

FOR BETTER LIFE, FOR NEXT GENERATION

Intelligent Revolution in Orchard Plant Protection

Heathcote Vineyard

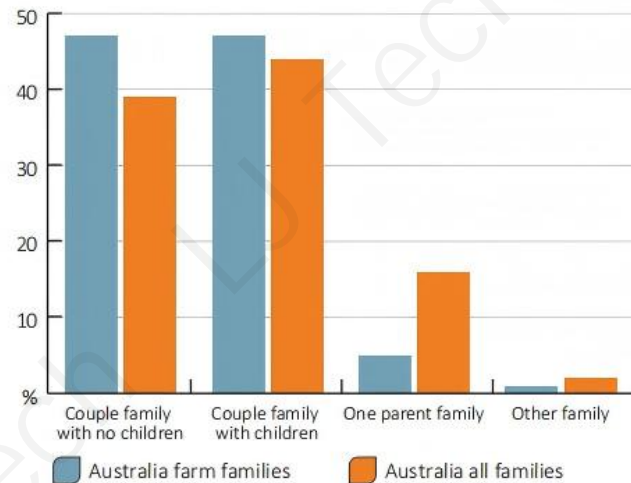


This isn't an isolated story...

Farming families

Farming families can be defined as families where at least one person is a farmer or farm manager. In 2021, there were 88,873 farming families of which 47% were a couple without children, compared with 39% for all Australian families. This indicates that many farming families are likely to have older children no longer living at home. One-parent farming families are relatively uncommon (5%) compared with one-parent families for Australia (16%) (Figure 6).

Figure 6 Farm family household composition, 2021



Note: Other family includes groups of related individuals such as brothers and sisters where there is no couple or parent child relationship.
Source: ABS 2021a; 2023

Generational Shift in Farming

Agriculture faces critical workforce challenges as younger generations pursue urban opportunities

55+
Average age of Chinese agricultural workers

↑
Rising average age of Australian farmers

The challenges of traditional agriculture remain unchanged:



Traditional farming systems face challenges of intergenerational successions

- Longer hours, lower income compared to other industries
- Operating tractors under **40°C** heat
- 300 hours a year **breathing in chemicals**
- 30% of farmers suffer from chronic **back injuries**

Your digital farmhands:
Tireless, precise, and always on call





Flexible



Powerful

S500Pro Spray Robot

500L
Capacity

6h
Operation

7m
Spray Height

S1000 Spray Robot

1000L
Capacity

7h
Operation

12m
Spray Height



Smart Driving



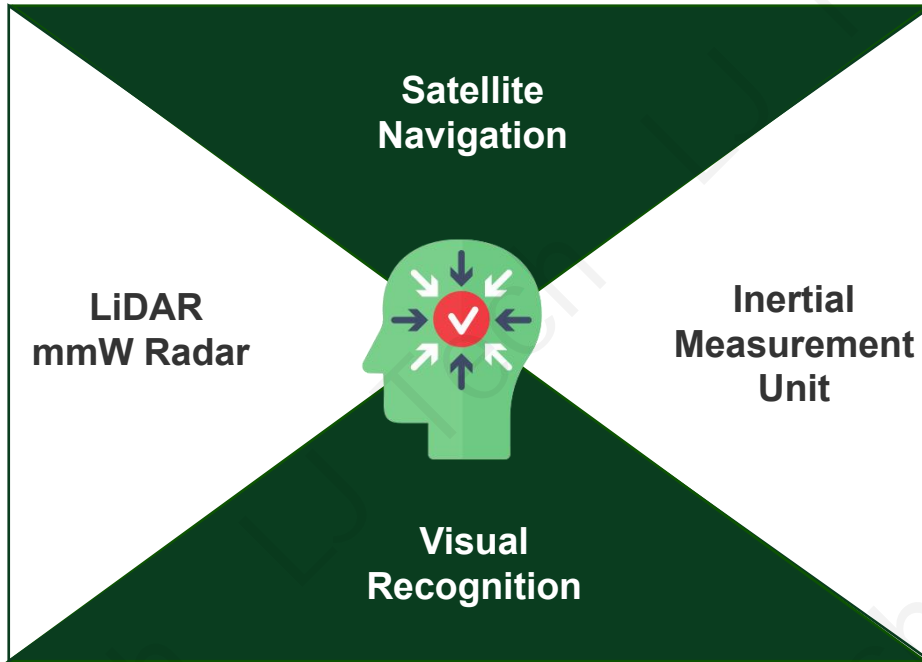
Smart Spray



Smart Control

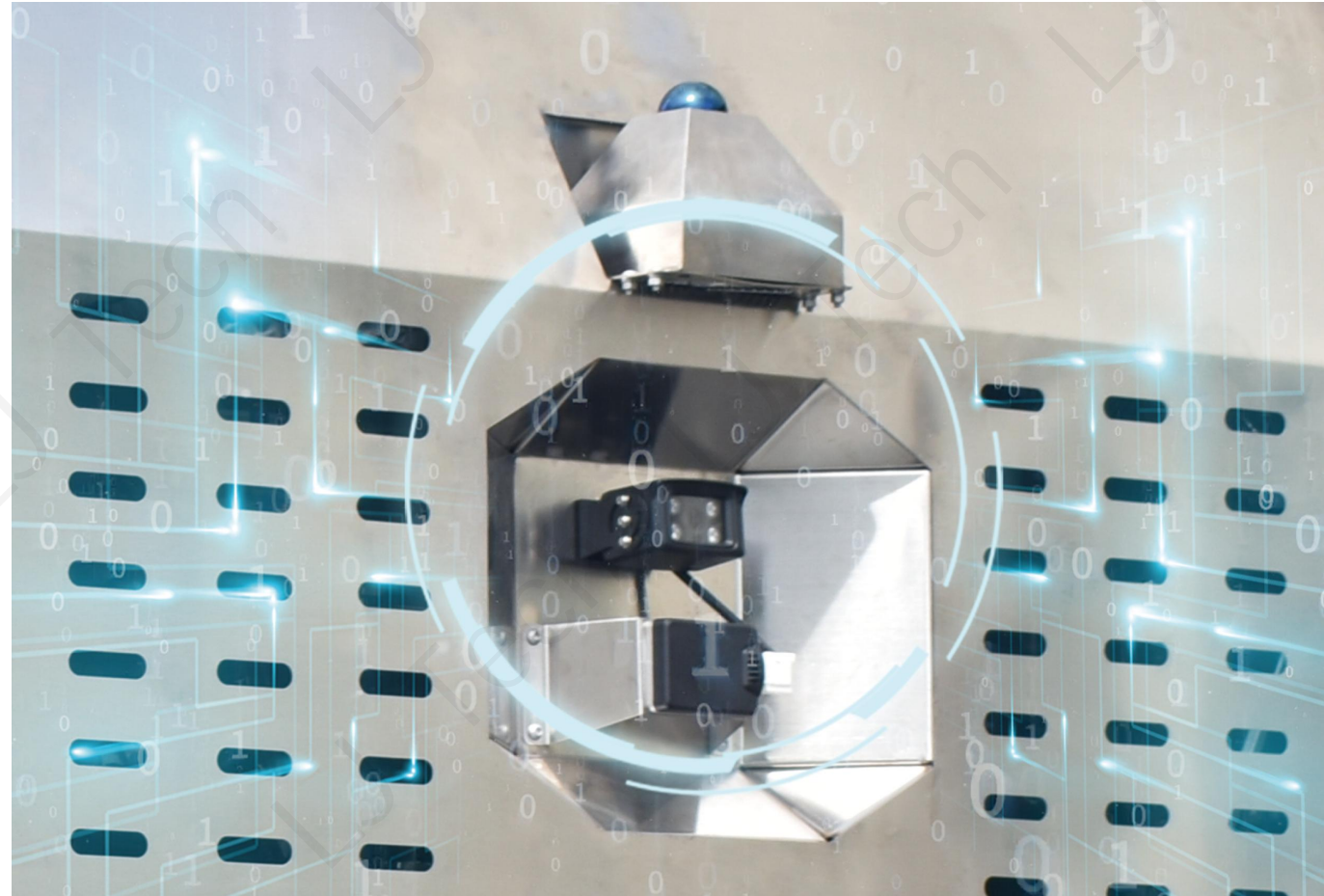
Multi-Sensor Fusion

Advanced algorithm without network dependency



Map-Free Navigation:

Our fusion technology enables fully autonomous navigation without requiring network connectivity or pre-mapped orchard layouts, adapting to changing field conditions in real-time.





Precision Spraying Technology

1 Variable-Rate Application

Automatically adjusts spray volume based on vehicle speed to maintain consistent coverage across varying terrain.

2 Spraying On/Off

The LiDAR scans each tree to see its position, height, and how thick the leaves are to deliver targeted spraying.

Orchard Mate APP



Real-time Monitoring

Shows live updates(including positions, working status and all settings) plus historical records..



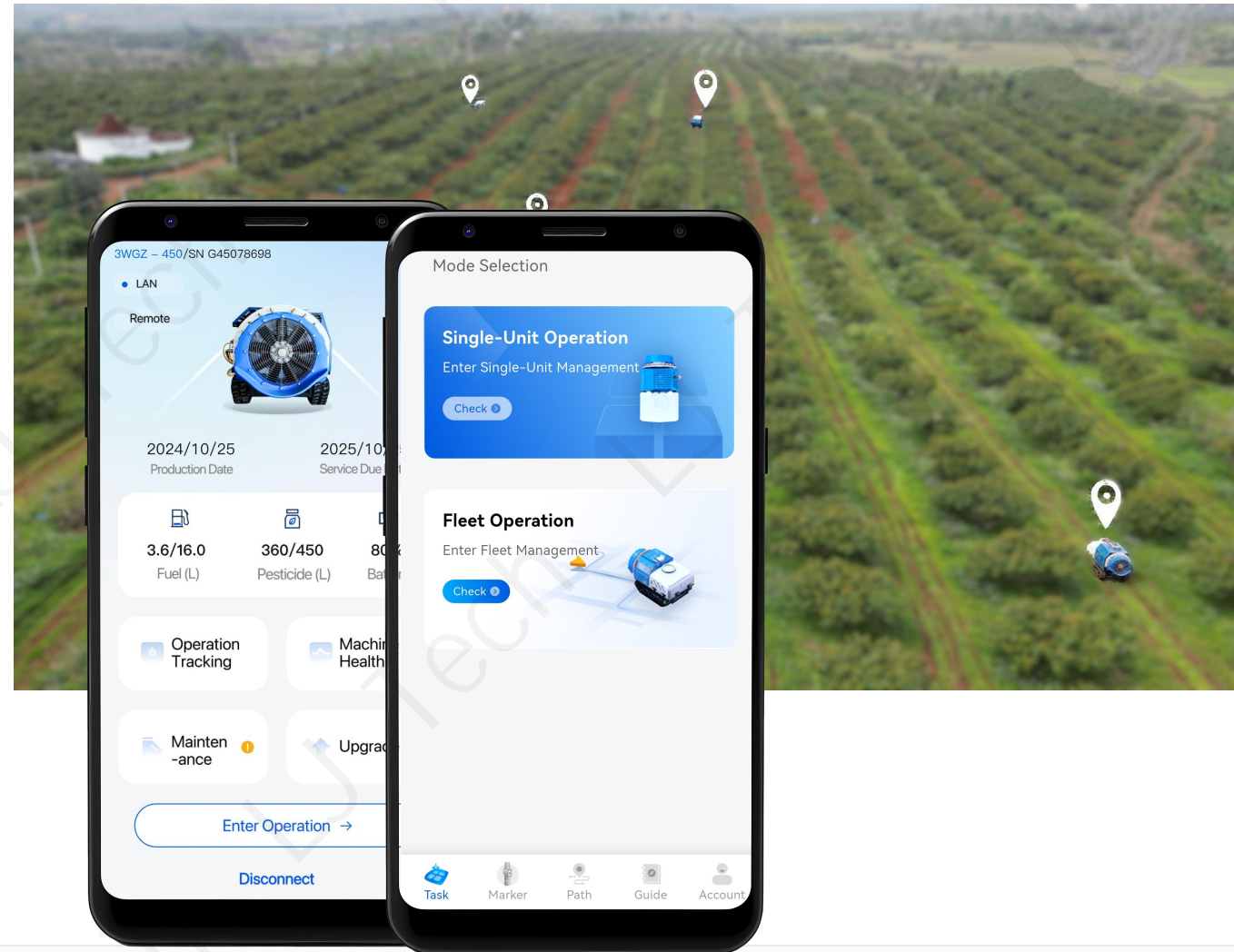
Instant Alerts

Alerts you immediately if anything needs attention



Cluster Operation

Control/monitor multiple machines in one interface



Orchard Mate APP



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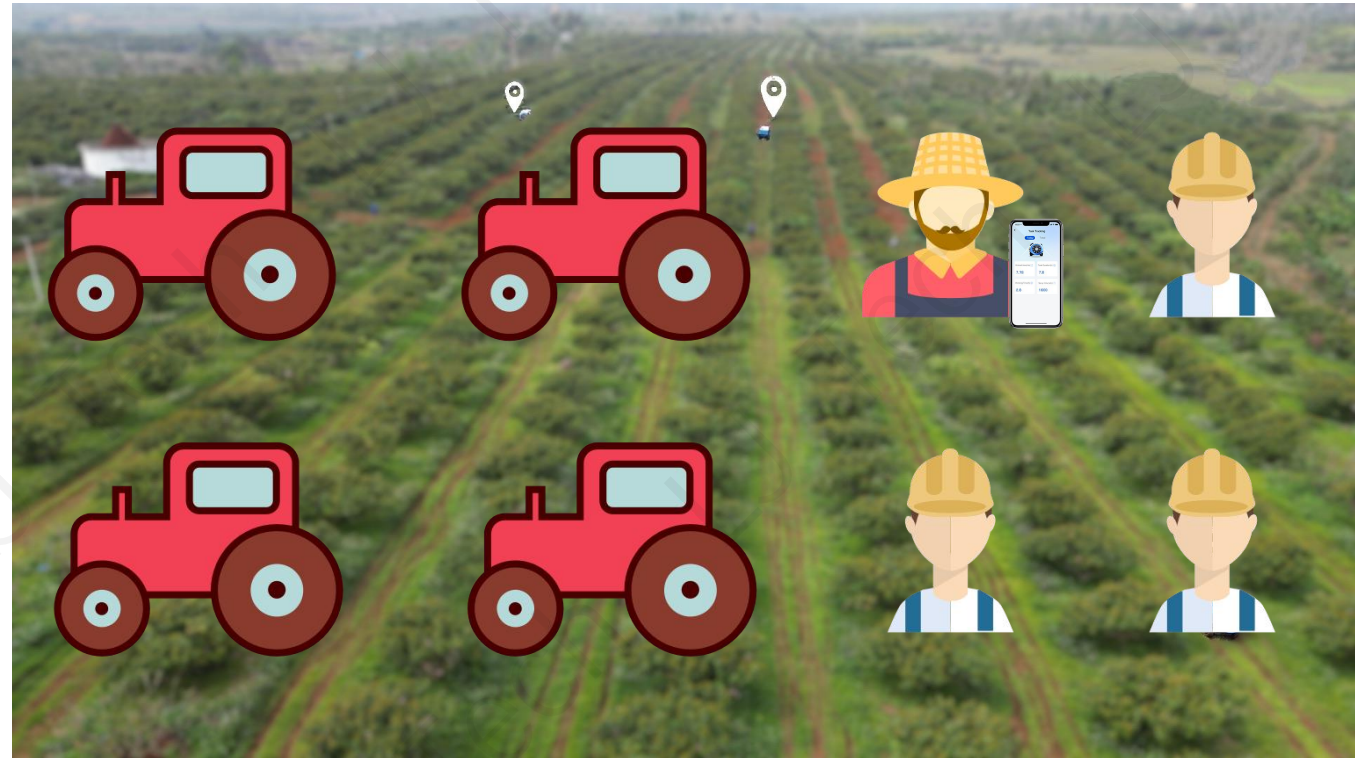
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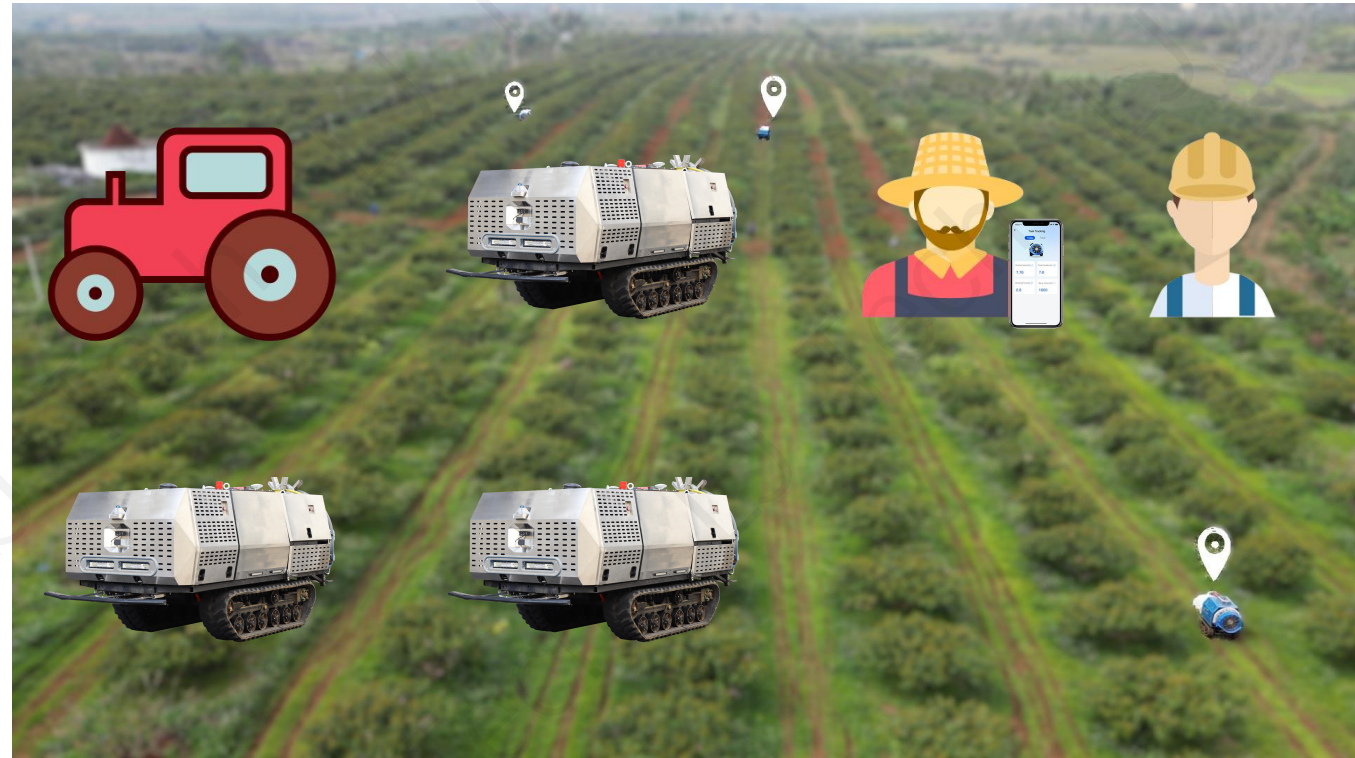
Instant Alerts

Alerts you immediately if anything needs attention

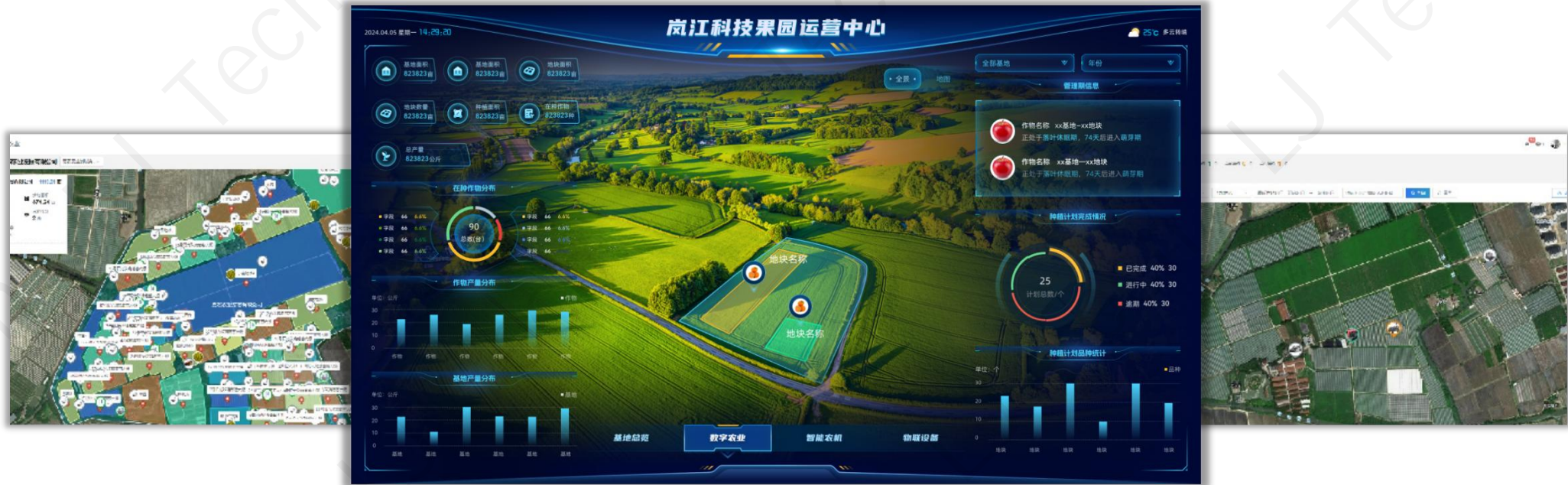
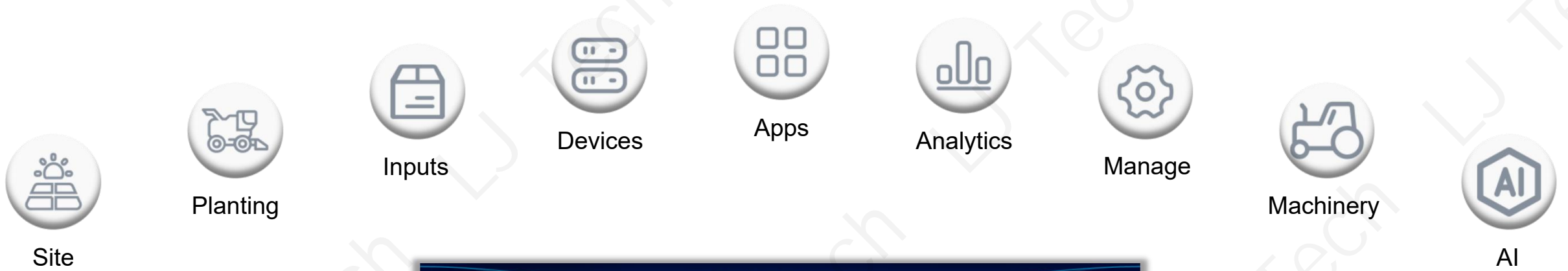


Cluster Operation

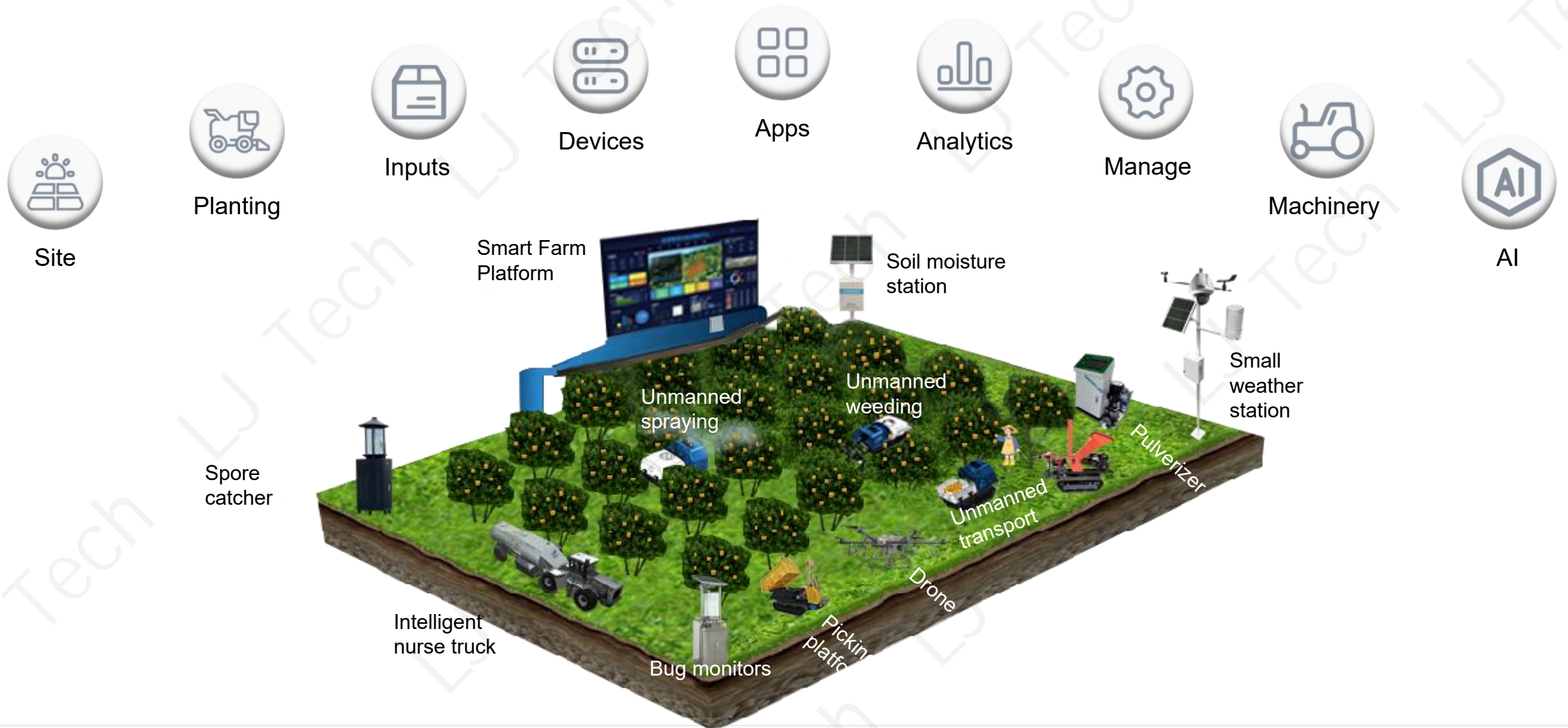
Control/monitor multiple machines in one interface



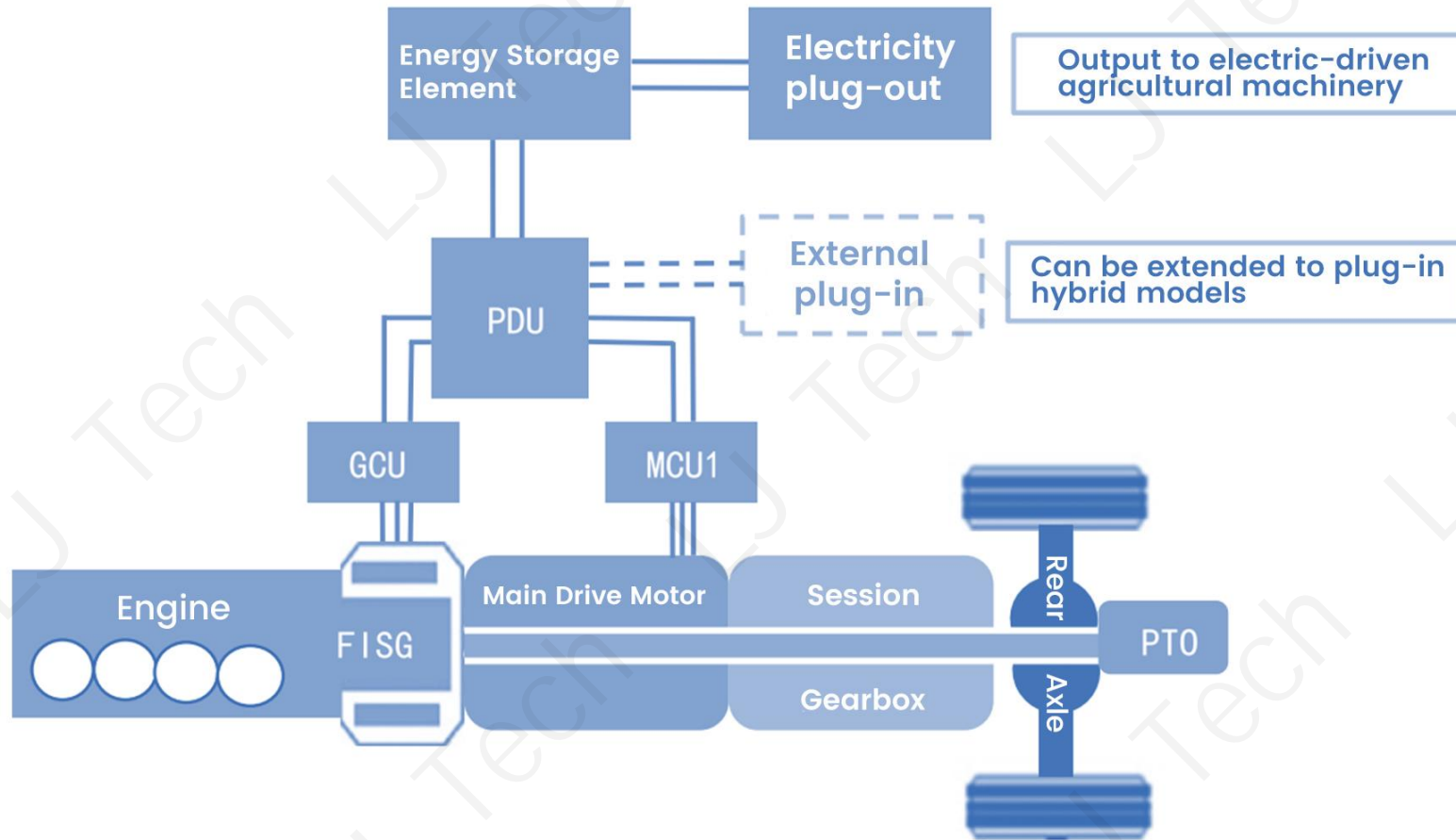
Smart Orchard Ecosystem -- SaaS Smart Farm Platform



Bigger Vision -- Data Collection While Operating

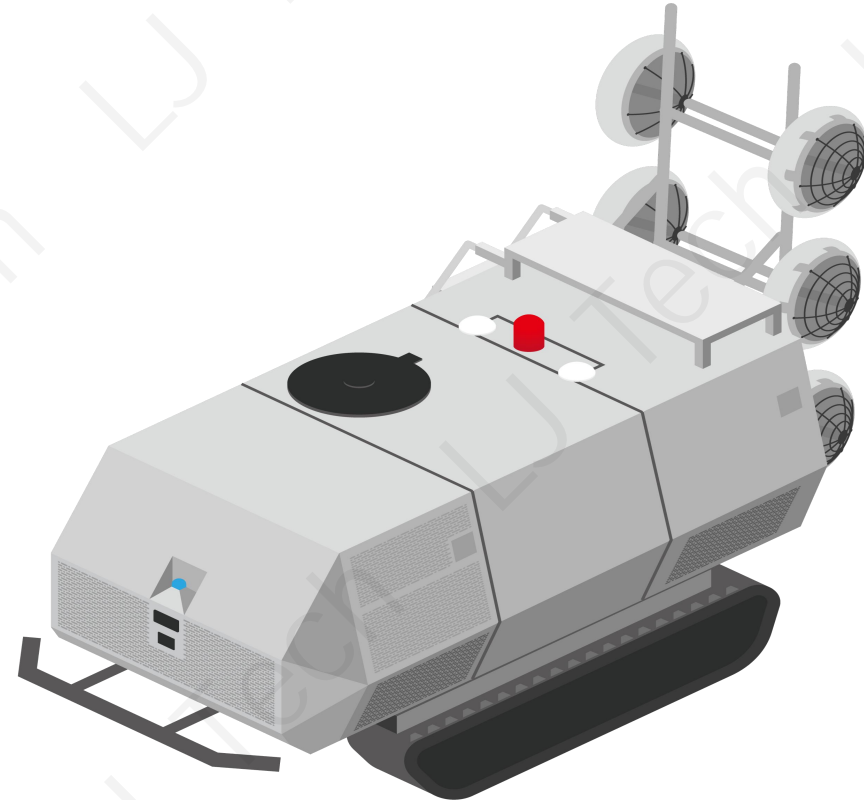
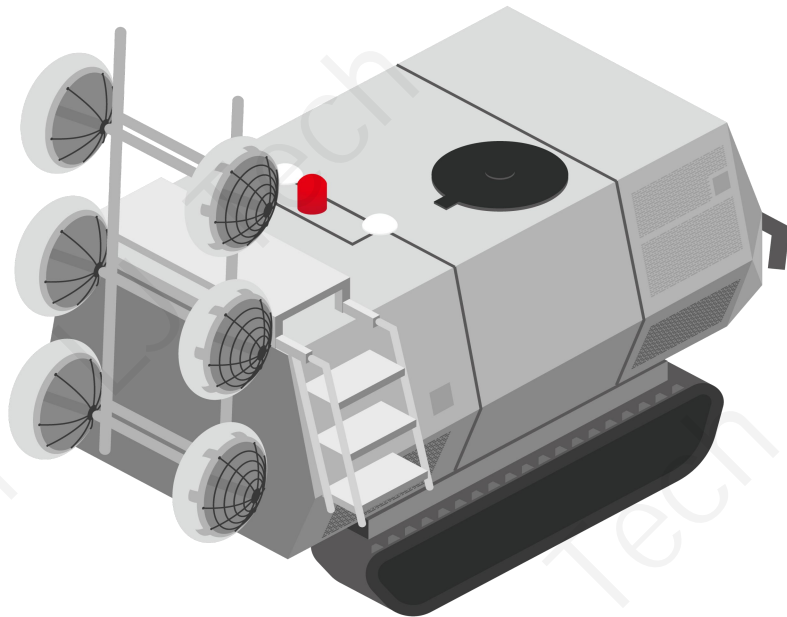


Bigger Vision -- Scalable & Modular Design



Multi-Fan Module

Closer, Greener, More Efficient





Green on Green Weed Control

For Broadacre Crops





Sustainability



Technology



Efficiency

Build a future where:

- A farmer commands 100 hectares from a smartphone.
- Sustainability meets profitability.
- Agriculture becomes a career of pride.

Experience the Future of Farming

Join the intelligent revolution in orchard plant protection

Visit Us at Booth 109

Future Ag • Melbourne Showgrounds

Experience the S500Pro Spray Robot