



Revolution in the world of agriculture



For smart and
sustainable agriculture

Environmental problems

- 1 severe water scarcity
- 2 overuse of pesticides
- 3 Huge financial cost
- 4 Waste of water resources
- 5 Difficulty controlling pests and diseases

Robot results FARM8OT



Intelligent distribution of resources

Farm8ot helps in the smart distribution of resources by using advanced technology to determine the exact needs of each plant for water and nutrients, reducing waste, saving resources, and protecting the environment for more sustainable farming



Reducing financial costs

FarmBot helps reduce farming costs by automating planting, watering, and fertilizing, which decreases the need for manual labor and saves resources and time



Reducing water waste and use

FarmBot helps reduce water waste by using precise irrigation systems that give each plant the exact amount of water it needs. This smart control saves large amounts of water, improves plant health, and supports sustainable farming



Agriculture on a large scale

FarmBot enables large-scale farming by automating planting, watering, and monitoring processes with high accuracy. This allows farmers to manage bigger areas efficiently, increase productivity, and maintain consistent crop quality

How Farm8ot Works

Farm8ot Works

Works through a set of internal components, most notably



Camera

Captures images, monitors plant growth, helps detect diseases or issues, and assists in guiding the robot's movement

NBU Processor

An AI processor that controls and manages operations by processing data from sensors and making decisions for automated tasks

Suspension System

Works by absorbing shocks and adapting to uneven surfaces, allowing the robot to move smoothly and maintain balance, inspired by NASA's Mars rover design

What does the farmer benefit from Farm8ot



Cost Reduction

Farm8ot helps reduce farming costs by automating many tasks such as planting, watering, fertilizing, and monitoring. This reduces the need for manual labor, saves time, minimizes waste of resources like water, fertilizers, and pesticides, and lowers overall expenses, making farming more efficient and affordable in the long term



Productivity and Quality Improvement

Farm8ot increases productivity and improves crop quality by precisely monitoring plant growth, ensuring optimal watering and fertilizing, detecting diseases or pest issues early, and collecting accurate data about soil and plants. This allows farmers to make informed decisions, manage their farms more efficiently, and achieve sustainable, high-quality agricultural production



Impact of Farm8ot on Agriculture and the Environment

Farm8ot positively affects agriculture and the environment by increasing productivity through precise planting, watering, and fertilizing while continuously monitoring plant growth. It reduces the use of water, fertilizers, and pesticides by applying them only where needed, minimizing waste and pollution. It also detects plant diseases early, supports sustainable farming, and enables efficient resource management, leading to healthier crops and a cleaner environment





Future Vision of Farm8ot

In the future, Farm8ot is expected to become an essential part of modern agriculture. It will use more advanced AI and robotics to fully automate planting, watering, fertilizing, and harvesting while continuously monitoring crops. Farmers will be able to manage larger areas more efficiently, reduce resource use, improve crop quality, and achieve sustainable and smart farming practices, helping to address food security and environmental challenges.

