TerraAgra

DRONE-POWERED DATA DRIVEN
PRECISION AGRICULTURE

Copyright 2023 Aeronerve. All right reserved

AERONERVE

TerraAgra

Precision Agriculture

TerraAgra is Smart Farming and Precision Agriculture product that focuses on Drone and Iot data integration and visualization to give insight on plantation and farm site.

Copyright© 2023 Aeronerve. All right reserved

AERONERVE

TerraAgra
Musim 2/2023
Petak
Hasil
Rice Check
Laporan
Tetapan
Imtiyaz Adla
Lihat Akaun
Petak
Cari petak
Petak 1
- ha
HLT 110
Petak 2
- ha
HLT -45
Petak 3
- ha
HLT -45
Petak 4
- ha
HLT -45
Petak 5
- ha
HLT -45
Petak 6
- ha
HLT -
Petak 7
- ha
HLT 110
Petak 8
0.09 ha
HLT -
Petak 9
1.14 ha
HLT 110
Tambah Petak
Data: Nama Petak
23 - 09/5/2023
10/5/2023 - 16/5/2023
Petak 12313
tes
Petak 1
Petak 3
Petak 10
Petak 12
Petak 4
Petak 56
Petak 8
Petak 5
A07
Petak 9
Petak 6
mapbox
© Mapbox © OpenStreetMap Improve this map © Maxar

TerraAgra
Musim 2/2023
Petak
Hasil
Rice Check
Laporan
Tetapan
Imtiyaz Adla
Lihat Akaun
Petak
Cari petak
Petak 1
- ha
HLT 110
Petak 2
- ha
HLT -45
Petak 3
- ha
HLT -45
Petak 4
- ha
HLT -45
Petak 5
- ha
HLT -45
Petak 6
- ha
HLT -
Petak 7
- ha
HLT 110
Petak 8
0.09 ha
HLT -
Petak 9
1.14 ha
HLT 110
Tambah Petak
Data: Nama Petak
No Data
14/6/2023 - 20/6/2023
Petak 12313
tes
Petak 1
Petak 10
Petak 3
Petak 12
Petak 56
Petak 4
Petak 8
Petak 5
A07
Petak 9
Petak 6
mapbox
© Mapbox © OpenStreetMap Improve this map © Maxar

TerraAgra

Musim 2/2023

Petak

Hasil

Rice Check

Laporan

Tetapan

Imtiyaz Adla
Lihat Akaun

Hasil

Cari petak

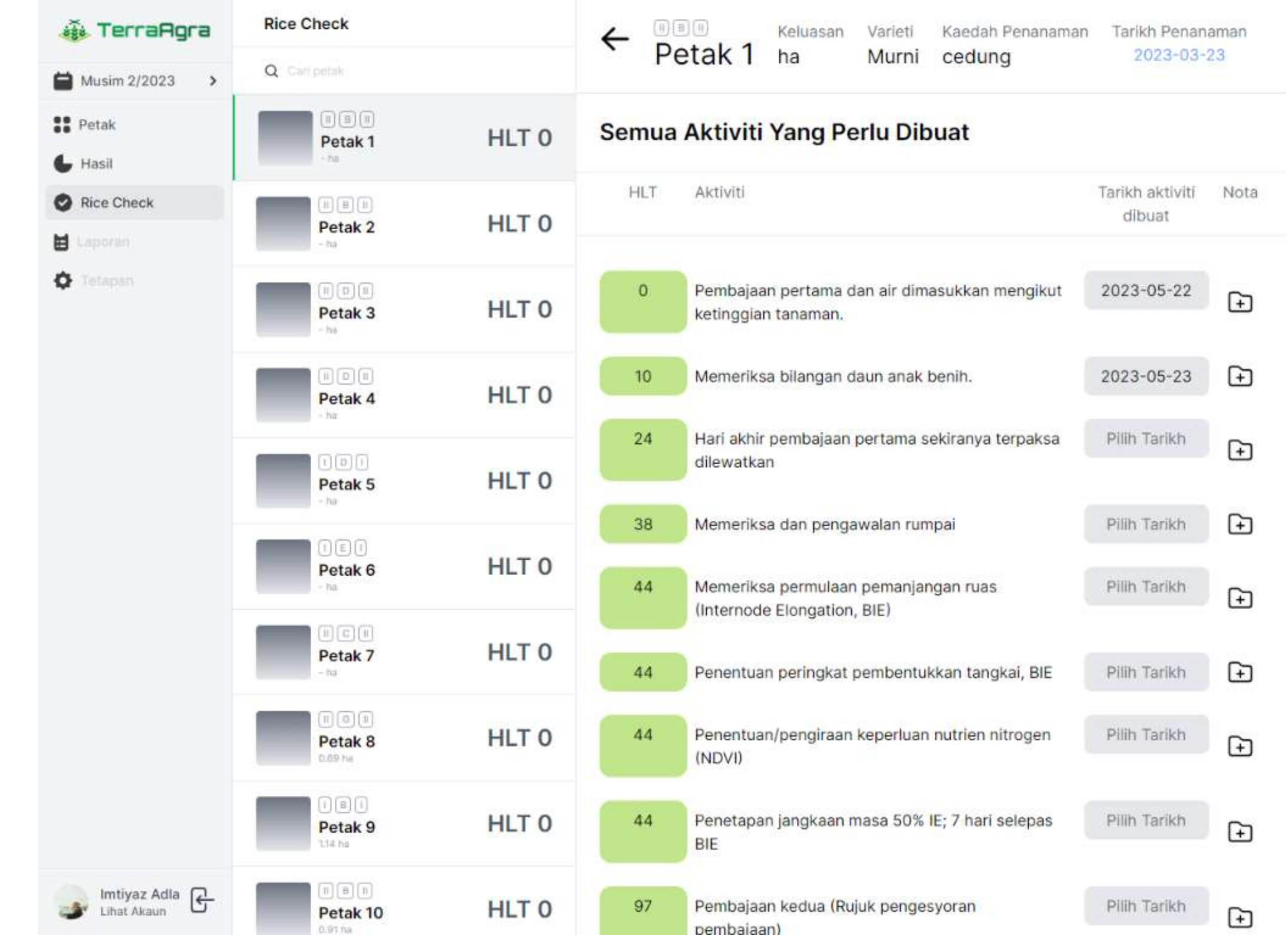
Musim 1/2002

Jumlah Sasaran Hasil	Jumlah Hasil Sebenar	Perbezaan
48.54 t/ha	37.62 t/ha	-22.50 %

Musim 2/2009

Jumlah Sasaran Hasil	Jumlah Hasil Sebenar	Perbezaa
38.69 t/ha	13.98 t/ha	-63.87 %

		Sasaran Hasil	Hasil Sebenar	Perbezaan	Sasaran Hasil	Hasil Sebenar	Perbezaa
Petak 1 - ha	HLT 0	- t/ha	- t/ha	-	- t/ha	- t/ha	-
Petak 2 - ha	HLT 0	- t/ha	- t/ha	-	- t/ha	- t/ha	-
Petak 3 - ha	HLT 0	- t/ha	- t/ha	-	- t/ha	- t/ha	-
Petak 4 - ha	HLT 0	- t/ha	- t/ha	-	- t/ha	- t/ha	-
Petak 5 - ha	HLT 0	48.54 t/ha	37.62 t/ha	-22.50 %	- t/ha	- t/ha	-
Petak 6 - ha	HLT 0	- t/ha	- t/ha	-	- t/ha	- t/ha	-
Petak 7 - ha	HLT 0	- t/ha	- t/ha	-	31.11 t/ha	13.55 t/ha	-56.44 %
Petak 8 0.69 ha	HLT 0	- t/ha	- t/ha	-	- t/ha	- t/ha	-



TerraAgra

Musim 2/2023

Petak

Hasil

Rice Check

Laporan

Tetapan

Imtiyaz Adla
Lihat Akaun

Rice Check

Cari petak

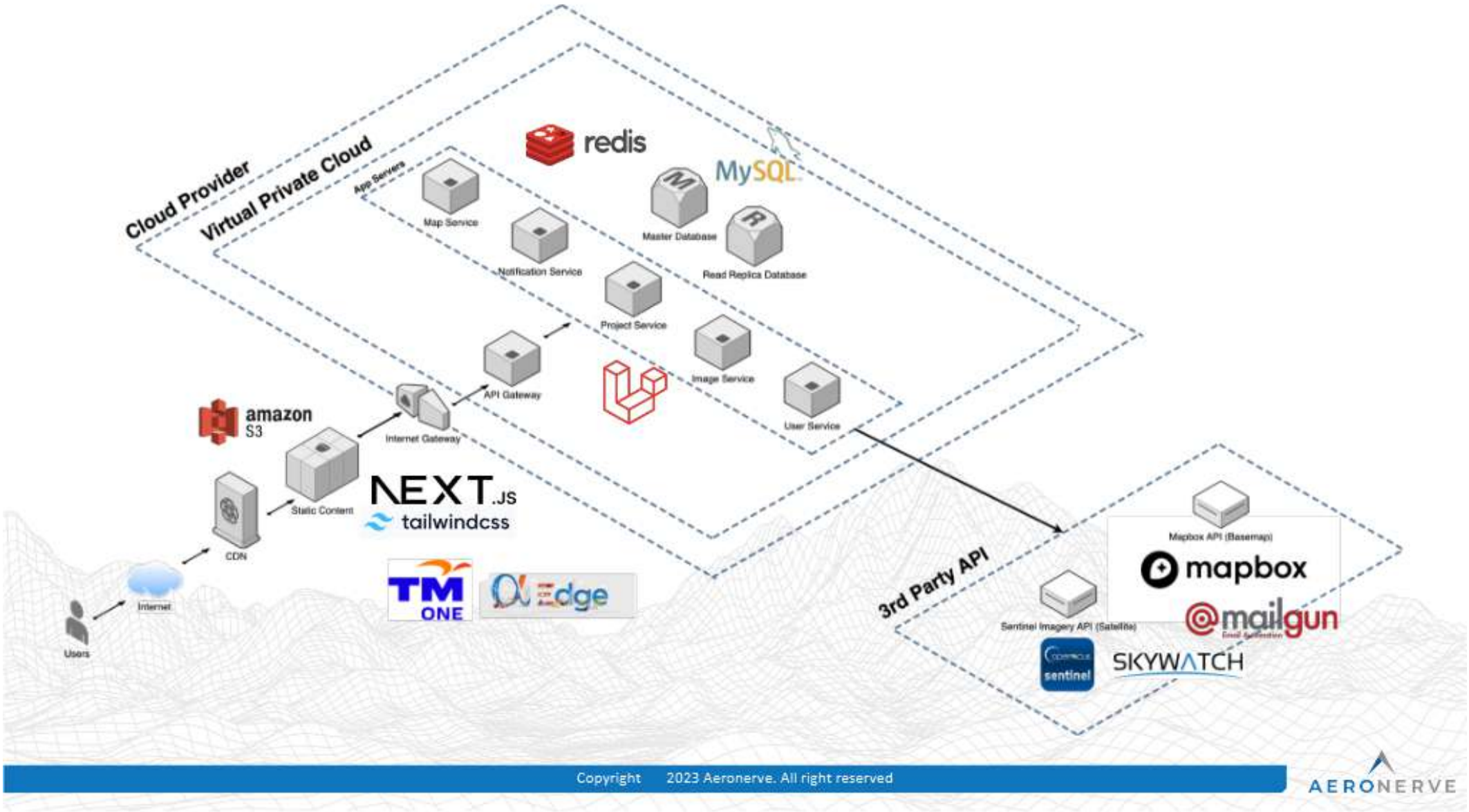
Petak 1 - ha	HLT 0
Petak 2 - ha	HLT 0
Petak 3 - ha	HLT 0
Petak 4 - ha	HLT 0
Petak 5 - ha	HLT 0
Petak 6 - ha	HLT 0
Petak 7 - ha	HLT 0
Petak 8 0.69 ha	HLT 0
Petak 9 1.14 ha	HLT 0
Petak 10 0.91 ha	HLT 0

Petak 1

Keluasan	Varieti	Kaedah Penanaman	Tarikh Penanaman
ha	Murni	cedung	2023-03-23

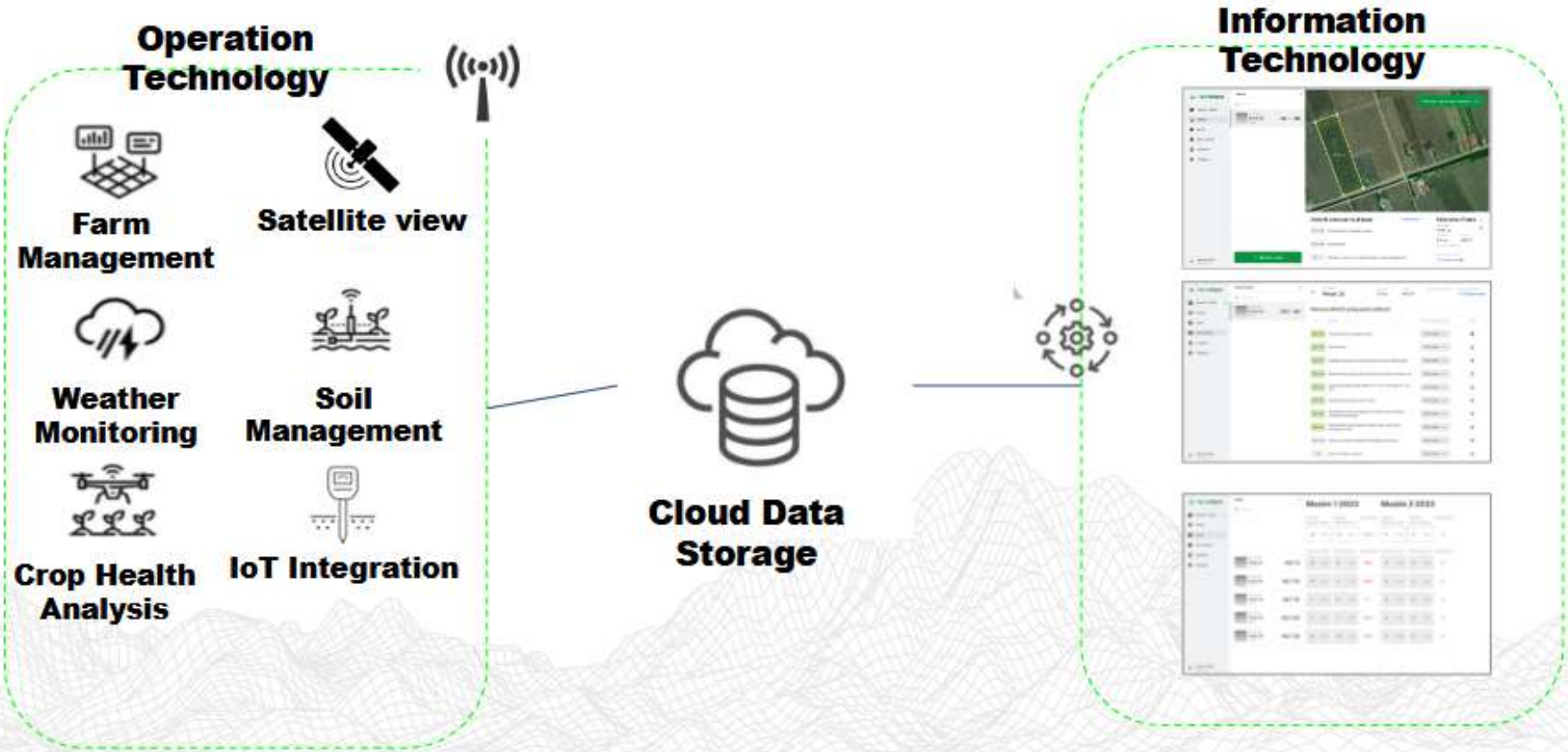
Semua Aktiviti Yang Perlu Dibuat

HLT	Aktiviti	Tarikh aktiviti dibuat	Nota
0	Pembajaan pertama dan air dimasukkan mengikut ketinggian tanaman.	2023-05-22	
10	Memeriksa bilangan daun anak benih.	2023-05-23	
24	Hari akhir pembajaan pertama sekiranya terpaksa dilewatkan	Pilih Tarikh	
38	Memeriksa dan pengawalan rumpai	Pilih Tarikh	
44	Memeriksa permulaan pemanjangan ruas (Internode Elongation, BIE)	Pilih Tarikh	
44	Penentuan peringkat pembentukkan tangkai, BIE	Pilih Tarikh	
44	Penentuan/pengiraan keperluan nutrien nitrogen (NDVI)	Pilih Tarikh	
44	Penetapan jangkaan masa 50% IE; 7 hari selepas BIE	Pilih Tarikh	
97	Pembajaan kedua (Rujuk pengesyoran pembajaan)	Pilih Tarikh	



Copyright 2023 Aeronerve. All right reserved

AERONERVE



Copyright 2023 Aeronerve. All right reserved

AERONERVE

	Starter	Plus	Pro	Enterprise
Farm Management	✓	✓	✓	Custom
Satellite View	Low resolution	Medium Resolution	High Resolution	Custom
Weather Monitoring	✗	✓	✓	Custom
IoT Integration	✗	✓	✓	Custom
Crop Health Analysis	✗	✗	✓	Custom
Drone Services	✗	✗	✓	Custom
Additional Services	Upon request	Upon request	Upon request	Upon request

Copyright © 2025 AeroNerve. All right reserved

AERONERVE

Services

- Aerial mapping & surveying
- Agriculture monitoring
- Surveillance
- Temporal detection

Output

- Normalized difference vegetation index (NDVI)
- Change detection
- Surface modelling
- Crop & pest monitoring
- Soil monitoring

Copyright 2023 Aeronerve. All right reserved

AERONERVE

Copyright 2023 Aeronerve. All right reserved

AERONERVE

DJI MAVIC
3M

WINGTRAONE (GEN II)
wingtra
GEN II

EQUIPMENTS

Sony RX1R

No.	Details	
1.	Accuracy without GCPs	1 cm Hor. / 3 cm Vert .
2.	Payload weight	590 g
3.	Camera	42 MP
4.	Max coverage at lowest GSD	Up to 90 ha at 55 m flight altitude
5.	Max coverage at 120 m	Up to 210 ha at 1.6 cm GSD

Copyright 2023 Aeronerve. All right reserved

AERONERVE

EQUIPMENTS

Micasense RedEdge-P

No.	Details	
1.	Sensor	R, G, B, RE, NIR, 5.5 mm lenses
2.	Panchromatic	10.3 mm lens
3.	Lowest possible GSD	2.0 cm/px
4.	Max Coverage at lowest GSD	Up to 90 ha at 60 m flight altitude
5.	Max Coverage at 120 m	Up to 160 ha at 4 cm/px GSD

Copyright 2023 Aeronerve. All right reserved

AERONERVE

IoT Sensor (Soil Moisture)

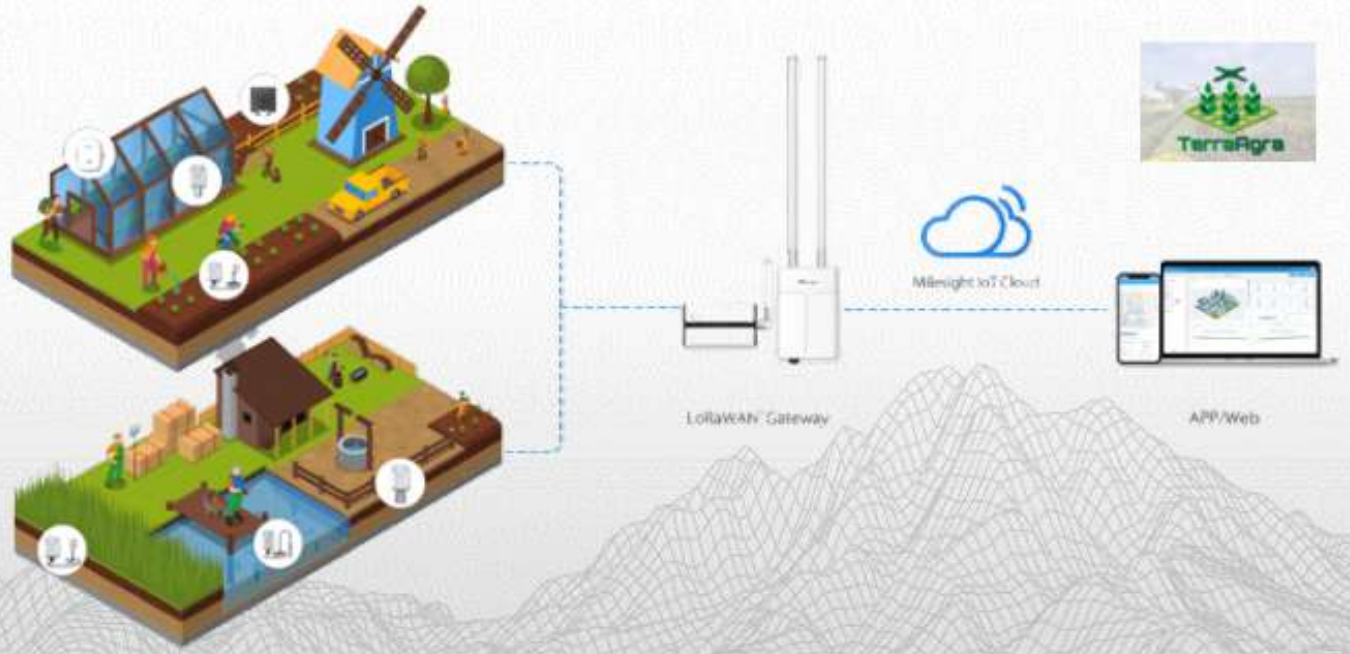
EM500 - SMTC

Model	EM500-SMTC	EM500-SMT
Moisture	0 ~100% RH 2% RH (0 ~ 50%), 3% RH (50 ~ 100%) 0.01% RH	0 ~ 100% RH ±2% RH 0.01% RH
Temperature	-40 ~ 80°C ±0.5°C 0.1°C	/
Electrical Conductivity	3% RH (50 ~ 100%) ±3% (0 ~ 10000 µS/cm), ±5% (10000 ~ 20000 µS/cm) 10 µS/cm (0 ~ 10000 µS/cm), 50 µS/cm (10000 ~ 20000 µS/cm)	/
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923	
Power Supply	Built-in 19000 mAh Li-SOCl2 battery, up to 10 years service life	
Ingress Protection	IP66 (Transceiver, IP67 as required)	
Operating Temperature	-30 ~ 70°C (Transceiver), -40 ~ 85°C (Sensor)	-30 ~ 70°C (Transceiver), -40 ~ 60°C (Sensor)

Copyright 2023 Aeronerve. All right reserved

AERONERVE

IoT Sensor Architecture



Copyright 2023 Aeronerve. All right reserved

AERONERVE

Product Team

Ts. Ahnaf Ab Qais

Product Director

Ts. Mohd Rusman Arief

Head of Product, Product Lead

Ahmad Saifullah Ariffin Sudirman

Full Stack Engineer

Imtiyaz Adla Kaab

Business Analyst, Certified Agile Scrum Master

Ammar Raji

UI/UX Designer, UX Research, Data Engineer

Yasir Azman

Certified Information Security Awareness Manager, Full Stack Engineer

Copyright 2023 Aeronerve. All right reserved

AERONERVE

Solutions/ ServicesTeam

Sr. Gs. Mohd Ezuan Abdullah

Head of Solutions, Geospatialist

Muhammad Hazim Hazairin

RCOC Drone Pilot, Project/site Engineer

Copyright 2023 Aeronerve. All right reserved

AERONERVE

THANK YOU

AERONERVE

https://aeronerve.my
rusman@aeronerve.my

https://bit.ly/terraagra-video

Copyright© 2023 Aeronerve. All right reserved