



Immediate Technical Assistance for Animal Health System to address Emerging/Priority Zoonotic Diseases and Health Threats

Introduction

Frequent occurrences of highly pathogenic avian influenza (HPAI) outbreaks in Nepal since 2009 and its associated morbidity, mortality, and culling due to its zoonotic implications has challenged the food security, food safety and nutritional status of the population. In addition, there are additional threats of other zoonotic diseases such as rabies, brucellosis, tuberculosis, and issues related to Antimicrobial Resistance (AMR) which needs coordinated One Health approach. The coronavirus disease 2019 (COVID-19) pandemic has proven that even a single disease can cause significant public health and economic impacts. This project focuses on prevention, detection and response to prioritized zoonotic diseases and Antimicrobial Resistance (AMR) by strengthening preparedness of animal health system through one health approach to pre-empt the emergence of these threats and mitigate their impacts.



Strategic Framework

Contribute in better production by reducing the incidences of emerging and re-emerging diseases through increased capacity building and preparedness and implementation of biosecurity measures at farm levels



Program Priorities Areas

One Health Strengthened and better performing national and international integrated One Health systems for human, animal, plant and environmental health achieved through improved pest and disease prevention, early warning and management of national and global health risks, including AMR

OBJECTIVES



01

Promote evidence-based policies and practices that reduce the risk of disease emergence, supporting national One Health (OH) platforms.



02

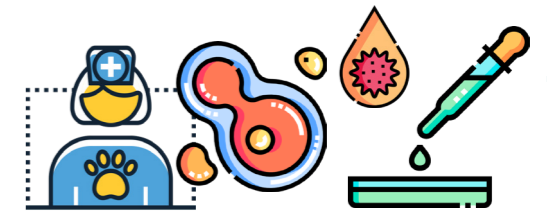
Strengthen national preparedness to respond to events of public health significance including AMR, bio-threats, HPAI, H5N1 and other high impact and zoonotic influenzas in the country (and possibility of a pandemic) through an inclusive One Health approach.



03

Enable a stronger approach for disease control, bilateral and multilateral technical exchanges and cross-border collaboration with focus on risk assessments, risk-based surveillance, diagnostic and pathogen characterization on biosecurity and biosafety as well as on prevention and risk reduction including vaccination and infection prevention and rational use of antimicrobials.

Key Activities and Achievements



- 01 AMR surveillance capacity of veterinary laboratories assessed using the FAO ATLASS tool.
- 02 Farmers level training for poultry and pig farmers on improved biosecurity measures and rational use of antibiotics.
- 03 Livestock and animal health data visualization using open access QGIS software.
- 04 Training on sample collection, storage, dispatch and epidemiological reporting for veterinarians and animal health technicians.
- 05 Bird flu outbreak investigation to understand the disease drivers.
- 06 Supported Central Veterinary Laboratory in renovation of BSL 2+ facility, supply of reagents, sample transportation to international reference laboratory and review of documentation for ISO 17025
- 07 Support in training for Rabies database and vaccine bank.
- 08 Supported in Rabies control and prevention by training human resources on animal birth control, school education and mass dog vaccination.
- 09 International Training on Veterinary Pathology and Diagnostics
- 10 Commemoration of a World Antimicrobial Awareness Week (WAAW) through multisectoral coordination and collaboration by conducting laboratory-clinical interface workshop, development of awareness materials and awareness rally

Total Activities/Training Conducted in Year 2022

- Biosecurity measures and rational use of antibiotics in small and medium holder poultry and pig farmers
- Livestock and animal health data visualization using open access QGIS software to government officials
- Sample collection, storage, dispatch and epidemiological reporting for veterinarians and animal health technicians
- Training to maintain a database on laboratory confirmed rabies cases and rabies vaccine distribution
- Biosafety and Biosecurity training for laboratory personnel
- Virtual training on Animal Health Economics and the OutCost tool
- Training on animal birth control for public and private veterinarians
- Training of trainers for veterinarians on rabies prevention and control
- International Training on Veterinary Pathology and Diagnostics
- Epidemiology and basic data analysis training

16 TRAININGS
52 ACTIVITIES



07 Multi-sectoral Coordination and Collaboration



Workshop to improve the networking between veterinary laboratories and epidemiology to improve animal disease reporting



Awareness on emerging diseases such as bird flu and African Swine Fever (ASF)



Workshops to improve capacities to tackle priority zoonotic diseases (PZDs) and emerging animal diseases



Interaction workshop to improve the animal disease reporting from private veterinary sector



EpiNet Forum Workshop

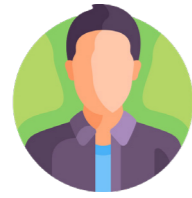


Laboratory clinical interface workshop for public veterinarians and technicians



Laboratory clinical interface workshop for private veterinarians

Total Reach By Numbers



260



997



Food and Agriculture Organization of the United Nations

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Implementing Partners



MINISTRY OF AGRICULTURE AND LIVESTOCK DEVELOPMENT



DEPARTMENT OF LIVESTOCK SERVICES

Funding Partner



USAID
FROM THE AMERICAN PEOPLE



Food and Agriculture Organization of the United Nations

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Fact Sheet