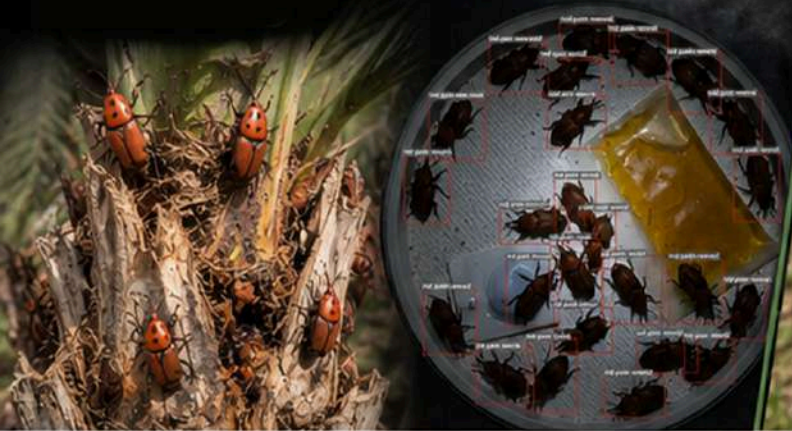


# DeepTrap INS

Intelligent Precision Agriculture



## Power Efficiency

Engineered for Efficiency.



### Solar Power

Sustains 24/7 operations using high-efficiency photovoltaic panels integrated into the trap design.



### AI Algorithm for Counting

On-edge AI verifies and counts Red Palm Weevils instantly, providing precise infestation data without manual labor.



### Ultra-Low Power Draw

The system remains in deep sleep, only drawing power when taking pictures or processing sensor triggers.

## DeepTrap Efficiency



### Intelligent Beam Activation.

DeepTrap INS uses an integrated beam sensor to detect when an insect enters. This ensures the camera and GSM module only activate when necessary.



### Event-Driven Capturing

The camera only triggers upon entry, saving battery and focusing data on actual pest activity.



### Low-Data GSM Protocol

Optimized data packets send beam sensor triggers and pheromone levels directly to the app with minimal bandwidth.

## Beam Sensor Tech

Control from your pocket.

Monitor hundreds of traps from a single dashboard. Receive instant push notifications.



### Pheromone Audit

Never waste manpower checking empty traps; only visit when the pheromone is low.



### Insect ID & Sorting

Our computer vision is trained to identify the specific size and shape of the Red Palm Weevil versus other non-target insects.

## Using App in Field

AI Processing in the Field.

Designed for real-world agricultural conditions. Our application provides scouts and farm managers with high-resolution data even in the most remote plantation locations.

- Edge AI processing unit on board
- On site data storage of raw and AI processed images.



## AI Processing in the Field.

Visual Verification.

By combining beam sensors for triggering and high-resolution AI snapshots, DeepTrap INS provides a complete audit trail of your plantation's health.

