

An aerial photograph of a vast agricultural landscape, likely a rice paddy. The terrain is divided into a complex network of rectangular and irregular fields by a system of narrow, light-colored irrigation canals. The fields are filled with vibrant green crops, showing varying shades of green. A prominent canal runs diagonally from the bottom left towards the center. In the top left corner, there is a dense cluster of dark green trees. The overall scene depicts a well-organized and fertile farming environment.

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



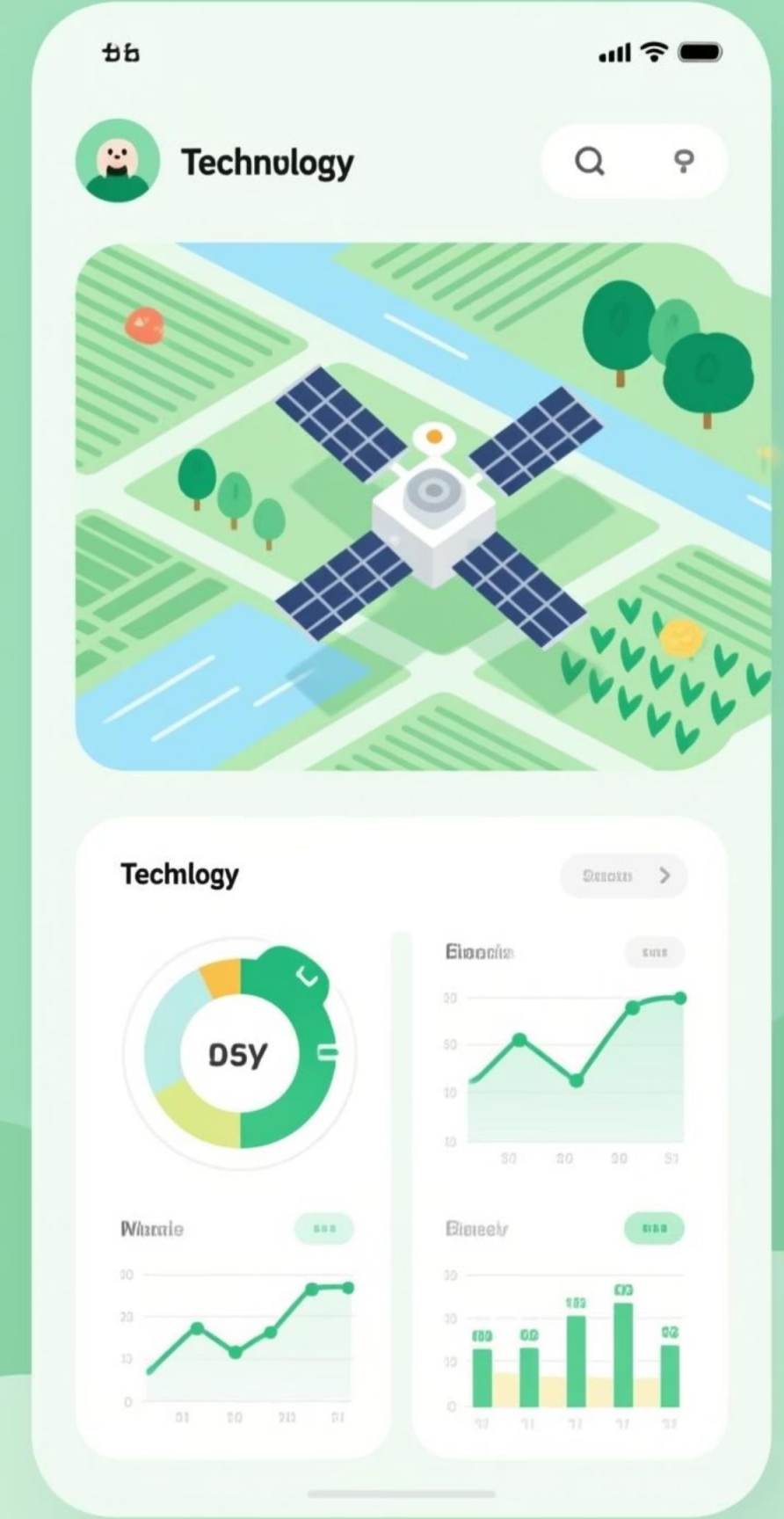
### AI-Driven Insights

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

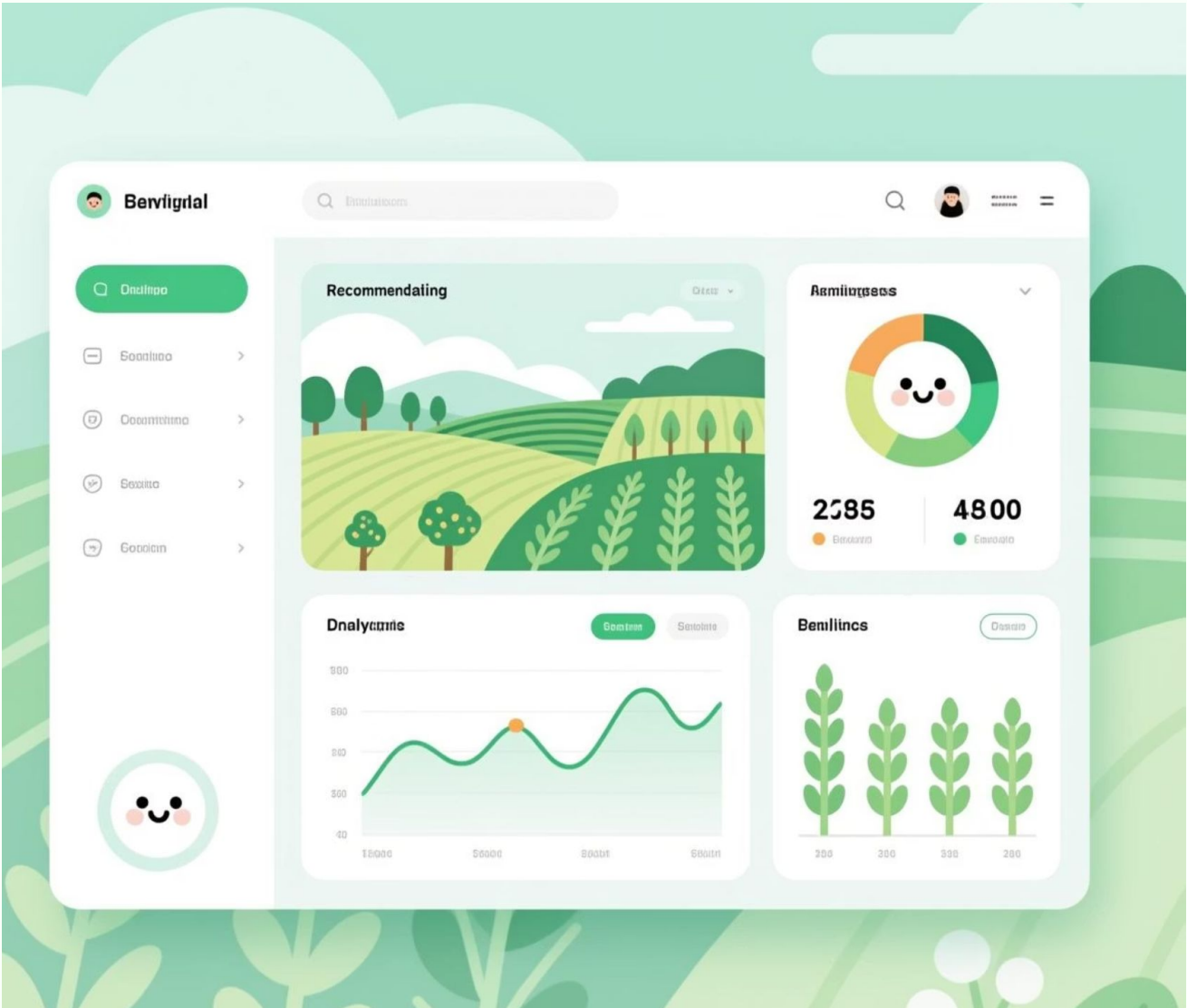







# Two-Tier Service Model

## Tier 1: Field Intelligence System

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

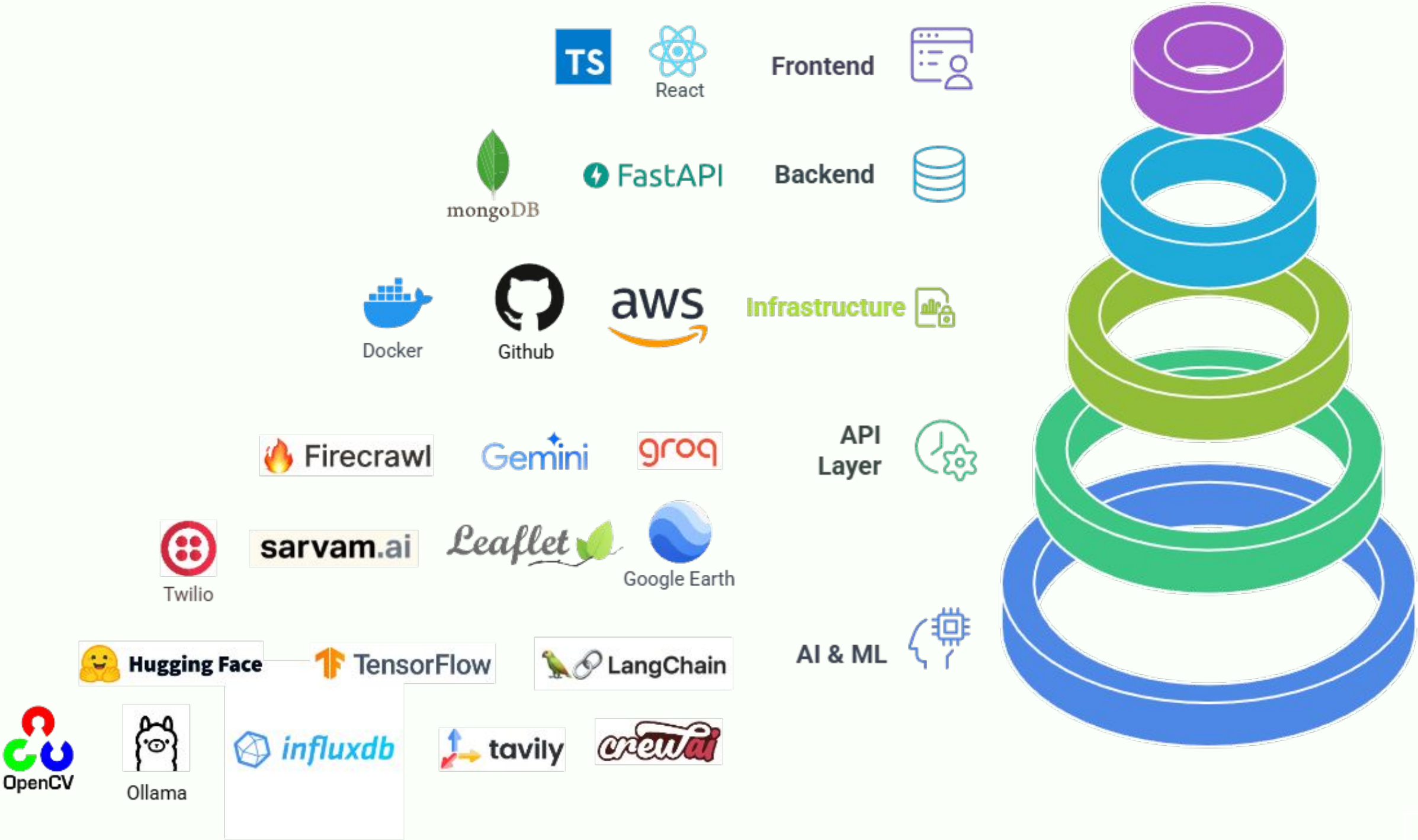


## Tier 2: AgroConsulting

-  **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

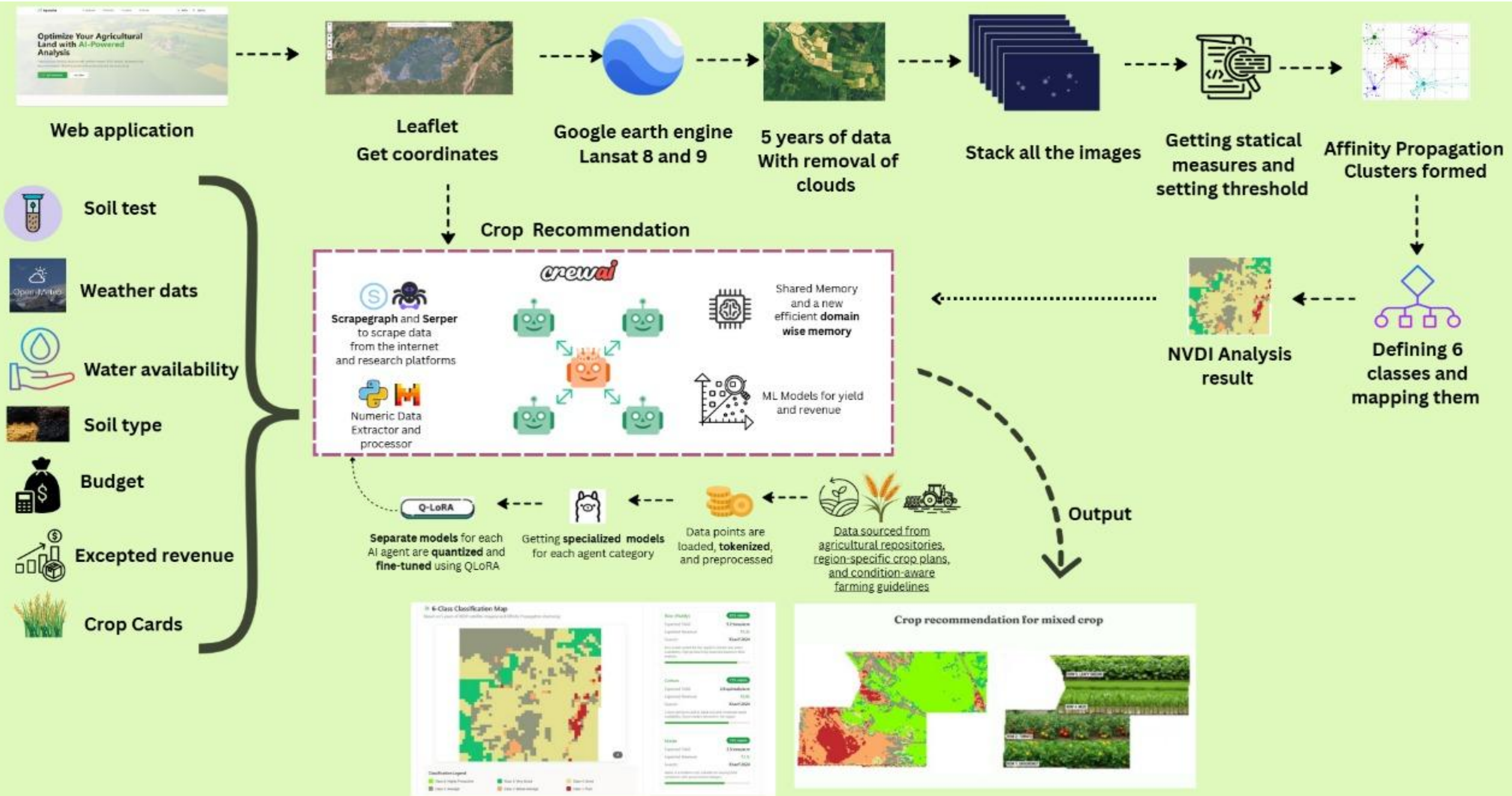


# Tech Stack Overview

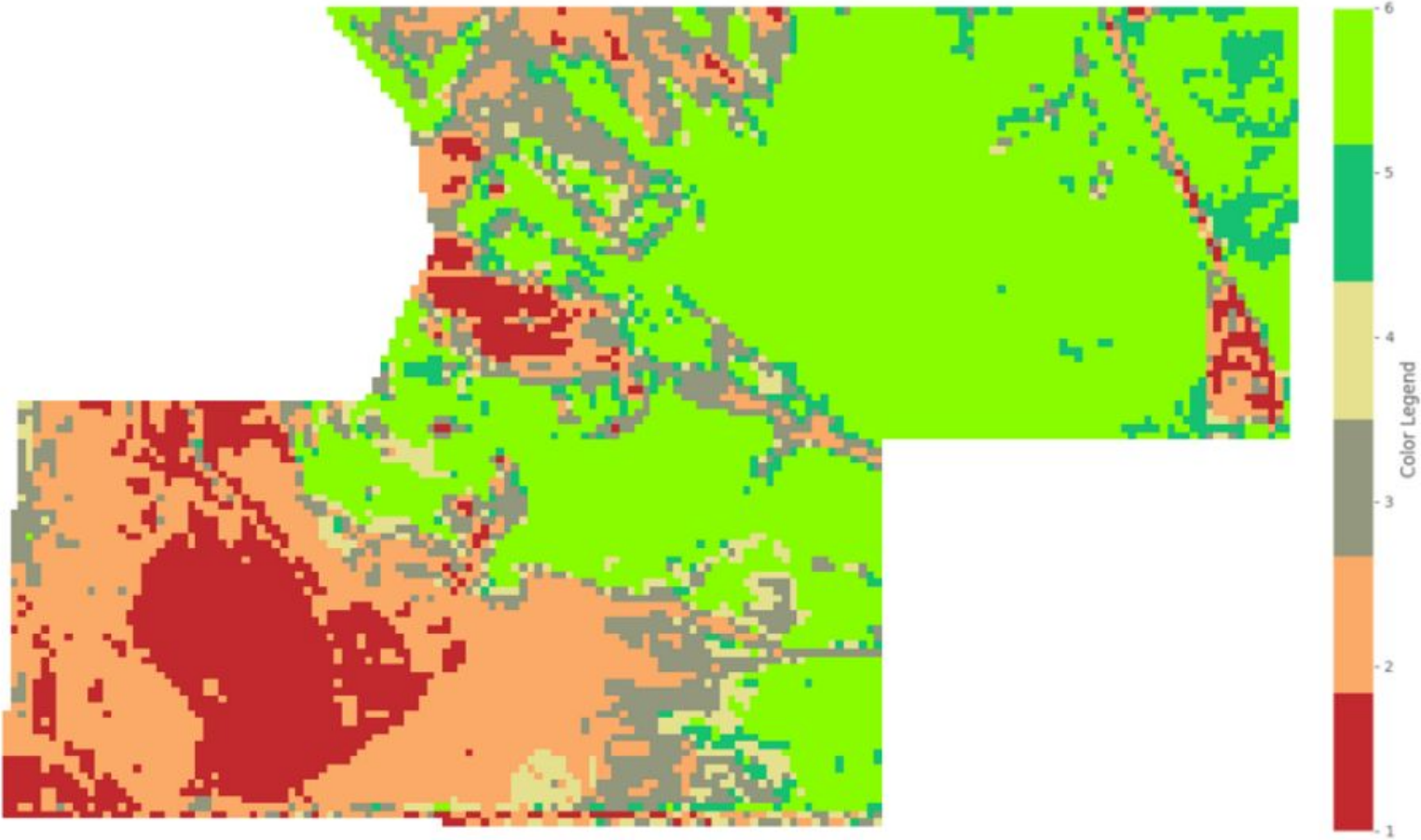




# Flow diagram



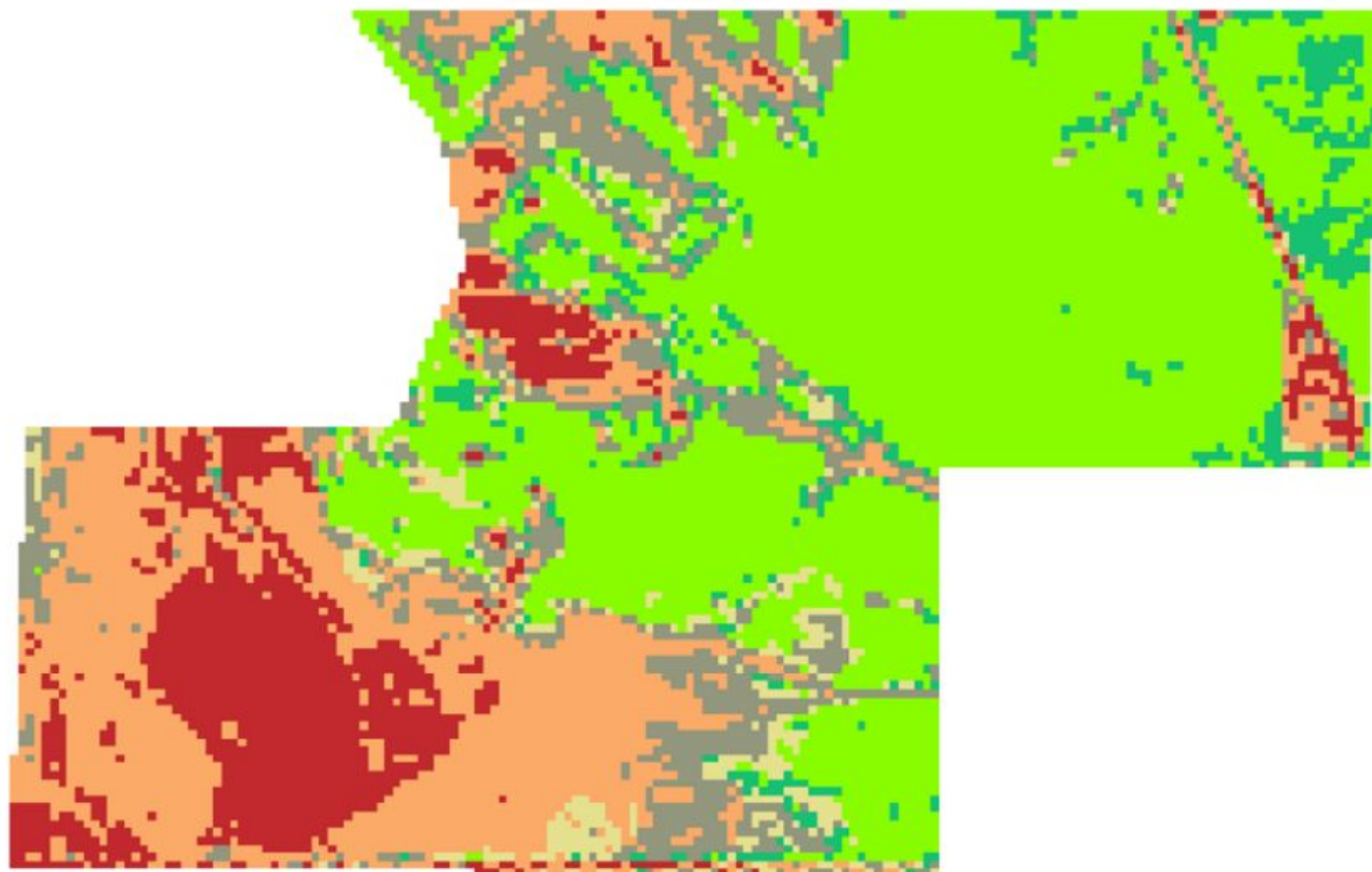
# Sample Land analysis map



Class	Pixel Count	Area (square meters)	Area (acres)
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

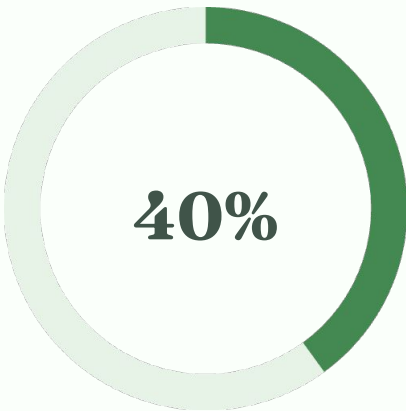
## Key Partners

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



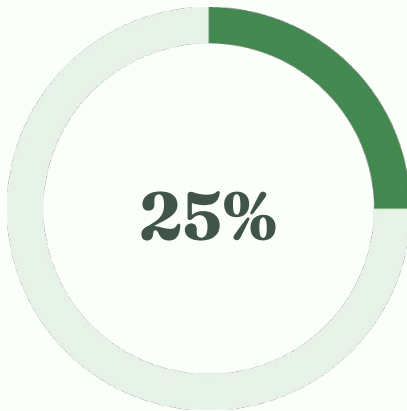
# Target Market

Andhra Pradesh & Telangana



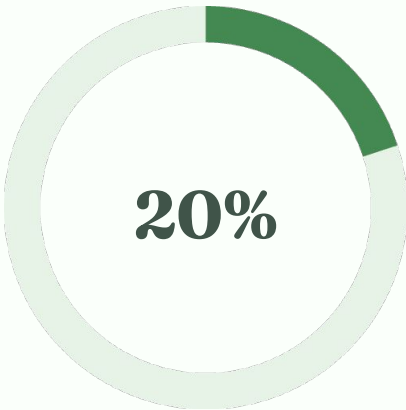
**Educated people**

Software engineers, doctors with 10-100 acres inherited land



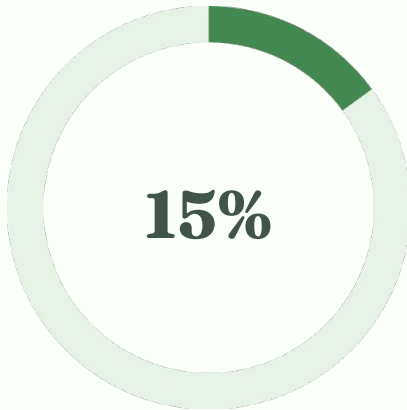
**NRI Landowners**

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.

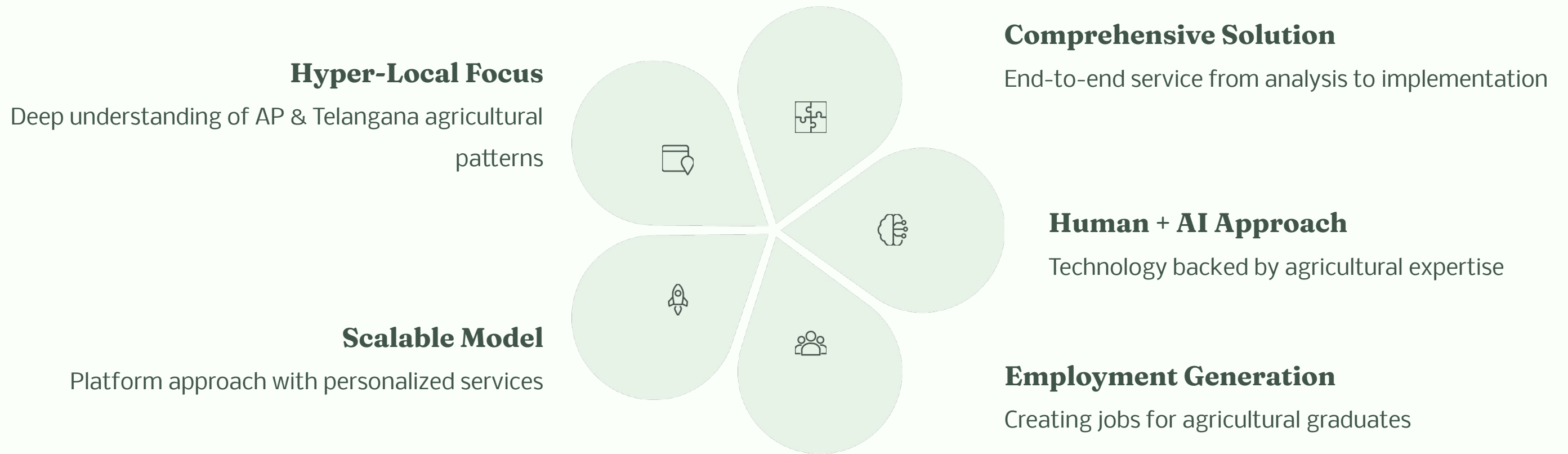
## Student Partnership Ecosystem

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





# Competitive Advantage



❏ **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 2 : Zero Hunger

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



## SDG 13 : Climate Action

Building climate resilience for 75,000+ farmers.



## SDG 8 : Decent Work

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



## SDG 12 : Responsible Consumption

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



## 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**