Introduction to



Markey Ma

 TM



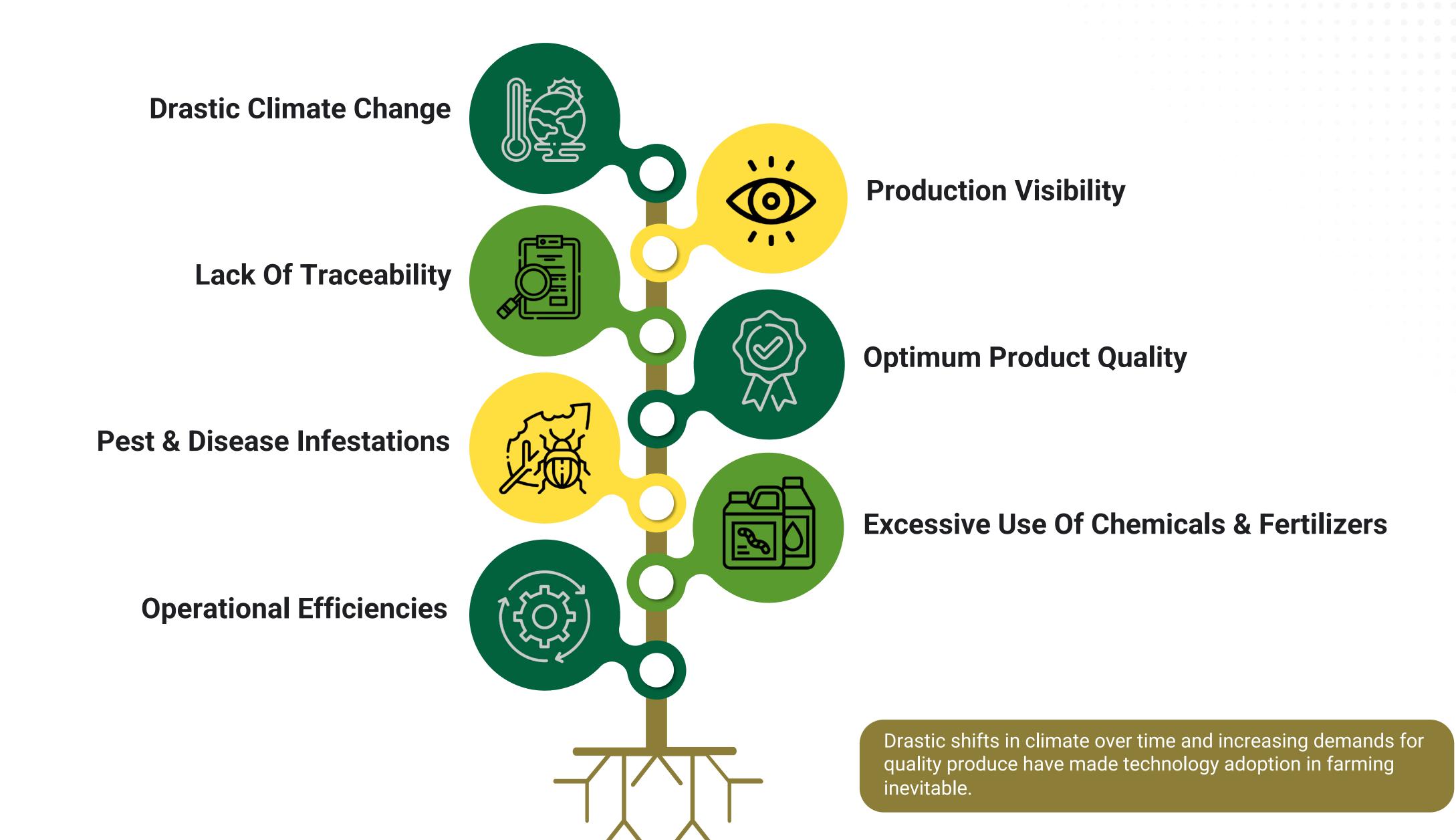
GROWERS HAVE TO MAKE 4-5 CRITICAL DECISIONS ON DAILY BASIS



BUT THE DECISIONS ARE LARGELY A GAMBLE

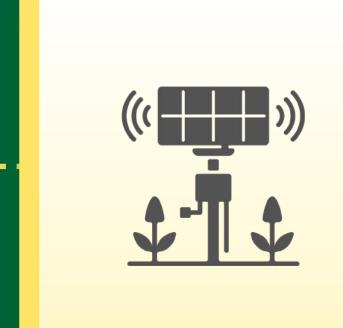


MAJOR CHALLENGES IDENTIFIED IN AGRICULTURE PRODUCTION

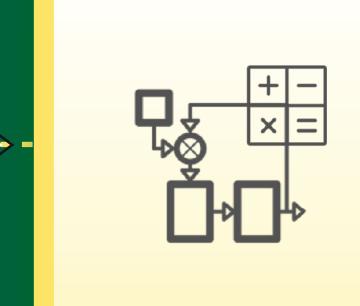




IS SOLVING THIS MASSIVE PROBLEM HOLISTICALLY



Data collection



Crop-specific agronomic models



Farm-level forecasting



Actionable intelligence



In language & medium that farmer understands

SOLUTION / VALUE PROPOSITION



Loss minimization

- 1. Early Prediction of Pest and Disease attacks with a recommended action plan to save crop losses.
- 2. Optimized irrigation practices:
- Water conservation.
- •Reduced risk of soil-borne diseases.
- Avoid leaching.
- •Effective water usage by crop.
- 3. Input cost savings with optimum use of Chemical spray and Fertilizers.



Better farm management

- 1. A customized package of practices keeping sustainability in mind.
- 2. Real-time farm-level data for effective decision-making.

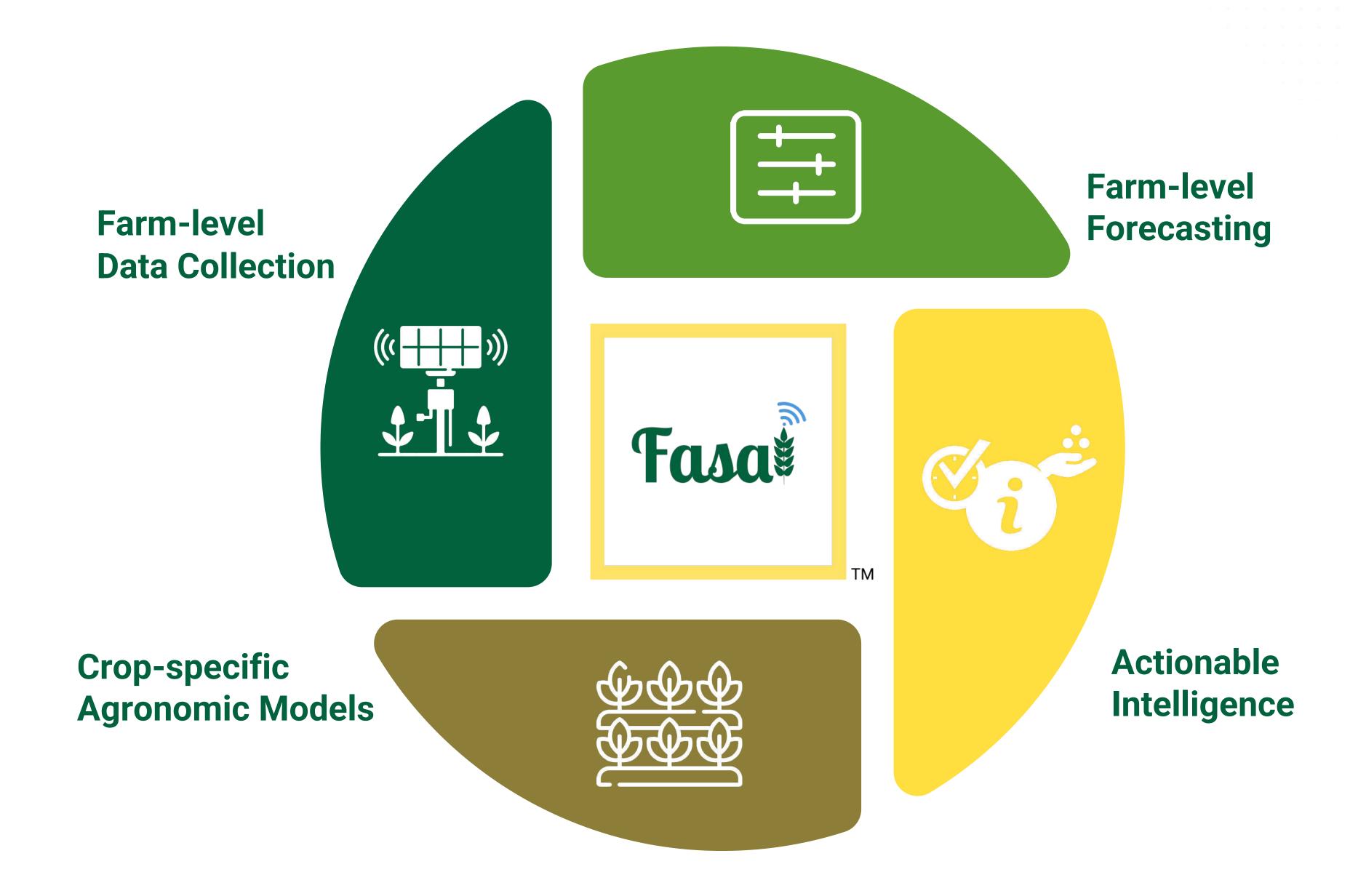


Quality improvement

- 1. Maintaining acceptable MRL (Maximum Residue Limits) with regulated chemical usage.
- 2. Crops free from pest and disease damages.



FASAL aims to reduce guesswork from farming and lead the actions via intelligence backed by real-time farm-specific and crop Specific Data. Fasal is a full-stack platform providing precision solutions and solving these problems holistically through.



HOW DOES FASAL WORKS

Data collected at Farm level through: FASAL IOT, Geo Spatial Imagery and Radar etc



Fasal Server

- Data Processing of agronomic models.
- Ai Engine

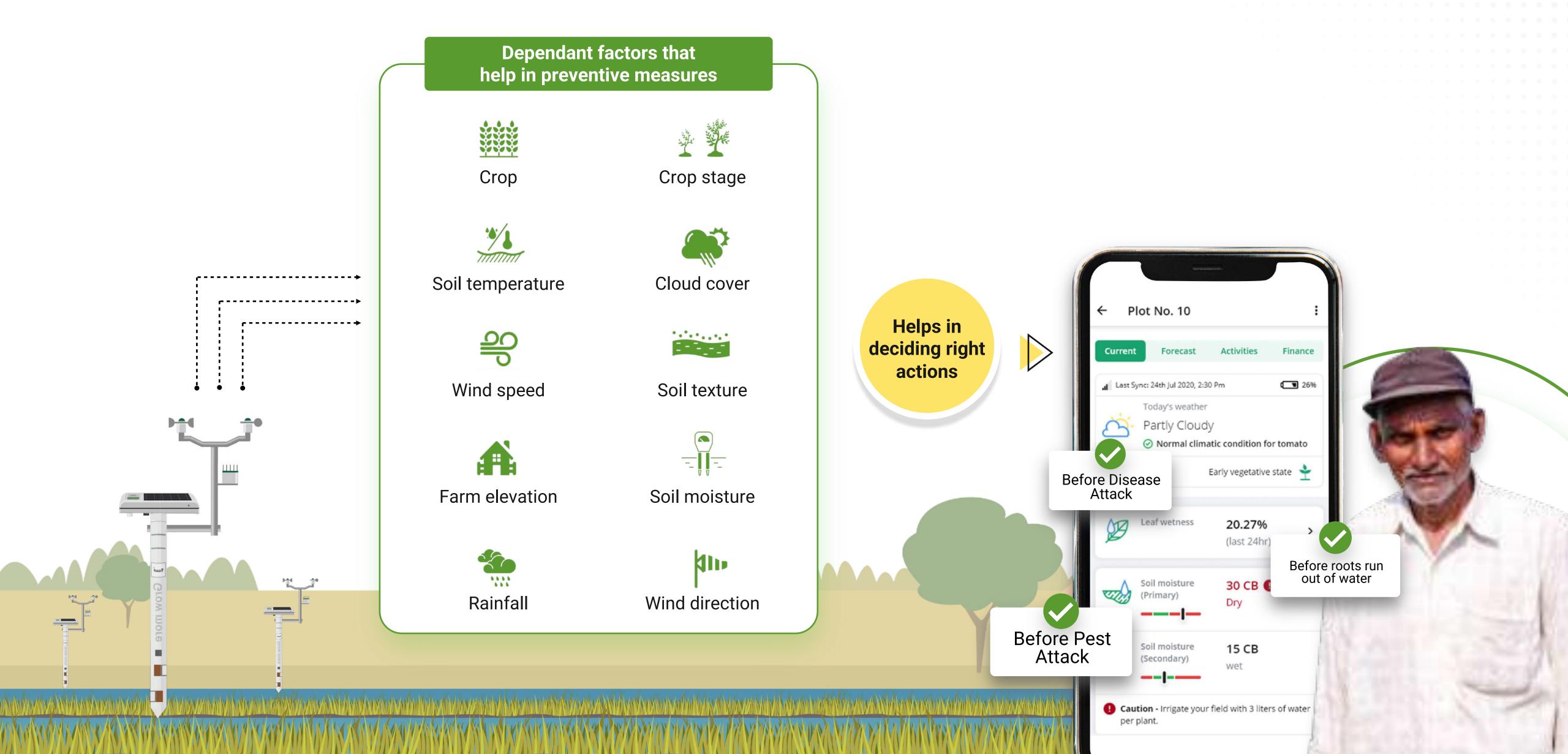
- Irrigation alerts
- Pest & disease alerts
- Input recommendation
- Rainfall Alerts
- Data insights

Actionable Intelligence and Satellite Imagery

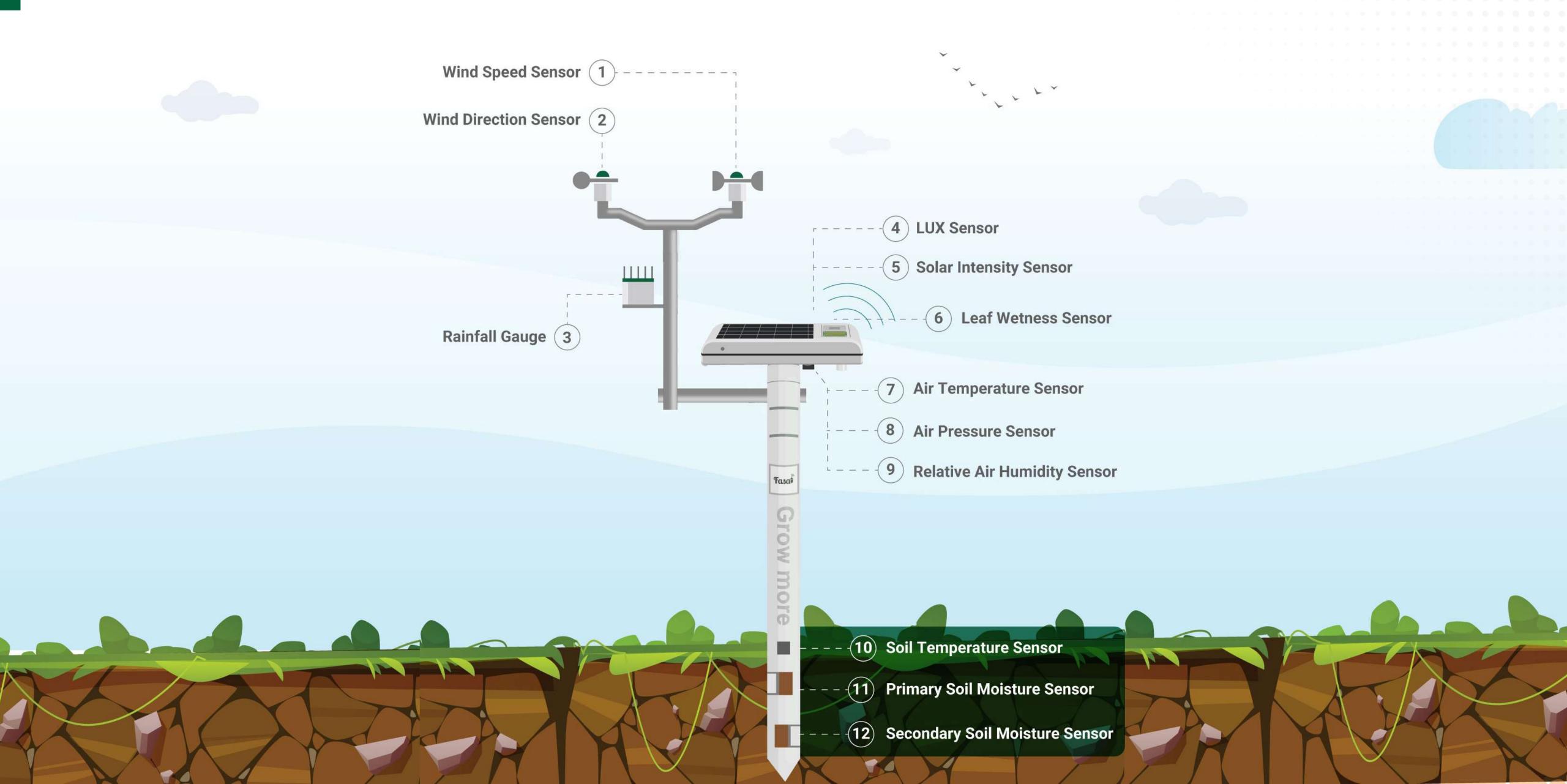


Fasal tracks the life cycle of various pathogens as well as pests, specific to the crop and crop stage, by monitoring the congenial on-farm micro and macro-climatic conditions and then informs when to take preventive sprays. A typical Fasal advisory looks like: "High Risk of Downy Mildew on Block 1.

FARM LEVEL FORECASTING - PREVENTIVE IN NATURE



FASAL HARDWARE



PLUG & PLAY PRODUCT











Scan QR & and a will get connected to Fasal

UNBOX

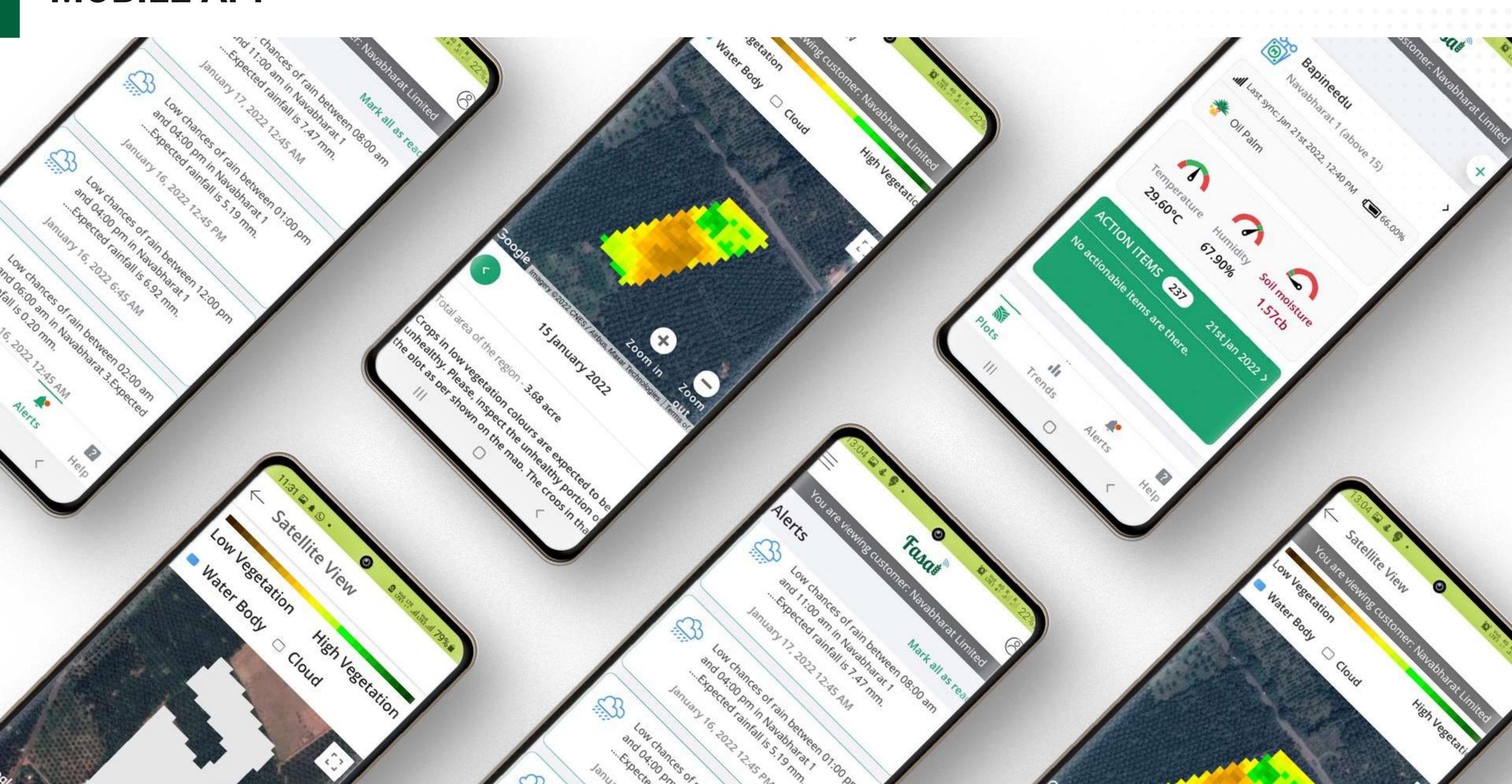
ROLL

FIX

WEB DASHBOARD



MOBILE APP



FASAL KRANTI - IOT DEVICE + SOFTWARE PRODUCT

IoT Device

Most competitive farm hardware ever made

Farm IOT

Robust



Can handle harsh temperature wind rain

Runs 24*7

Patents & Awards

Functional patent 1

No wiring, easiest to deploy

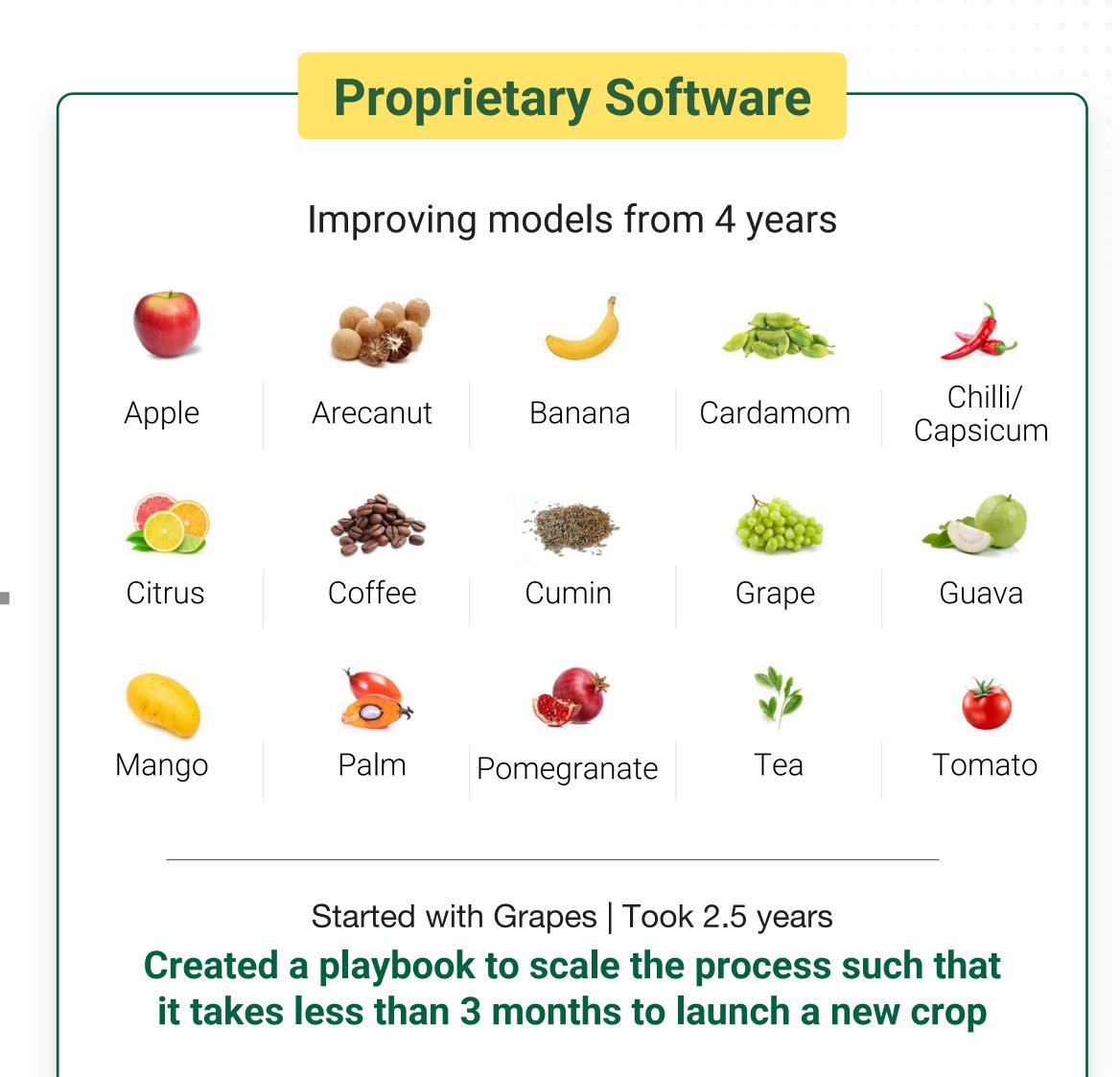
Functional patent 2

Easiest parts serviceremoval & fitting

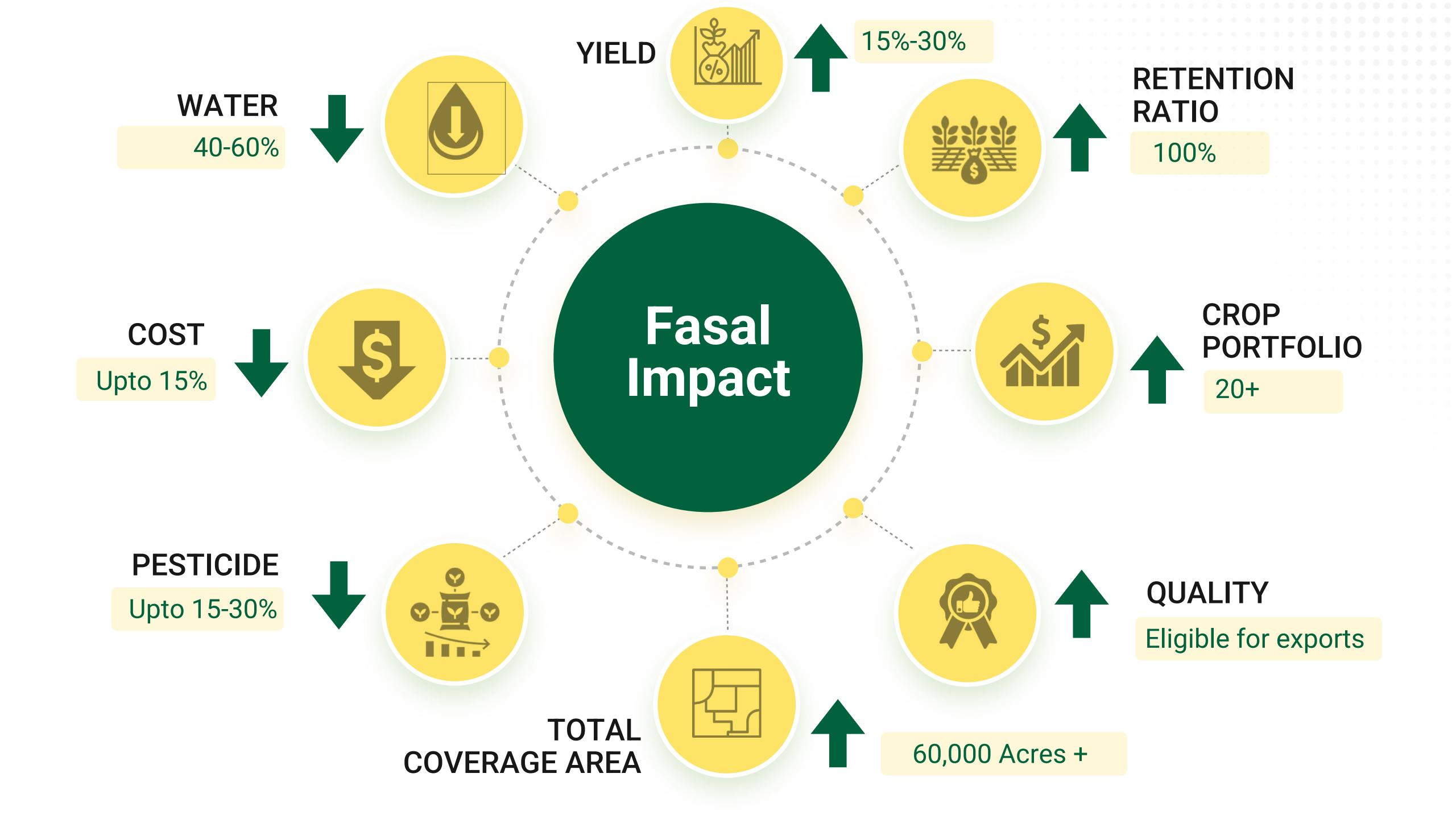
Design patent

Recognised by









CORPORATE CLIENTS





























































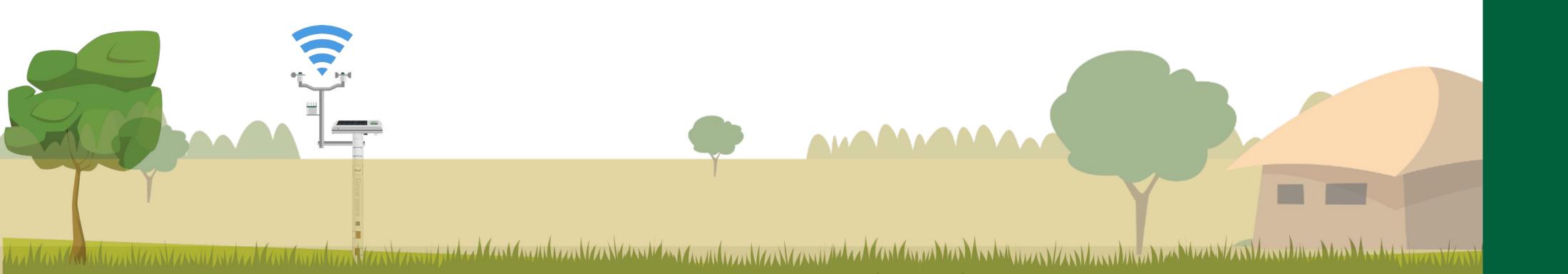
SNAPSHOT OF THE SITUATION

(EAST-WEST SEED CASE STUDY)

East-West Seed is one of the leading seed manufacturers in India. With a progressive outlook, the company kept on exploring newer & cutting-edge technologies to optimize its operations.

Despite introducing technological interventions on multiple fronts, it was still a challenge for them to receive and harbor actionable data that could help them better manage irrigation practices, fight unpredictable pest & disease attacks, or strategically plan the sowing of hybrid seeds. They relied on human intelligence to assess critical variables which led to a lot of guesswork and hit-and-try methods.





MAJOR CHALLENGES

(EAST-WEST SEED CASE STUDY)

Unpredicted rainfall delayed the land preparation schedule which impacted the overall crop cycle.

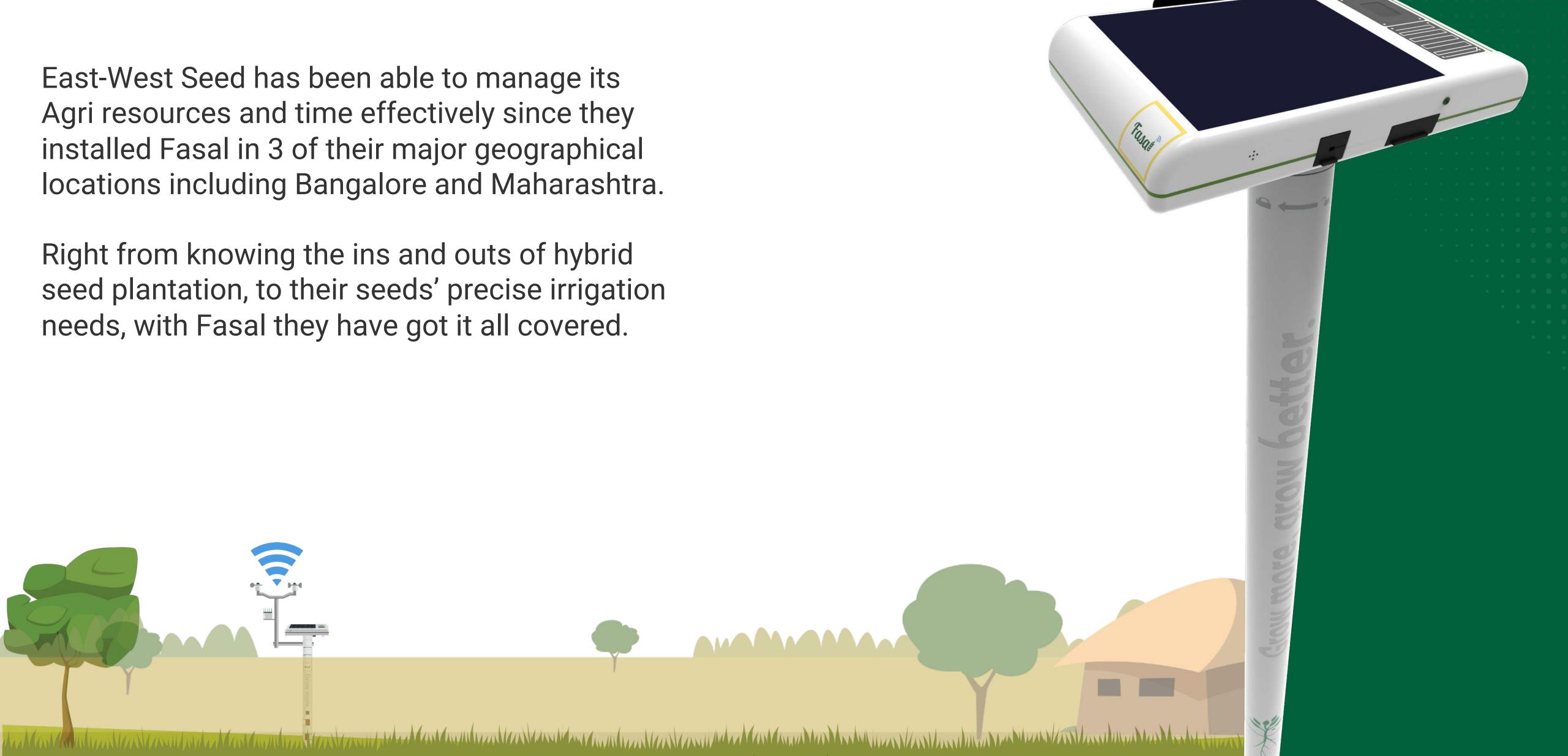
Due to climate change, the field area became prone to new disease outbreaks, which could not be managed on time. This led to substantial crop loss. Despite using smart irrigation systems, excessive water was consumed in tomato plantations which resulted in soil leaching.

Lack of precise knowledge on pollination cycles lead to increased guesswork, leaving more room for errors. Gauging the most suitable time for hybrid crop plantation & deciding on variables like crop patterns & micro-climatic conditions was a huge challenge.

The unpredictability and uncertainties of the crop cycle made anticipating adverse crop-growing conditions a tricky process for the entire team of experts.

HOW DID FASAL HELP?

(EAST-WEST SEED CASE STUDY)



IMPACT GENERATED

(EAST-WEST SEED CASE STUDY)



Accurate forewarns related to climate, moisture, irrigation schedule, and disease outbreak helped save time, resources, and expenditure.



Severe damage due to TOSPOW & late blight was prevented with a timely advisory about infestation and preventative sprays.



Precise irrigation advisory helped save 4 to 5 rounds of irrigation and regulated moisture stress, thus preventing unforeseen disease outbreaks & crop damage.



Micro-climatic weather forecast helped minimize the errors and schedule the land preparation accordingly and in time.



Each step from choosing the seed quality to pollination to harvesting was monitored precisely.



Placement of hybrid plantation, suitable conditions, analysis of seed health, and growth was forecasted throughout with actionable alerts.



MOST COMPETITIVELY PRICED, COMPREHENSIVE, FULL-STACK, GLOBAL SOLUTION

BUILT BY AN EXPERIENCED TEAM OF BUSINESS LEADERS WITH FARMING FAMILY HISTORY AND ABLE TEAM OF TECHNOLOGISTS



Ananda Verma Founder

M.Tech-IIIT Bangalore, Forbes 30U30 Asia. Built highly scalable platforms for MDM, EdTech, and HR Tech.

Forbes EdTech



Shailendra Tiwari Founder

B. Tech (Production)-NIFT, Forbes 30U30 Asia. Product manager, built products

Forbes Fintech



J. Singhal Head-Sales & Marketing

MBA, 14+ years of Ag business exp. Managed \$60 mil business in past role.



Dr. Nilesh Zende

Head -Research M.Sc. PhD. (Agronomy & Crop Science) 16+ years of experience Ex-Leader, Digital Farming Charter for Bayer (APAC)



Ravi Kumar Head -Hardware

B.E (Mechanical) P.U.C, P.C.M.B 16+ years of experience. Responsible for building and managing production facility for Ather Energy

A ATHER



Luna Dubey Head-Product delivery

B.Tech-CSE, NIT -Warangal, 14+ years of exp. Ex-Cerner, USA







Join us in this journey to make horticulture certain, profitable and sustainable.

Saurabh Sharma

Saurabh.sharma@wolkus.com

Subhangi Ghosh

Subhangi.ghosh@wolkus.com

W.

