



FUTURE TECH DRONE CAREERS

INTRODUCTION TO DRONES



UAV - Unmanned Aerial Vehicle

- Remotely controlled by a human operator
- Autonomously controlled by onboard computers.

Nano Drones
< 250gms

Micro Drones
250gms - 2kgs

Small Drones
2kgs - 25kgs

Medium Drones
25kgs - 150kgs

Large Drones
> 150kgs



Recreational

N Mi S M L



Survey & Mapping

N Mi S M L



Surveillance

N Mi S M L



Agricultural

N Mi S M L



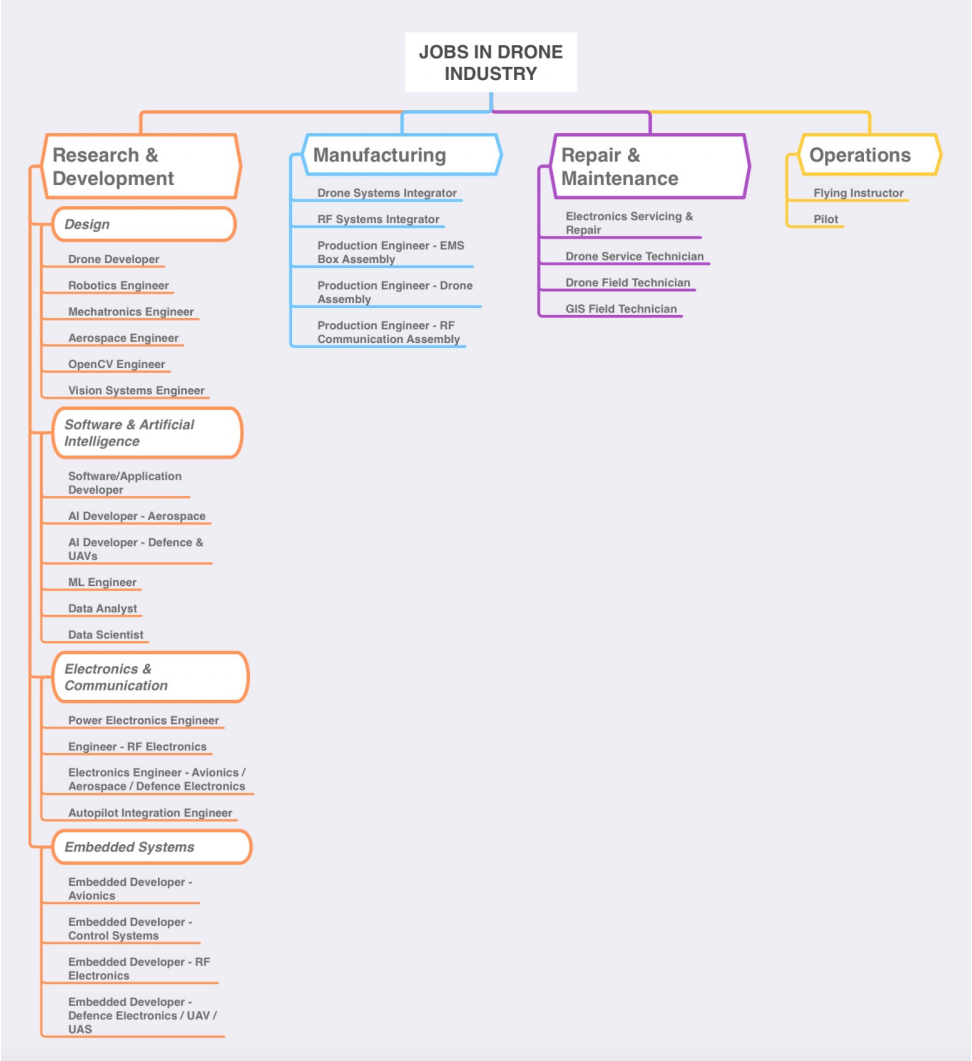
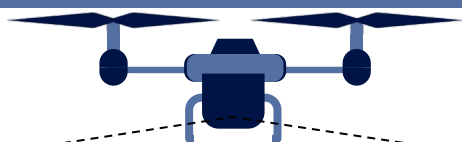
Logistics

N Mi S M L

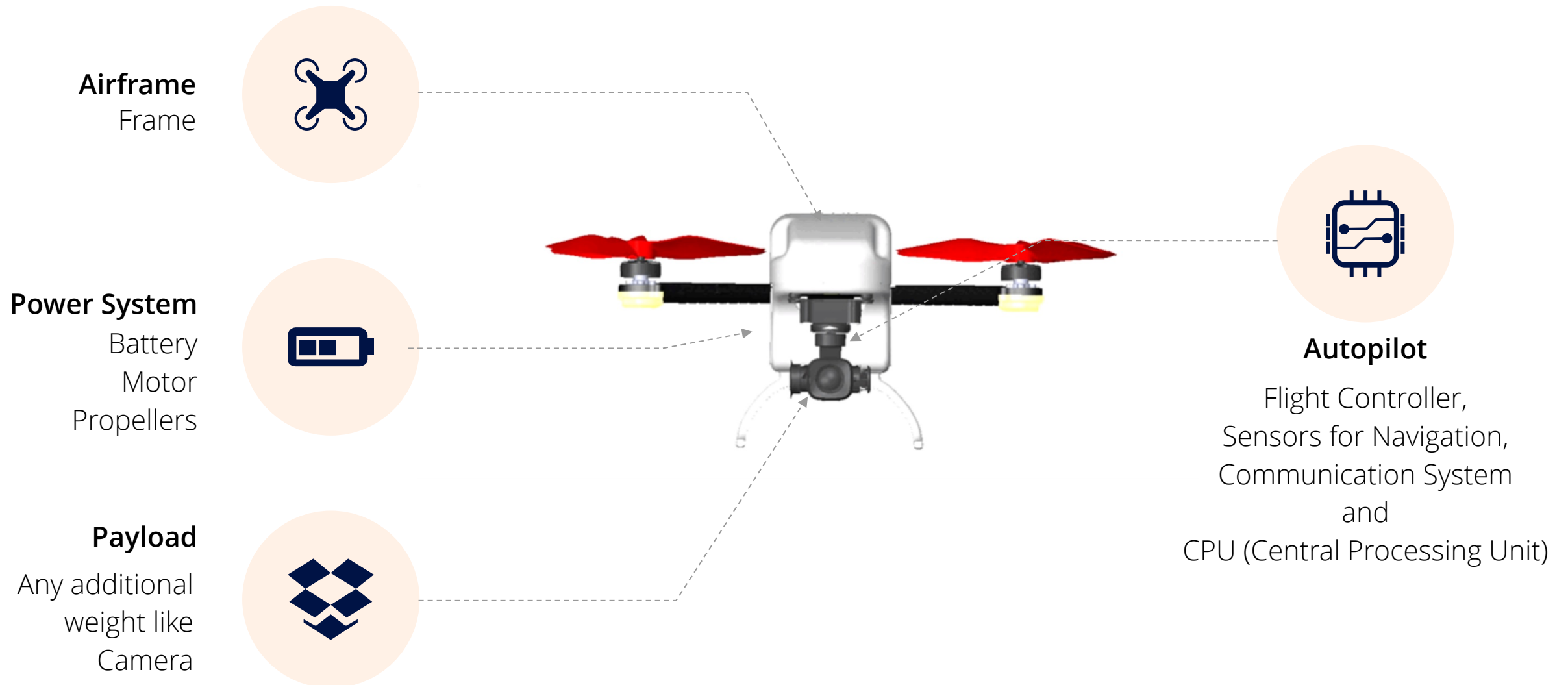
INDIAN DRONE INDUSTRY GROWTH



JOB OPPORTUNITIES & SKILL REQUIREMENTS



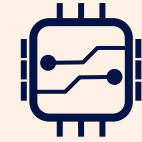
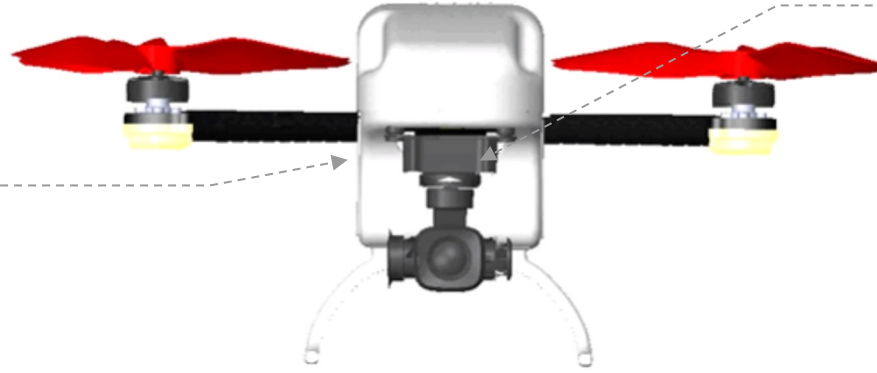
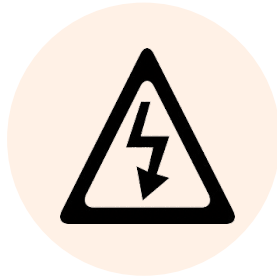
WHAT MAKES A DRONE?



SENSOR MANAGEMENT ENABLES UNMANNED FLIGHT

Power System

EMF Generated
by High Current
flow Directly
impacts sensors

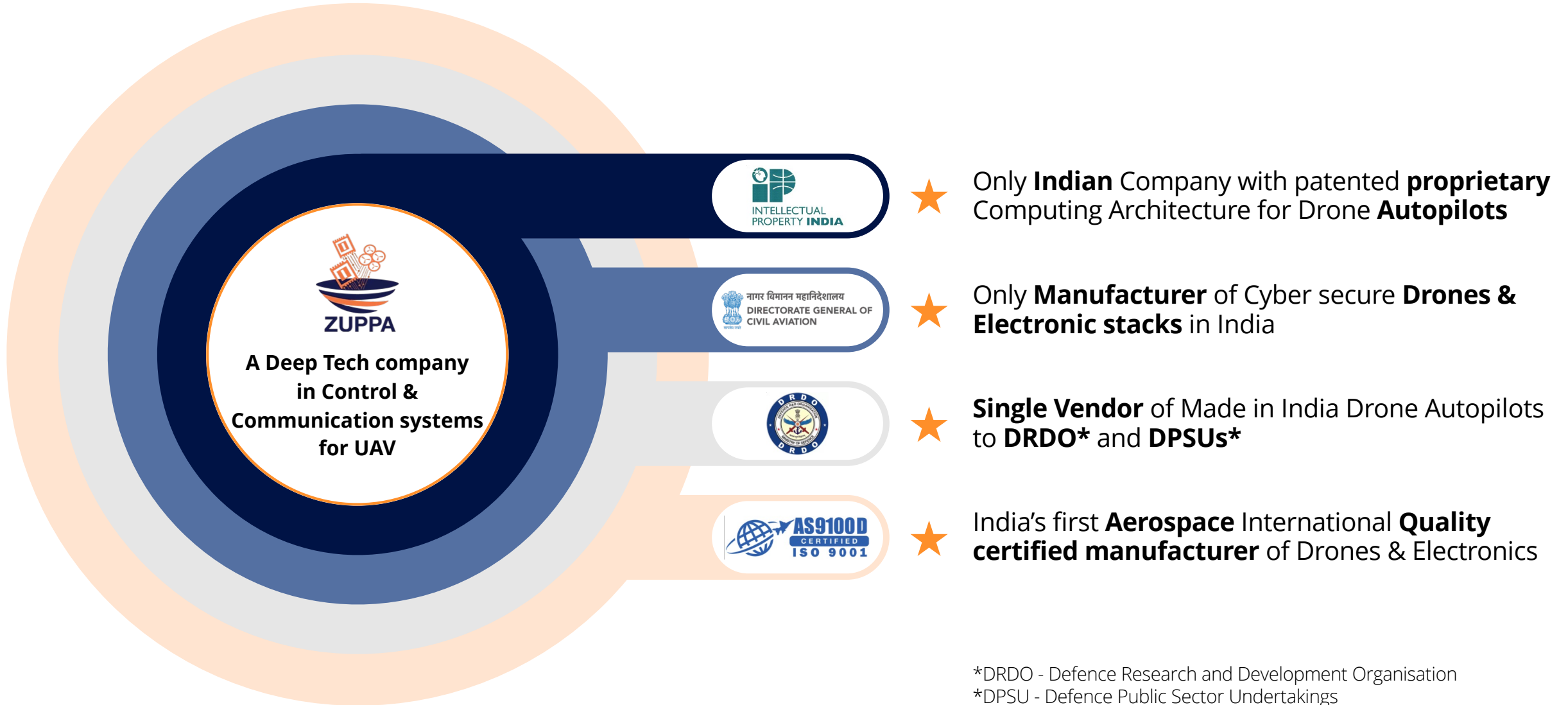


Autopilot

Inputs from Sensors like
Barometer, Magnetometer,
GPS, Accelerometers, IMU,
Gyro....Are the sensory
organs of the Autopilot

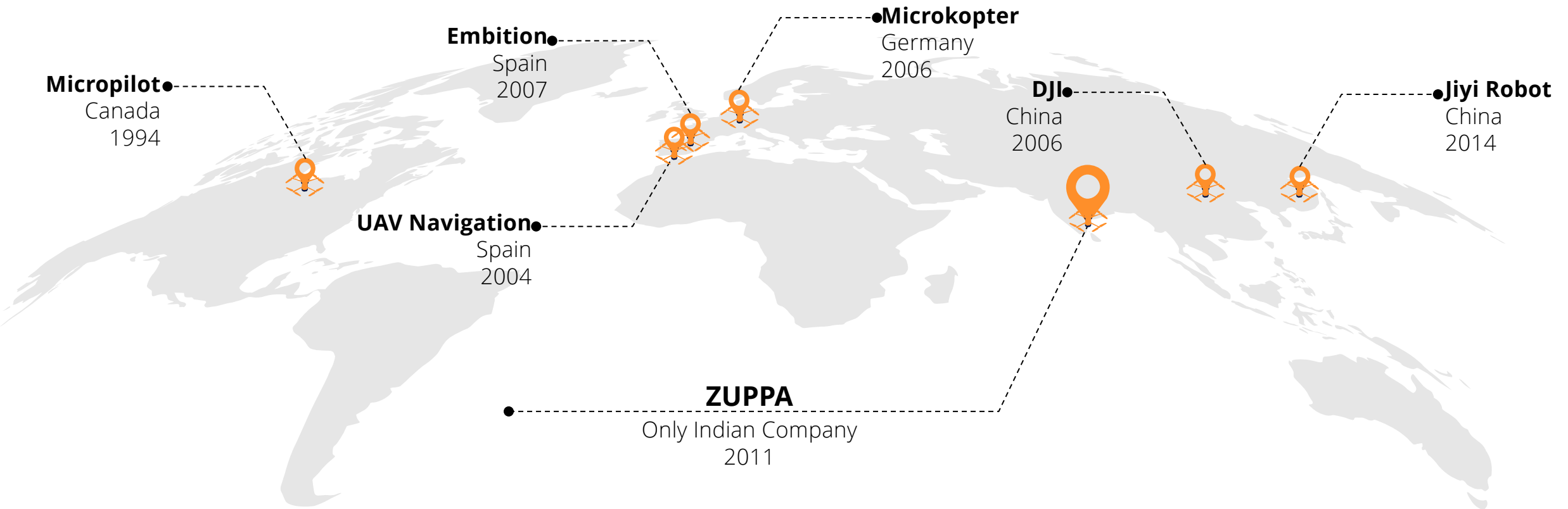
Critical Conflict To Be Understood and Managed In Drones at every stage from
Product Development, Manufacturing, Maintenance, Repairs & Operations

WHO IS ZUPPA?



PROPRIETARY AUTOPILOT COMPANIES

There are only **7 companies in the world**, with Proprietary Autopilot systems.



AWARDS & ACCOLADES



PMO Visits our stall for **Unveiling of India's first indigenous micro drone - Ajeet Mini**.



Defence Minister inspects and discuss with us on **deployment of Ajeet Mini Drones across Forward areas**.



Zuppa wins **DISC4 Idex Challenge** and bags **₹3Cr Project Grant from Indian Air Force** for development of **"AIRMINE" Anti Drone Detection System**



ELCINA Recognizes us as a **"Promising Technology Company 2024"** in Strategic Electronics Summit (SES 2024)



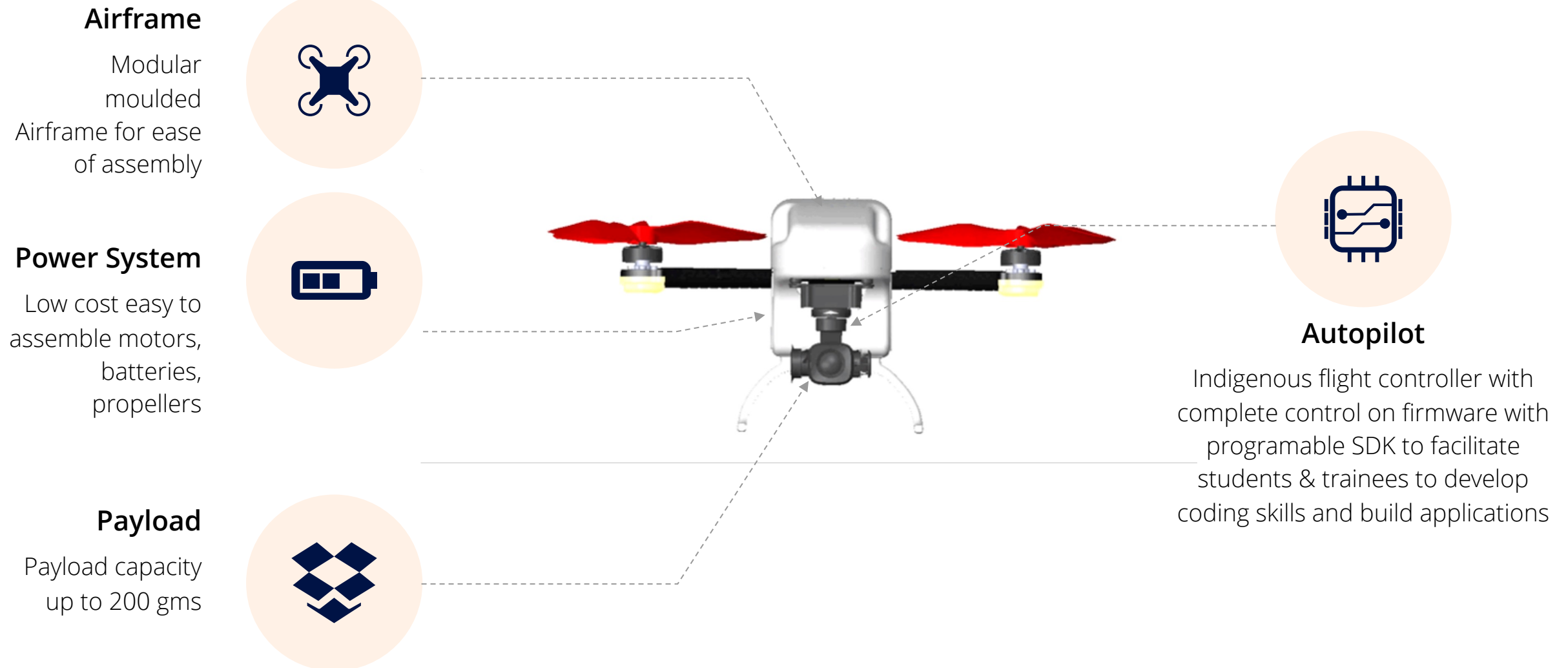
Drone Labs

**Aatmanirbharta
Thru Development of
Human Capital**



AJEET MINI : LOW COST DGCA TYPE CERTIFIED DRONE

Drone Pilot License Not Needed to Fly Micro Category Ajeet



ZUPPA DRONE LABS & THEIR OUTCOMES

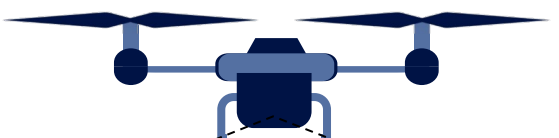
MRO Lab



Operations

Job	Skill	Outcomes
Pilot	Flying & Operating	Flying (Manual, Altitude Hold, Position Hold, Fully Automatic) GCS Configuration & Operations Flight path planning for different end-use cases Emergency situation handling
Technician	Repair & Maint.	Drone Anatomy, Structure, Design & GCS Drone / Electronic Box / Mechanical Assembly & Disassembly Wireless communication systems fitment, integration & operations Micro-Tools Handling & Operations
Quality Assurance	Quality Testing & Certification	Mechatronic Calibration Techniques Avionics Configuration Sensitive Electronics EMI/EMC shielding techniques Data Logging & Analysis with .log & .csv

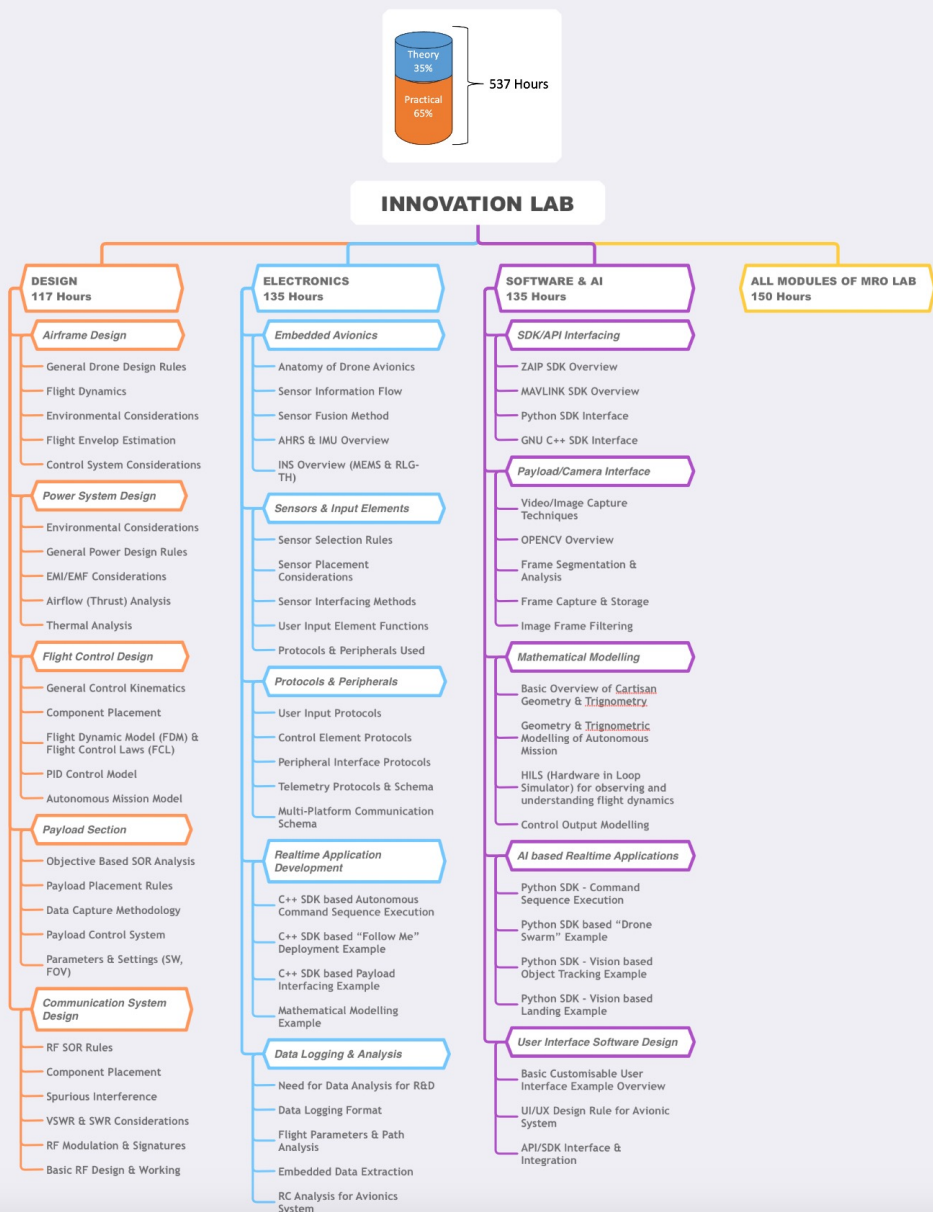
Operations + Coding



Development Lab

Job	Skill	Outcomes
Drone Developer	Embedded Developers	Embedded Programming for Airborne Systems & Realtime Applications using C/C++ Embedded Architecture & System Layout Power Electronics System
Appln. Developer	Software Developers	SDK usage for Customised missions through programming Programming of mission & task for Avionic Systems AI programming using Python & ZAIP SDK for Realtime & customised Vision-based Drone mission AI Dataset creation for UAV Systems & ML Dataset Upgradation
System Integrators	System Integration & Testing	Data Recovery Operations Onboard Computer usage & integration with UAV systems Deployment of custom trainer model & datasets on Realtime drone system OpenCV integration of Image segmentation, EDGE differentiation & Object tracking

MRO LAB & INNOVATION LAB – CONTENT & MODULES



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