



- National fish & GI product of BD
- Favorite fish to **260 million Bengalis**
- **12%** of Bangladesh's total fish catch
- 44% in marine catch (*excluding inland*)
- Annual production 517k tons (\$ 4 b)
- Non-consumptive value \$ 1.5 b
- **0.5 m** fishers directly & another **2.5 m** actors in the value chain
- Contribute to trophic cycle as it feeds at the lower trophic level



HFMAP Developed to Revive Hilsa Fishery


- Fishery declined to <0.2 mt in 2003
- Govt. formulated HFMAP and started implementation in 2005
 - Five Hilsa Sanctuaries created (Mar-Apr complete fishing ban)
 - Juveniles conservation measures taken
 - Brood Hilsa protected in peak season
 - Illegal gears reduced
 - Livelihood supports provided during ban periods
 - Present incentives, @ 40 kg rice/FID for 4 months and AIGA

FFP Aquatic Resources Development, Management and Conservation Studies Report No 38.9




DEPARTMENT OF FISHERIES
OF THE
GOVERNMENT OF BANGLADESH
GLOBAL ENVIRONMENT FACILITY/WORLD BANK

FOURTH FISHERIES PROJECT
AQUATIC RESOURCES DEVELOPMENT, MANAGEMENT AND
CONSERVATION STUDIES

HILSA FISHERIES MANAGEMENT ACTION PLAN
FOR
BANGLADESH



Report No. 38.10
SEPTEMBER 2002
(UPDATED- AUGUST/03)

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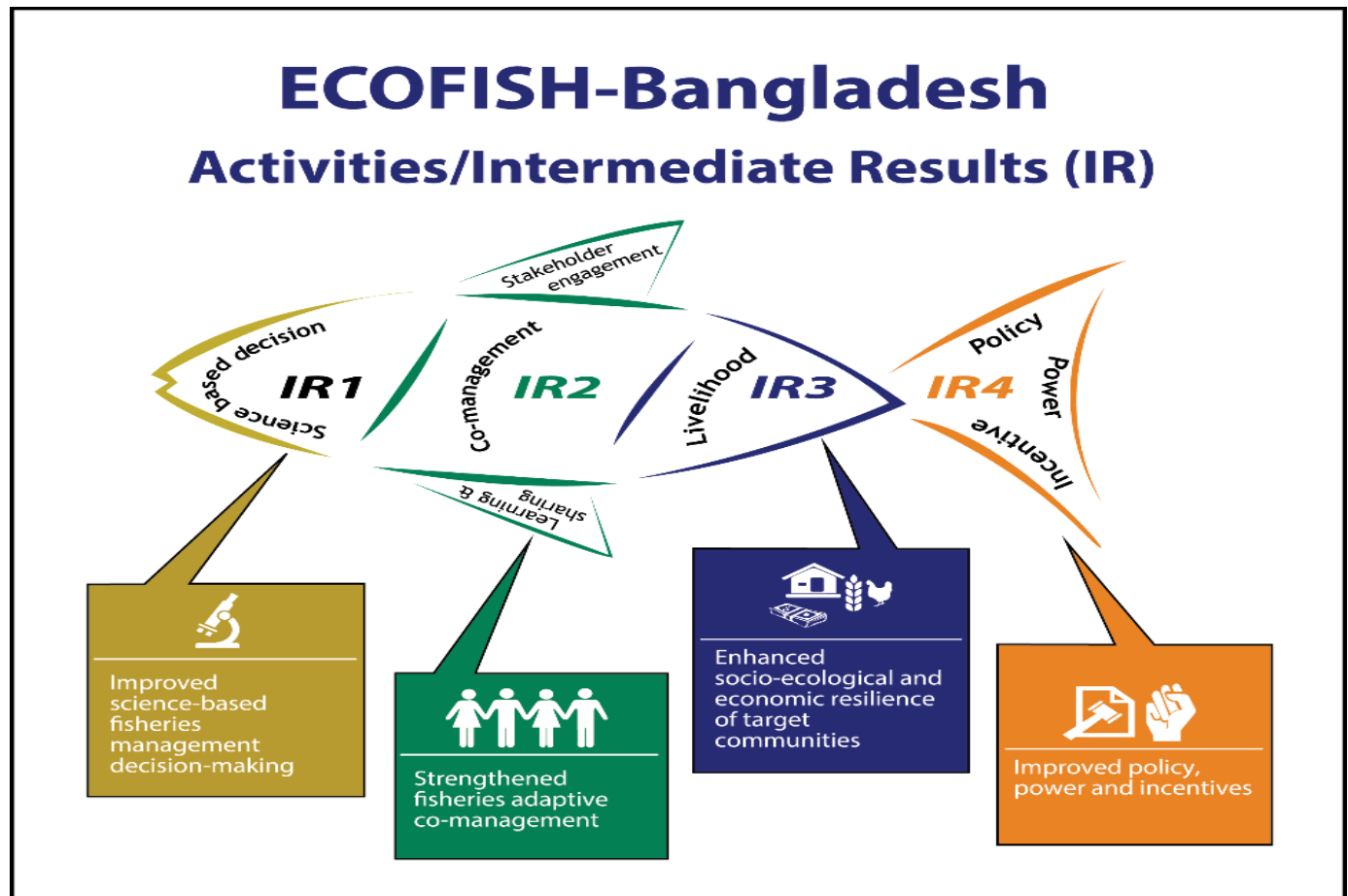
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USAID's ECOFISH – A commitment to increase Hilsa production

Objective: Improved resilience of the Meghna River ecosystem and communities reliant on coastal fisheries

Implemented by:
WorldFish & DoF

Period : 2015-2019

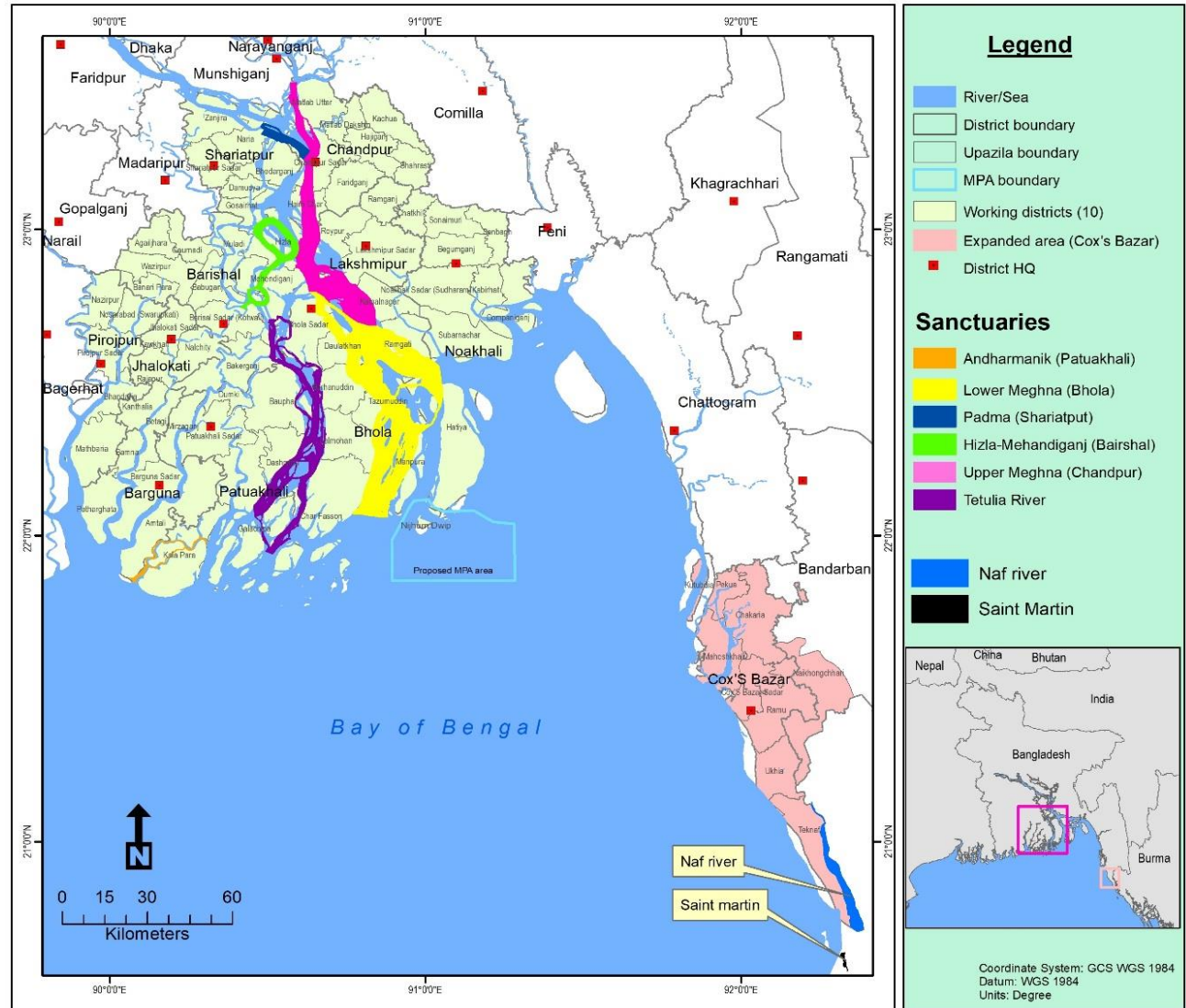


ECOFISH-Bangladesh: Working Areas

Theater of Operations (ToO)

ECOFISH- working in:

- 136 villages
- 33 Upazila
- 13 Districts
- 3 Divisions



Science Outputs in decision making

Hilsa catch and stock assessed & peak spawning season identified

- Hilsa stock assessed in 2016 as baseline
- 5 riverine & 2 marine area covered
 - 16,000 L-F data covering all size

Results:

- Slightly overexploited:

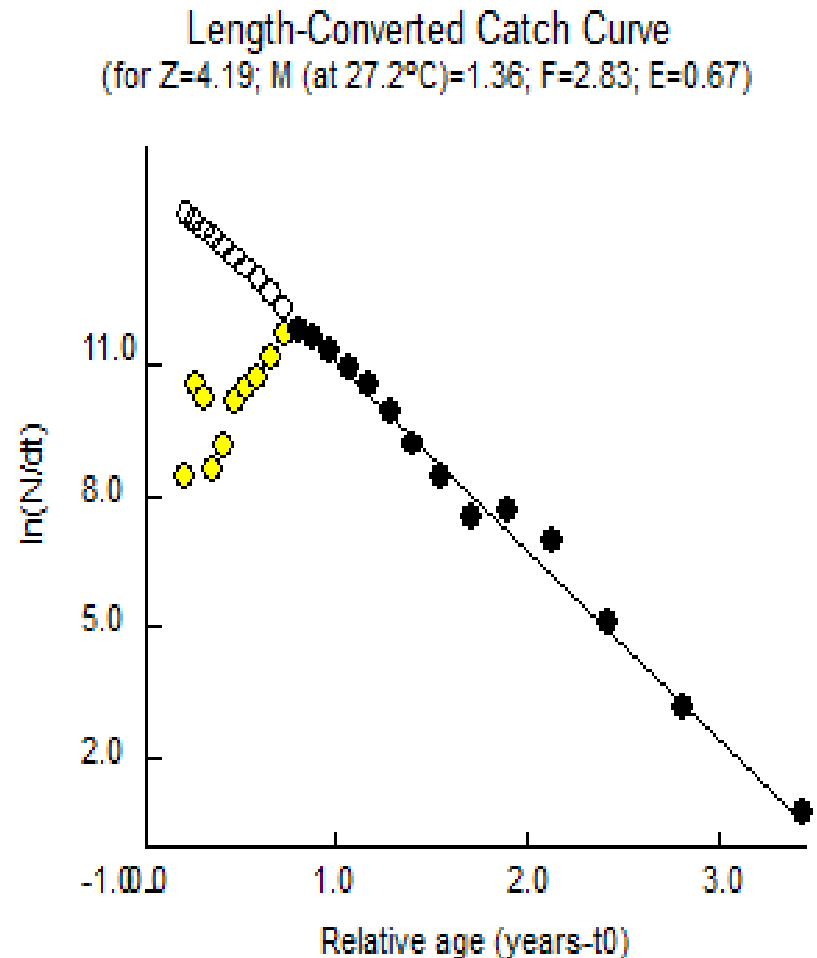
Acceptable $E = 0.5-0.6$

Current Level $E = 0.67$

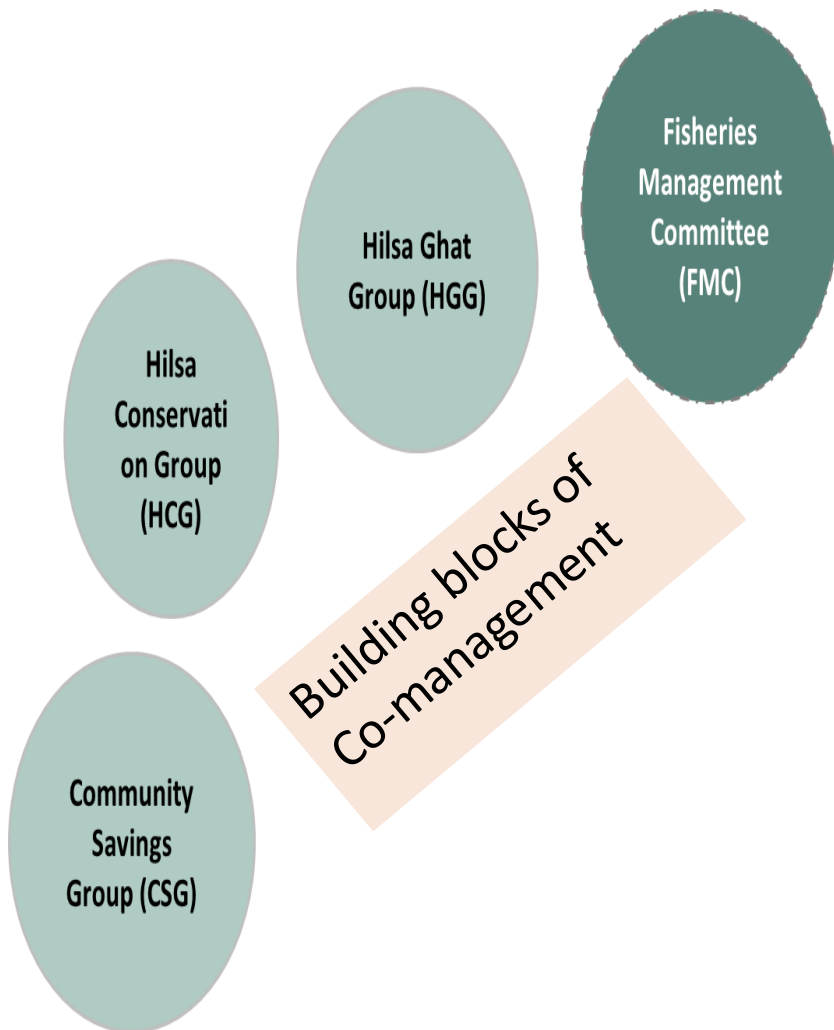
- Estimated $MSY = 5,26,000$ t

- Endline re-assessment in Oct 2019

- Annual catch in 2018 = 5,17,000 t



Hilsa Co-management Committees: village to district levels



- 575 HCGs formed involving 19,500 members (30% women)
- 63 HGGs formed involving actor from fish landing stations
- 133 FMC formed involving all stakeholders
- 30 Union & 63 Ghat Committees
- 13 Upazila & 3 districts out of 5 formed
- 148 CSGs formed who saved US\$ 135k
- 400 trained community Fish Guards (CFGs) engaged
- Adaptive co-management implemented
- Ecosystem Approach to Fisheries Management (EAFM) initiated

Awareness & Enforcement: The Carrot & Stick Approach!



মা ইলিশ রক্ষা অভিযান ২০১৮

৭ অক্টোবর ২০১৮ হতে ২৮ অক্টোবর ২০১৮ খ্রিষ্টাব্দ
(২২ আশ্বিন হতে ১৩ কার্তিক ১৪২৫ বঙ্গাব্দ) পর্যন্ত মোট ২২ দিন
প্রধান প্রজনন মৌসুমে ইলিশ ধরা বন্ধ রাখুন

আপনি জানেন কি ?

- ✓ এ সময় সারাদেশে ইলিশ মাছ আহরণ, পরিবহন, মজুদ, বাজারজাতকরণ অথবা বিক্রয় নিষিদ্ধ
- ✓ ইলিশ মাছ সাগর থেকে নদীর মোহনায় এসে ডিম ছাড়ে
- ✓ একটি বড় ইলিশ সর্বোচ্চ ২৩ লক্ষ পর্যন্ত ডিম ছাড়তে পারে
- ✓ এ সময় ইলিশ প্রজননক্ষেত্রের ৪টি পয়েন্ট ঘারা পরিবেষ্টিত ৭০০০ বর্গ কিমি এলাকাসহ সকল নদ-নদীতে মাছ ধরা বন্ধ থাকবে-
 - ◆ মীরসরাই, চট্টগ্রামের মায়ানি পয়েন্ট
 - ◆ তজুমুদ্দিন, ভোলার পশ্চিম সৈয়দ আওলিয়া পয়েন্ট
 - ◆ কুতুবদিয়া, কক্সবাজারের উত্তর কুতুবদিয়া পয়েন্ট
 - ◆ কলাপাড়া, পটুয়াখালীর লতা চাপালি পয়েন্ট

➤ প্রজননক্ষম পরিপক্ক ইলিশকে ২২ দিন ডিম ছাড়ার সুযোগ দিন

➤ ইলিশের বংশ বৃদ্ধিতে সহায়তা করুন



ইলিশ সম্পদ রক্ষার স্বার্থে সকলকে সহযোগিতার জন্য অনুরোধ করা হলো

জনসচেতনতায়: মৎস্য অধিদপ্তর, মৎস্য ও প্রাণিসম্পদ মন্ত্রণালয়

ইকোফিশ-বাংলাদেশ প্রকল্প



Fish Guards (CFGs)- Participatory Surveillance

400 Community Fish Guards (CFGs)
helping DoF in 6 hilsa sanctuaries



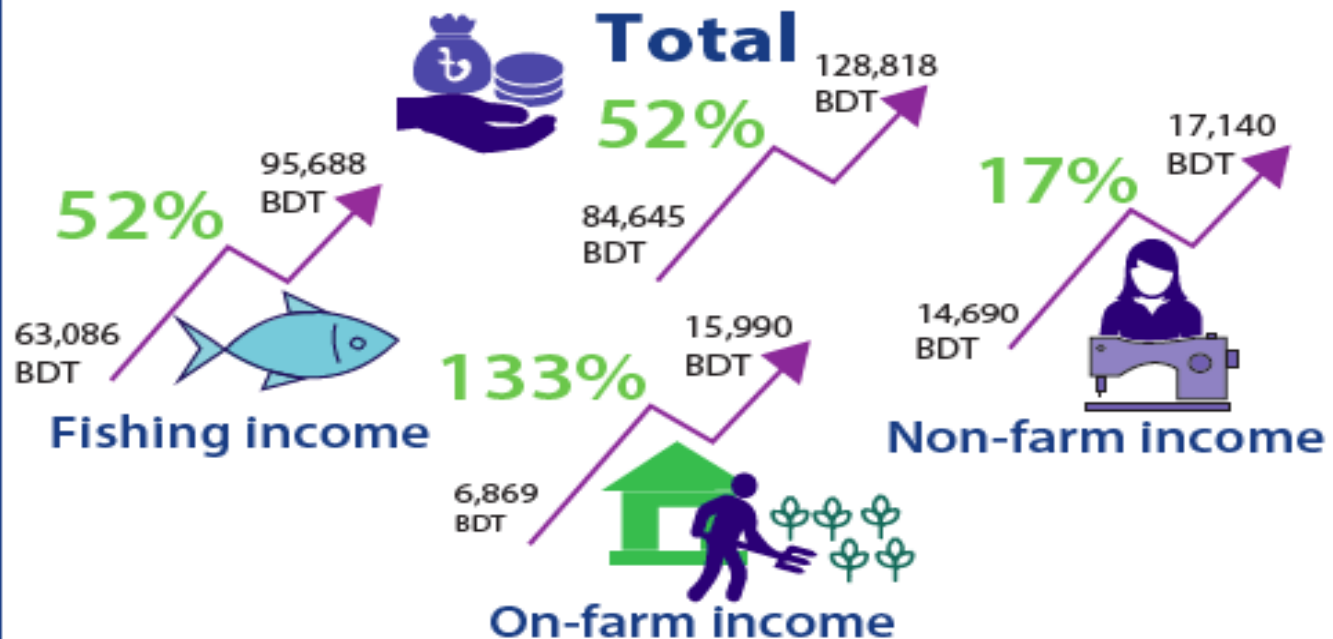
Outcomes of ECOFISH Interventions

Combined efforts of MoFL, DoF, WorldFish & other stakeholders

- Size group shifted from smaller to larger
 - Individual weight remarkably gained
 - Total Hilsa production increased at higher rate
 - Catfish abundance increased
 - Fishers' household income increased

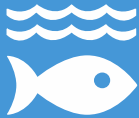


Fishers' household income increased (Baseline 2016, Endline 2018)



ECOFISH Outcomes Supporting SDG 14a & 14b

14 LIFE BELOW WATER



SDG 14 for BD : Conserve and sustainably use the oceans, seas and marine resources for sustainable development

14a: Increase scientific knowledge, develop research capacity and transfer marine technology

- ECOFISH generated scientific information necessary for management, trained about 20k stakeholders to support management and through adaptive co-management, Hilsa production increased at sustainable level and biodiversity improved to achieve SDG 14 focusing on SDG 14a

14 LIFE BELOW WATER



14b: Provide access for small-scale artisanal fishers to marine resources and markets

- ECOFISH contributed to improve Hilsa production that contribute 51% of small-scale artisanal fishery, so, increase access to this sea fish supporting SDG 14b

ECOFISH Outcomes Supporting SDG 1, 2, 3 & 5



SDG 1 : End poverty in all its forms everywhere

- as fishers' hhs income increased by 52%, so, this will reduce poverty significantly



SDG 2 : End hunger, achieve food security and improved nutrition and promote sustainable agriculture

- as annual Hilsa production increased by 11%, instead of previous 5%, this improving nutrition & food security



SDG 3 : Ensure healthy lives and promote well-being for all at all ages

- improved production of high protein- high lipid and Omega-3 rich as well as PUFA rich fish ensuring healthy life



SDG 5 : Achieve gender equality and empower all women and girls

- as significantly improved access to finance for women through savings & ensured 30% women participation in project activities, certainly these empowered women

Regional Management Initiatives



- Regional knowledge sharing workshop organized by WorldFish & IIED in Dhaka
- Synchronizing with BD, India implementing juvenile conservation activities
- Myanmar going to practice incentive-based management like BD

Participants in the Regional knowledge sharing workshop held in Dhaka



USAID/ECOFISH-BD: Working together to feed a nation

Thank
You
All



USAID
FROM THE AMERICAN PEOPLE

