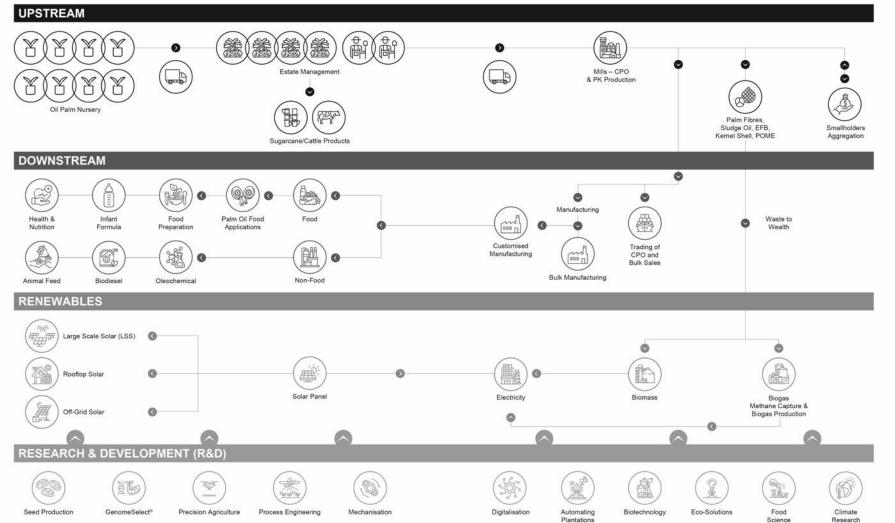




Our Integrated Value Chain





729,711 Ha total landbank 566,533 Ha of planted area *Oil palm, sugarcane and coconut*



Business presence in 12 countries



11 refineries with 4 mil MT/year of refining capacity



Industry leader in **Mechanisation**, **Automation & Digitalisation**



World's 1st Palm Oil Company to have SBTi-validated Net-Zero targets



#85 in Fortune 500Southeast Asia List

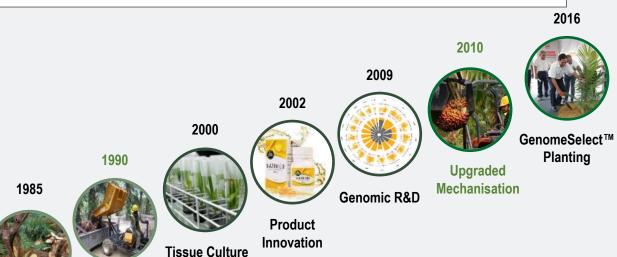
Journey Through the Years

SD Guthrie's continued innovation is founded on resilience, adaptability and dynamism.

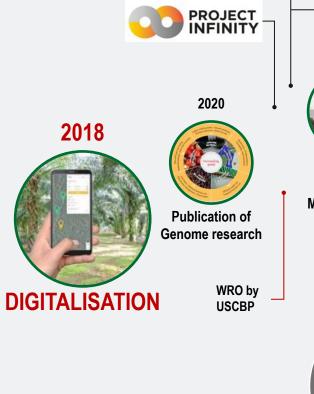
From industry leading genetic seed technology to cutting edge innovation in the fields, we are changing the face of the plantation sector.

Challenges faced along the way...

- Low commodity prices
- El Nino and La Nina
- COVID-19 pandemic and subsequent intensified labour shortage
- 3D perception (dangerous, dirty and difficult) making the industry unattractive to local talent
- Negative perception on palm oil (Deforestation, Human & Labour Rights)
- Climate Change



Early 2000's







USCBP's WRO Modification



World's first Reimagining palm oil **Plantations** company with net-zero targets Innovating for

that are fully

validated by

SBTi

Digitalisation **Product FOCUS** Innovation Health

Zero Burning Methodology

Mechanisation

integration of digital platforms that enable site-specific agronomic decisions, enhance communication between agronomy and operations teams, and support targeted interventions in underperforming fields.



I need to check the fertilizer ordering status and approve the PO

Are the fertilizer deliveries arriving as scheduled?

> Which field(s) are showing poor palm health and requires my attention?

How was my production and workers productivity yesterday?

How's the yield in the last few months and

the predicted yield for

the remainder of the

year?

An estate personnel has to juggle multiple responsibilities at once.

How much time does an estate executive spend in the office, rather than being in the field?

Simplifying the steps to get to the information or perform the task will allow them to be more effective.

Are the housing complaints being

El Nino is coming. Which areas are critical to hold water for the dry period?

How was the quality of the crop sent to the mill yesterday?

Where are the fertilizer machines working today? Are they applying according to plan?

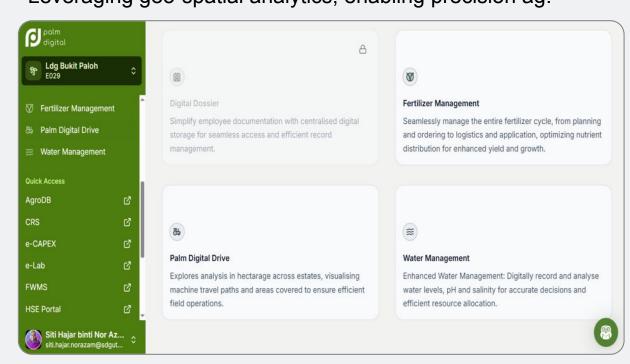
rectified within the stipulated time?

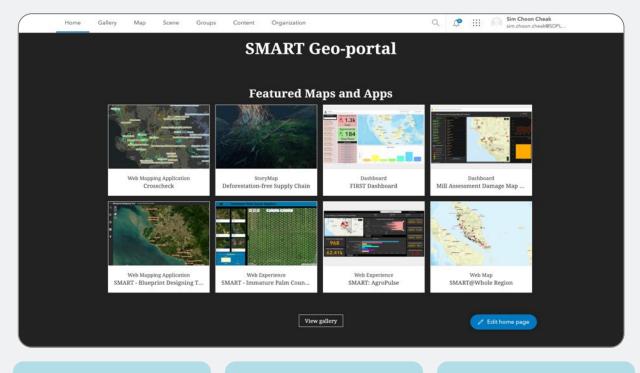


Are my workers' documentation complete, and are there any that need to be renewed?

A modular platform that brings together all current and future information systems into a unified platform. Leveraging geo-spatial analytics, enabling precision ag.







User Friendly

Simple & Efficient

Accessible Anywhere

Data-Driven Decisions

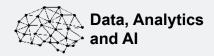
Digitized Workflows

Modular & Integrated

Powered by





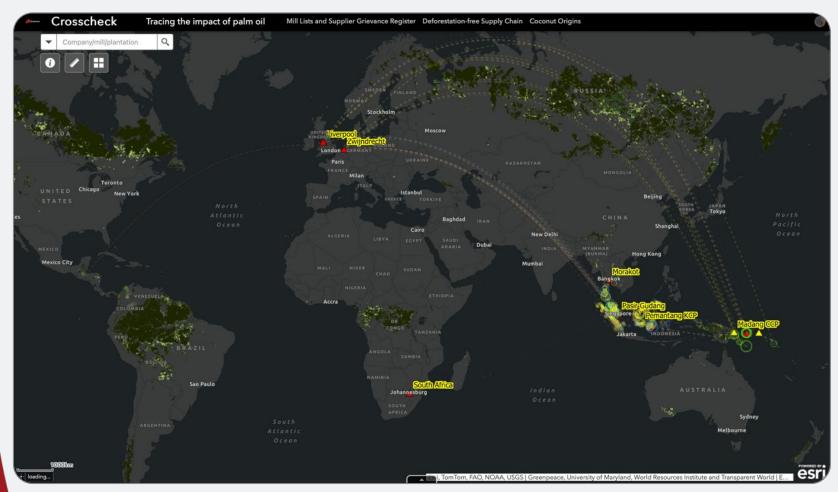






From Traceability to P&D Management





Sime Darby Plantation launched its "Crosscheck" open-access online tool on May 23, 2019. The tool was introduced to provide public access to its palm oil supply chain data, allowing users to trace palm oil sources down to the mill level to promote transparency and support its No Deforestation, No-Peat, and No-Exploitation (NDPE) policy.

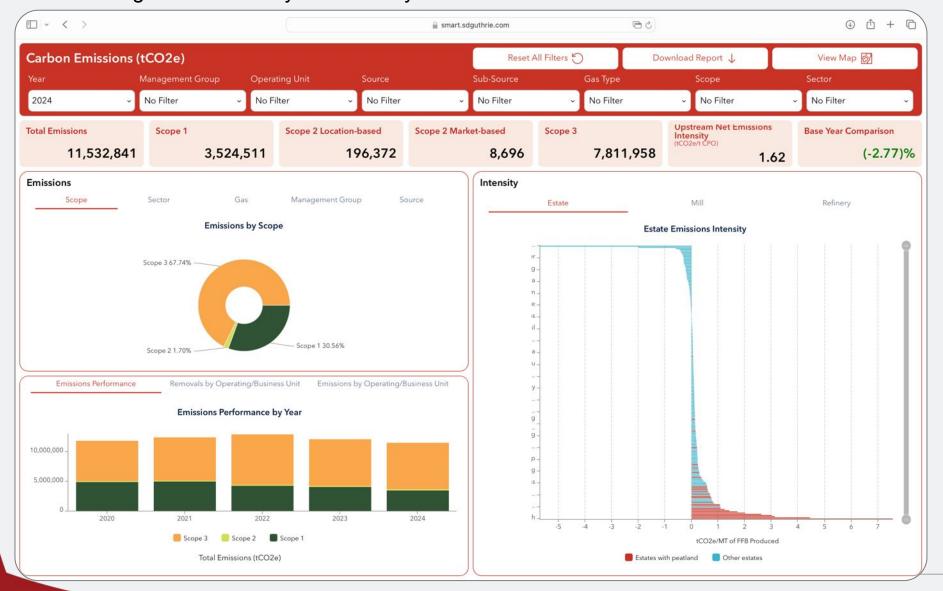
Traceability of raw materials across our refineries are summarised below;

- •97.9% traceable to mills (100% traceable to internal mills, 94.6% traceable to third-party mills/suppliers)
- •90.8% traceable to plantations (100% traceable for internal mills, 71.1% traceable for third-party mills/suppliers)



Carbon Emission baseline monitoring of business processes with aim to reduce emission for net zero goal Net Zero targets that are fully validated by SBTi





Dashboard that consolidates data from multiple sources and applies the GHG Protocol Corporate Accounting and Reporting Standard to calculate emissions for Scope 1 (direct), Scope 2 (energy), and Scope 3 (supply chain).

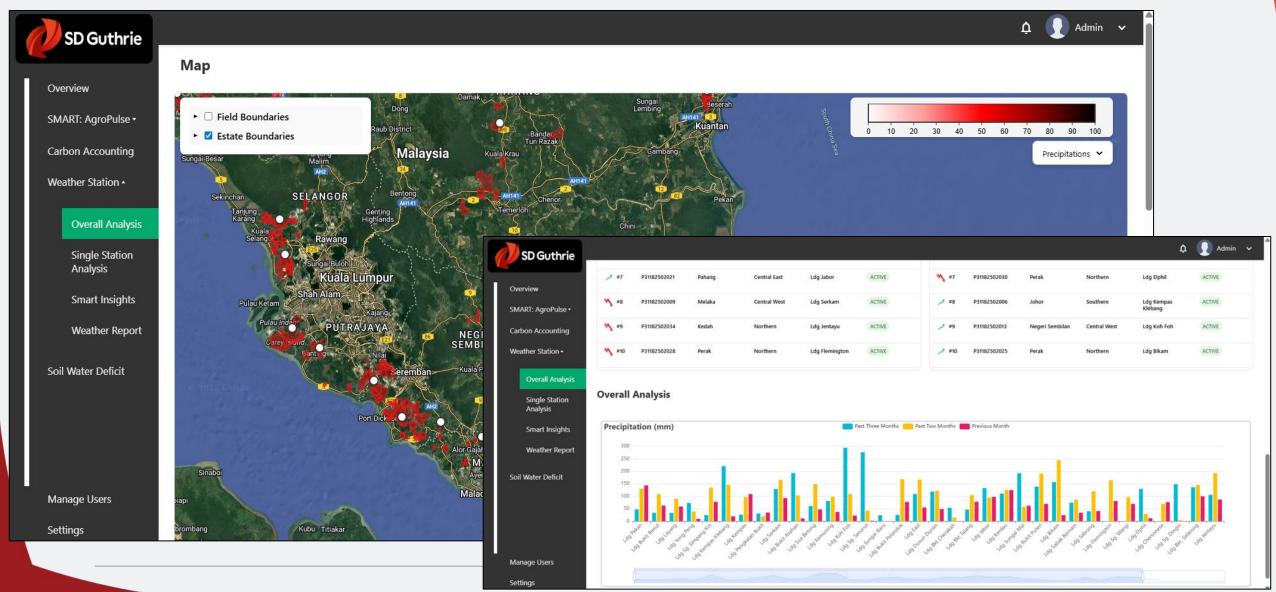
It visualises emissions trends, highlights key contributors, and quantifies carbon removals across operations and the supply chain

This enables the company to identify hotspots, set reduction targets, and monitor progress towards net-zero emissions, supporting transparent reporting and continuous improvement in sustainability performance



Fully Automated Weather Station on site & dashboard for data sharing





Digitized Estate Management Applications: Automation & digitization of manual tasks improve efficiency & accuracy, while enabling advanced new capabilities.





Mobile app and IoT sensors capture water management params

Data streamed to cloud and processed in real-time

GIS dashboards provide historical and real-time analytics

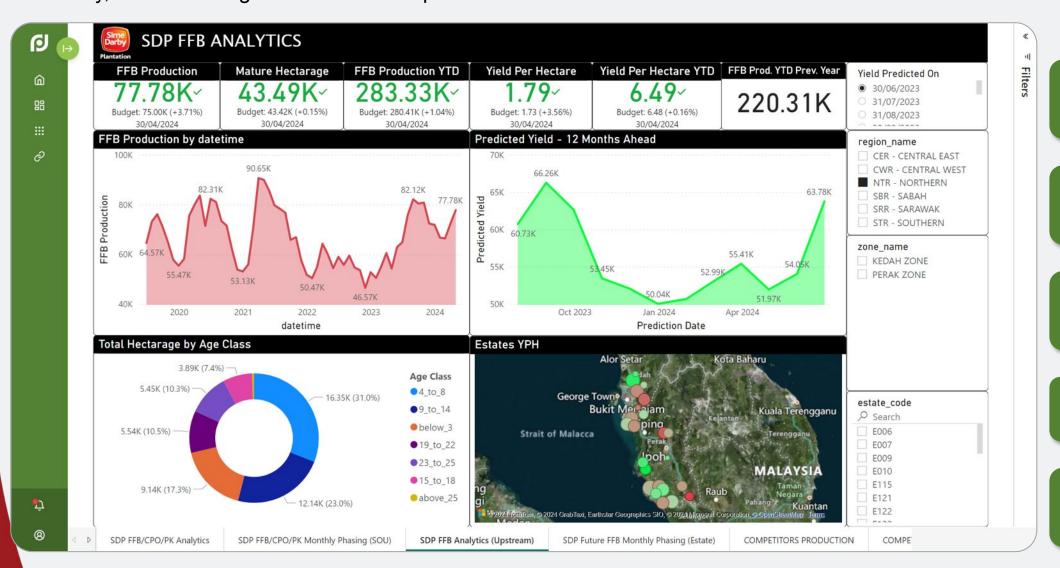
Focus on what matters

Optimize resource for maximum yield and sustainability



Digitized Estate Management Applications: Automation & digitization of manual tasks improve efficiency & accuracy, while enabling advanced new capabilities.





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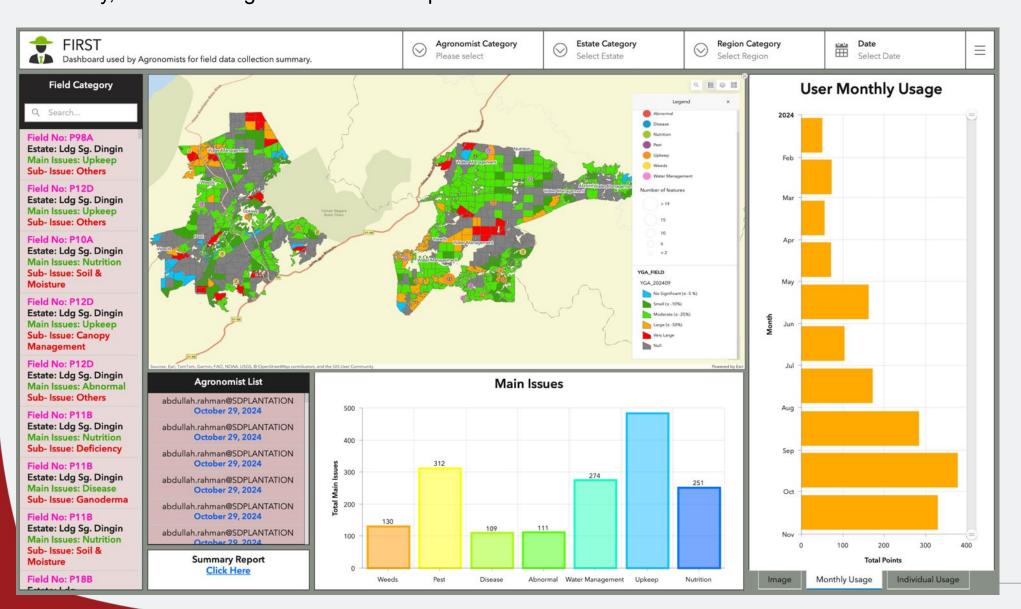
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Fertilizer Management Module: An end-to-end solution to digitally monitor the planning, execution and impact of fertilizer program at our estates. Ensuring every palm receives the nutrition needed to produce the best yield and oil content.



Receive Agronomist recommendation

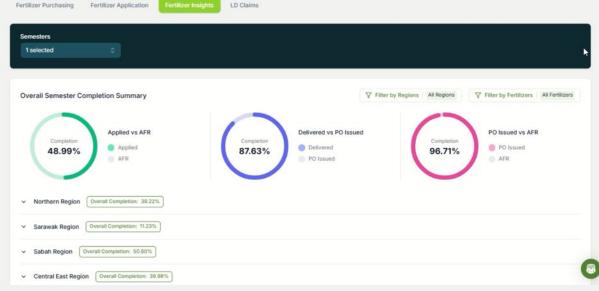
Planning

Ordering Logistics & Storage

Fertilizer Application

Impact Analysis

- The Agronomist recommends fertilizer rates for each manuring block after annual site visit & analyzing data.
- Estates plan for fertilizer programs based on fertilizer recommendation report by the Agronomist.
- Estates place fertilizer orders with suppliers for planned programs against supply contracts tendered at group level
- Suppliers arrange for deliveries.
- Estates receive consignments and stores them.
- Estates monitor deliveries and stock levels at the warehouse.
- System tracks timeliness, quality, and quantity deviations and triggers penalty claims
- Estates monitor fertilizer application at the field against planned programs (adherence to Agronomist's recommendation).
- GPS trackers used to monitor mechanized applications
- The Agronomist analyses foliar sampling results, yield statistics, palm health index to optimize the following year's recommendation.
- Estates measure yield & COY performance as KPI.



Keep track of manuring program against plan

Drill down on pending tasks based on completion rates

Compare progress between estates at regional-level

Fertiliser Insights

Monitor the progress of manuring programs at different stages; order, delivery and application.



Palm Digital Drive (PDD)



The mobile app supports machine operators in carrying out timely fertiliser application, ensuring that all palms receive the recommended amount.



Self-correction by machine operators to prevent missed areas

Connects fertiliser type information

Mark inaccessible areas, along with reasonings

Mark the status of fertilisation task



Palm Digital Drive: The mobile app supports machine operators in carrying out timely fertiliser application, ensuring that all palms receive the recommended amount. Machine Completion tab allows estate to monitor and improve machine productivity and work quality



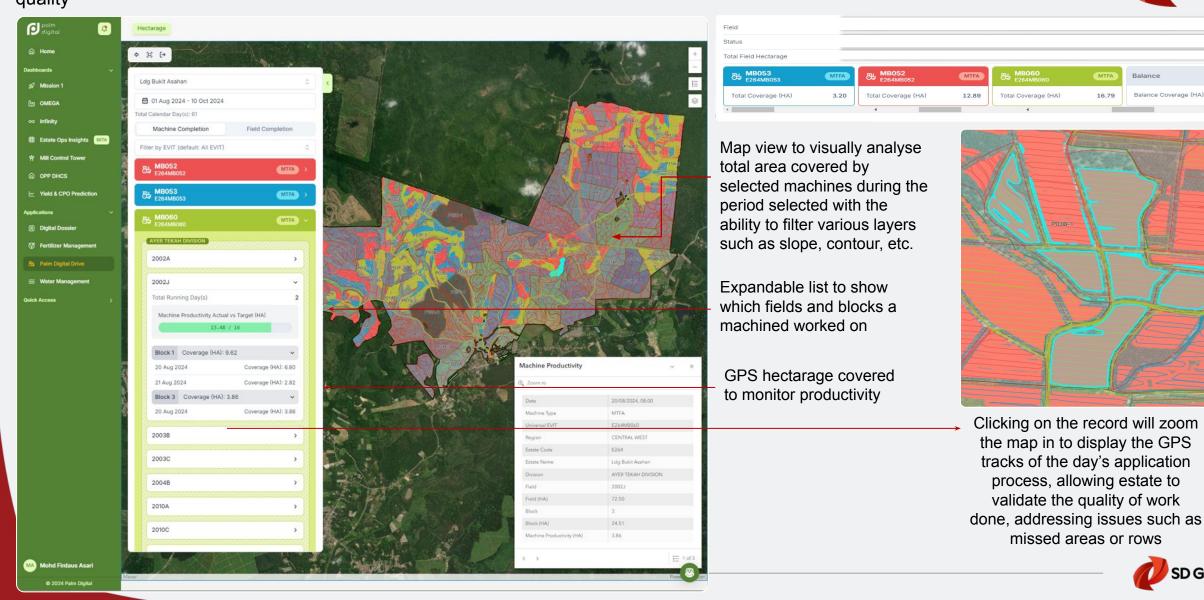
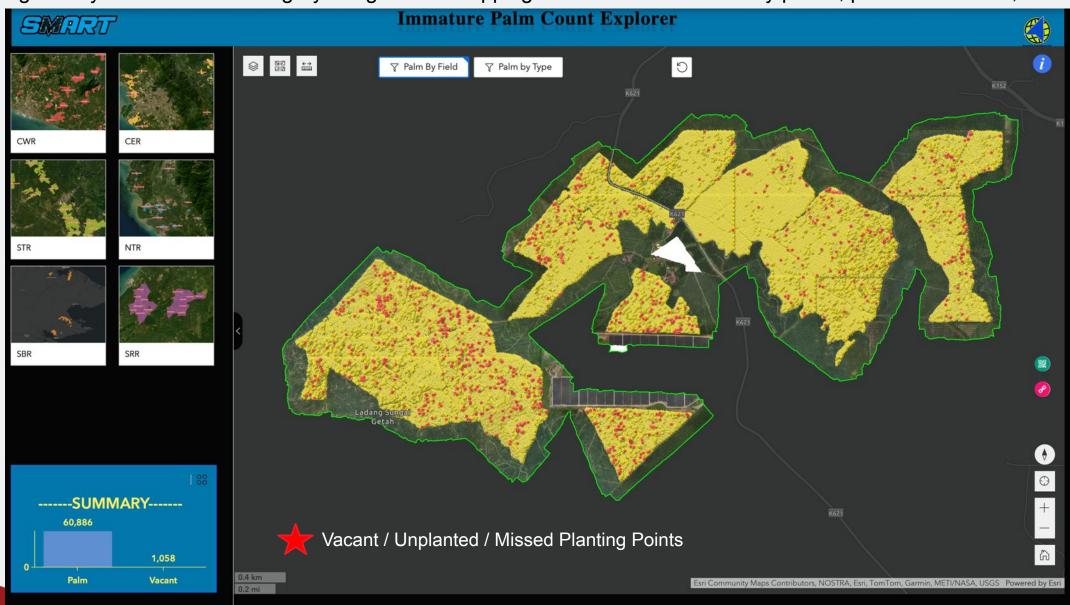
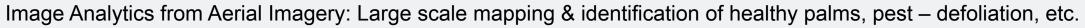


Image Analytics from Aerial Imagery: Large scale mapping & identification of healthy palms, pest – defoliation, etc.





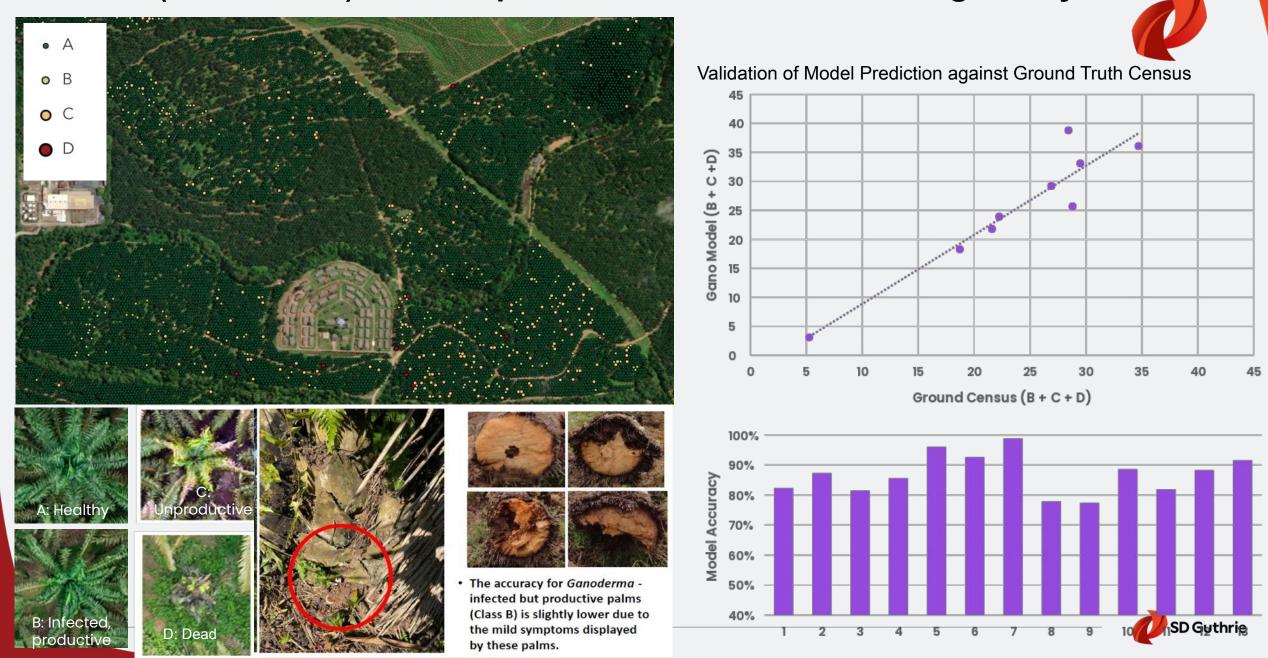








Disease (Ganoderma) infected palms detection via aerial image analytics



Disease (Ganoderma) infected palms detection via aerial image analytics Retrospective Ganoderma infection, from single palm to field percentage map is used to visualize the severity of Ganoderma infection severity throughout the plantation. Threshold values set in the map are to assist in decision for disease management. Heatmap percentage joined spatially with Field Boundary Disease % 5.879050 - 10.214049 10.214050 - 15.891804 15.891805 - 23.328227

In Precision Agriculture, connected estates and workforce will improve land use, fertilizer application and FFB evacuation

Increase land yield to increase value per ha

- Imaging and sensor inputs to reduce dead spots
- Analytics & tools to optimize planting

Improve fertilizer application to achieve yield potential and optimize tree nutrition levels

 Real-time information to inform agronomist on the ideal time and amount of fertilizer to apply

Improve husbandry to increase yield and lower resource costs

- Connected worker to enhance task execution
- Planning, task allocation to manage workers in real time

Faster evacuation and better grading to increase quality

- Planning to enhance the management of logistics activities e.g. task and equipment scheduling, faster evacuation.
- Use robotics and video analytics to identify, grade, and predict weight of FFBs



MUCHAS GRACIAS



2025

