## TAAT e-catalog for private sector

# **Applied Biosystems:** Comprehensive Animal Health **Diagnostic Tools**

Thermo Fisher SCIENTIFIC

Thermo Fisher Scientific Thulile Nhlapo

Commodities

Sustainable Development Goals









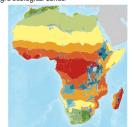
Categories

Production, Equipment, Pest control



#### Where it can be used

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



Target groups

Breeders, Veterinary Laboratories, Researcher center

Boost efficiency in animal sample extraction and improve target amplification

Thermo Fisher's Animal Health diagnostic technologies include advanced tools such as the Avian Influenza Kit, VetMAX Master Mixes, MagMAX Core Sample Extraction Kits, and the QuantStudio 5 Real-Time PCR system. Together, these tools are designed for the precise detection of animal pathogens, especially avian influenza, through high-sensitivity PCR-based diagnostics.









Cost: \$\$\$) 15 USD per sample

For routine testing

150,000 usp

Installation of a qPCR workflow for extraction to result

#### **Problem**

- High Economic Impact: Outbreaks like avian influenza cause mass culling and major economic losses, affecting food security.
- Yield Losses: Disease outbreaks in livestock reduce productivity, impacting farmers' incomes, especially for smallholders.
- Limited Lab Resources: Many veterinary labs lack resources for reagent preparation and complex diagnostics, limiting accessibility to reliable testing.

#### Solution

- High Sensitivity and Specificity: Real-Time PCR Kits (e.g., Avian Influenza Kit) detect low pathogen levels for early disease detection and
- Streamlined Sample Processing: MagMAX Kits simplify DNA/RNA extraction, increasing efficiency and reducing sample processing time.
- User-Friendly and Resource-Efficient: Simplified protocols and minimal prep make the technology accessible for smallholder farmers and resource-limited labs.

### Key points to design your business plan

#### For Resellers:

- Source products in bulk and partner with local veterinary clinics, labs, and agricultural organizations.
- Ensure proper storage and distribution.
- · Target customers: veterinary clinics, labs, farms, development projects, and government agencies.

#### For Users:

- Assess costs, benefits, and availability through authorized distributors.
- · Training is key for effective use.
- Partner with retailers or agro-dealers to maximize profit and productivity.

Inclusion assessment



Climate impact



