

AG Tech AI and IoT for Agriculture

Wolfberry LLC





Who We Are

Wolfberry LLC is a company owned and operated by a diverse team of individuals with a passion for technology, and an understanding of what the future holds for us. We respect each other and our families and know that the future is what we make of it right now. We are consciously aware of the dangers that we face in the Agriculture Technology space and know that it takes not only passion but a driven and proactive approach to address these issues. We have brought forth the best of technology to make agriculture not only more efficient, but have built on a model that is mutually beneficial to us as a company, our farmers, and the agricultural industry.





Agriculture Today

Across the world there are multiple ways in which we have studied and began to practice farming techniques. We as humans began as foragers who then learned to harvest our food. Allowing us to spend more times on ourselves and families and to reflect on the different ways we can provide nutrients to one another.

Farming can either be produced to distribute exports or it can be used for sustaining localities and families. Some of the more common agricultural practices are polycultural farming which creates and recreates the ecosystem in which plants naturally occur, agroforestry which involves planting trees to create micro-climates to protect crops against extremes, indoor farming that allows farmers to grow crops in an indoor controlled environment, water harvesting for collecting rainfall and creating irrigation systems for the crops to grow, plantation agriculture that involves planting a single crop on large plots of land and many others. With the exception of indoor farming in controlled environments most farming in regards to plant growth is dependent on the weather.

The Problem

In a changing world we must alter and redesign our approach to address the problems we face today and in the near future.

Our Current Obstacles

Climate Change

Wildfires

Flooding

Land Pollution

Invasive Species

Soil Degradation

Irrigation Problems

Waste

Limited Marketing Power & Profits

Harmful Pesticides

Nutrient Deficiencies



Solutions in Technology

No solution is going to be a fix all for the agricultural industry. We cannot control natural disasters or those who use unsafe farming practices. What we can do is create technology that helps farmers and the agricultural industry utilize conscious farming practices and become aware of threats that may be endangering their crops. Not only can we help them address the issues they face that can be managed, but can track and supply them with additional data on how to make it more efficient. How will you know if your soil is lacking nutrients? How will you know what is causing it? We can detect changes in your environment as well as predict the potential outcomes. We not only provide you with information but with the sharing of data we can also give resources back to the farmers whether it be information on how to save their crops or profit for sharing the data to help other farmers who may be facing a similar difficulties. Sharing of information and resources has never been easier.



Benefits Of Technology



Our Blockchain technology allows farmers to securely login to our platform and share data without revealing their identity. Blockchain will allow for a distributed ledger system that keeps track of what has been sent so we can revenue share with those helping us help them and others in the agriculture industry track farming techniques and practices while monitoring the environment.

Blockchain



The Artificial Intelligence systems we use contributes to the better farming practices. The data we have created with our team of professionals and farming advisors help us facilitate suggestions and ideas for our farmers. Whether it be to alert you of looming threats to your environment, suggest better crops based on your available resources and plant culture, or just be a platform for you to track your own progress. AI works w for you with or without an Internet connection.

Artificial Intelligence



Our IoT systems works with AI to monitor, track, and automate your plant environment. The sensors are what collect the data and allow our systems to provide you with the best experience for your type of farming. Whether it be for mass production, indoor, or just your personal farm.

IoT

Features and Capabilities

Sensors & Actuators

Various Sensors and actuators connect to the network and pass through vital information that triggers actuators to perform specific tasks. Some examples are soil and ph sensors that detect dry soil and an out of balance PH. This would turn on a water pump and refresh the surrounding soil with just enough water. We also allow additional sensors to be added for scalability

Data Capture & Sharing

Information is captured by each sensor connected to the network, each sensor is able to store and send out data when called on and has the ability to be shared at the discretion of the farmer.

Prediction Models

We're leveraging artificial intelligence, machine learning and all available information captured, to determine automated, localized self care while providing additional vital information to the farmer..

Monitoring

A dashboard system is provided that lets our customers manage their agricultural projects, monitor sensors and adjust settings that affect the crop growth and harvest cycles.

Business Model

Our Business Model allows us to track from seed to harvest. It takes relevant data from the farmers and creates automation and gives relevant feedback back to the farmers. That data is then stored and given to our machine learning algorithm to give more precise and predictive measures to our farmers about the outcome and current state of our their crops. Through suggestion is can also connect farmers with local supply shops and resources as needed based on their supply. The farmer then has the option to share relevant data within the data pool through our applications that gets tracked with our Blockchain ledger system and can present them with additional profit for helping us and other farmers provide better services for crop harvesting



Conclusion



In conclusion we are taking the best of current technologies to make farming more efficient for all types of farmers and locals, whether Commercial or Local. As new technology advances we will continue to build and incorporate them into what we currently have in place. We allow for licensing and APIs to let others build upon the network we currently have in place to make it more custom to their farming needs. With development of Augmented Reality we will be advancing our current model to include better imagining and control without the need of a mobile device or computer but rather with control of our movements and eyes. This will keep our data more relevant and create an easier platform use for our farmers. So they can use their hands and visualize the changes needed and occurring with their farm.



The Team



Andrew Chief Executive
Officer



Meka Chief
Technical Officer



Melinda Chief Operations
Officer