

# Strategies to Prevent (STOP) Spillover

## Impact Brief

### Bangladesh

#### Improving Live Bird Market Biosecurity

- Activity 2.2.2.1: Support LBM stakeholders to develop and implement a holistic, multi-pronged design for LBM with improved biosecurity and hygiene measures that reduce the risk of spillover

#### INTRODUCTION

Using the findings of two research activities (1.2.6.1 and 1.2.6.2), the Country Team developed the intervention in a holistic approach through a series of workshops with national and local stakeholders (Figures 1 and 2). The biosecure live bird market (LBM) design consists of the following components:

- a. Design principles for infrastructural improvements
- b. Biosafety and biosecurity guidelines
- c. Coordinated biosecurity compliance monitoring plan
- d. Sustainable funding mechanism plan
- e. SBC and advocacy strategy

Key stakeholders were included from multiple government sectors, research institutions, academia, NGOs, private poultry and food industries, engineering and architecture departments from universities, LBM actors, and representatives from DNCC and USAID's Bangladesh mission. Through these workshops, the STOP Spillover Bangladesh country team and experts designed biosecure LBMs tailored to the Bangladeshi socio-cultural context and hence more sustainable mitigation measures. As LBMs in Dhaka City Corporation vary from market to market, the following three different LBM design solutions below have been proposed.

- Design 1: Renovation and re-design of single-shop LBMs (Figures 3 and 4)
- Design 2: Renovation of multiple-shop LBMs incorporating manual and semi-automated modifications
- Design 3: Design for future newly constructed multiple-shop LBMs (a single strategy will be developed for typical newly built LBMs of Dhaka city)



Fig. 1: Brief presentation on STOP Spillover activities in Bangladesh



Fig. 2: Review of biosecurity guidelines by participants

## Expected Outcomes

- LBM Stakeholders able to utilize single-shop and multiple-shop LBM designs with improved infrastructure and biosecurity and biosafety measures that reduce the risk of spillover
- Functionality and effectiveness of biosecure LBM intervention are assessed, and barriers and enablers, and advantages and disadvantages are explored

## Week in Review

- Conducted workshop to finalize biosecure LBM design on August 9, 2023, with national stakeholders and experts
- Interviewed poultry industry entrepreneurs and poultry association members to discuss funding mechanism
- Collected information on probable risk and risk mitigation strategies related to intervention-related activities
- Developed and submitted IRB protocol, including data collection tools
- Conducted social mapping for the selected intervention site (single poultry shop)



Fig. 3: Existing condition of the selected single-shop LBM



Fig. 4: Design for infrastructural renovation of the selected single-shop LBM

Photos courtesy of STOP Spillover Bangladesh team

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