

# 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 throughout the poultry value chain, from breeding to feed processing, to protect against various pathogens, including those harmful to humans.

This technology is **TAAT1 validated**.

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

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

Veterinary costs reduced

**0.036—0.076 usd**

Materials per birds

### 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

- Implementing preventative measures such as isolation, traffic control, and sanitation.
- Emphasizing early disease detection through diligent surveillance.
- Offering training to poultry farmers and workers on the importance of biosecurity for health and profitability.
- Applying biosecurity practices across all stages of the poultry value chain, from breeding to processing.
- Protecting against a wide range of poultry pathogens, safeguarding both poultry and human health.

## Key points to design your business plan For Manufacturers:

The biosecurity program prevents disease outbreaks in poultry farms, improving flock health and productivity while reducing long-term costs. Target customers include poultry equipment and veterinary product manufacturers, and both commercial and smallholder producers. Manufacturers should collaborate with veterinarians, agricultural extension services, and research institutes to stay updated and promote biosecurity practices.

## For Users:

Biosecurity measures help poultry farmers reduce disease risk, treatment, and culling costs, leading to healthier flocks, increased egg production, and better profitability. Key partners include veterinarians, biosecurity product suppliers, and agricultural extension services. The cost is low (2-5% of total operations) with a cost/benefit ratio of 1:49.



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Technology from

ProPAS

Commodities

Poultry

Sustainable Development Goals



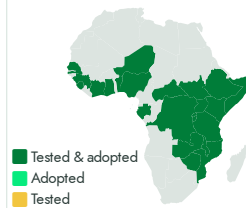
Categories

Production, Practices,  
Pest control (excluding weeds)

Best used with

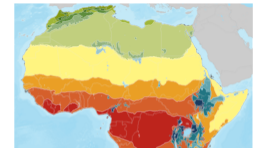
- [Poultry Vaccination against Newcastle Diseases >](#)
- [Value Addition to Poultry Manure >](#)

Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.



Gender assessment 4

Climate impact 7

