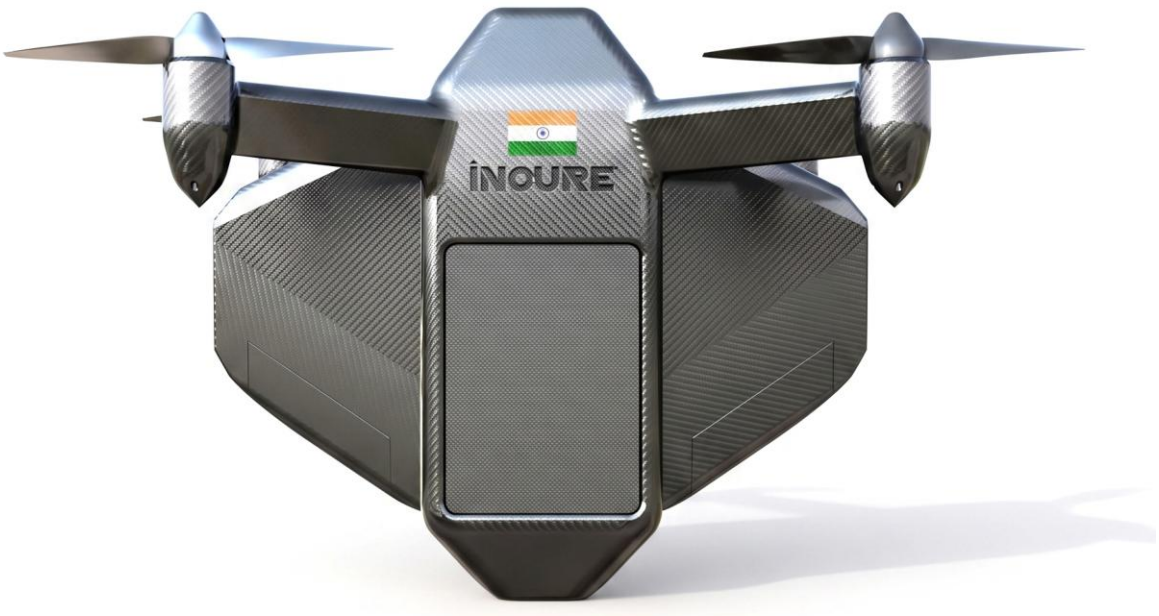
Autonomy
that reaches

everywhere.
everyone.



Autonomous deployments for the lives that cannot wait.

No pilots.

No ground crew.

No wasted minutes.

A sealed station, a fleet of VTOL aircraft and a rotary pod magazine — operating as one machine, commanded from anywhere, ready in seconds.

Patent applied — 202631076432 · Startup India Recognition — DIPP271008
Designed & built in India

THE SYSTEM

What Inoure actually is.

A patent pending, human-independent System-of-Systems for time-critical aerial payload delivery — five machines engineered as one autonomous loop. Indian patent application 202631076432: “Unmanned Autonomous Aerial Payload Deployment System-of-Systems featuring Multi-Configuration VTOL UAVs with Internal Loading Bay, Multi-Pod Rotary Storage Magazine Indexing, and Automated Active Release and Recovery via a Unified Remote Command Hub.”

01 Automated Tactical Ground Station

A sealed, weather-proof shell sited anywhere with power and a network — rooftop, border post, island, forest ridge. Solar-capable and unattended for months. Inside: a climate-controlled rotary indexing magazine holding 10+ mission pods (refrigerated, frozen or ambient) in round, rectangular or stacked custom configurations.

02 Mechanized Central Loading System

A fault-tolerant linear actuator drives the commanded pod from the magazine's transfer position straight into the aircraft’s internal bay. Mechanical lock, electrical mating and self-test complete in under five to ten seconds — no hands involved.

03 Multi-Configuration VTOL Aircraft

Carbon-fiber airframes sized to the mission, all sharing one principle: the payload rides inside, at the center of gravity. Zero pendulum swing, zero parasitic drag — full-speed, steep-pitch flight in crosswinds that force underslung drones to slow down or abort.

04 Active Capture & Recovery System

On return, a mechanical interception apparatus catches the aircraft , aligns it, recharges it and re-stows it in the shell. The node restocks from its own magazine and is mission-ready again within minutes.

05 Unified Remote Command Hub

One operator sends one coordinate and one pod code. The ecosystem does the rest — and if a node, link or GPS fails, a decentralized self-healing mesh re-routes the mission through the network.

THE DIFFERENCE

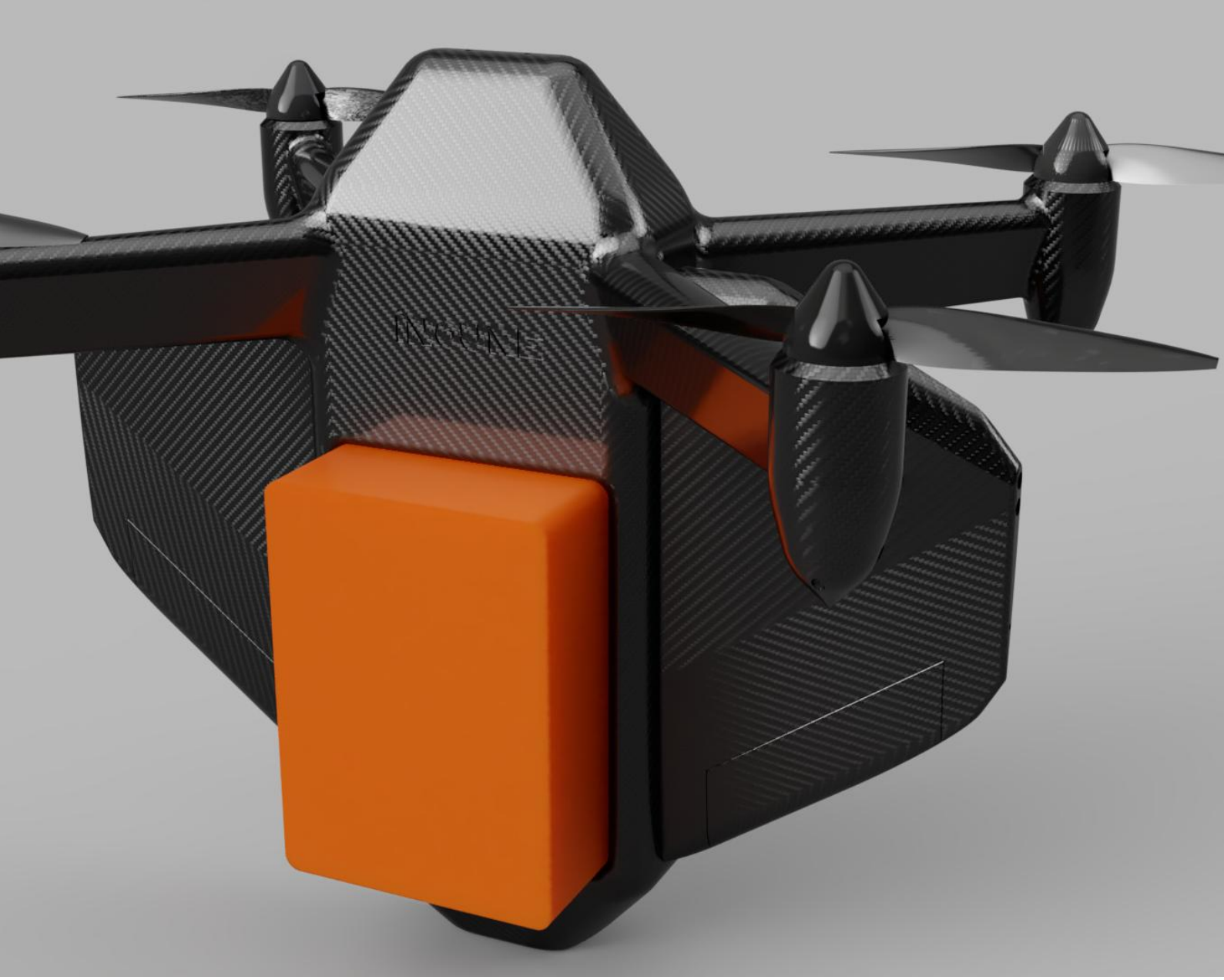
Why conventional drones fail here.

Every commercial delivery drone still depends on people at the launch site. Inoure removes them — and with them, the minutes that decide outcomes.

VECTOR	CONVENTIONAL DRONE	INOURE ECOSYSTEM
Loading	Hand-loaded by ground crew — 2–5 minutes, error-prone under stress	**Rotary magazine + actuator — pod locked, mated & tested in < 10 s**
Carriage	Payload slung outside — pendulum swing, sail effect, up to 50% range & efficiency loss in wind	**Internal bay at the centre of gravity — full speed through crosswinds**
Cold chain	No environmental control — biologicals degrade on the pad	**Climate-controlled pods, magazine to drop point**
Crew	Pilot + ground team per sortie; radio setup, manual hand-offs	**Zero humans in the loop — one remote command**
Recovery	Manual landing, retrieval, repack before the next flight	**Automatic capture, auto-recharge, auto-restow — sortie after sortie**
Failure mode	One downed link or crew delay stalls the mission	**Self-healing mesh re-routes through neighbouring nodes**

The result:

command-to-airborne in under a minute, from a station nobody staffs, in weather nobody flies.



THE AIRCRAFT

Payload at the core.

The mission pod rides inside the airframe, at the exact center of gravity. No swing. No drag. Full-speed flight in weather that grounds conventional drones.

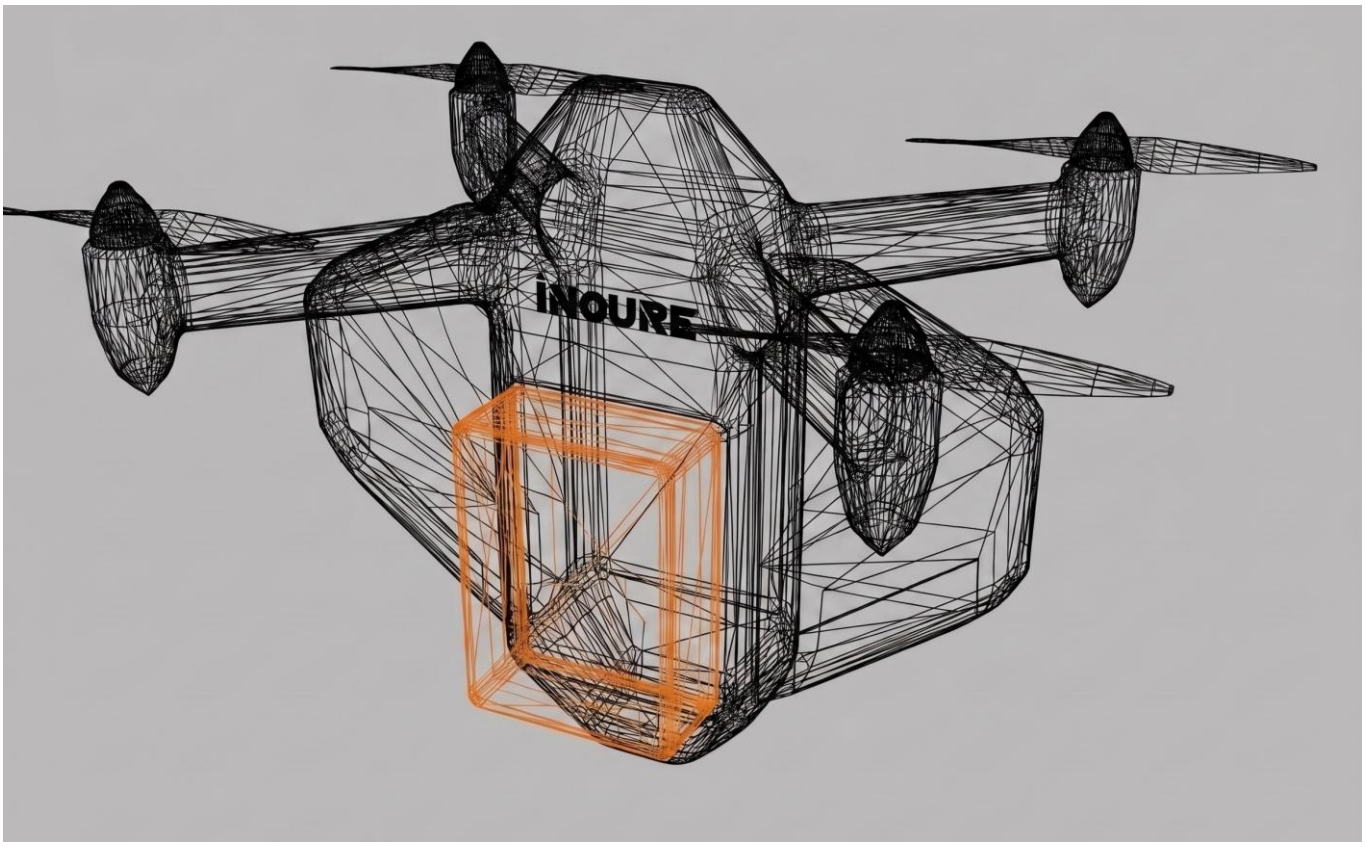
< 10 s
pod lock & self-test

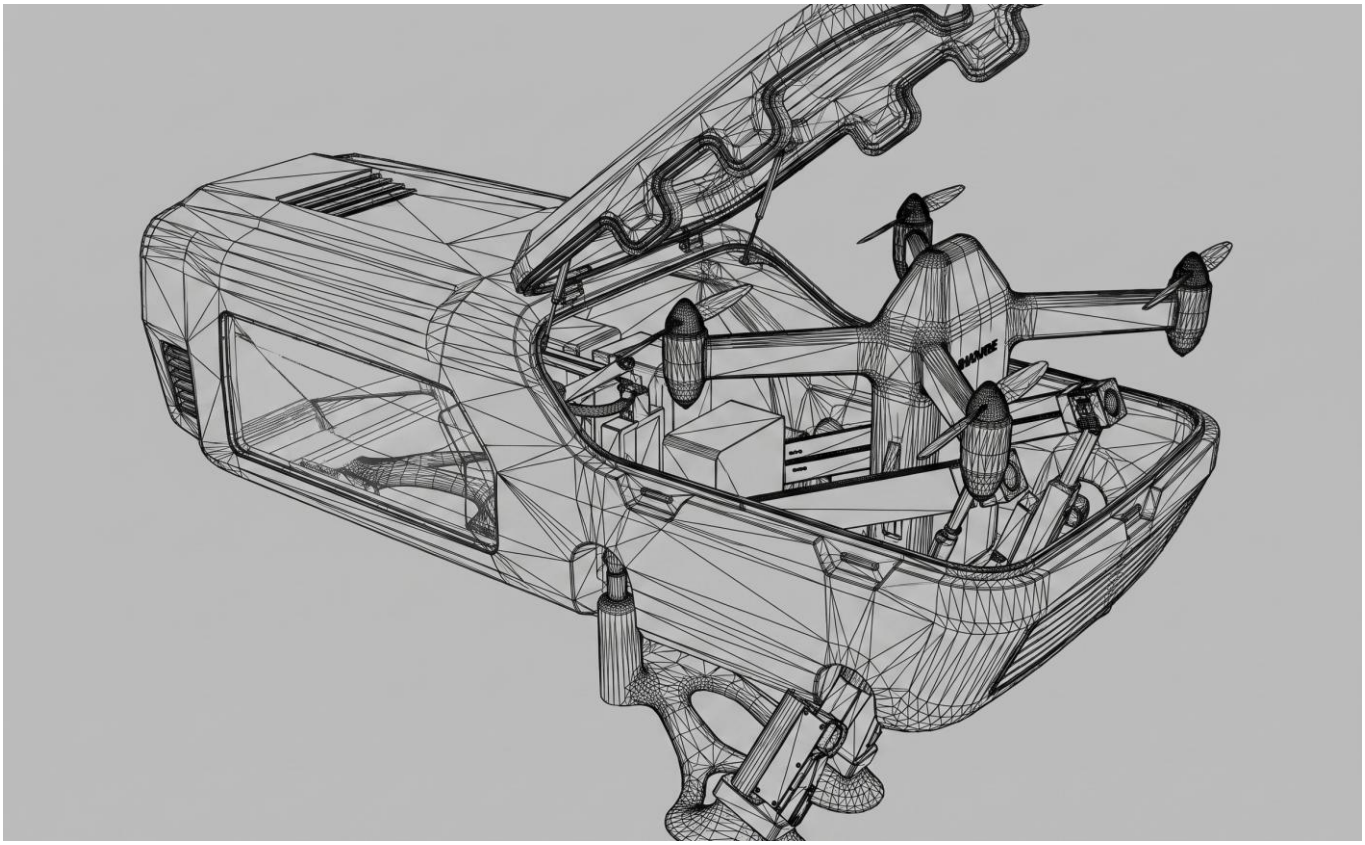
0
external drag surfaces

100%
autonomous mission loop

ENGINEERING

First Of Its Kind.

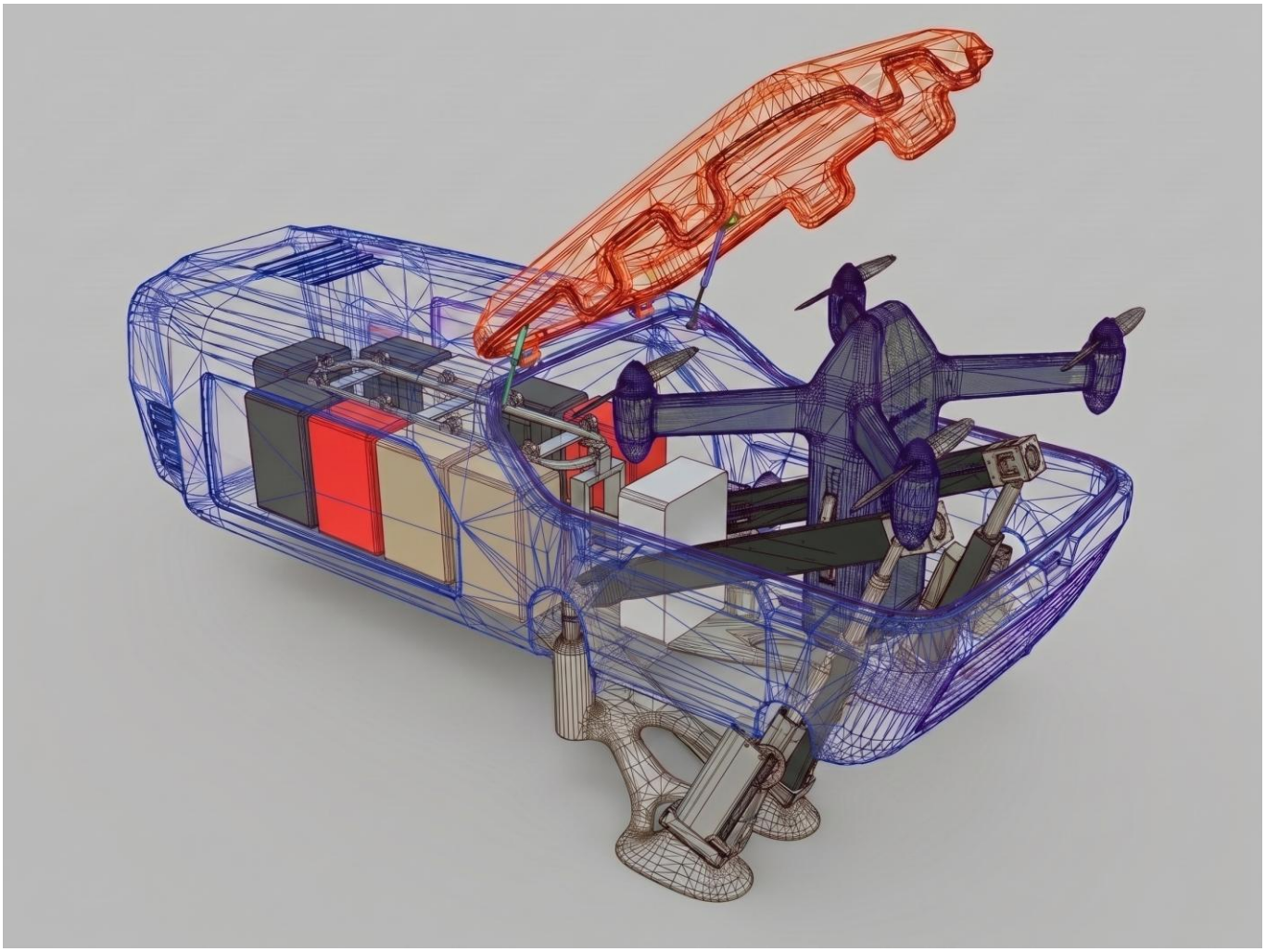


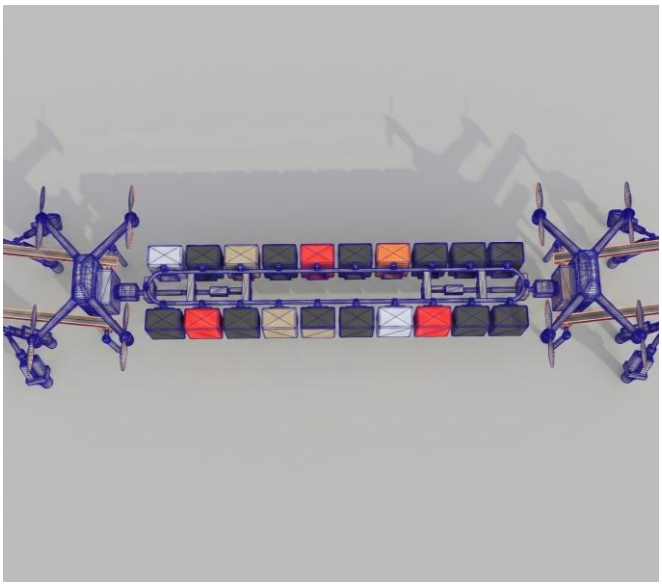


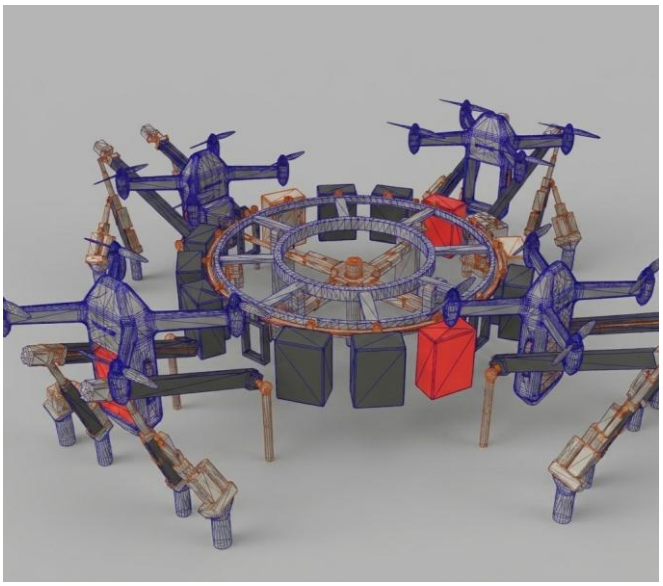
Autonomous Carbon-fiber Architecture · Failsafe Reliability · Commanded from 1 to 100s KM Away

THE STATION

A hangar. A magazine. A launch crew. In one box.







Sealed environmental shell · climate-controlled rotary pod magazine · mechanized central loading · active capture & recharge.

ONE PLATFORM · EVERY SERVICE

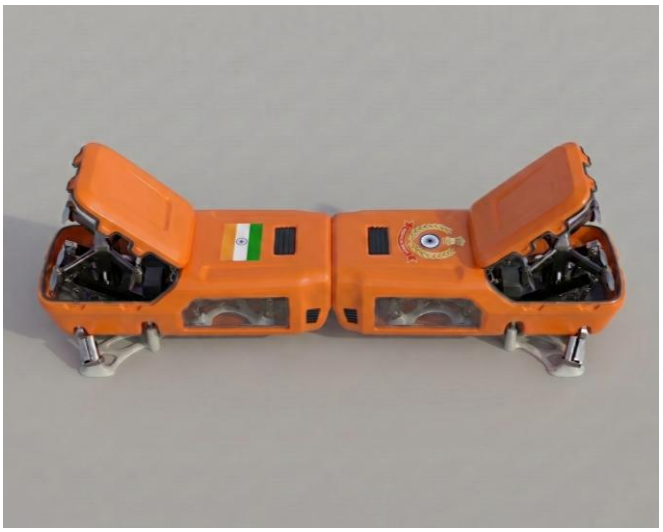
Wears your colours.

EMERGENCY MEDICAL

NDRF · DISASTER RESPONSE

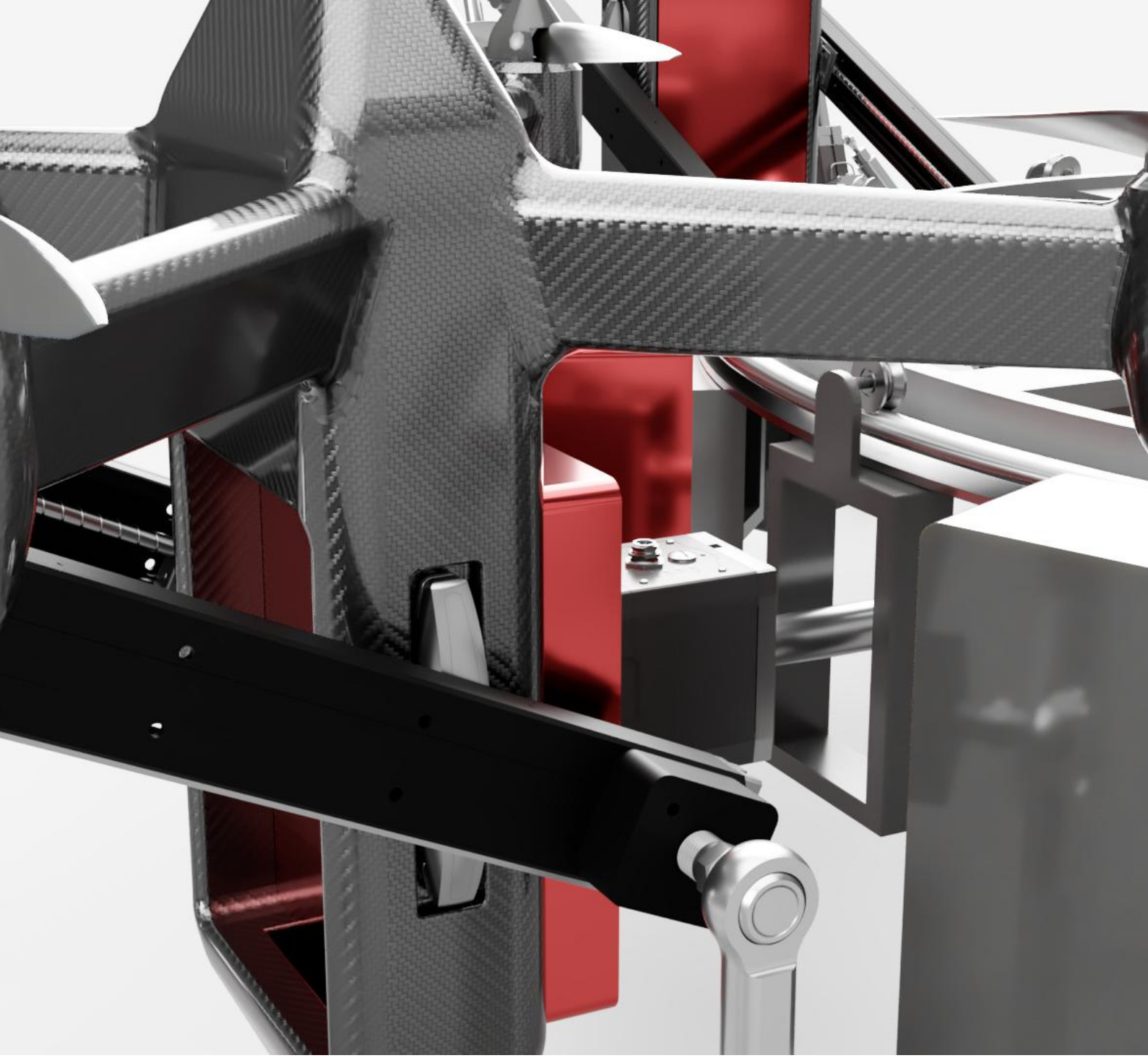
ARMED FORCES

TWIN STATION · FIELD PAIR



COAST & CIVIL DEFENCE

EXCHANGE DEPOT



THE HANDSHAKE

Ten seconds. Zero hands.

On command, the magazine indexes the requested pod to the transfer rail. A fault-tolerant actuator drives it into the aircraft’s central bay, where it locks, mates electrically and self-tests — while the rotors are already spinning up.

IN THE FIELD

Where the road ends, we begin.

Medical resupply to a cut-off high-altitude position — one remote command, no aircraft crew, no exposure | Works in GPS denial areas through AI Vision assist.

Any terrain. Any mission.

URBAN ROOFTOP · EMS

FLOOD ZONE · NDRF

BORDER POST · ARMY

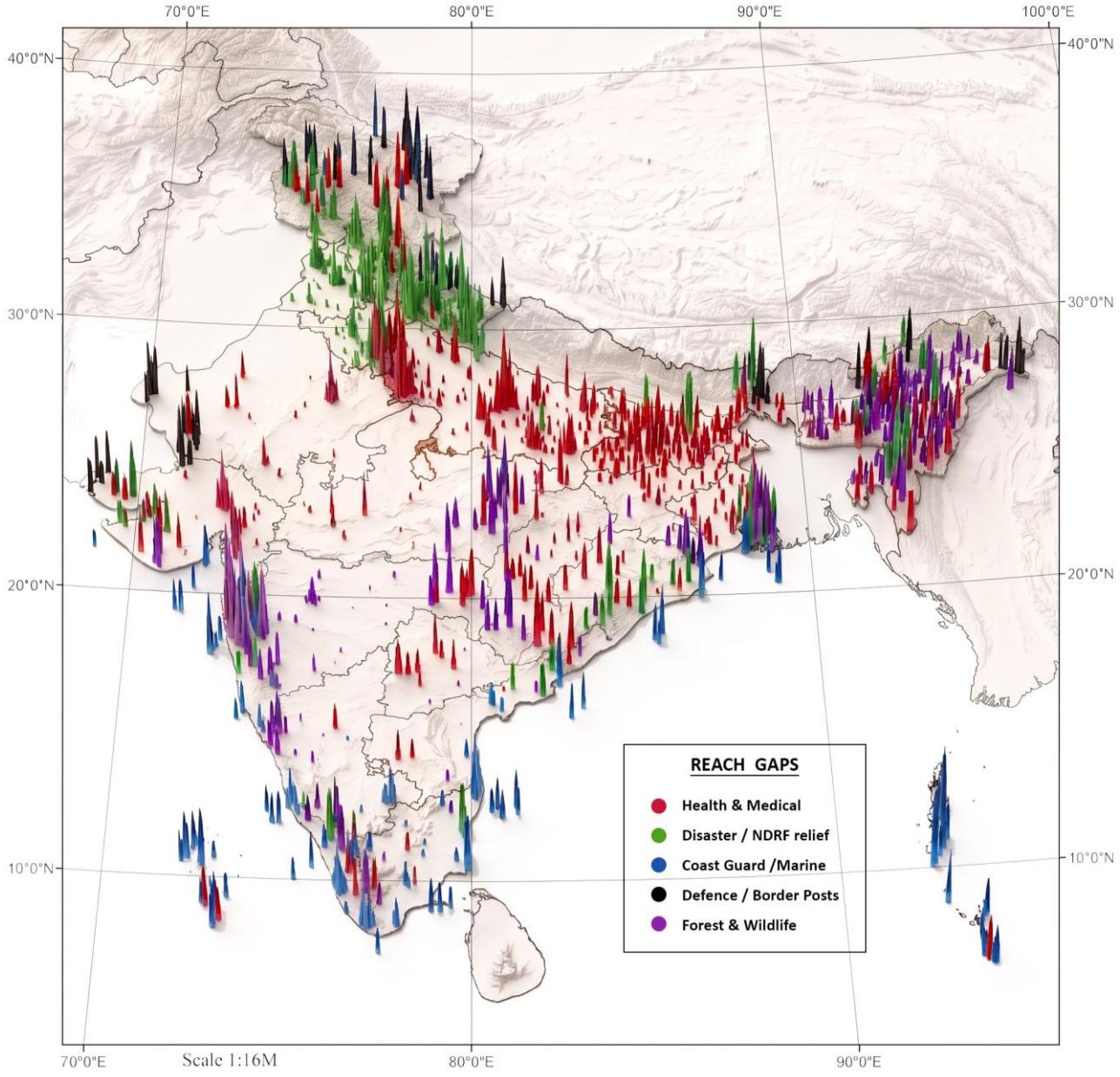
FOREST RIDGE · WILDLIFE

ISLAND OUTPOST · COAST GUARD

FORWARD LINE · DEFENCE

THE NETWORK

One node saves a village. A grid protects a nation.



Reach-gap analysis across five national services — health, disaster, marine, defence, forest.

Stations mesh into a decentralized network: if a node or link fails, missions re-route automatically. Coverage compounds — every new station closes another gap on this map.

THE RELAY

One drone flies 20 km.
The network flies hundreds.

No single battery has to cover the whole journey — because the pod, not the aircraft, is the traveller. Stations sited 10–30 km apart pass the payload down the line like a relay baton: each drone flies one hop, hands over, and returns home to recharge.

A pod travelling 100 km: three hops, three aircraft, zero people. Dashed = each drone returning to its own base.

01 · Fly & drop

The first station loads its drone, which flies one hop downstream — 20, 40, even 60 km — drops the pod at the next station's receiving bay, and turns back to its own charger.

02 · Reload

The receiving station's magazine accepts the pod, keeps its climate control unbroken, and loads it into its own fully-charged aircraft within seconds or stores it .

03 · Repeat

Hop by hop, the pod leapfrogs down the chain until it reaches a destination hundreds of kilometres beyond any single aircraft's range.

Every aircraft stays inside its safe radius.

No mid-route infrastructure, no pilot hand-offs, no range anxiety — the chain is the range. Add a station, and the whole network reaches 20 km further.

READING THE MAP

Every spike is a place help arrives too late.

The map opposite plots roughly 420 points — and that is only a sample. Each spike marks a real place where terrain or distance delays or denies help; its colour is the agency whose mission it falls under. Across a nation of 1.4+ billion spanning glacier, desert, delta, deep forest and open sea, the true number runs into the thousands. Every spike shares one problem: a small, time-critical payload that cannot arrive fast enough by road, boat or manned aircraft.

Health & Medical

ICMR · AIIMS & state medical colleges · National Health Mission · district health systems

WHERE

NE hills (Manipur, Nagaland, Meghalaya, Arunachal); the Himalaya (Himachal, Uttarakhand, Zanskar–Ladakh); the tribal belt (MP, Chhattisgarh, Jharkhand, Odisha, Gadchiroli); the Thar; the islands.

THE PROBLEM

Snakebite alone kills ~58,000 Indians a year (India Million Death Study), ~70% in eight states — yet only ~7% of deaths are officially recorded. Blood, antivenom and vaccines spoil or arrive late; 3–4 hour road trips are routine where a drone flies 12–30 minutes.

HOW INOURE CHANGES IT

A climate-controlled pod keeps blood, vaccines, antivenom, AEDs and oxygen — all within a 3–5 kg envelope — pre-positioned, flight-ready, and delivered on one command even to GPS-denied valleys.

Disaster / NDRF Relief

NDRF · NDMA · State Disaster Response Forces

WHERE

Himalayan cloudbursts & floods (Kedarnath 2013, Kullu–Manali 2023, Sikkim GLOF 2023); Assam floods; the Kosi–Ganga belt; Western Ghats landslides (Wayanad 2024); east-coast cyclones; the Sundarbans.

THE PROBLEM

A single 2024 season saw ~1,685 flood deaths across 14 states and 2.2 million evacuated. When roads and bridges wash out and boats are scarce, reaching cut-off pockets in the first hours is the recurring failure.

HOW INOURE CHANGES IT

Solar, off-grid stations survive when the grid and roads don't; a self-healing mesh keeps flying when cellular and GPS collapse — dropping life rafts, water filters, rations and comms relays before ground teams arrive.

Coast Guard / Marine

Indian Coast Guard · marine police · island administrations

WHERE

Andaman & Nicobar (Port Blair, Hut Bay, Car Nicobar, Campbell Bay ~500 km out); Lakshadweep (Agatti, Minicoy, Kavaratti); fishing grounds off every coast.

THE PROBLEM

Island emergencies wait on a ship or helicopter across hundreds of kilometres of open water; fishermen caught by sudden storms drift for days awaiting search-and-rescue. Lives are lost purely to evacuation time.

HOW INOURE CHANGES IT

Over-water autonomous flight carries auto-inflating life buoys, medical pods, strobes and comms relays to outlying islands and stricken boats — released without landing, in weather that grounds helicopters.

Defence / Border Posts

Indian Army · ITBP · BSF · high-altitude IAF logistics

WHERE

Ladakh (Siachen, Daulat Beg Oldie, Galwan, Pangong, Kargil); the Kashmir LoC (Gurez, Machil); Sikkim (Nathu La, Doklam); the Arunachal LAC (Tawang, Kibithu, Walong); the desert frontier (Longewala, Sir Creek).

THE PROBLEM

Pickets sit at 4,000–6,700 m where porter and helicopter resupply is grounded for days and roads close for months. Casualty evacuation and resupply are slow, costly and dangerous.

HOW INOURE CHANGES IT

The payload rides inside the airframe — no slung load — staying stable in high wind where tethered drops fail; mesh + edge-AI enable resupply of trauma kits, blood, rations and comms to isolated posts in GPS-denied terrain.

Forest & Wildlife

State Forest Departments · tiger-reserve & wildlife authorities

WHERE

Kaziranga (flood-cut patrol camps), Namdapha, Simlipal, the Sundarbans; central tiger reserves (Kanha, Bandhavgarh, Pench, Tadoba, Bastar); the Western Ghats (Periyar, Nagarhole, Silent Valley); Gir.

THE PROBLEM

Anti-poaching camps sit hours-to-days from the nearest hospital, and antivenom routinely stocks out at forest-edge clinics — a documented national gap — leaving rangers and forest communities exposed.

HOW INOURE CHANGES IT

Ranger trauma kits, antivenom (lyophilised, ambient-stable) and anti-poaching surveillance and comms gear delivered deep into roadless ranges, pre-positioned at the range headquarters.

Named incidents and figures are drawn from published sources (ICMR i-Drone, WHO, the India Million Death Study, ReliefWeb and government reporting). The wider spread of points is indicative of a documented nationwide pattern, not an exhaustive census.

One shell for all of it — help us fund the first prototype.

Everything on these pages is fully designed. We have completed the detailed engineering and 3D CAD of the entire system — the ground station, the rotary pod magazine, the mechanised loading mechanism and the VTOL aircraft — and filed for patent. The single milestone between this design and a deployed, life-saving capability is our first working prototype. As an early-stage Indian startup, we are seeking seed funding to build it, and we would welcome the opportunity to present our design and discuss support under your innovation programme.

INOURE

Autonomous deployments for the lives that cannot wait.

INOURE Technologies Pvt. Ltd.
contact@inoure.com | +91 90730 10880 | CIN U32100WB2022PTC252135
1236, Barasat, Barrackpore Road, P.O. Nabapally, Kolkata – 700126, West Bengal, INDIA.

labs.inoure.com | **inoure.com**