

Poultry Vaccination against Newcastle Diseases

Low-cost vaccination for poultry

The “Universal Vaccination against Newcastle Diseases” is a method for widespread vaccination in poultry. It includes thermostable vaccines, efficient logistics, easy application, and vaccinator training.



ND I-2 vaccine is available in small vials



International Livestock Research Institute (ILRI)
Tunde Amole

✓ This technology is **TAAT1 validated**.

7·7



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

📄 Project adoption **1**

Technology integrated in the ENSURE project.

Inclusion assessment **3**

Climate impact **6**

Problem

- **High Mortality & Uptake:** Newcastle disease causes high mortality in poultry, with limited vaccine uptake.
- **Accessibility & Knowledge:** Vaccine access and disease knowledge are challenges.
- **Vaccination Issues:** Inconsistent application and poor systems hinder effective vaccination.

Solution

- **Thermostable and Broad Protection:** The ND I-2 vaccine is developed from a temperature-tolerant strain of the virus, enabling it to withstand varying temperatures and offer protection against a wide range of Newcastle Disease Virus strains.
- **Strong Immune Response and Ease of Use:** The vaccine triggers a robust immune response in poultry and is user-friendly with straightforward administration and storage procedures.
- **Safety and Long-lasting Protection:** The vaccine is widely accepted due to its proven effectiveness and safety. It offers enduring protection, reducing the need for frequent re-vaccination.

Technology from

ProPAS

Commodities

Poultry

Sustainable Development Goals



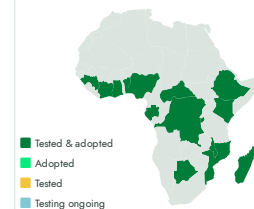
Categories

Production, Inputs, Animal healthcare

Best used with

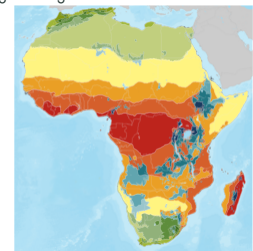
Biosecurity for Disease Prevention
See all 1 technologies online

Tested/adopted in



Where it can be used

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



Target groups

Farmers

Key points to design your program

Universal Vaccination against Newcastle Disease can be integrated into livestock development, food security, animal health, and rural livelihood programs to reduce poultry mortality, improve flock productivity, and strengthen household incomes. Its adoption contributes to **SDGs 1, 2, 3, and 8**.

To integrate this technology into your project, plan and budget for the following activities and prerequisites:

- Facilitate access to ND I-2 vaccines, vaccination equipment, and cold chain systems.
- Build partnerships with ILRI, veterinary services, vaccine producers, extension systems, and cooperatives.
- Train vaccinators and poultry farmers on vaccine administration and poultry health management.
- Promote women’s and youth participation in vaccination services and poultry businesses.
- Monitor vaccination coverage, mortality rates, poultry productivity, and income improvements.

2.5 USD

per round of vaccination for 20 chickens

250 USD

local vaccination campaign at the village level



Open source / open access



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<https://taat.africa/unr>

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