

# Semi-Automatic Incubator for artificial hatching Artificial Hatching



Digital semi-automatic egg incubator



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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.

This technology is **TAAT1 validated**.
  **8·8**
 Scaling readiness: idea maturity 8/9; level of use 8/9

Gender assessment 4
 Climate impact 7

### 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 project

The Artificial Hatching in Semi-Automatic Incubators technology transforms poultry farming by accelerating chick production and ensuring a reliable supply. To integrate it in your project:

- Conduct awareness campaigns, assist in selecting incubators, and develop marketing strategies.
- Evaluate quantity, consider delivery costs, and collaborate with institutes for implementation.
- Training and communication support are vital, and association with other poultry farming practices enhances sustainability.

<p>Cost: \$\$\$ <b>100—200 USD</b></p> <p>Incubators</p>	<p>ROI: \$\$\$ <b>20 %</b></p> <p>per cycle</p>
<p><b>150 USD</b></p> <p>64-egg manual solar unit</p>	<p><b>200 USD</b></p> <p>fully automated 96 egg unit</p>
<p> IP</p> <p>Open source / open access</p>	

Technology originally documented by  
ProPAS

Commodities  
Poultry

Sustainable Development Goals

**2** ZERO HUNGER

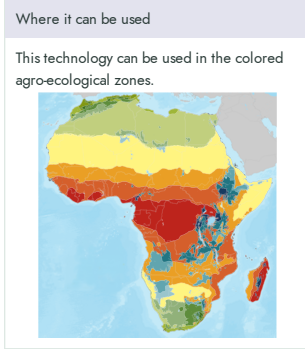
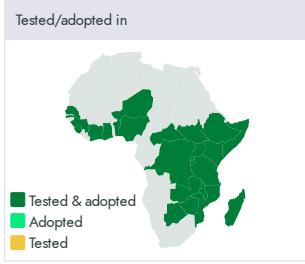
**3** GOOD HEALTH AND WELL-BEING

**8** DECENT WORK AND ECONOMIC GROWTH

Categories  
Production, Equipment

Best used with

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



Semi-Automatic Incubator for artificial hatching  
<https://e-catalogs.taatafrica.org/gov/technologies/semi-automatic-incubator-for-artificial-hatching-artificial-hatching>  
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