

Biosecurity for Disease Prevention

Safeguarding Poultry Health

The "Biosecurity for Disease Prevention" technology involves practices and strategies in poultry farming to prevent disease spread. It focuses on three main elements: isolation, traffic control, and sanitation, along with training for farmers and workers. This technology emphasizes early disease detection and diligent surveillance to minimize impact. Biosecurity is crucial througho...



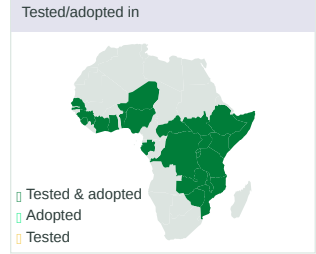
Technology originally documented by
ProPAS

Commodities
Poultry

Sustainable Development Goals

Categories
Production, Practices, Pest management

- Best used with
- [Universal Vaccination against Newcastle Diseases >](#)
 - [Value Addition to Poultry Manure >](#)



This technology is **TAAT1 validated**.

Scaling readiness: idea maturity 8/9; level of use 7/9

Gender assessment **8 4**

Climate impact **8 7**

Problem

- High risk of disease introduction and transmission due to large, concentrated bird populations.
- Diseases can cause mass culling and significant economic losses.
- Effective strategies are needed to prevent disease transmission.
- Certain diseases, like Salmonella and Avian Influenza, also threaten human health.

Solution

- Biosecurity for Disease Prevention offers a comprehensive solution:
- It includes preventative measures like isolation, traffic control, and sanitation.
 - Emphasizes diligent surveillance for early disease detection to reduce impact and spread.
 - Promotes training for poultry farmers and workers to highlight the importance of biosecurity for health and profitability.
 - Applies biosecurity measures at all stages of the poultry value chain, from breeding to processing.
 - Protects against various poultry pathogens, addressing threats to both poultry and human health.

Key points to design your project

Implementing biosecurity measures in poultry farming can enhance gender equality (SDG 5) by improving working conditions, particularly benefiting women. These measures also boost climate resilience by preventing disease outbreaks and reducing waste. Additionally, biosecurity supports various Sustainable Development Goals (SDGs), including good health (SDG 3), decent work (SDG 8), and responsible consumption (SDG 12).

To integrate biosecurity practices into your project, consider the following:

- Design secure premises with veterinarians and engineers.
- Engage with technology providers on the importance and profitability of biosecurity.
- Develop communication materials like flyers, videos, and radio broadcasts.
- Provide a team of trainers for installation, training, and support, including costs for these services.

Accompanying solutions include universal vaccination against Newcastle disease and adding value to poultry manure.

ROI: \$\$ **50 %**

Veterinary costs reduced

0.036—0.076 USD

Materials per birds



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<http://taatdb-web.gov/technologies/biosecurity-for-disease-prevention>

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