

Local Production of Quality Affordable Poultry Feed

Cutting Costs, Boosting Nutrition

This practice involves blending various ingredients to create a balanced feed ration for chickens, optimizing their growth and production. The basic formulation includes maize or wheat, soybeans, bran, oil press cake, fish and bone meal, poultry supplement, limestone, and salt. The feeds are further processed into mash for chicks or pelleted for larger birds.



Un poulet se nourrissant d'asticots riches en protéines



International Livestock Research Institute (ILRI)
Tunde Amole

Technology from

ProPAS

Commodities

Poultry

Sustainable Development Goals



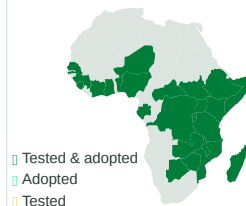
Categories

Pre-production, Equipment, Animal feed production

Best used with

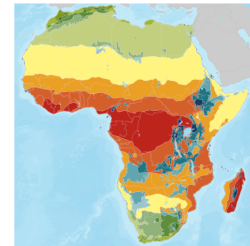
- [Cassava Peels for Animal Feed Production >](#)

Tested/adopted in



Where it can be used

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



Target groups

This technology is **TAAT1 validated**.

9-9



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

Cost: \$\$\$ **3,000—36,000 USD**
per machine

ROI: \$\$\$ **60 %**
reduction of feed cost

100—200 kg
feed production per hour

5 years
life span

IP
Open source / open access

Problem

- Limited access to safe and low-cost poultry feed inhibits enterprise profitability and expansion.
- Dependence on expensive purchased feeds restricts small-scale farmers from scaling their operations.
- Balancing the ration with the right combination of nutrients is essential for poultry health and productivity.
- Leveraging locally available ingredients for feed production can reduce costs and enhance profitability.

Solution

- Utilizing locally available and seasonal materials for feed production.
- Blending local energy and protein ingredients with purchased additives to create formulated feeds.
- Reducing feed costs through free-ranging practices and using local by-products.
- Implementing proven technologies to improve local meat and egg supplies.

Key points to design your business plan

- The Local Production of Quality Affordable Feed Technology promotes sustainability in poultry farming by reducing feed expenses, fostering economic development, and advocating for eco-friendly practices.
- Essential collaborators include suppliers of feed ingredients, equipment manufacturers, distributors, and agricultural consultants.
- Given the technology's availability in various countries like Zimbabwe, Zambia, Uganda, and others, it's crucial to consider delivery expenses and potential import duties.
- Machinery costs vary, with equipment capable of processing 1 ton of poultry feed per hour priced at approximately USD 36,000, while machines processing 100 to 200 kg per hour cost around USD 3,000.
- Profitability assessment is essential, with processed cassava peel mash offering a cost-effective alternative to grains in poultry feed, reducing costs by up to 50%.

Gender assessment 4

Climate impact 6

