



RED DOT DRONE

Software company for remote and autonomous operations

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Team



Akira Hirakawa
Co-founder

20 years experience in software development at CyberAgent in Japan, VPoE at Burpple in Singapore. Drone pilot in aerial filming since 2015



Nozomu Miura
Co-founder

30 years experience in software development relating to GPU, image processing, realtime rendering in Japan, Belgium, Singapore. Drone enthusiast since 2014.



Company Information

Company

RED DOT DRONE PTE. LTD. (Singapore)

RED DOT DRONE Japan (Japan)

Office

Singapore:

Republic Polytechnic Industry Centre 5F, Woodlands Ave 9, Singapore 737728

Japan:

Osaka, ATC Building, Nankou-kita 2-1-10



NUS
Enterprise



By NUS Enterprise
In partnership with Singtel Innov8



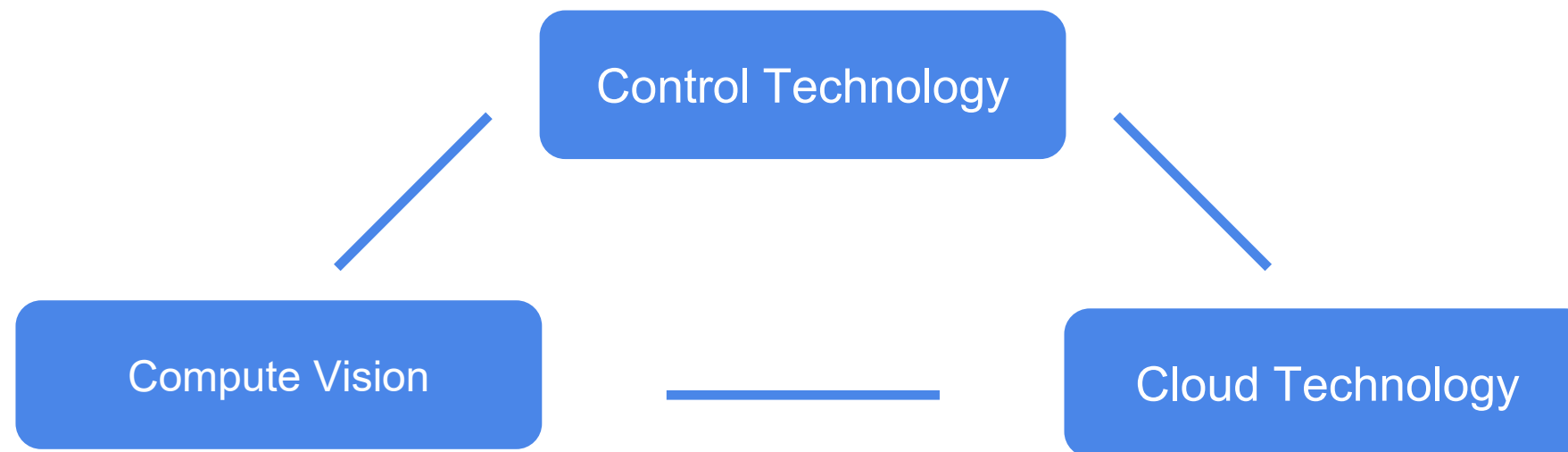
REPUBLIC
POLYTECHNIC

Businesses

1. Drone software development
2. Aerial filming

Drone software company

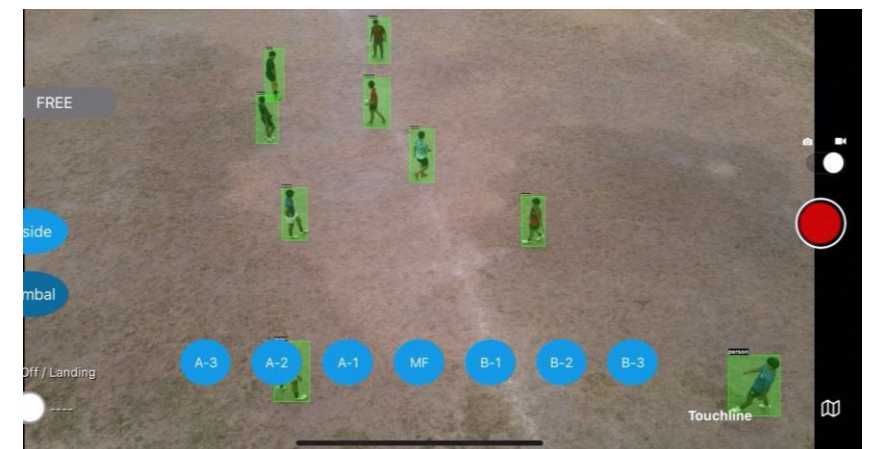
RED DOT DRONE(RDD) is a drone software company specialising in remote and autonomous solutions to achieve easy and safe drone operations with a primary focus on the following areas



Remote control over the Internet



Autonomous flight in GPS-Denied conditions



Computer vision-based auto flight

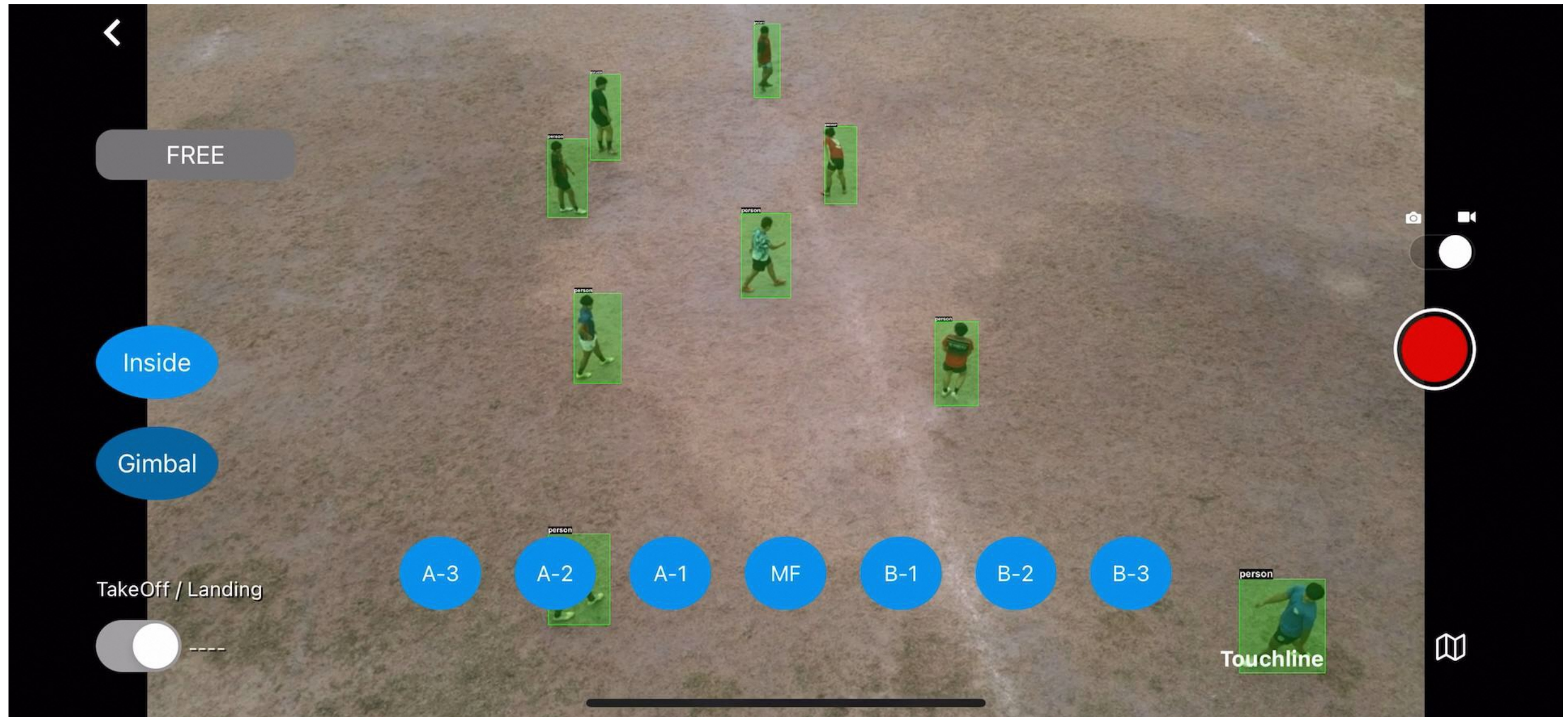
Technology Introduction

Remote Control over the Internet

Demo flight for remote control over the Internet between Singapore (office) and Japan (Football field)

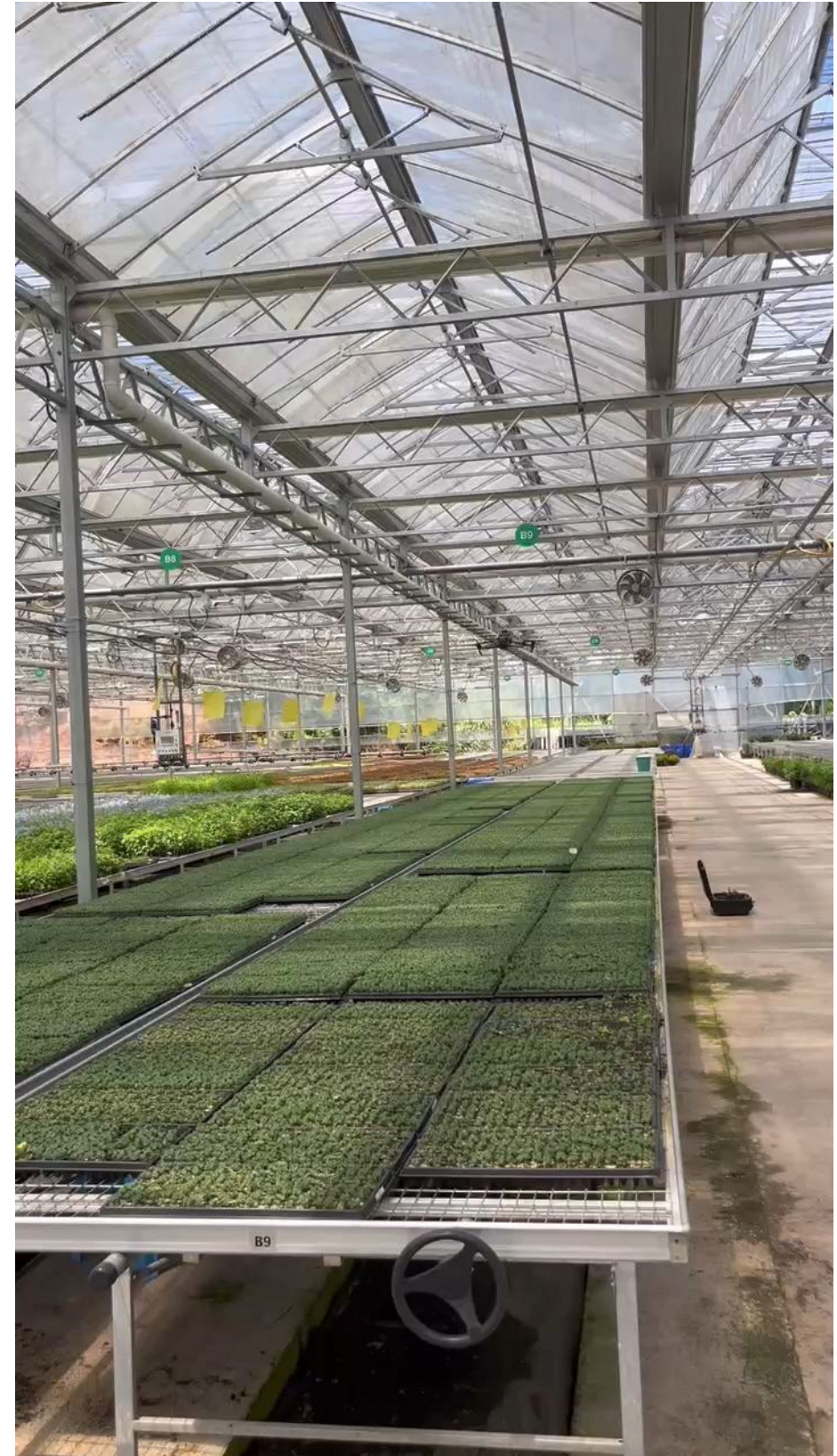
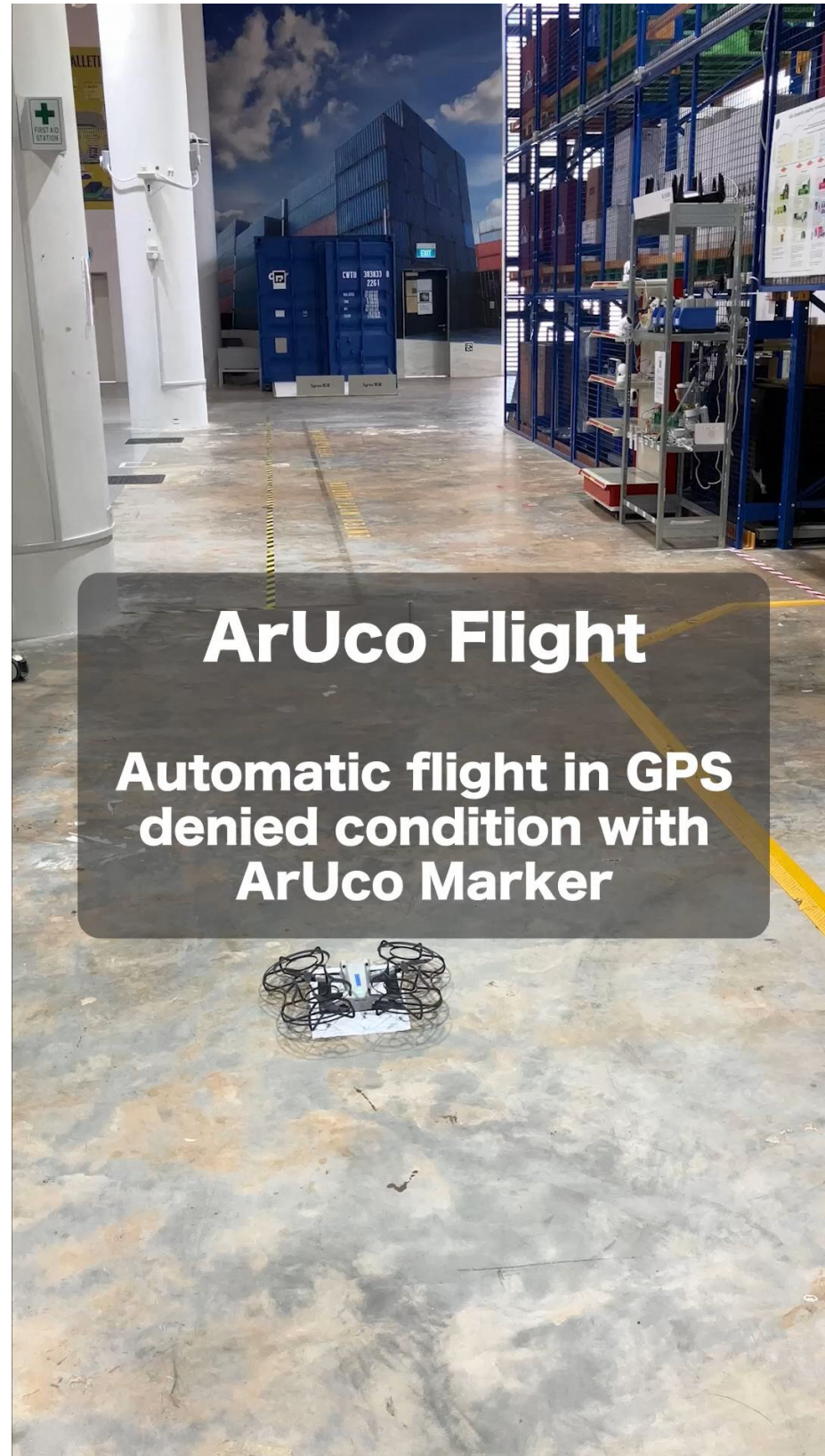


Automatic Following with Computer Vision



Indoor flight technology

Automatic flight in GPS denied condition



Product

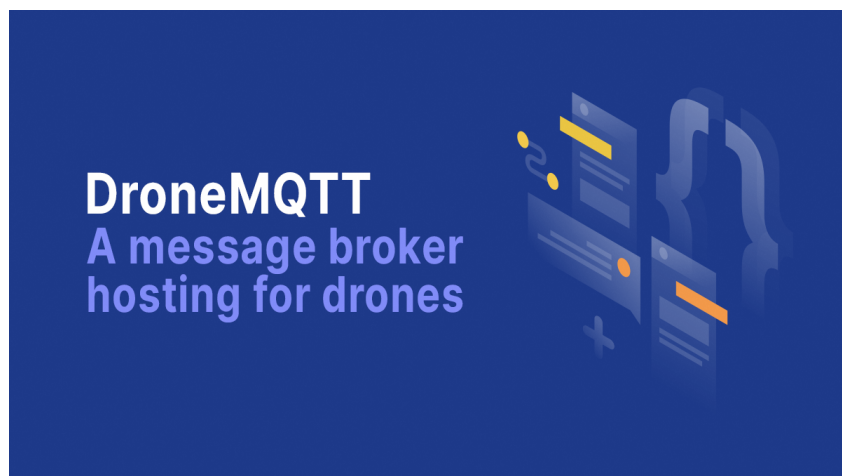
Red Dot Drone develops and provides the following products



Drone Web Services (DWS)

DWS is a suite of cloud & edge services for remote and autonomous drone operation

<https://droneweb services.com/>



DroneMQTT

A message broker hosting service for drones implementing the MQTT protocol.

<https://dronemqtt.com>

Functions



Remode

Control your drone over the Internet from remote locations



Livestream

Share live drone footage with your team for remote operation



ArUco Flight

Automatic flight in GPS denied condition with ArUco Marker

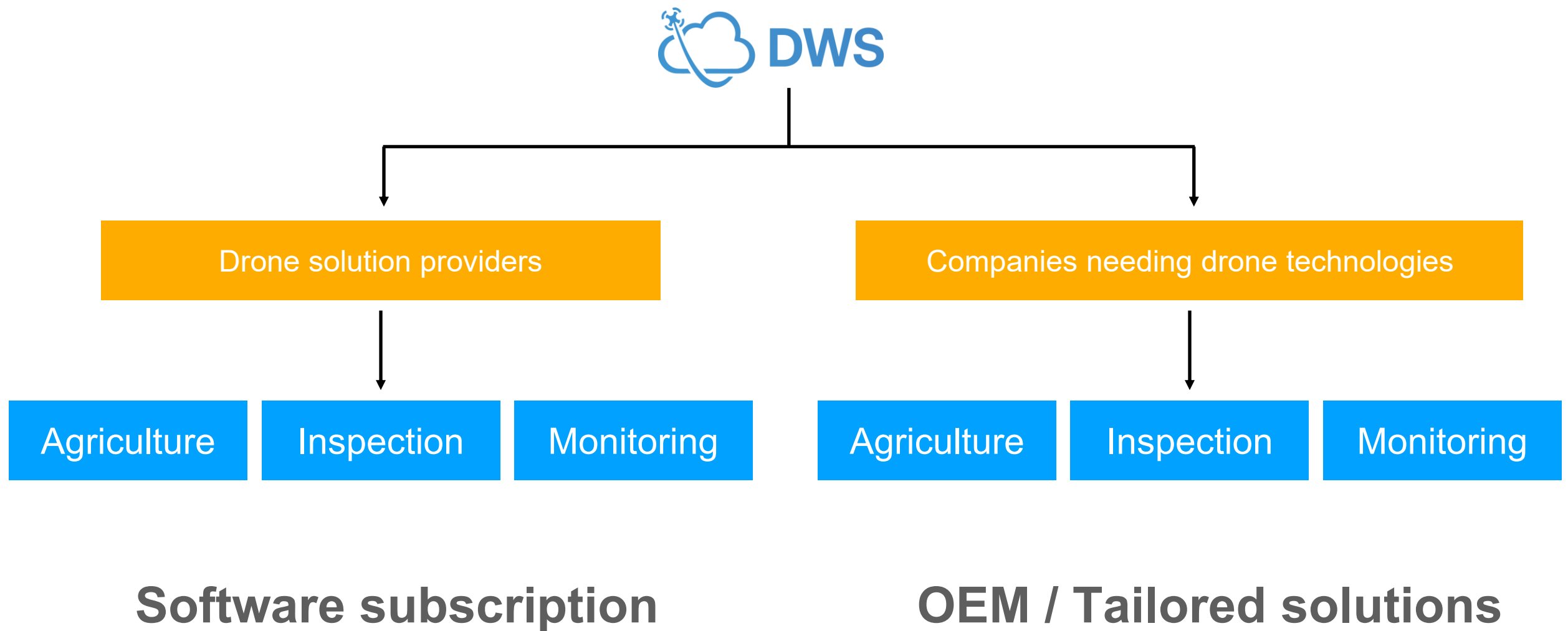


Mission

Create and manage flight plans and mission control

Business

DWS provides drone software to support client's use cases



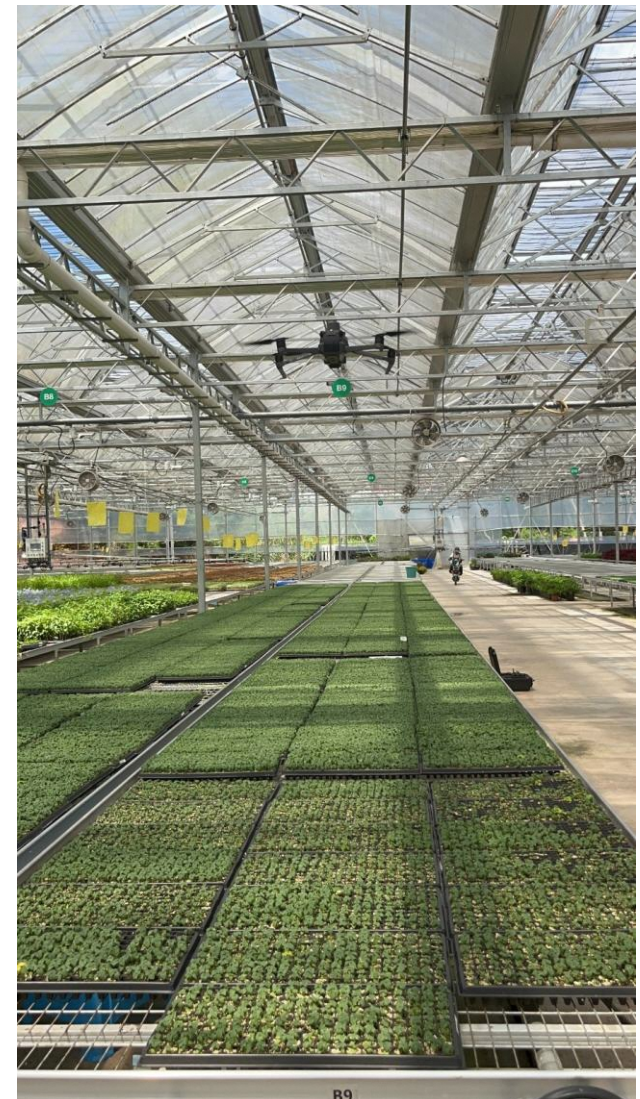
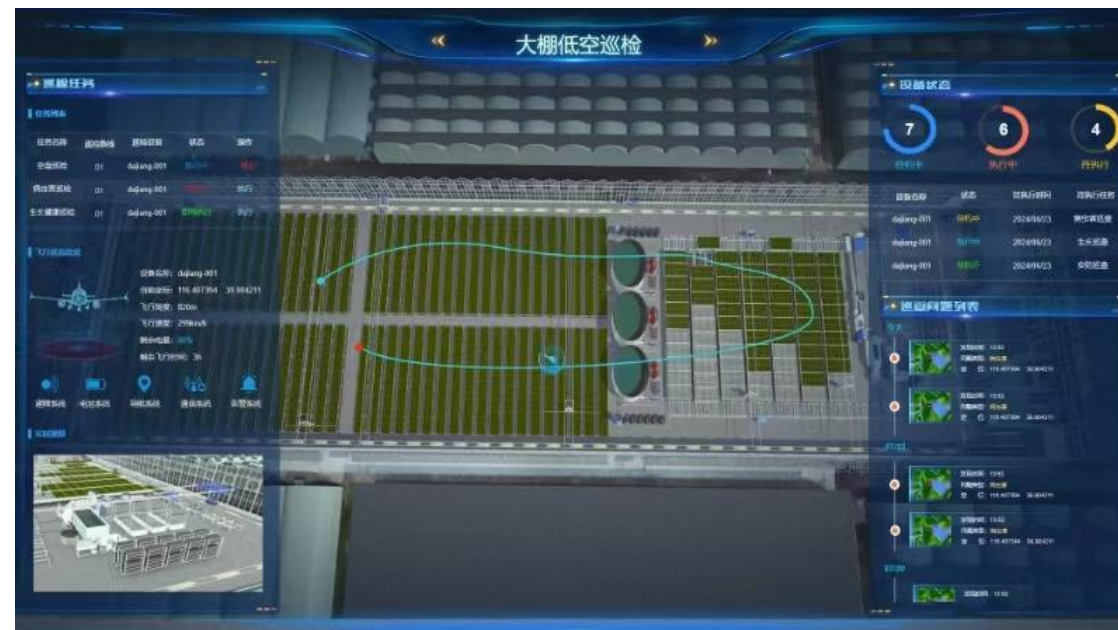
Example of Tailored solution

We have provided and deployed our drone product and solutions to our customers.



Part of the drone technology team involved in a project under the UNDP Accelerator Labs addressing bird damage in agricultural areas in Zimbabwe

Providing indoor drone flight technology with Vilota's perception module to achieve smart navigation to indoor greenhouses in Chongqing, China



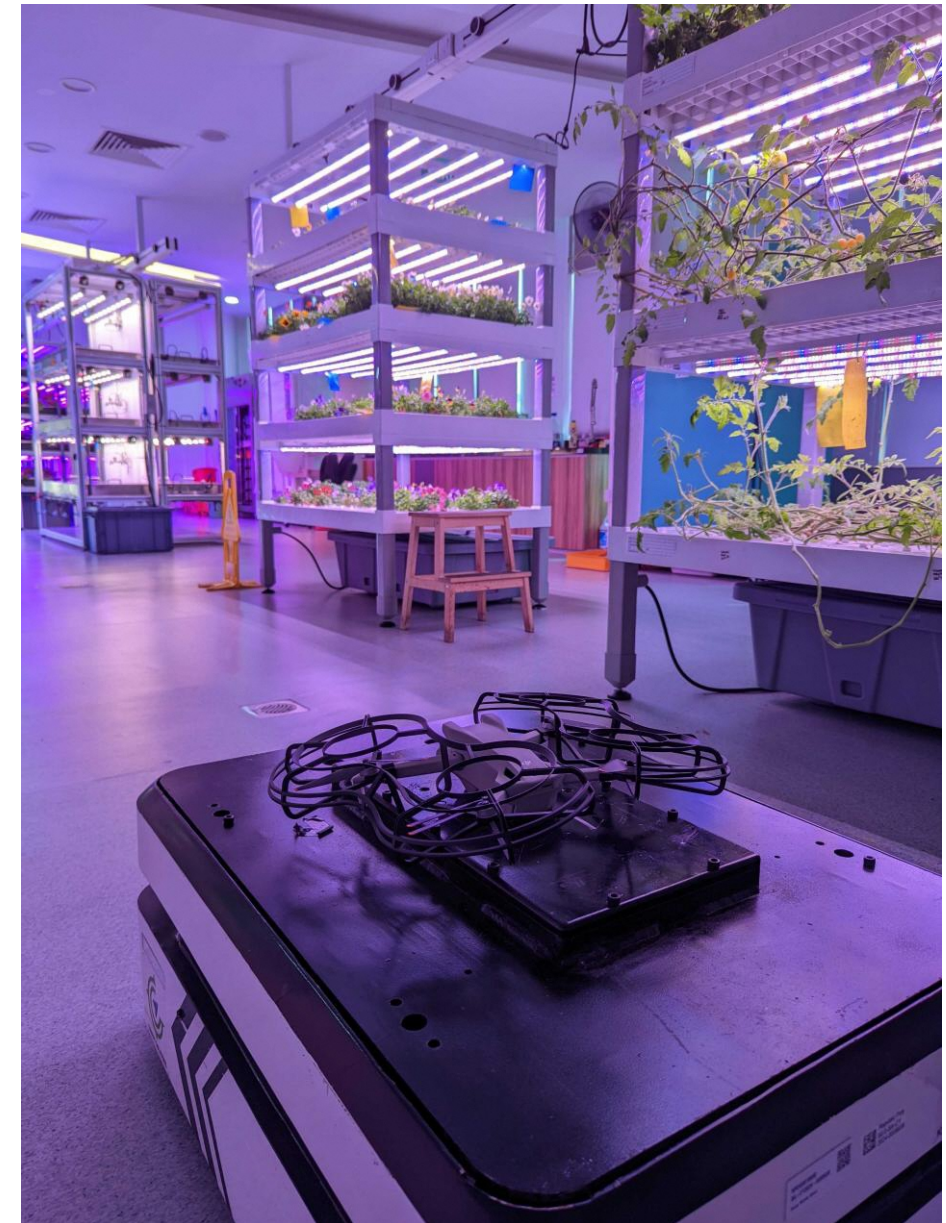
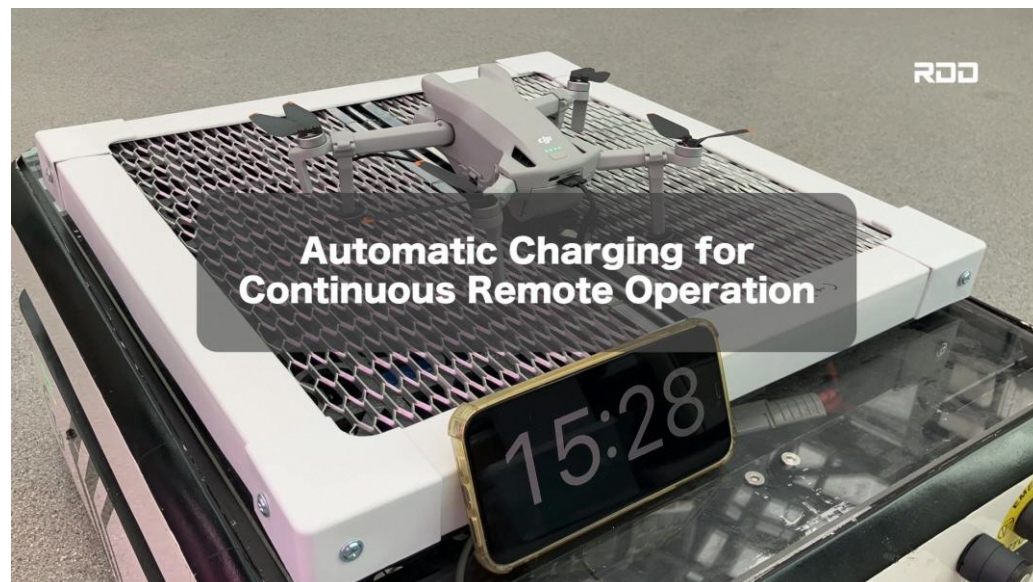
Partners / Collaboration



Collaboration for Indoor flight (Singapore)



Collaboration for auto charging system (Poland)



Collaboration for Agriculture and Indoor flight (Singapore)

How we work / collaborate

We are looking for potential collaboration opportunities

1. Joint solution development: Co-creating innovative applications
2. Hardware partnerships: Integration with drone and robotics companies
3. Proof of Concept for industry applications:
 - Agricultural monitoring and precision farming



RDD