

AI Driven Robots for agriculture

Domain: Agri-technology & Agri-inputs

Technology: The flagship product X100 robot performs every farm operation beginning with seeding till harvesting with the help of various AI enabled smart attachments.



PROBLEM addressed:

Extreme difficulty in finding farm labour

90% of farmers have difficulty in finding labor on time

Issues such as worker slack, increasing wages & unproductive worker attitude continue to pain farmers even when labor is engaged

Beneficiaries: Farmers with over 7 acres of land who grows vegetables, cotton, maize, chilly, tobacco, etc. and rural micro-entrepreneurs and enterprise companies who produce seeds and other food products in their farms.

Value Proposition: The benefits with these Robots are that Farmers can cut down operational costs & increases yields as every job is done in a scientific manner with precision.

Technology Status: Patent, Trademark, Copyright, Industrial Designs.

Technology Features:

Multiple attachments allow for Razor-Blade model. Sprays herbicide precisely on weeds by using AI. Spraying Scientifically validated that savings of ~30% of chemical was achieved. Pilot conducted on weed control operation in Maize

Applications:

A Semi-Autonomous Robot which performs farm operations with the help of various attachments / modules.

Operations include: 1. Seeding, 2. Sapling plantation, 3. Weed control, 4. Pest control 5. Fertilizer micro-dosing, 6. Harvesting, etc.

Market Potential: At 28.7% CAGR, Agriculture Robots Market Size is Projected to Exceed USD 26679.4 Million by 2027.

Requirements: Technology Transfer, Commercialization, Licensing.