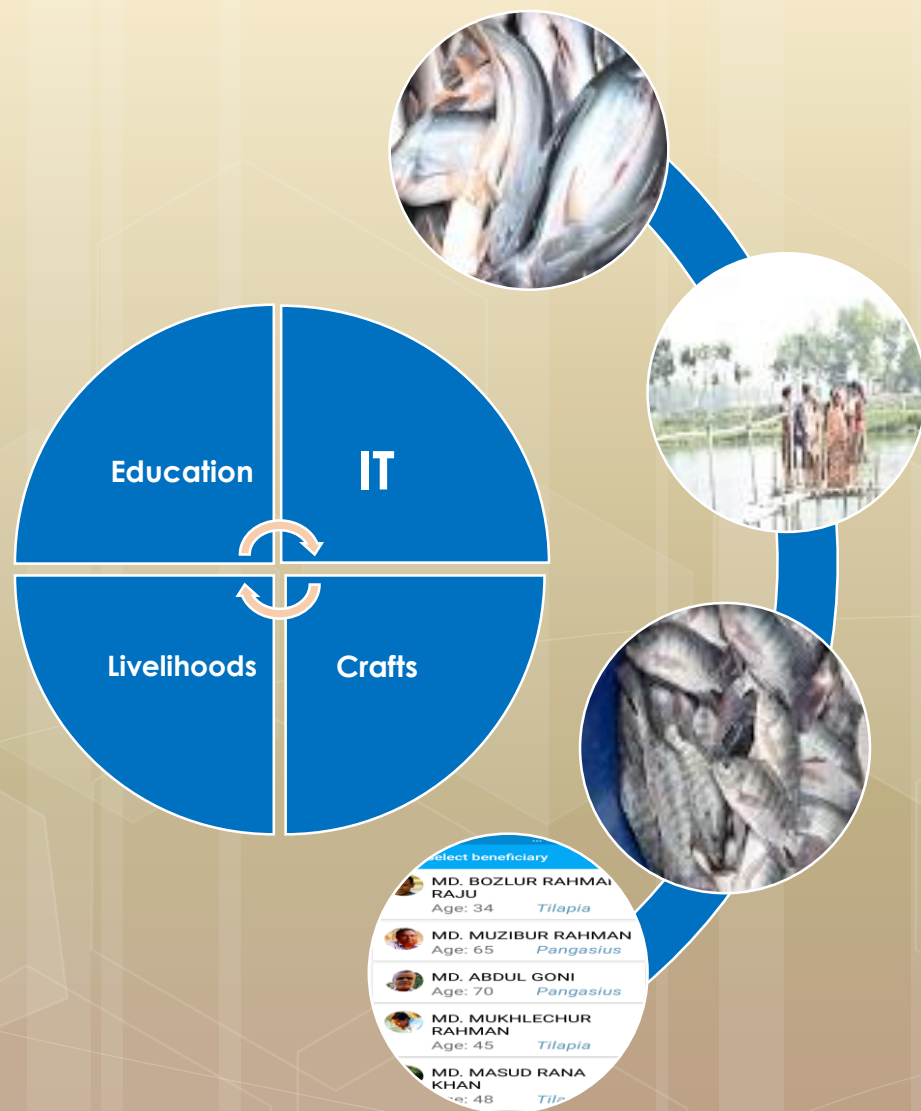




Novel Molecular Approaches for Advancing Prediction and Mitigation of Disease Outbreaks in Aquaculture for Small Scale Farmers

2nd Annual Meeting and Progress Review
14 – 16th March 2018
Ufulu Gardens Hotel, Lilongwe, Malawi

About ARBAN

- ❑ A non-government **volunteer** organization since 2002
- ❑ Active in **Netrokona, Mymensingh, Jamalpur, Khulna, Bagerhat, Satkhira and Sylhet** districts of Bangladesh.
- ❑ Acts merely as the **poor people's partner** and **combating** the embedded inequalities that stand as roadblock to the formation of a just and democratic social order.
- ❑ Strongly trusts on “**Holistic Approach**” for indisputable development of the community people through active **participatory process** in planning, decision making and implementation phase of interventions.
- ❑ Become a pioneer in **ICT based interventions** in the communities in different thematic areas like **Education, Health, Women Empowerment, Agriculture, Research, Youth Development, Skills Development, and entrepreneurship development.**

Goal, Mission, Vision

- ❑ **GOAL:** To contribute in establishing a **self-reliant, informed** and **knowledge-based society**.
- ❑ **MISSION:** Based on comprehensive development of **back-ward, deprived, underprivileged** and **marginalized** people (especially women, children, disable and indigenous community) towards establishing a society with respect of full **democracy, liberty, equality, justice, peace** and **solidarity** by implementing service delivery and rights based activities through a **participatory** and **multidimensional partnership** approach.
- ❑ **VISION:** An **educated** Bangladesh with democratic society which is free from **poverty** and exploitation with **equal rights and respects** for all in an **equitable, justifiable and healthy** environment.



Arban



**IT
Research**

**Telecent
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**Digital
App &
Software
Develop
ment**

**Skill
Develop
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Training**

**eHealth
Service**

ARBAN.COM

Info-lady

**Infopeddl
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**ICT &
English
Club**

The Project

- ❑ UK's Biotechnology and Biological Sciences Research Council (the "BBSRC") funded a project "**Novel Molecular Approaches for Advancing Prediction and Mitigation of Disease Outbreaks in Aquaculture for Small Scale Farmers.**" UK ased partner- University of Exeter, St.Andrews and CEFAS. Bangladeshi partner BAU, WorldFish and ARBAN.
- ❑ To develop and apply of modern molecular methods for use as early warning tools for the avoidance of disease outbreaks in low income food deficit countries.
- ❑ Central theme is the alignment of the efforts of farmers, Aquatic Health Professionals, researchers and national Competent Authorities to help avert disease outbreaks.
- ❑ Addresses the GRP Aquaculture Call priority areas of Healthy and nutritious aquaculture, seeking to understand, manage and mitigate for some of the most important diseases in aquaculture, in turn increasing productivity for the health and well being of poor small scale farmers.



Our Activities

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- ❑ **Field visit** with Exeter University, Cefas, Bangladesh Agricultural University, WorldFish team to see the culture pattern at farmer's level.
- ❑ Engaged to develop **questioner for Mobile App** partner Organizations.
- ❑ Developed final **Bangla version questioner** consultation with Bangladesh **Agricultural University** and **WorldFish**.
- ❑ Arranged **workshop** at Bangladesh Agricultural University with Government fisheries officer, University teacher (BAU), WorldFish people, Key farmers, stakeholders and IT people to take feedback on App content.
- ❑ ARBAN **App developer team** developed first version of Mobile App.
- ❑ ARBAN arrange formal training **for data animator team (Info-peddler)** to operate App and conduct survey.
- ❑ Conduct field test to see the performance of App functionality.
- ❑ Arrange meeting at field level with Exeter University, Cefas, Bangladesh Agricultural University, WorldFish, ARBAN and key farmers on Mobile App.



Our Activities

- ❑ Questioner finalized for App considering field findings, farmers opinion, feedback from app user, data animator and other stakeholders.
- ❑ ARBAN team selects the survey area consultation with BAU for Mynensingh area.
- ❑ ARBAN people arranged meeting with Government fisheries officer at Upazila level.
- ❑ Info-peddler team prepared a farmer who are involved with Tilapia and Pangasius traditional farming.
- ❑ ARBAN Info-peddler team create farmers profile for survey.
- ❑ Info-peddler team conducts **302 pond survey, (Total farmer-238, Pangasius-187, Tilapia-115) surveys from 73 locations** through Mobile Application.
- ❑ ARBAN App developer team develop **another app for Malawi WorldFish.**
- ❑ Spread sheet for data analysis is **ongoing.**



Pangasius, Tilapia Survey

7:05 PM 28.2K/s H+

≡ DNA

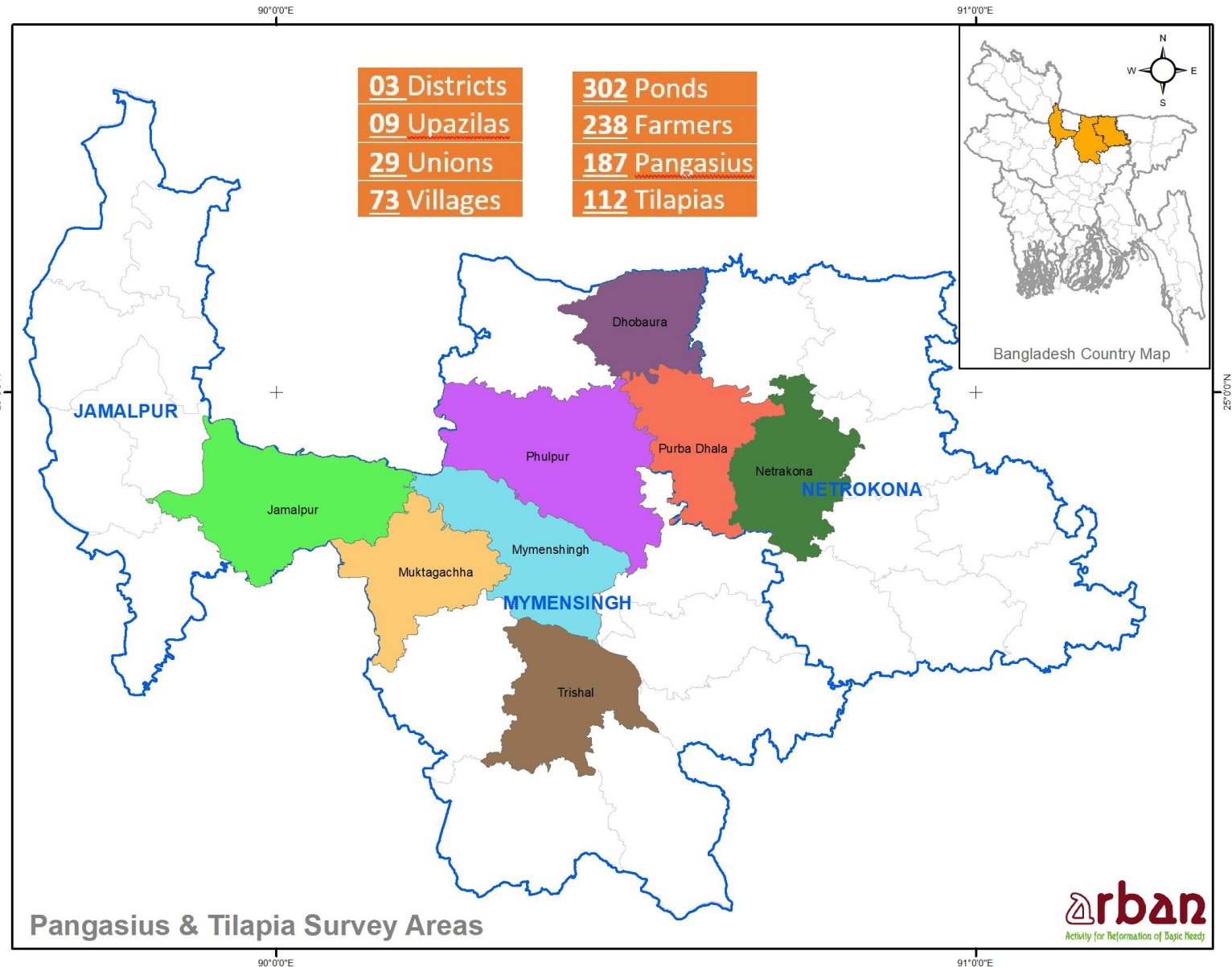
Digital Network of Aquaculture (DNA)

UNIVERSITY OF EXETER

University of St Andrews Cefas

urban Activity for Reformation of Basic Needs

WorldFish



DNA Android App

7:12 PM

... 249K/s

← Select beneficiary



**MD. BOZLUR RAHMAN
RAJU**

Age: 34 *Tilapia*



MD. MUZIBUR RAHMAN

Age: 65 *Pangasius*



MD. ABDUL GONI

Age: 70 *Pangasius*



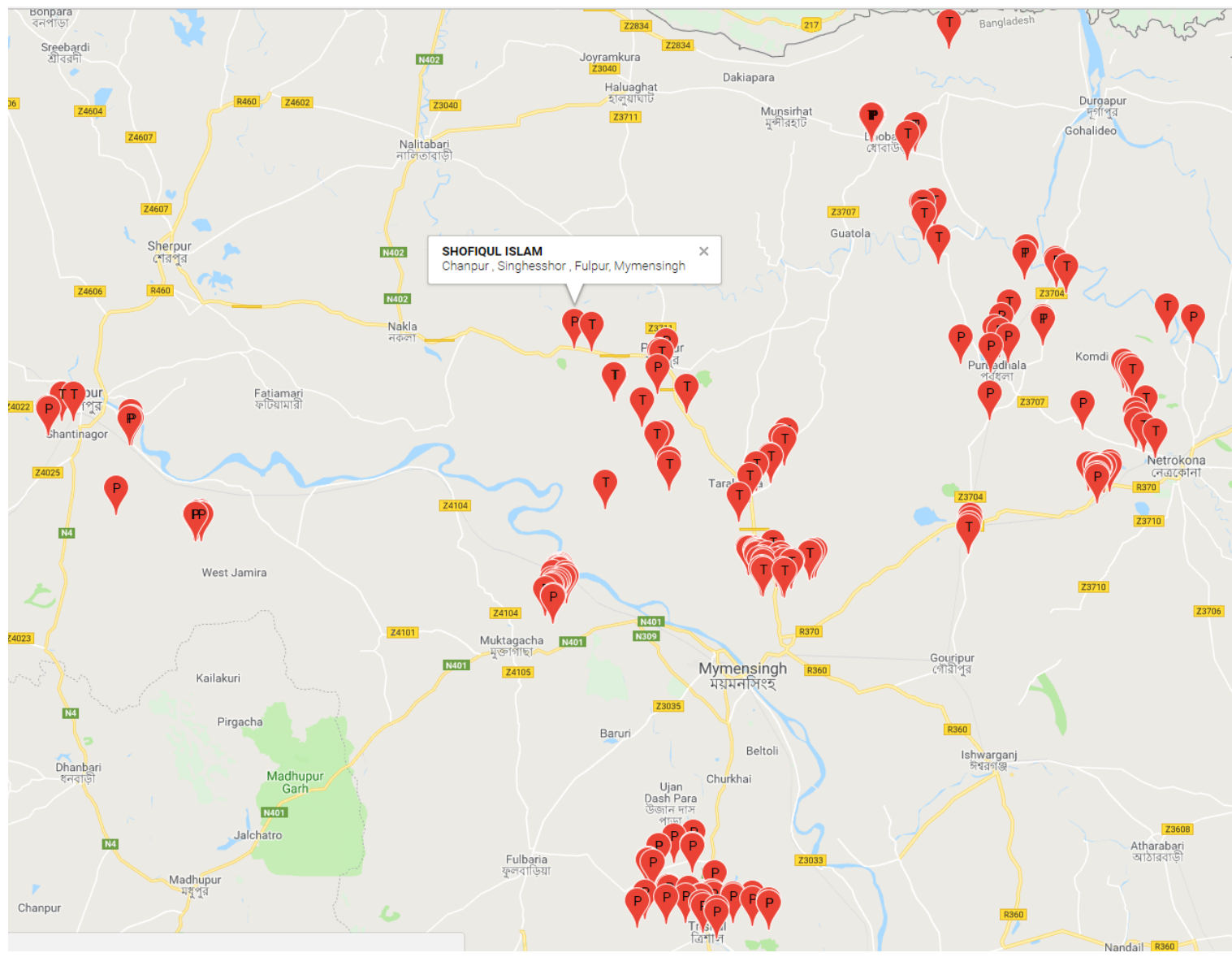
**MD. MUKHLECHUR
RAHMAN**

Age: 45 *Tilapia*



**MD. MASUD RANA
KHAN**

Age: 48 *Tilapia*



Challenges

- ❑ Missed data at the time of sync due to technical problem.
- ❑ Some time farmers were heisted to provide data.
- ❑ Farmer's record keeping system is not very good at farm level.
- ❑ Farmers seek technical, Information support from project.

THANKS

**Syed Arifuzzaman,
Exe. Director, ARBAN**



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Questions & Answer

Entrepreneurship Development



Women Empowerment



Education



Youth Development



Health



Skills Development



Agriculture