

An aerial photograph showing a patchwork of green agricultural fields, likely rice paddies, arranged in a grid pattern. The fields are separated by narrow paths and some larger roads. A small body of water is visible in the lower center. The surrounding terrain includes some trees and shrubs.

AgriZON

Executive Summary



Vision

Bridging the knowledge gap in modern agriculture through AI-powered land analysis and personalized farming solutions



Mission

Empowering land owners with data-driven insights to maximize agricultural productivity while creating employment opportunities for agricultural graduates



Target Market

Andhra Pradesh and Telangana
(Initial focus)

[Git repo](#)

[MVP Link](#)

Demo credentials
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The Agricultural Knowledge Crisis in India

10.5%

Fallow Land

Of Telangana's total geographical area remains unused

2.39M

Hectares

Total fallow land in Andhra Pradesh

60%

Generational Shift

Of agricultural land owned by non-agricultural professionals

₹15K

Crores Lost

Annual loss due to suboptimal land utilization

Knowledge Deficit

Modern professionals lack traditional agricultural wisdom

Time Scarcity

70% spend less than 10 hours monthly on agricultural planning

Labor Shortage

Migration to industrial sectors reduces farm workforce



Agrizon Platform

[Link](#)

Comprehensive AI-Powered Agricultural Solution



Geo-Location Mapping

Interactive map interface with 5-10 years of cloud-free satellite imagery and NDVI analysis



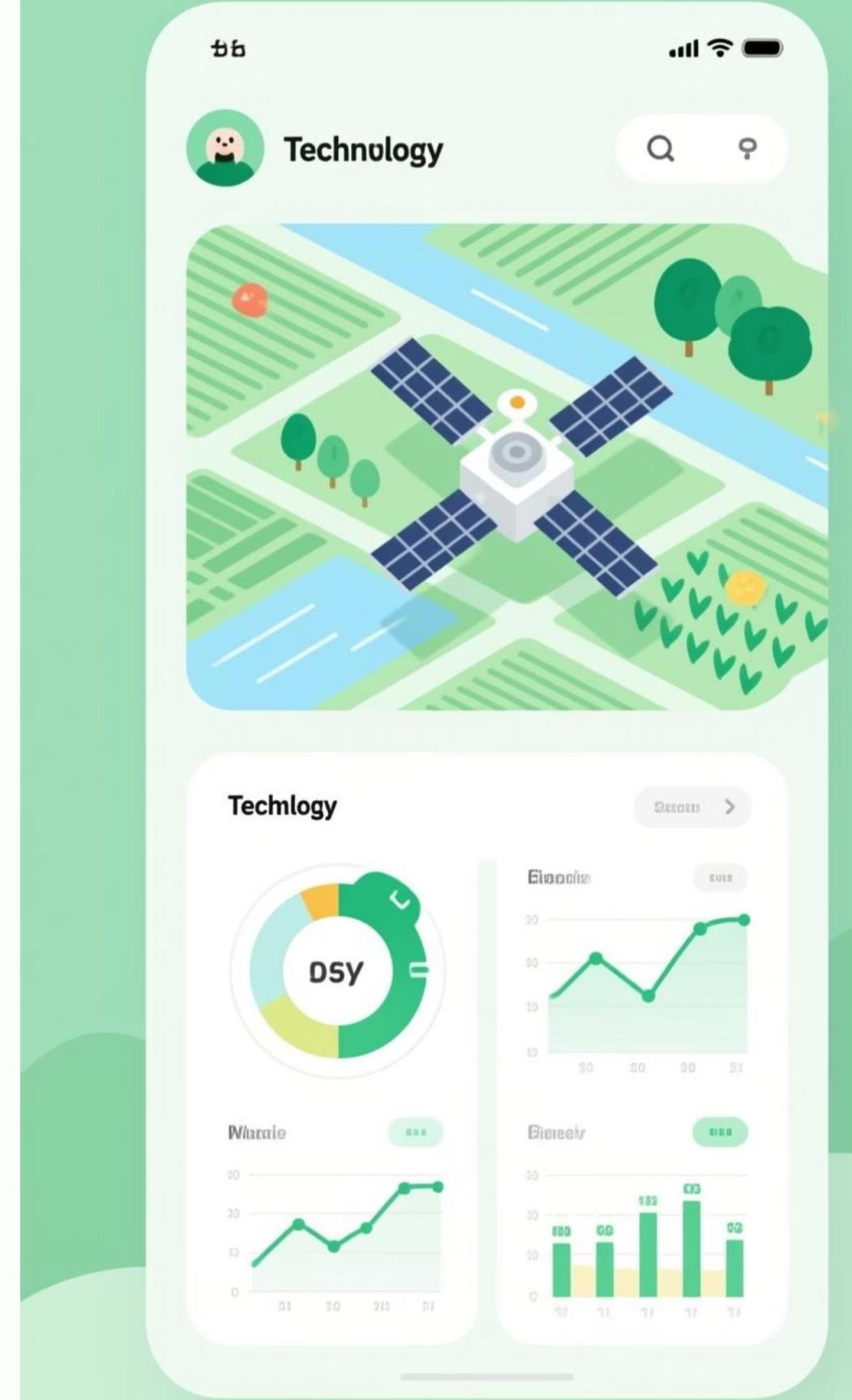
AI-Driven Insights

Clustering algorithms identify distinct land zones and classify into 6 productivity classes



Crop Optimization

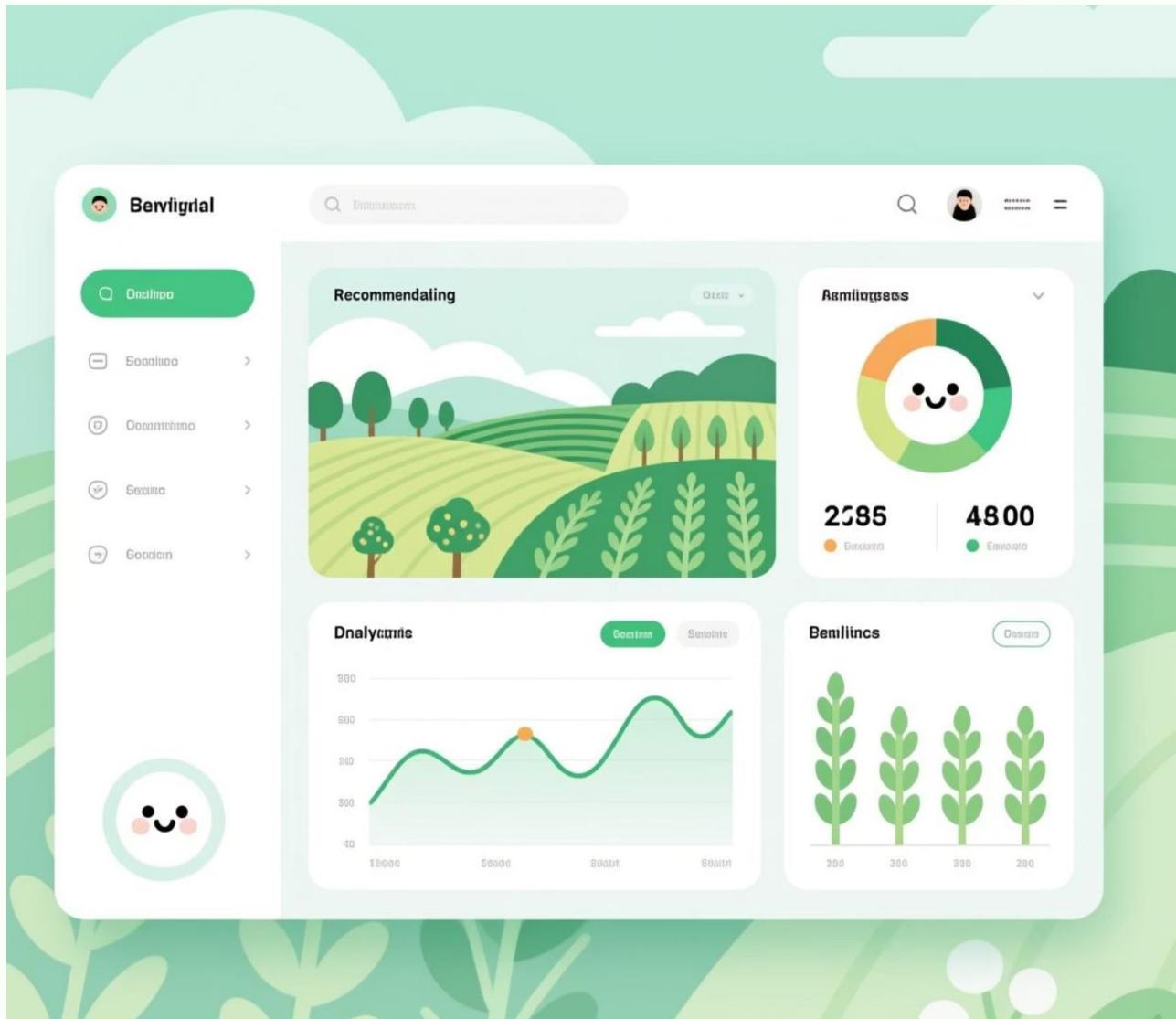
Personalized crop recommendations based on land characteristics, climate, and market demand



Two-Tier Service Model

Tier 1: Field Intelligence System

- Visual land productivity maps
- Profitability forecasting with ROI projections
- Crop Recommendation



Tier 2: AgroConsulting

On-Field Analysis

Soil testing and personal consultation by agricultural graduates

Smart Farm Setup

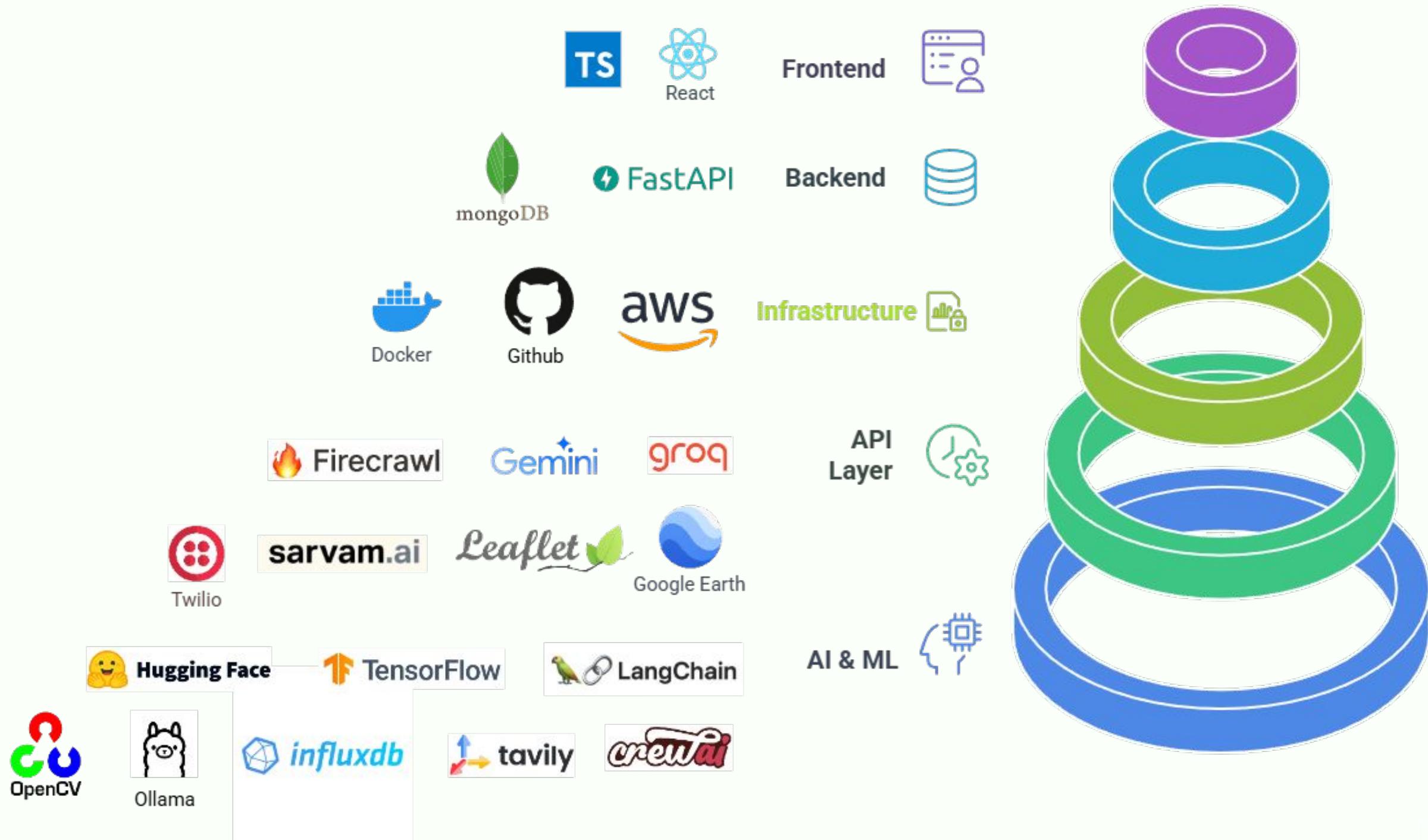
IoT sensors, automated irrigation, drone monitoring

Continuous Support

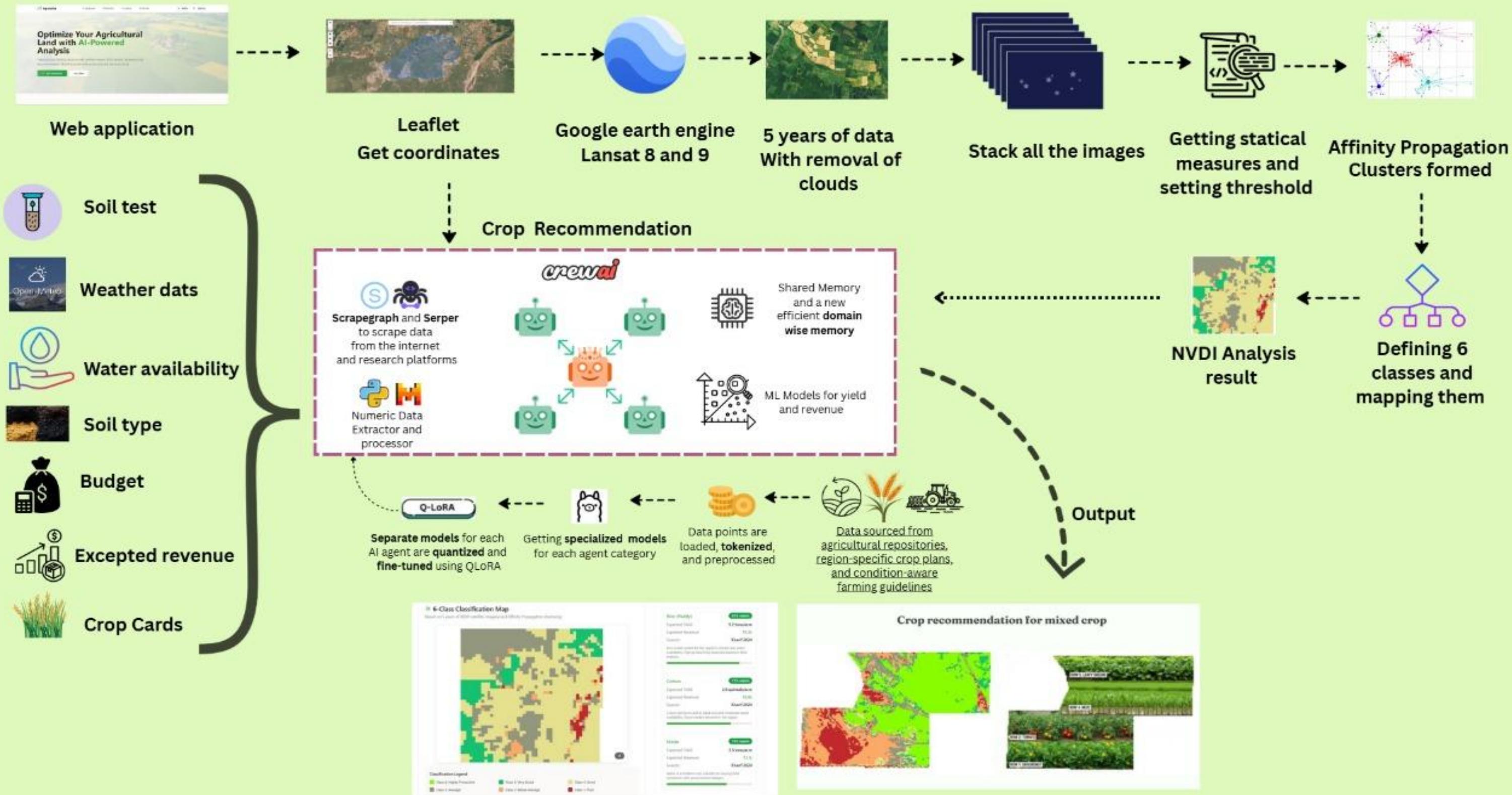
Regular visits, crop health monitoring, pest management



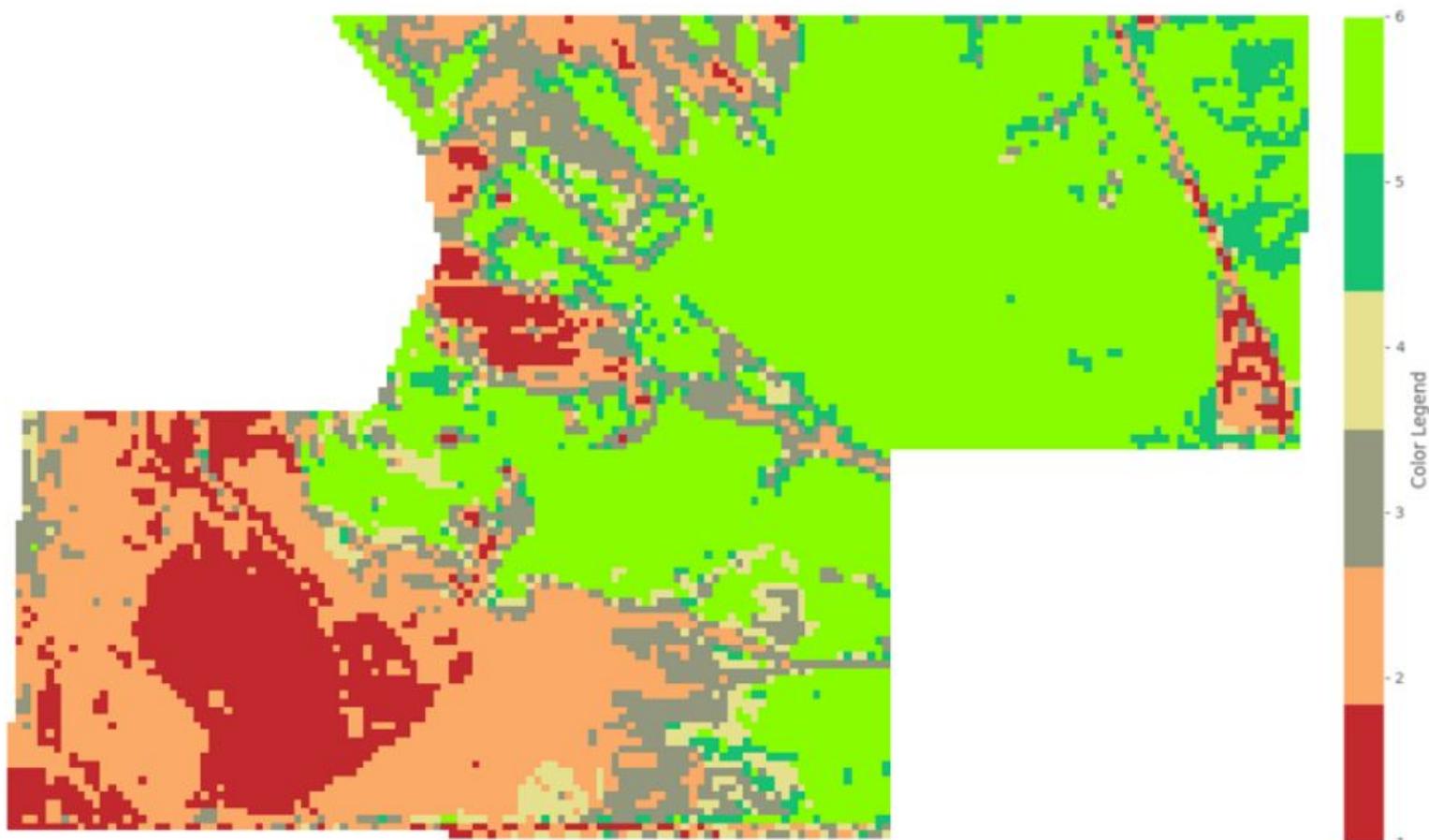
Tech Stack Overview



Flow diagram

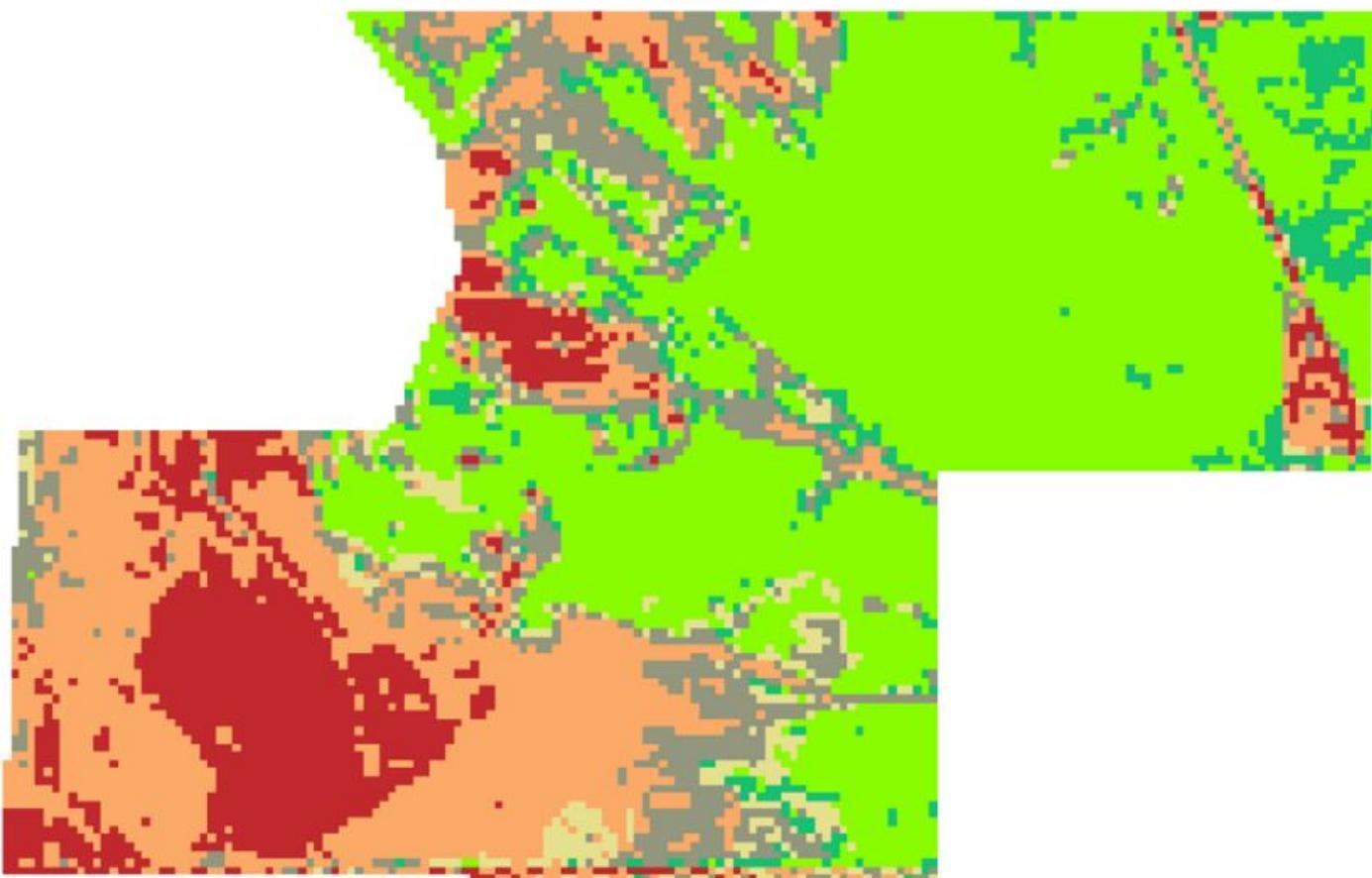


Sample Land analysis map



Class	Pixel Count	Area (<i>square meters</i>)	Area (<i>acres</i>)
1	1452	1,306,800	322.92
2	2583	2,324,700	574.45
3	1492	1,342,800	331.81
4	494	444,600	109.86
5	660	594,000	146.78
6	5683	5,114,700	1263.87

Crop recommendation for mixed crop



Business Model Canvas

Customer Segments

Primary (70%): Educated people with inherited land (15-100 acres), income ₹8-25 lakhs annually

Secondary (30%): Non-agricultural landowners, Progressive farmers, corporate ventures, consultancies

Geography: Andhra Pradesh & Telangana

Value Propositions

Transform underutilized land into profitable assets using AI-powered satellite analysis

- 5-10 years satellite data analysis
- 6-class growth classification
- 30-50% yield improvement
- ₹25,000-50,000 additional income per acre

Channels

Digital: SaaS platform, digital marketing, tech forums

Direct: University partnerships, field demos, government programs

Partnerships: Equipment dealers, input suppliers, insurance companies

Customer Relationships

SaaS: Self-service platform, automated recommendations, support

Premium: Dedicated consultant, monthly visits, 24/7 monitoring

Revenue Streams

SaaS: ₹1,000-2,000/year subscriptions

Premium: ₹2,000-5,000/acre analysis, ₹50,000-2L IoT setup

Commission: 5-10% on inputs, equipment partnerships

Key Resources

- AI/ML satellite analysis using clustering algorithms
- 5-10 years historical data from Landsat
- Agricultural consultants & student network
- IoT monitoring equipment, soil testing kits

Key Activities

- Satellite imagery processing & NDVI analysis
- Field analysis & crop recommendations
- IoT installation & monitoring
- Customer acquisition & training

Key Partners

- ESA (Sentinel-2) & ISRO satellite data
- Agricultural universities in AP & Telangana
- Input suppliers & equipment manufacturers
- Government agricultural departments

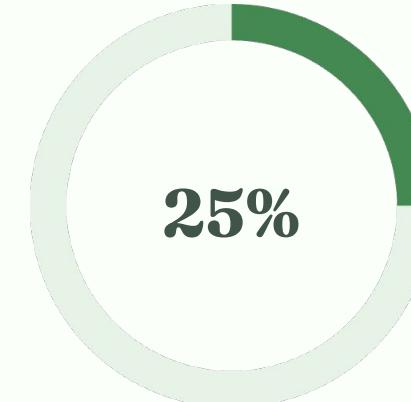
Target Market

Andhra Pradesh & Telangana



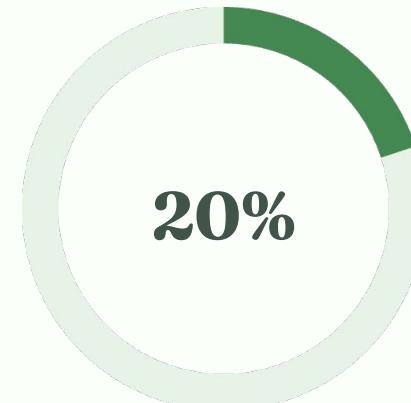
Educated people

Software engineers, doctors with 10-100 acres inherited land



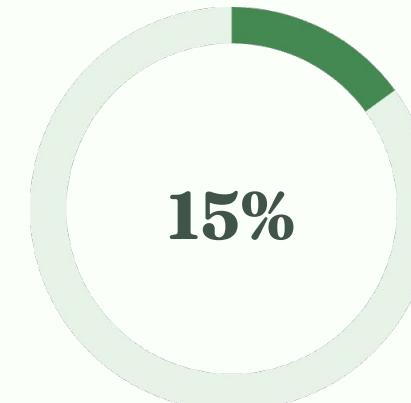
NRI Landowners

Non-resident Indians seeking remote land management



Progressive Farmers

Tech-savvy early adopters with 25+ acres



Investment Firms

Corporate entities requiring enterprise solutions

Market Size

160 lakh hectares combined agricultural area

Addressable Market

40 lakh hectares (medium to large landholders)

Potential Customers

5 lakh landowners in target segments

USP's of the Solution

The only AgriTech platform that turns busy professionals into profitable landowners without them becoming farmers.



AI-Powered Historical Intelligence

10 years of satellite data analyzed in minutes.

95%+ accuracy in profitable zone identification using proprietary NDVI-based classification.



Hyper-Local Expertise

Custom AI models trained on AP & Telangana crop patterns, soil types, and climate data.



End-to-End Solution

Only platform offering SaaS + full-service consulting.

Complete journey from analysis to automation—no multiple vendors needed.

Student Partnership Ecosystem

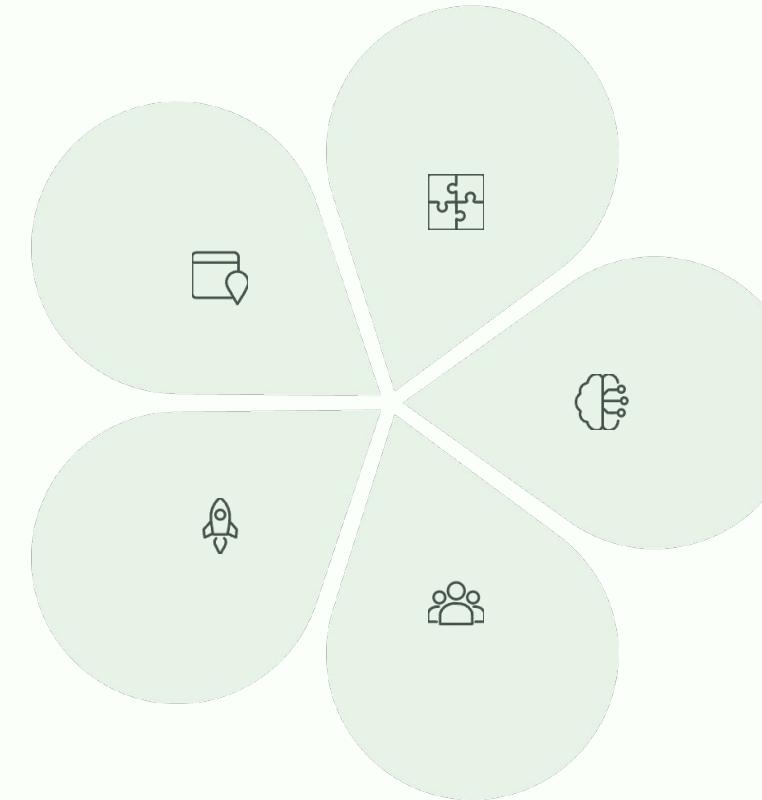
Agricultural students as field consultants create 40% cost reduction while generating 1000+ jobs.



Competitive Advantage

Hyper-Local Focus
Deep understanding of AP & Telangana agricultural patterns

Scalable Model
Platform approach with personalized services



Comprehensive Solution
End-to-end service from analysis to implementation

Human + AI Approach
Technology backed by agricultural expertise

Employment Generation
Creating jobs for agricultural graduates

- **Competitive Edge:** Unlike CropIn (enterprise focus), SatSure (insurance focus), or Fasal (IoT-only), AgroIndia combines regional expertise with affordable individual solutions.

Sustainable Development Goals

SDG 15 :Life on Land

Rehabilitating 50,000 acres
of degraded land.



SDG 13 : Climate Action

Building climate resilience
for 75,000+ farmers.



SDG 12 : Responsible Consumption

Reducing water use by 30%
and chemicals by 25%.



SDG 2 : Zero Hunger

Converting fallow land to
produce 1.5M tons
additional food annually.

SDG 8 : Decent Work

Creating 500+ direct jobs
and 2,000+ indirect jobs.

SDG 9 : Innovation & Infrastructure

Pioneering AI/satellite
technology in Indian
agriculture.

Go-to-Market Strategy

1

Phase 1: Market Entry

Months 1-6

- 100 early adopters pilot program
- University partnerships
- Digital marketing targeting NRIs and tech professionals

2

Phase 2: Regional Expansion

Months 7-18

- Offices in 5 major agricultural districts
- Hire 25 agricultural graduates
- Refine AI algorithms with regional data

3

Phase 3: Scale-Up

Months 19-36

- Full AP & Telangana coverage
- Launch IoT and automation services
- Partnerships with suppliers and financial institutions



Thank You