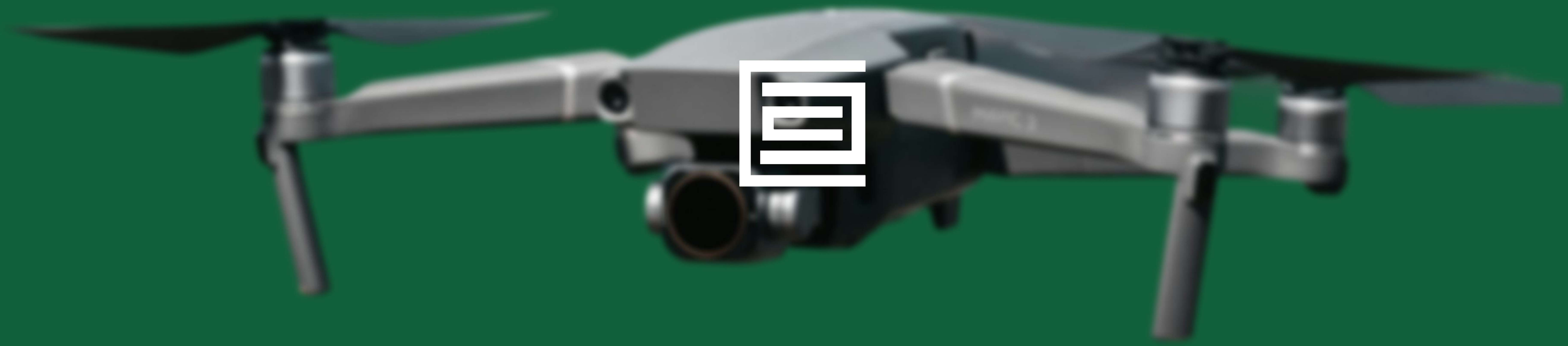
E-Cube



Elevating Possibilities

We design and deploy innovative drone solutions to transform delivery systems across industries. Leveraging advanced UAV and EV technologies powered by AI, we bridge the last mile with phygital connectivity for healthcare, agriculture, e-commerce, disaster relief, and smart cities. Our mission is to deliver timely, cost-effective, and high-quality solutions that drive efficiency and customer delight.

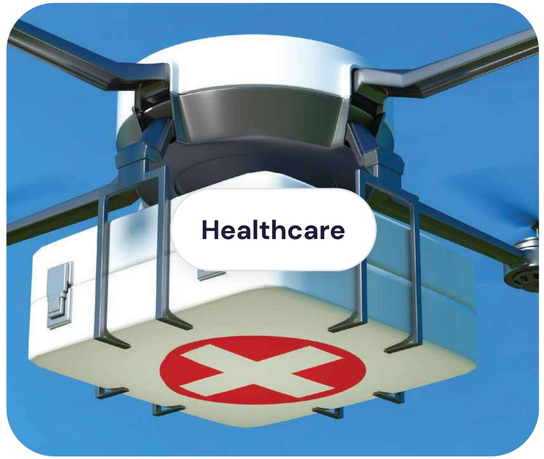
Our Directors

Mr. Vivek Samba Siva Bollam

Mr. Prasad Rao Pasam

Ground Floor, 5-90-65, 4th Lane, Chandramouli Nagar, Guntur, Andhra Pradesh, India PIN Code: 522007

Use Cases

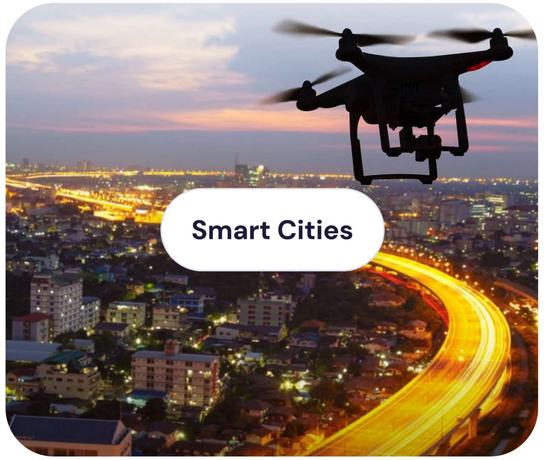

Healthcare

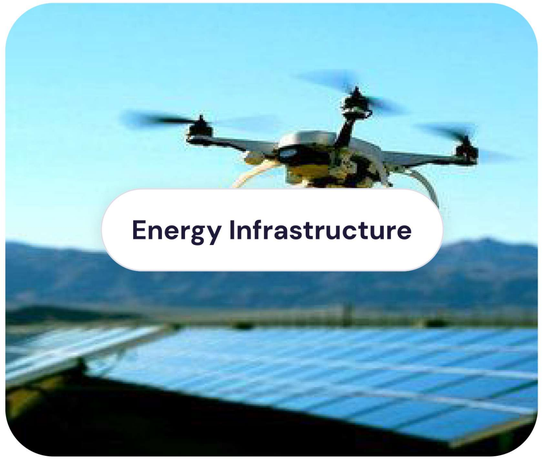

Disaster Relief


E-Commerce
Domino's


Agriculture


Surveillance & Security


Smart Cities


Energy Infrastructure

Use Cases


Transport & Logistics


Wildfire & Environment Monitoring


Construction & Real Estate


Mining & Geospatial Surveying


Education & Research

Healthcare

Emergency delivery of blood, vaccines, and critical medicines to remote areas.

Challenge

Delays in critical medical supplies due to distance and infrastructure limitations.

Our Solution

- **Fast & Precise:** 70 mph speed, delivery within 45 mins.
- **Essential Cargo:** Medicines, vaccines, blood kits (temperature-controlled).
- **High Accuracy:** Tethered delivery with 45 cm precision.
- **Reliable in All Conditions:** Operates in rain, heat, hills, and remote terrains.

Why it Matters

- **Ensures critical healthcare access in rural regions.**
- **20x more cost-effective than conventional transport.**
- **Sustainable & eco-friendly with zero emissions.**

Disaster Relief

Swift deployment of relief packages during natural disasters.

Challenge

Delayed response in disaster-affected areas due to blocked roads and damaged infrastructure.

Our Solution

- **Rapid Deployment:** Drones reach disaster zones within minutes.
- **Aerial Assessment:** Real-time monitoring of affected areas for effective relief planning.
- **Essential Supplies Delivery:** Food, water, medicine, and survival kits.
- **Search & Rescue Support:** Thermal imaging for locating survivors in debris.

Why it Matters

- **Faster disaster response, minimizing casualties.**
- **Cost-effective compared to helicopters and trucks.**
- **Access to remote and hazardous locations.**

E-Commerce

Fast delivery of groceries, electronics, clothing, and essentials.

Challenge

Slow and expensive last-mile delivery, especially in rural and congested urban areas.

Our Solution

- **30-Minute Deliveries:** Groceries, electronics, and essentials delivered quickly.
- **AI-Driven Navigation:** Optimized delivery routes avoiding traffic congestion.
- **Lightweight Cargo Handling:** Designed for small to medium-sized packages.
- **Scalable Operations:** Can manage high volumes with swarm robotics.

Why it Matters

- **20x faster than traditional delivery methods.**
- **Reduces logistics costs significantly.**
- **Enhances customer experience and e-commerce penetration.**

Agriculture

Timely supply of fertilizers, seeds, pesticides, and farming tools.

Challenge

Inefficient distribution of fertilizers, pesticides, and monitoring of crop health.

Our Solution

- **Precision Spraying:** Drones apply pesticides and fertilizers with minimal waste.
- **Remote Crop Monitoring:** AI-driven imaging for detecting diseases and soil health.
- **Smart Irrigation:** Water distribution analysis to optimize irrigation.
- **Seed Dropping:** Efficient aerial seeding for large farmlands.

Why it Matters

- **Higher yield and better resource efficiency.**
- **Reduced labor costs and time savings.**
- **Eco-friendly with minimal chemical runoff.**

Surveillance & Security

Real-time surveillance and quick response monitoring vast areas.

Challenge

Limited real-time monitoring for law enforcement, industrial security, and border control.

Our Solution

- **Live Aerial Surveillance:** 24/7 monitoring of sensitive areas.
- **Thermal Imaging & Night Vision:** Detects threats in low visibility.
- **Automated Alerts:** AI-powered anomaly detection.
- **Patrol & Perimeter Security:** Autonomous drone rounds in restricted zones.

Why it Matters

- **Enhances security response times.**
- **Reduces manpower costs for surveillance.**
- **Prevents crimes with proactive monitoring.**

Smart Cities

Identify issues promptly and assist in mapping city layouts for better resource management.

Challenge

Urban congestion, inefficient infrastructure maintenance, environmental monitoring.

Our Solution

- **Traffic Flow Optimization:** AI-driven real-time traffic monitoring.
- **Infrastructure Inspection:** Monitors bridges, roads, and pipelines for damage.
- **Air Quality & Pollution Tracking:** Monitors emissions for regulatory compliance.
- **Waste Management Efficiency:** Drones track waste disposal patterns.

Why it Matters

- **Better urban planning with real-time data.**
- **Reduces infrastructure repair costs.**
- **Improves city sustainability and livability.**

Energy Infrastructure

Survey power lines and solar farms, providing real-time data to technicians.

Challenge

High-risk and costly inspection of power grids, solar farms, and oil pipelines.

Our Solution

- **Automated Grid Inspection:** Detects power line faults using thermal imaging.
- **Solar Panel Monitoring:** Identifies inefficiencies in solar farms.
- **Pipeline Surveillance:** Detects leaks and corrosion in oil & gas pipelines.
- **Wind Turbine Maintenance:** Inspects turbines in offshore and remote locations.

Why it Matters

- **Improves worker safety by eliminating risky manual inspections.**
- **Reduces downtime and maintenance costs.**
- **Enhances efficiency in renewable energy operations.**

Transport & Logistics

Enhance the efficiency of transporting packages.

Challenge

High transportation costs, inefficiencies in last-mile delivery, and congestion in urban logistics.

Our Solution

- **Autonomous Delivery Drones:** AI-powered flight for optimized routes.
- **High-Capacity Cargo Handling:** Can carry lightweight to medium payloads.
- **Warehouse to Consumer Direct Delivery:** Reducing dependency on road transport.
- **Real-Time Tracking:** GPS-enabled for precise delivery tracking.

Why it Matters

- **Reduces delivery costs by 50%.**
- **Minimizes delays in supply chain logistics.**
- **Eco-friendly alternative to fuel-based transport.**

Wildlife & Environment Monitoring

Real-time data on air quality, water levels, and wildlife.

Challenge

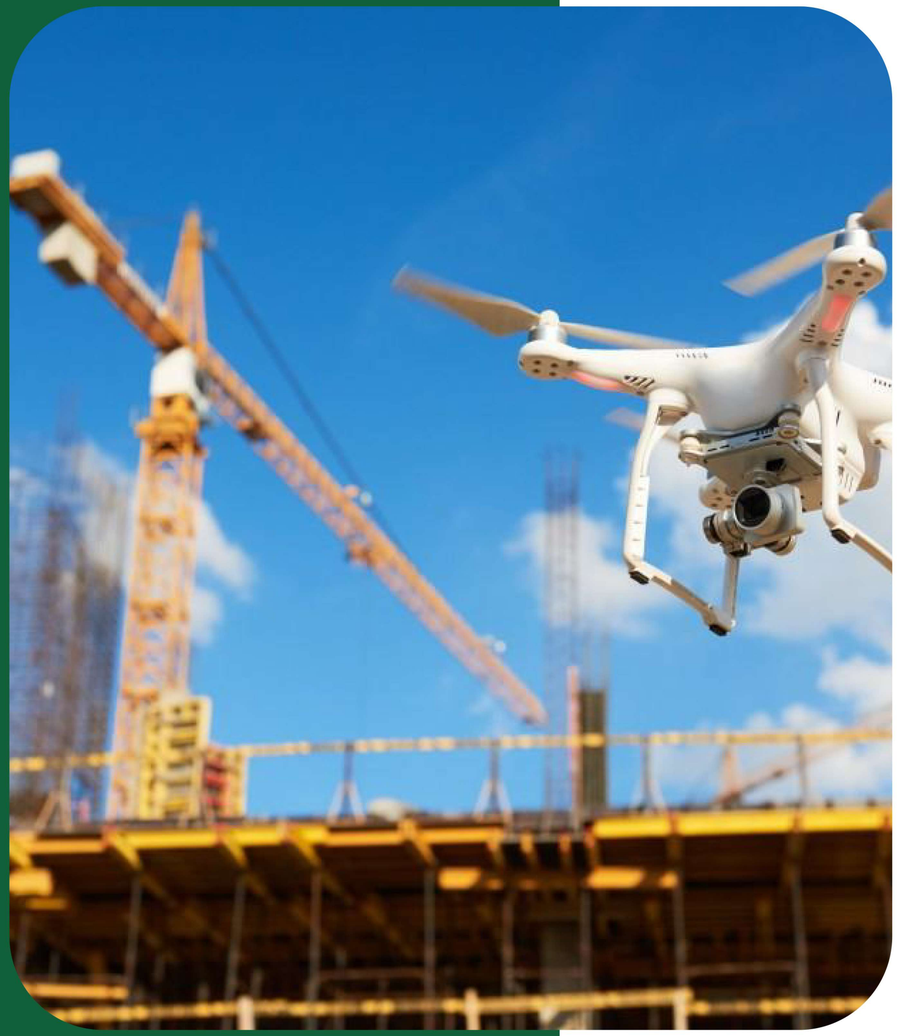
Difficulties in tracking wildlife, preventing poaching, and monitoring environmental changes.

Our Solution

- **Aerial Wildlife Surveys:** Real-time monitoring of endangered species.
- **Anti-Poaching Surveillance:** Thermal imaging to detect illegal activities.
- **Forest Health Assessment:** Tracks deforestation and habitat loss.
- **Air & Water Quality Monitoring:** Collects pollution data for environmental agencies.

Why it Matters

- **Improves wildlife conservation efforts.**
- **Early detection of environmental hazards.**
- **Reduces poaching activities with constant aerial surveillance.**



Construction & Real Estate

Quick aerial surveys, accurate mapping, and improved safety.

Challenge

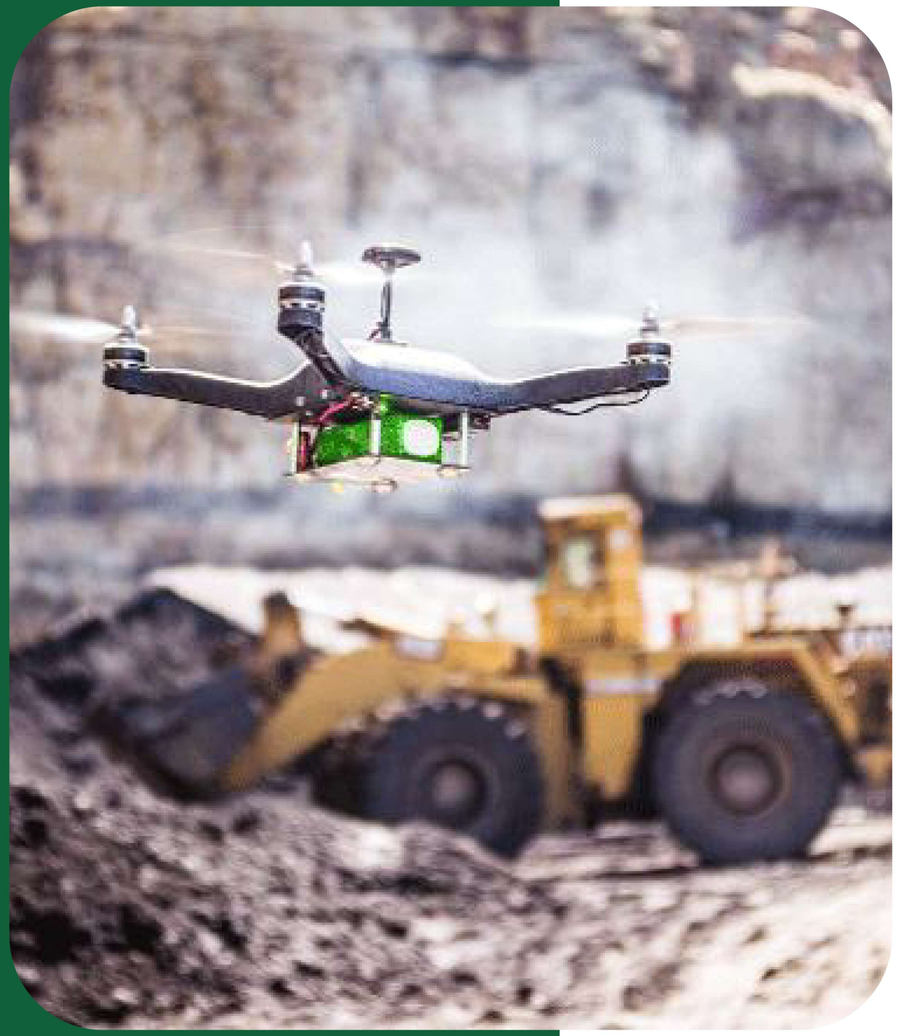
Slow progress tracking, high surveying costs, and safety risks in large construction sites.

Our Solution

- **3D Mapping & Site Surveys:** High-resolution imaging for pre-construction analysis.
- **Progress Monitoring:** Weekly aerial reports for project managers.
- **Safety Compliance Checks:** Detects hazards and unsafe conditions on sites.
- **Marketing & Virtual Tours:** Drone footage for real estate promotions.

Why it Matters

- **Reduces project delays and cost overruns.**
- **Enhances worker safety by reducing on-site risks.**
- **Improves investor confidence with real-time project visibility.**



Mining & Geospatial Surveying

High-resolution aerial imagery and accurate data collection.

Challenge

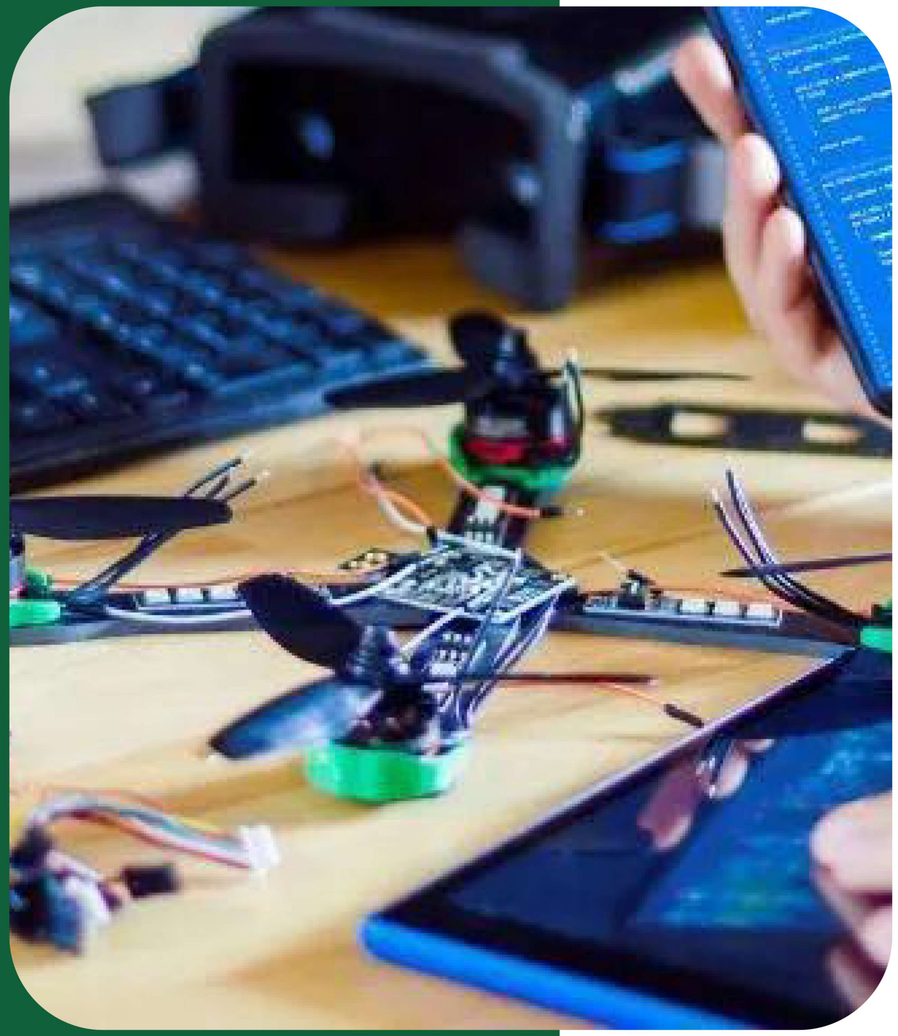
Expensive and time-consuming land surveys, safety hazards in mine exploration.

Our Solution

- **LiDAR & Thermal Imaging:** Provides detailed underground mapping.
- **Mine Safety Inspections:** Identifies structural weaknesses remotely.
- **Volume Estimation:** Measures extracted material accurately.
- **Real-Time Environmental Impact Monitoring:** Tracks land changes due to mining.

Why it Matters

- **Reduces surveying time by 70%.**
- **Improves safety in hazardous mining environments.**
- **Optimizes resource extraction for efficiency.**



Education & Research

Gathering real-time data, and enhancing interactive learning.

Challenge

Limited access to real-world drone applications for students and researchers.

Our Solution

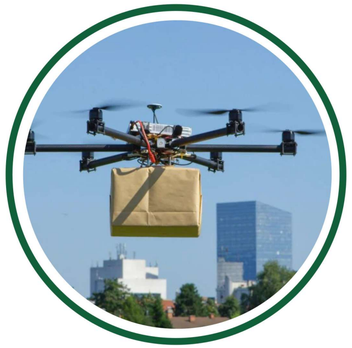
- **Drone Training Programs:** Hands-on learning experiences for students.
- **Academic Research Support:** AI & machine learning applications in drone technology.
- **STEM Learning Initiatives:** Encourages innovation in schools and universities.
- **Industry Collaboration:** Partnerships with institutions for R&D.

Why it Matters

- **Creates skilled drone pilots and engineers.**
- **Advances research in AI-driven UAV technology.**
- **Encourages new startup ideas and innovations.**

Our services

What we do



We provide quick delivery for businesses and consumers with P1 and P2 drones, in 30 minutes or less.

ARK estimates: Drones may deliver food and packages in 30 minutes for under ₹100, with future cost cuts of 20X.

Customers are used to higher delivery fees; drone services will reshape shopping and boost e-commerce.

AI Driven Autonomous Flight Systems

01

Swarm Robotics

Multiple drones working in unison for high-volume, simultaneous deliveries.

02

Precision Payload Management

Specialized systems for secure transport of fragile items like medicines, vaccines, and critical supplies.

03

Solar-Powered Drones

Sustainable and self-sustaining technology for continuous 24/7 operations.

04

No Sound, Zero Emissions

Environmentally friendly, emission-free drones operating silently, ensuring minimal noise pollution and zero carbon footprint.

03

Cost & Speed

Delivery times 20x faster and 10x cheaper than traditional methods

Our products

Drones

Agri Drone

Land use plan, Geo Tagging, Precision farming, Soil Checks, Irrigation planning, Spraying etc.

Lidar Drone

LiDAR, or Light Detection and Ranging, uses laser pulses to create 3D maps of terrain and structures.

Hydrogen Drone

Liquid/ Gas Hydrogen fueled Drone to fly up to 7 hours.

EVs

EV Auto

Auto Rickshaw, Cargo, Mobile Retail Van, Mobile Food Cart, Buggy etc.

EV Tractor

Agricultural Machinery and Farm Implements.

EV Charges

EV Charging Station & Solutions and Battery Solutions

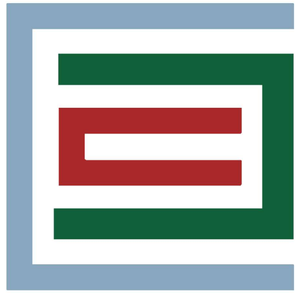
Our Target & Achievement by 2030

Thank you!

Dr. Prasad Rao Pasam

Co-Founder & Director

md@eeeipl.com | +91 98452 66900 | Guntur, Andhra Pradesh, India



E Cube