

Semi-Automatic Incubator for artificial hatching

Hatching Success, One Chick at a Time

This technology reproduces the natural incubation process on a larger scale. They are designed to accommodate 50 to 150 eggs at a time. They can be heated using kerosene or a battery-powered light bulb, offering an alternative to mains electricity.



International Livestock Research Institute (ILRI)
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This technology is **TAAT1 validated**.

8-8



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

Cost: \$\$\$ **100—200 USD**

Incubators

ROI: \$\$\$ **20 %**

per cycle

150 USD

200 USD

500 USD



64-egg manual solar unit

fully automated 96 egg unit

Hatchery start up requirement

Open source / open access

Technology from

ProPAS

Commodities

Poultry

Sustainable Development Goals



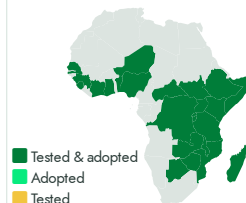
Categories

Production, Equipment

Best used with

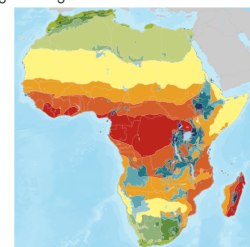
- [Flock Improvement of Meat and Layer Breeds >](#)
- [Dual-Purpose Chicken for Small-Scale Producers >](#)

Tested/adopted in



Where it can be used

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



Problem

- Limitation of natural incubation in producing chicks, with a capacity of only 10-12 chicks per hatch.
- Difficulty in responding quickly to the market demand for chicks.
- Risk of the spread of parasites and diseases in the natural incubation process.

Solution

- This technology has the ability to hatch day-old chicks in just 21 days, increasing the capacity to produce a large number of chicks in a short time in response to market demand.
- High success rate of 85-90% in artificial incubation, increasing production efficiency.
- Reduced risk of the spread of parasites and diseases in the artificial incubation process.

Key points to design your business plan

This technology benefits both resellers and end-users (farmers). For resellers, to success in this market involves:

- Establishing robust distribution networks, offering training programs, ensuring a consistent supply, and providing effective after-sales support. Target customers
- Include rural communities, small-scale poultry farmers, and local agro-veterinary shops.

For users:

- Evaluating quantity, considering delivery, import clearance, and duties, and collaborating with agro dealers are key steps.
- Associating this technology with other poultry farming approaches can offer a comprehensive and sustainable approach.

Gender assessment 4

Climate impact 7



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https://e-catalogs.taatafrica.org/com/technologies/semi-automatic-incubator-for-artificial-hatching

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