



Empowering Youth, Transforming Lives

Address: Plot No. 251, Udyog Vihar, Phase – IV, Gurugram, Haryana-122015

AVPL International (AITMC Ventures Ltd.)
Pioneering the Drone Ecosystem



Is a leader in

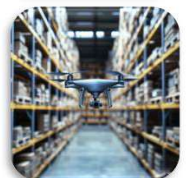
- Drone technology
- Precision agriculture
- Geospatial intelligence
- Defense
- Other drone-based solutions

Mapping, Scanning, and Surveillance

Established in 2016 by-

Ms. Preet Sandhu and Mr. Deep Sihag Sisai,

AVPL is committed to cutting-edge innovation, workforce empowerment, and sustainable industry transformation



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AVPL is at the forefront of technological advancements and skill development
with operations across INDIA

❑ **Our Presence**

- Tamil Nadu
- Haryana
- Rajasthan
- Madhya Pradesh
- Bihar
- Gujarat
- Punjab
- Dadra & Nagar Haveli
- Assam
- Telangana
- Uttar Pradesh
- Delhi
- West Bengal
- Maharashtra
- Karnataka
- Uttarakhand
- Andaman And Nicobar
- Andhra Pradesh

❑ **Network of**

50 Global Incubation & Skill Hubs (GISH)



❑ **20 World Incubation & Skill Hubs (WISH)**



Our Services



Capacity Building

**THE COMPANY'S DIVERSIFIED
PORTFOLIO**



**Drone as a Service
(DaaS)**



Drone Manufacturing

DGCA-approved Remote Pilot Training Organization (RPTO)

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Drone as a Service - DaaS Applications

DaaS delivers aerial drone surveillance to help businesses gather data for smarter, more informed decisions



Mapping



Survey



Surveillance



Scanning



Logistics



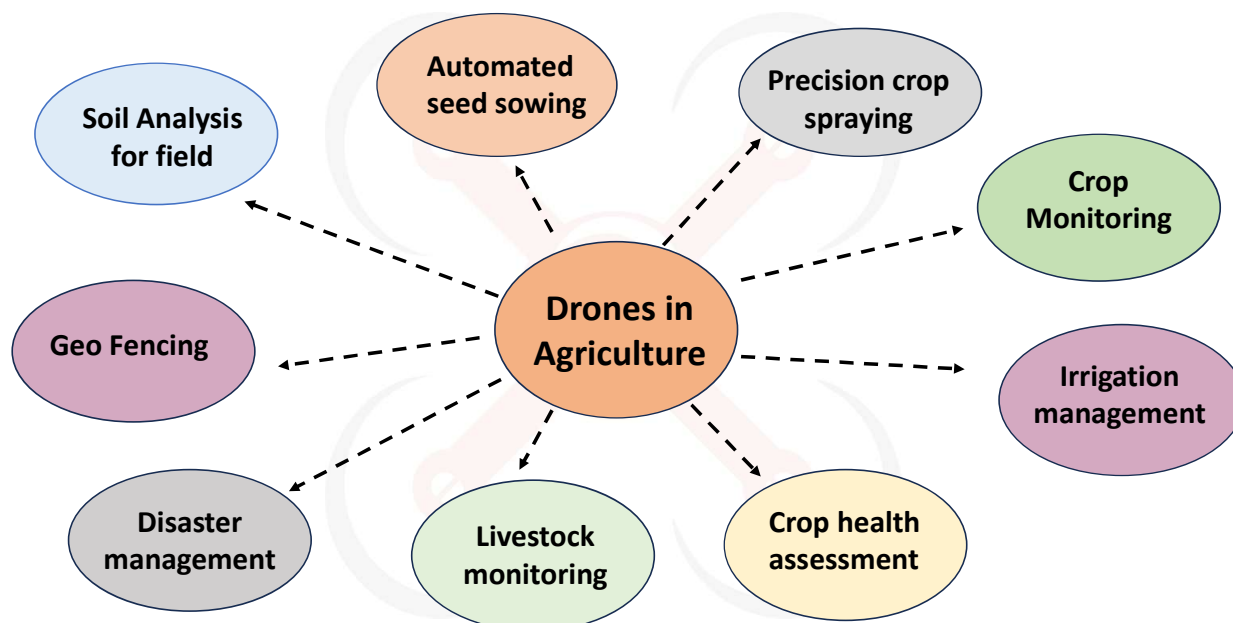
Monitoring



Spray

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Applications of Drones in Agriculture



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Key Partnerships



National Skill Development Corporation



IIT Kanpur



Ministry of Rural Development



Haryana State Rural Livelihood Mission



Assam State Rural Livelihood Mission



Rajasthan State Rural Livelihood Mission



NSDC International



All India Council for Technical Education

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SOME OF THE SUCCESS STORIES



Number of pilot trained 200



Capacity building
120 in Haryana and 936 Rajasthan

To encourage drone use



Created custom hiring
centres in the state of Uttar
Pradesh

providing service and
maintenance part from one
place



Set up big assembly
facility in Bihar

can make 24,000
drones a year



50 AeroVision Labs in Technical Higher education
Institutions with Ministry of Education



Empowered over 100,000 professionals till date

Created entrepreneurs
at village level
contributing in precision
agriculture

Post completion of training

- they have used drone for **spray purpose**, contributing towards **increasing the yield**, control on water wastage etc.

Global Incubation & Skill Hubs (GISH)

- will build **communities of drone users** & contribute to their respective areas

Scope to address Challenges

Healthcare Deliver life-saving medical supplies, save children's lives in emergencies

Search & Rescue: Strengthening local capability of the first responders

Building ecosystem of innovation to help governments & citizens to learn and **contribute to Agriculture produce and rural economy**

Create **opportunities for local drone companies** to provide services to their governments

Community and government engagement, and **sensitization**



Future-Ready Capacity Building

Setting up of Capacity building centres training the trainers, pilots, drone uses in agriculture and other applications

Centre of Excellence in Academic Institutions for entrepreneurial and Research purposes



Drone as a Service (DaaS)



Drone Training

Creating local hubs for Drone maintenance, assembly, manufacturing

Creating knowledge exchange channels with AVPL existing ecosystem and AARDO member countries



Manufacturing

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Unique Model - Drone For SDG's

WAY FORWARD



INDUSTRY
(Business Connect)



ACADEMIA
(Innovation & Research)

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You Can Reach Us @:

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Thank You!

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Reference slide

Applications of Drones in Agriculture

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Soil Analysis for field <ul style="list-style-type: none"> Analyzes soil type, nutrients, and moisture levels for better crop selection. Helps in precision irrigation and fertilizer application. 2. Seed Sowing <ul style="list-style-type: none"> Addresses labor shortages by automating seed planting. Reduces planting costs by up to 85% with efficient seed and nutrient distribution. 3. Precision Crop Spraying <ul style="list-style-type: none"> Reduces pesticide and fertilizer use by 25-30%. Ensures precise chemical application, improving yield and reducing health hazards. Saves 90% of water compared to manual spraying. 4. Crop Monitoring <ul style="list-style-type: none"> Uses multispectral imaging for real-time health assessment. Enables early detection of diseases and pest infestations. | <ol style="list-style-type: none"> 5. Irrigation Management <ul style="list-style-type: none"> Identifies soil moisture levels using thermal imaging. Prevents water wastage and optimizes irrigation efficiency. 6. Crop Health Assessment <ul style="list-style-type: none"> Uses NDVI and other spectral indices for early stress detection. Helps in timely interventions to prevent crop losses. 7. Livestock Monitoring <ul style="list-style-type: none"> Tracks and locates livestock with RFID integration. Detects health issues and predator threats using thermal sensors. 8. Disaster Management <ul style="list-style-type: none"> Monitors weather conditions and predicts risks. Provides real-time data for quick response during disasters. 9. Geo-fencing & Wildlife Protection <ul style="list-style-type: none"> Detects and alerts farmers about wild animals entering fields. Prevents crop damage, especially during night-time. |
|---|---|

Reference: <https://www.agriculturejournal.org/volume10number3/the-application-of-drone-technology-for-sustainable-agriculture-in-india/>

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