



ERP for Sugar Industry

Sugar Cube: Sweetening your Sugar Industry

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Overview

Sugar Cube - Enterprise Resource Planning (ERP) system designed specifically for sugar manufacturing.

Integrated suite of applications - Streamline operations, improve efficiency, increase productivity.

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SugarCube Snapshot

 Agricultural Management System	 Remote Sensing	 Smart Weighment	 Mobile Agronomy
 Procurement	 Inventory	 Finance	 Sales
 Time and Attendance			
 Human Capital Management	 Payroll	 Plant Maintenance	 Embedded Self Service Reporting and Analytics

The Proven ERP Solution for Sugar Industry



01

FoolProof and user-friendly solution

02

Seamless Integration B/w Modules

03

Adapt to quickly changing business conditions

04

Industry-specific processes that improve operational efficiency

05

Built to enhance productivity and competitiveness

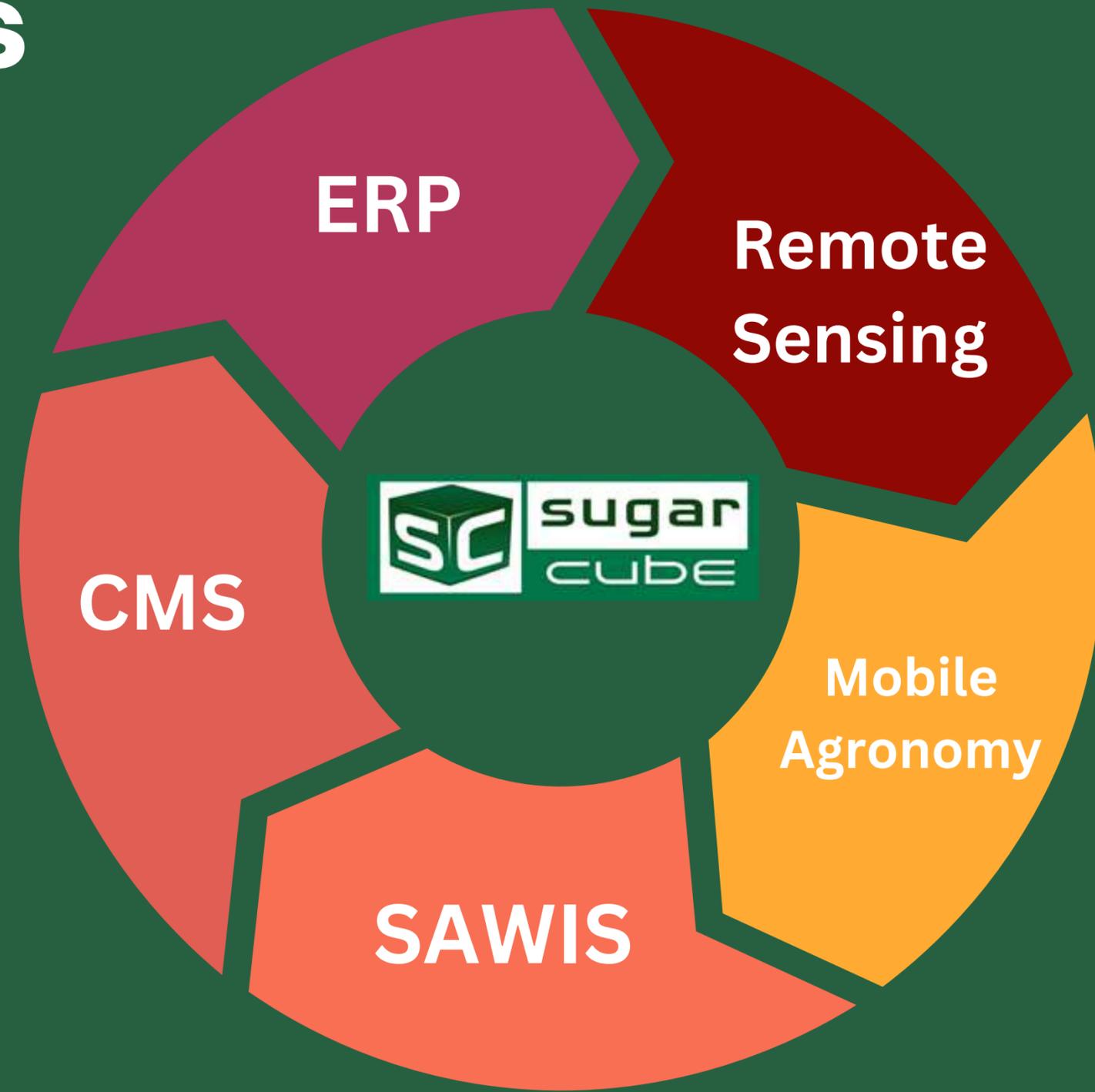
06

True self-service Business Intelligence with Business Discovery Platforms

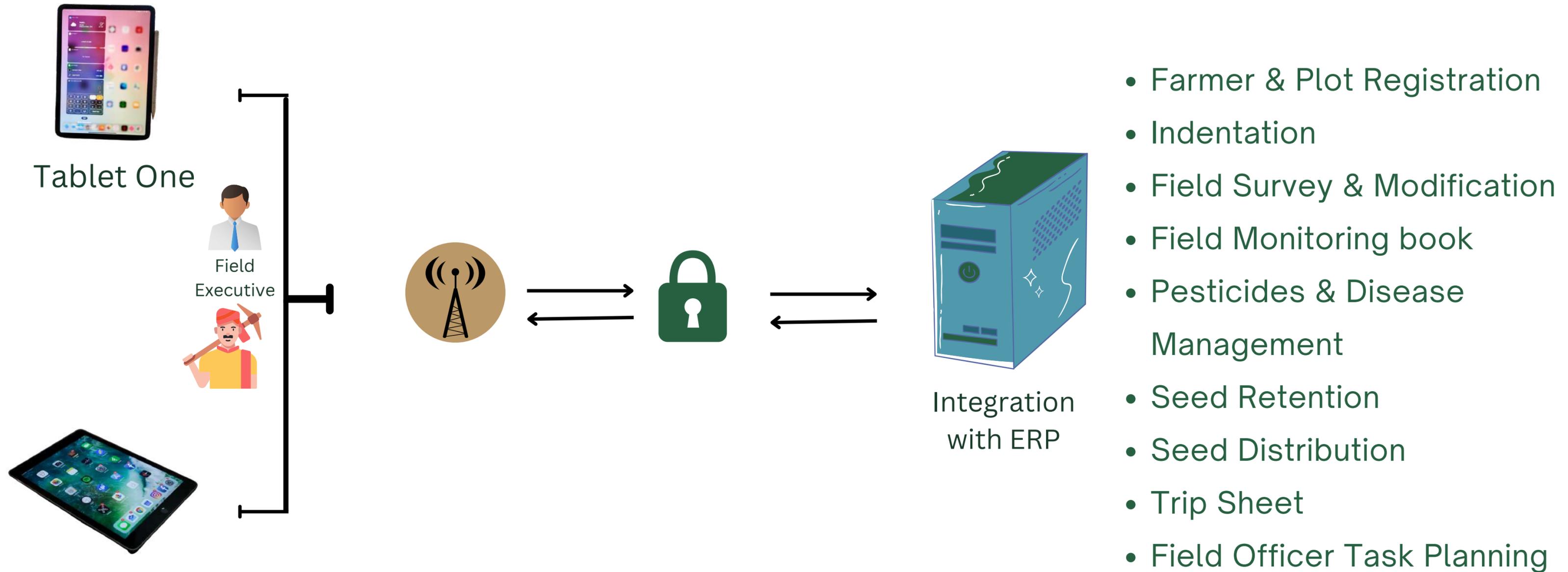
07

Quick & Effective Implementation

SugarCube - USPs



Field-Level Agronomy Solution



Cane Management System



Cane Calendaring

- Transporter Agreements
- Vehicle Management
- Harvesting gang leader agreements/contracts
- Yield forecasting
- Harvesting permits
- Trip Sheet generation
- Plot over form

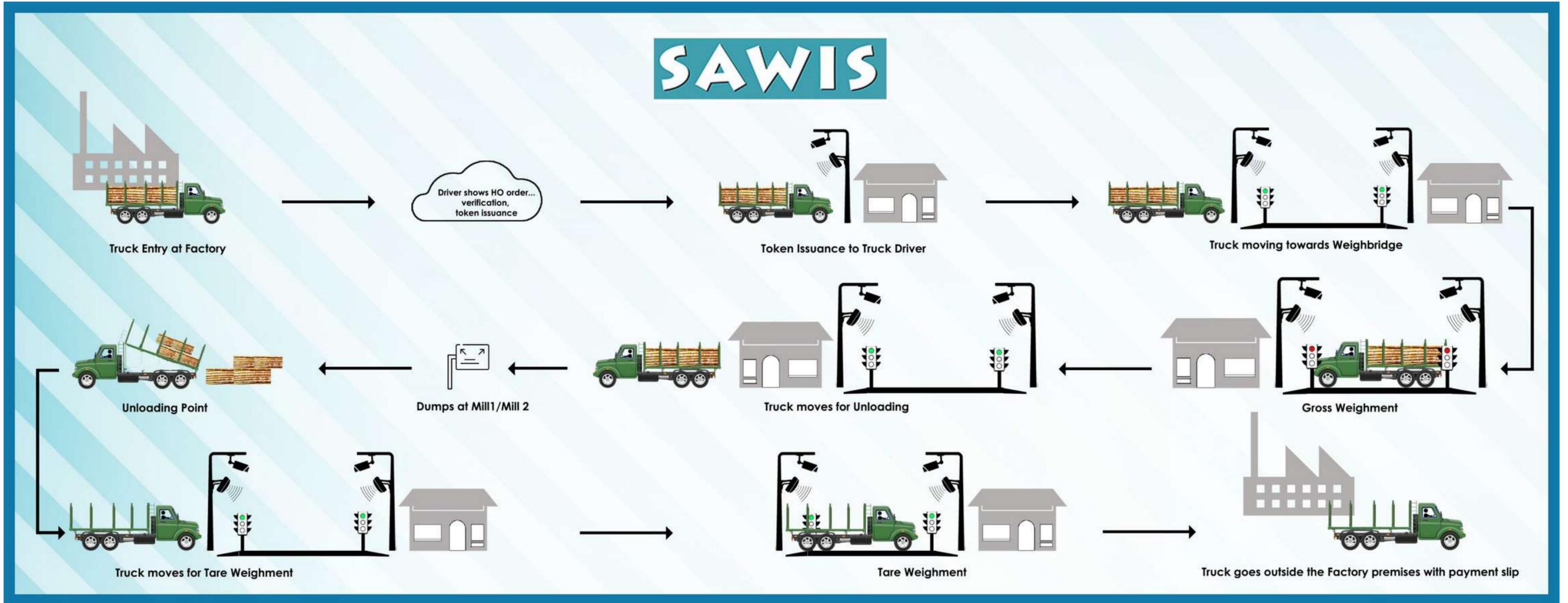
Crushing Management

- Supply estimation
- Token generation
- Weighbridge control
- Weighment
- Centre weighment
- Cane inventory

Cane Finance & Accounting

- Loan (farmer, seed, TPT, HGL)
- Subsidiary
- Interest Computation
- Receipt entry against loan
- Loan transfer/adjustment
- Cane price
- Billing (farmer, TPT, HGL, seed)
- Payments

Smart Weighment System



SART Tool



Reporting made most easy



Ad-hoc Reporting



Drag and drop user interface



Multi-dimensional reporting parameters



Automatic scheduling of reports to users



Quick & Easy dashboard

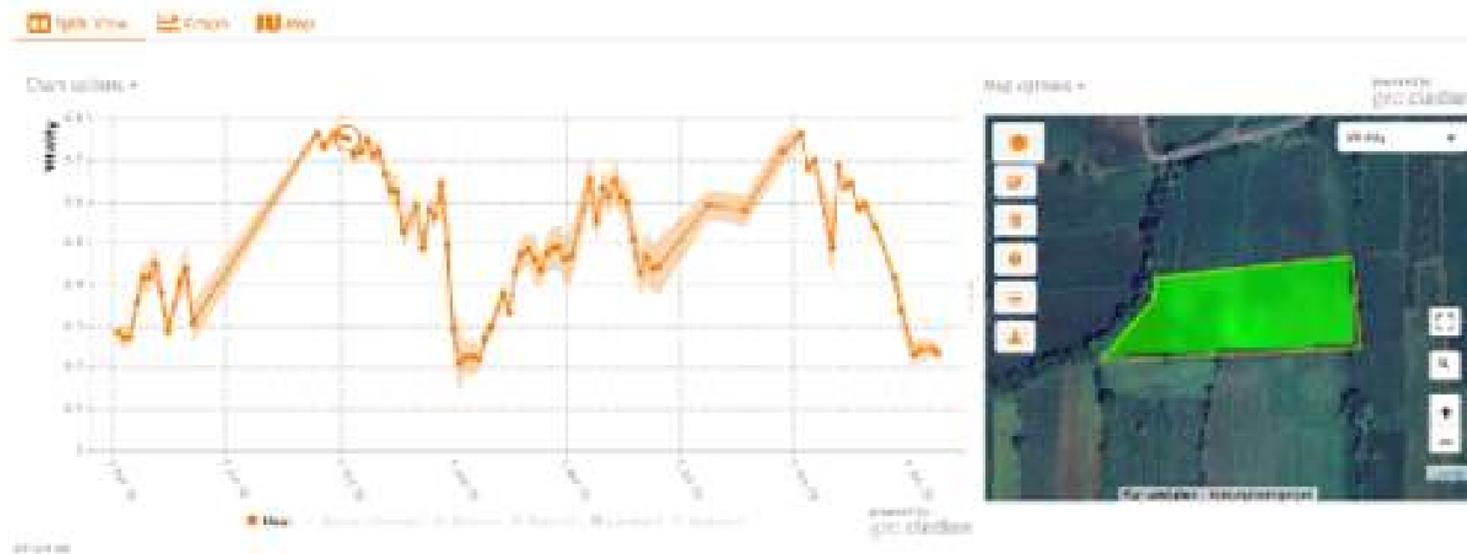
An aerial photograph of a rural landscape featuring various agricultural fields. In the foreground, there is a large field of young trees planted in neat rows. Behind it, a road runs horizontally across the frame. Further back, there are fields of mature crops, some with distinct rows, and a cluster of buildings surrounded by trees. The background shows more rolling green fields under a clear sky.

Remote Sensing

Monitoring

Service Description

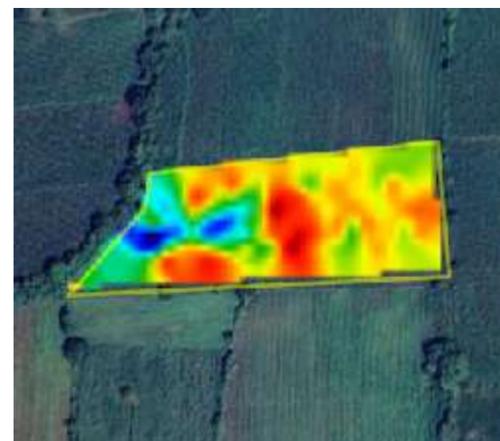
- Provides satellite data time series optimized per field
- Set of vegetation indices
- Satellite monitoring



Vitality



Visible

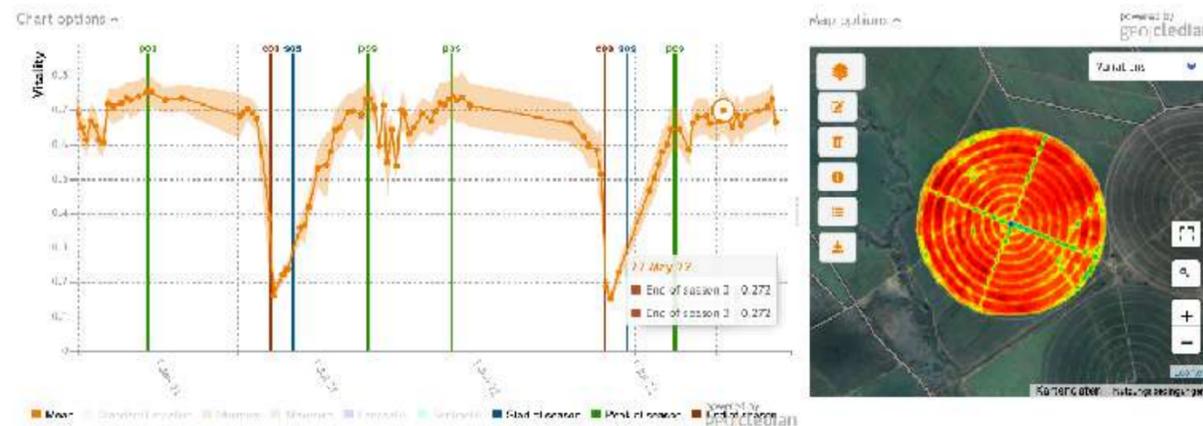
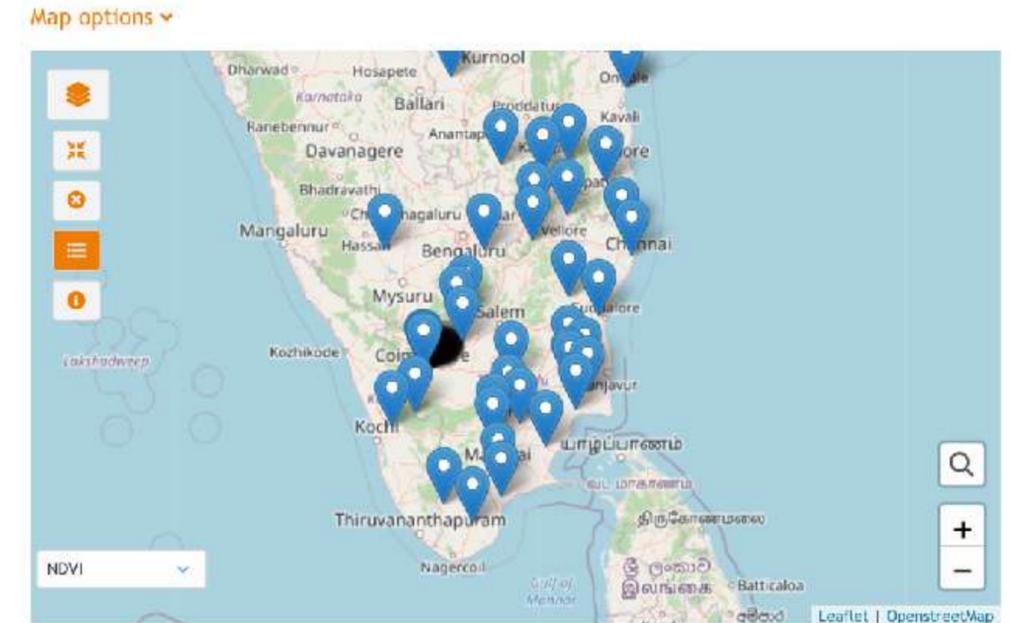


Variations

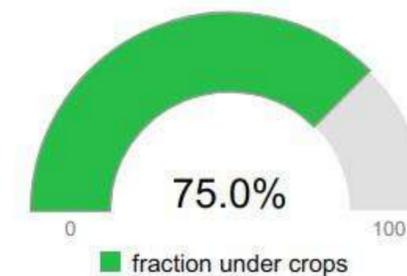
Cane Production Monitor

Service Description

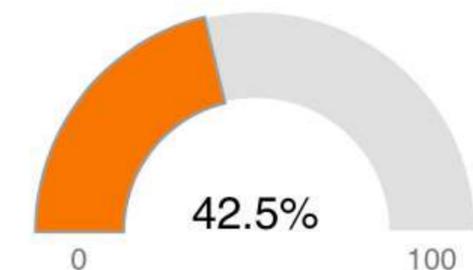
- Area under cane -> real area under sugarcane by remote sensing
- Cane age: emergence date per parcel
- Harvested area: area harvested within season



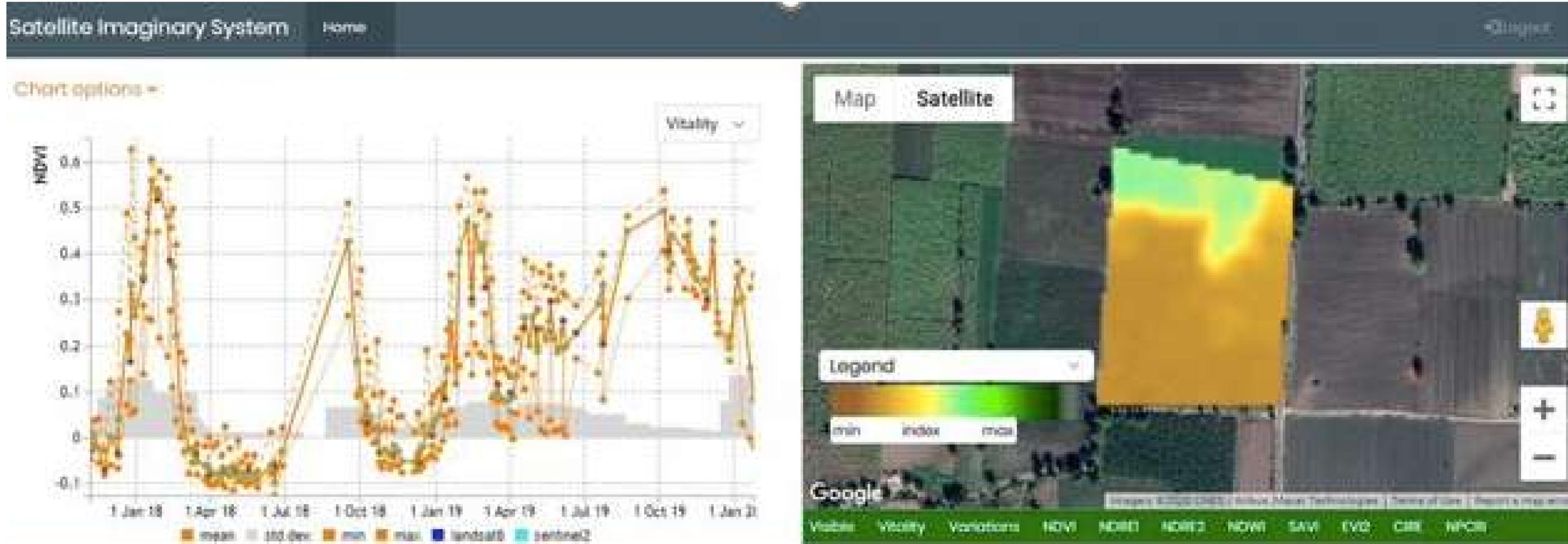
Crop area 2022:
1445ha of 1962ha emerged



Harvest 2023:
42.5% of fields harvested



Satellite View Sample



<p>Visible</p> <ul style="list-style-type: none"> RGB (Red-Green-Blue) image, the most visual image 	<p>Viability</p> <ul style="list-style-type: none"> viability of crop for any live green vegetation Dark brown - low, Yellow - Medium, Green - High 	<p>Variation</p> <ul style="list-style-type: none"> Variations within a parcel Dark blue - low to bright red - high values easy to find out conformity and non-conformity 	<p>NDVI - Normalized Difference Vegetation Index</p> <ul style="list-style-type: none"> Amount of leaf area of active, healthy, green vegetation ranges between -1 to 1 active resolution - 30 meters
<p>NDRE - Normalized Difference Red Edge Index</p> <ul style="list-style-type: none"> Estimate chlorophyll content in a canopy ranges between -1 to 1 active resolution - 30 Meters 	<p>NDWI - Normalized Difference Water Index</p> <ul style="list-style-type: none"> Water content and water stress ranges between -1 to 1 active Resolution - 30 Meter 	<p>EVI - Enhanced Vegetation Index</p> <ul style="list-style-type: none"> More sensitive in late growth stage ranges between - 0.25 to 1.25 active Resolution - 30 Meter 	<p>CRI - Chlorophyll Index Red Edge</p> <ul style="list-style-type: none"> High chlorophyll & nitrogen sensitivity ranges between - 1 to 9 active Resolution - 30 Meter

Satellite View Sample



Visible

- RGB (Red-Green-Blue) image, the latest visual image

NDRE - Normalized Difference Red Edge Index

- Estimate chlorophyll content in a canopy
- Ranges between -1 to 1
- Native resolution - 20 Meters

Vitality

- Vitality of crop for any live green vegetation
- Dark brown - low, Yellow - Medium, Green - High

NDWI - Normalized Difference Water Index

- Water content and water stress
- Ranges between -1 to 1
- Native Resolution - 20 Meter

Variation

- Variations within a parcel
 - Dark blue - low to bright red - high values
 - easy to find out conformity and non-conformity
- ## EVI2 - Enhanced Vegetation Index
- More sensitive in late growth stage
 - Ranges between - 0.726 to 1.25
 - Native Resolution - 20 Meter

NDVI - Normalized Difference Vegetation Index

- Amount of leaf area of active, healthy green vegetation
- Ranges between -1 to 1
- Native resolution - 20 Meters

CRI - Chlorophyll index Red Edge

- High chlorophyll & nitrogen sensitivity
- Ranges between -1 to 9
- Native Resolution - 20 Meter



Contact Us

For any questions or clarifications on our report.

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