

# INDIA'S UNMANNED WARFARE TRANSFORMATION

**2026-2035**

A DECADE OF  
CAPABILITY.  
AUTONOMY.  
DOMINANCE.

Reconstructing the Indian Army Technology Roadmap  
for UAS and Loitering Munitions (2026-2035)



**30+**  
CAPABILITY  
CATEGORIES



**100+**  
VARIANTS



**2,00,000-  
5,00,000**  
POTENTIAL SYSTEMS



**₹1-1.9 LAKH  
CRORE**  
MARKET OPPORTUNITY



**₹2-3 LAKH  
CRORE**  
BROADER ECONOMIC  
IMPACT

A STRATEGIC ANALYSIS OF CAPABILITIES, TECHNOLOGIES, INDUSTRY OPPORTUNITIES  
AND THE ROAD TO TECHNOLOGICAL SOVEREIGNTY



**CAPABILITY  
ROADMAP**  
Mission Needs  
to 2035



**TECHNOLOGY  
INSIGHTS**  
Emerging Tech  
& Deep Analysis



**INDUSTRY  
OPPORTUNITIES**  
Startups, MSMEs,  
Investments



**IMPORT  
SUBSTITUTION**  
Critical Technologies  
& Dependencies



**EXPORT  
POTENTIAL**  
Global Markets  
& Strategy

PREPARED FOR STRATEGIC DECISION MAKERS, INDUSTRY LEADERS AND INVESTORS

# India's Unmanned Warfare Transformation

*Reconstructing the Indian Army roadmap for unmanned aerial systems and loitering munitions, 2026–2035 — and pricing the industrial opportunity beneath it.*

This free edition carries the argument, the headline numbers and the frameworks you need to decide whether the full report earns your time and capital. It is a condensed reading of an eighteen-chapter, thirty-one-figure, fifty-three-table analysis. Where it stops, the paid edition continues — the complete market model, the subsystem opportunity priced layer by layer, the competitive landscape, the strategic implications, the scenarios and the risk register — and every purchase includes a twenty-five-slide investor briefing deck.

## The argument in one page

The Indian Army is not buying drones. It is rebuilding the architecture of land warfare around unmanned, autonomous and attritable systems — and in doing so is issuing the single largest strategic demand signal Indian defence industry has received in a generation. Reconstructed from doctrine, procurement behaviour, the lessons of Ukraine and the live evidence of Operation Sindoor, the roadmap implies roughly thirty capability categories, eighty operational variants, and a procurement pool of INR 1.0–1.9 lakh crore through 2035, against a broader economic footprint of INR 2–3 lakh crore.

Its central finding is uncomfortable for an industry organised around airframes: the money, the margin and the sovereignty are not in the platform the Army buys, but in the subsystems it buys again with every unit. The five conclusions below carry the report.



*The opportunity at a glance, through 2035.*

## Five strategic conclusions

- **1 — Software-defined, not platform-centric.** Advantage shifts from airframe manufacturing to autonomy, sensing and mission software.
- **2 — Value is annuitised below the platform.** The platform is bought once; the seeker, silicon, radio and magnets inside it are bought again and again. The ~INR 40,000 crore import-substitution prize sits below the airframe.
- **3 — Mass has become a strategic variable.** Of 215,000–500,000+ units, the majority are attritable strike systems, and consumption pulls recurring demand into components.
- **4 — Counter-UAS is a market of its own.** It may grow as fast as the drone market itself, and it concentrates India's RF and electronic-warfare depth.
- **5 — Demand is de-risked; capture is not.** The binding constraint is components and execution, not budget. The market will be large in every scenario; whether India captures it is decided in the propulsion, sensor and silicon layers — in peacetime, and early.

## Why now — demand is de-risked

Two forces settled the demand side. Ukraine proved drones are decisive rather than supporting, and compressed the cost of a precision engagement by close to two orders of magnitude: at a few hundred dollars a unit against loss rates in the thousands per month, attritable drones are the only precision option whose arithmetic survives a war of attrition. Operation Sindoor then converted that lesson into Indian orders in weeks, not years — emergency procurement powers, with drones and loitering munitions absorbing the bulk of field-formation spend.

Demand is therefore no longer a forecast; it is already happening. What remains uncertain — and where policy and investment leverage actually sits — is capture: whether Indian industry can localise the value-dense layers before the Phase-I (2026–28) reference designs lock imported subsystems into a decade of refresh buys.



*Precision engagement, roughly two orders of magnitude cheaper.*

# The thesis — value sits below the platform

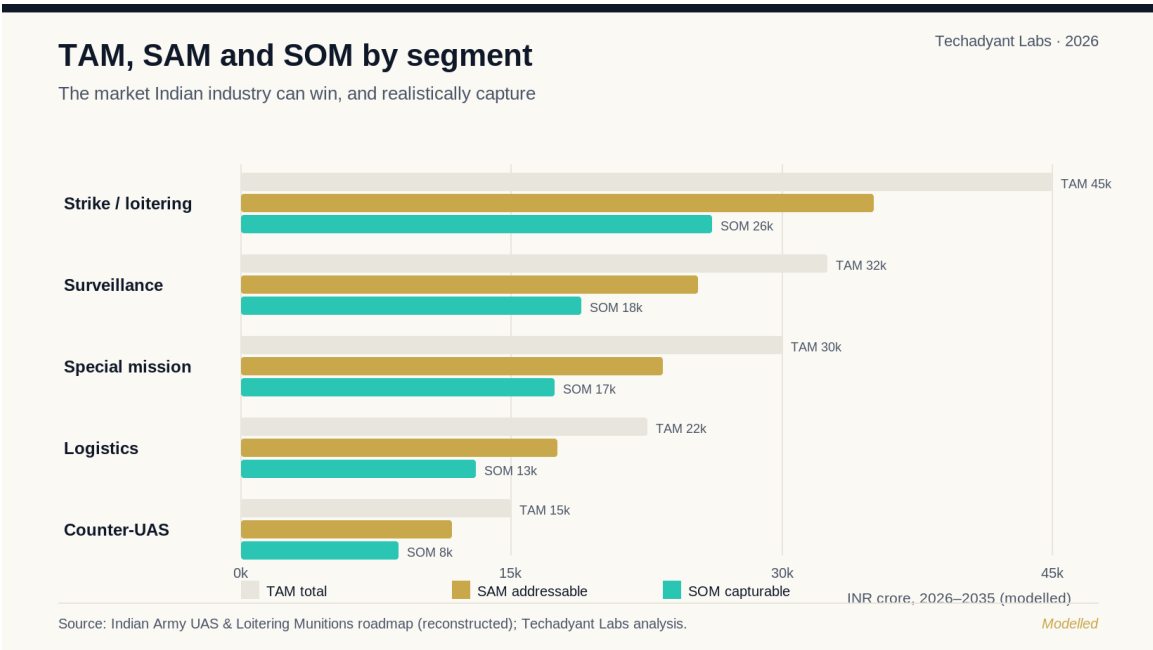
A loitering munition is procured once and consumed once. But the seeker that aims it, the flight-control silicon that steers it, the radio that survives jamming and the magnets in its motor are bought again — across every variant, refresh and export order for a decade. The platform is the line item; the subsystem is the annuity. Read an unmanned system not as an aircraft but as a five-layer stack, and the pattern is clear: value rises as you ascend it. India is comparatively sovereign exactly where value is lowest, and most dependent exactly where it is highest.



*The Autonomous Warfare Stack — value rises from airframe to effect.*

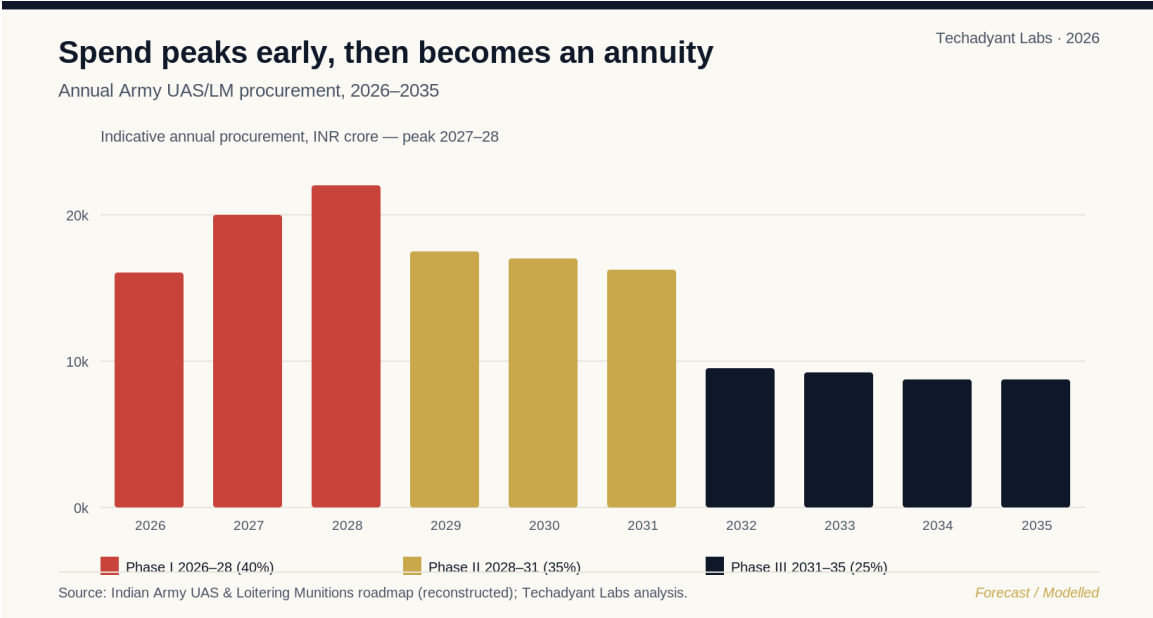
## The market, decomposed

Total addressable demand through 2035 is about INR 1,45,000 crore at the mid case. Of that, roughly 78 per cent is policy-addressable by Indian industry under the indigenisation architecture — the SAM — and about INR 84,000 crore is realistically capturable after capacity ramp and certification throughput — the SOM. The largest segment, strike and loitering munitions, carries the widest gap between addressable and captured, because India can build the airframe and increasingly the warhead, but not yet the precision seeker and autonomy stack that make a munition lethal.



TAM, SAM and SOM by segment (INR crore, modelled).

Spend is front-loaded — roughly 40 per cent in 2026–28, 35 per cent in 2028–31 and 25 per cent in 2031–35. The commercial warning is sharp: the firms that win the 2027–28 contracts set the reference designs the rest of the decade refreshes against. Incumbency is bought early and cheaply, and by Phase III the market changes character from acquisition to a sustainment-and-attribution annuity that rewards whoever owns the consumable subsystems.

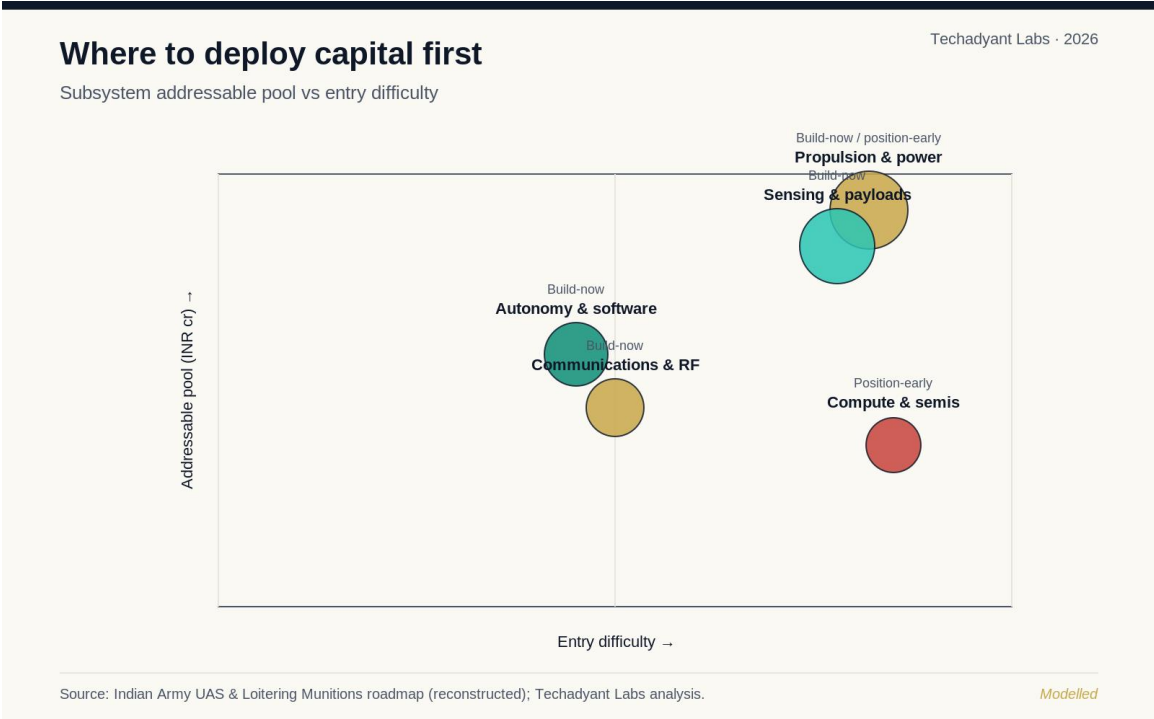


Annual procurement spend peaks in 2027–28.

## Where the money is actually made

Integration earns eight to twelve per cent on a crowded field. The five subsystem layers — sensing, propulsion, autonomy software, communications and compute — earn thirty to seventy per cent behind capital, intellectual-property and certification moats. The highest-return entries are not where dependency

is most acute, but where India’s existing design depth meets a protected demand signal: autonomy software and sensing combine the largest pools with surmountable, IP-based barriers, and are the clearest build-now calls. Propulsion and compute are the deepest strategic chokepoints but the heaviest capital — position-early plays best ridden on the rare-earth, cell and semiconductor missions rather than financed standalone.



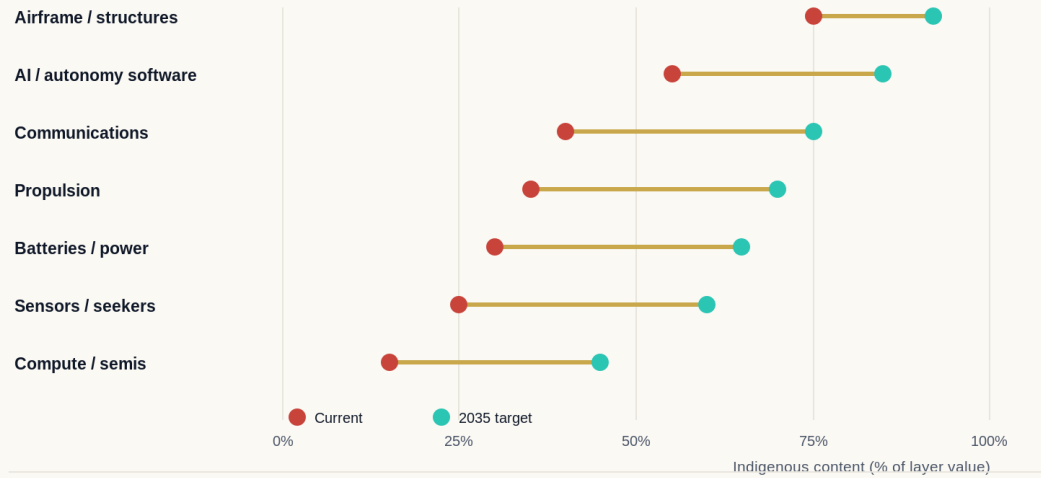
Subsystem addressable pool versus entry difficulty.

As India localises, roughly INR 40,000 crore of value moves below the platform. The model resolves an apparent paradox: the two layers with the lowest current indigenisation — compute and sensors — unlock the most rupees, because they are both import-heavy and value-dense. Airframe localisation looks impressive on a percentage basis but unlocks almost nothing.

## Closing the value-dense layers

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Indigenous content today vs the 2035 target, by subsystem layer



Source: Indian Army UAS & Loitering Munitions roadmap (reconstructed); Techadyant Labs analysis.

Modelled

Indigenous content by layer: current versus 2035 target.

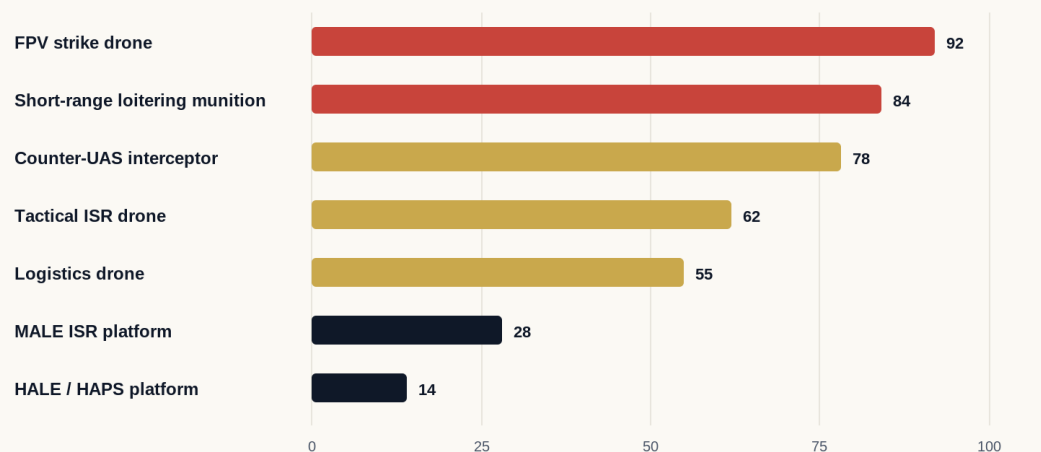
## The three frameworks

Three proprietary frameworks carry the full analysis and recur throughout the report. The Autonomous Warfare Stack locates where value and sovereignty sit. The Attributable Warfare Index scores each capability category on cost, survivability, replaceability and autonomy to predict which migrate to mass production — the cheap, autonomous, expendable categories, where unit volume and recurring component demand concentrate. The Drone Industrial Sovereignty Matrix plots each subsystem on strategic importance against domestic capability, and reads off the critical-gap quadrant — flight-control silicon, cooled-infrared seekers, rare-earth magnets, gallium-nitride RF — the explicit target list for capital and policy.

## The Attributable Warfare Index

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Which categories migrate to mass — by cost, survivability, replaceability, autonomy



High scorers dominate unit volume and reward mass manufacture; low scorers are exquisite, bought in dozens.

Source: Indian Army UAS & Loitering Munitions roadmap (reconstructed); Techadyant Labs analysis.

Attributability score (0–100)

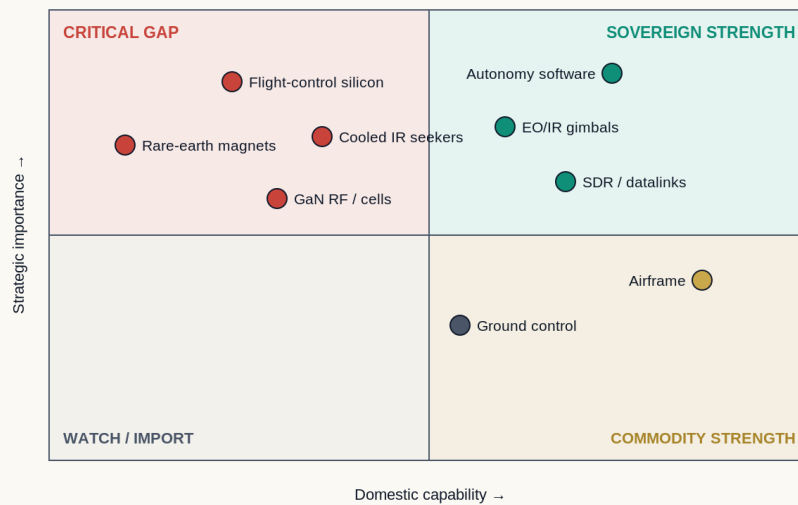
Framework / Modelled

The Attributable Warfare Index — which categories migrate to mass.

# The Drone Industrial Sovereignty Matrix

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Strategic importance vs domestic capability, by subsystem



Source: Indian Army UAS & Loitering Munitions roadmap (reconstructed); Techadyant Labs analysis.

Framework

*The Drone Industrial Sovereignty Matrix — the critical-gap target list.*

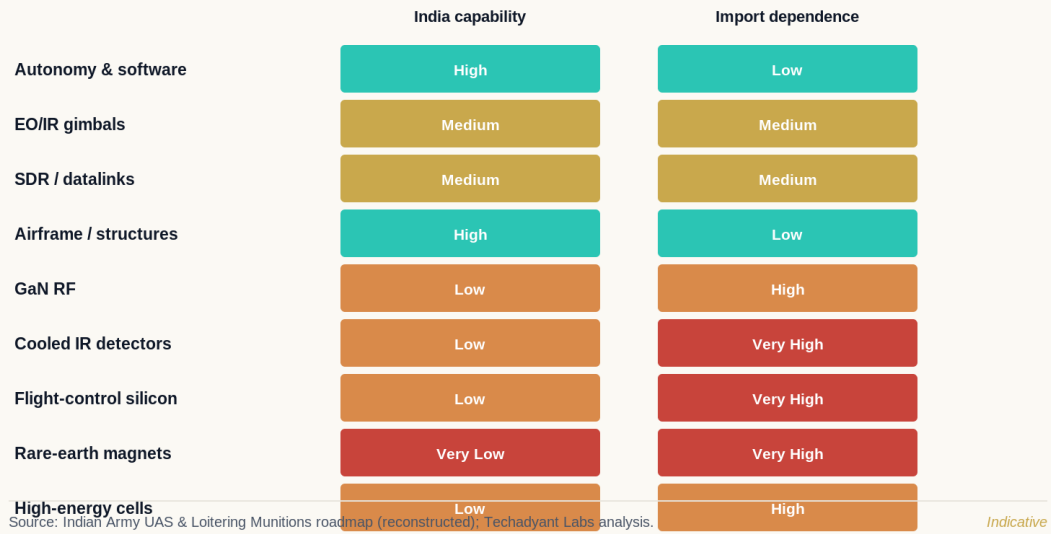
## Who builds India's drones

India has a real, order-winning integrator industry — ideaForge, NewSpace Research, Raphe mPhibr, Dhaksha, and Solar Industries' Nagastra loitering munition. But it sits on a component base that is 45–55 per cent imported, and the imported half is the militarily decisive half. Rare-earth magnets are near-100 per cent imported and under Chinese export control; flight-control silicon is about 90 per cent Chinese-origin. India's deepest indigenous strengths outside airframes are in sensing (Tonbo Imaging) and counter-UAS and RF (Grene Robotics, Bharat Electronics, Astra Microwave, Data Patterns) — the logical anchors for component sovereignty. The Army can field Indian-badged platforms today, but not yet an Indian-sourced kill chain.

## The capability-gap map

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India is strong at airframe and software, weak at magnets, detectors and silicon



The capability-gap map — what India cannot yet make.

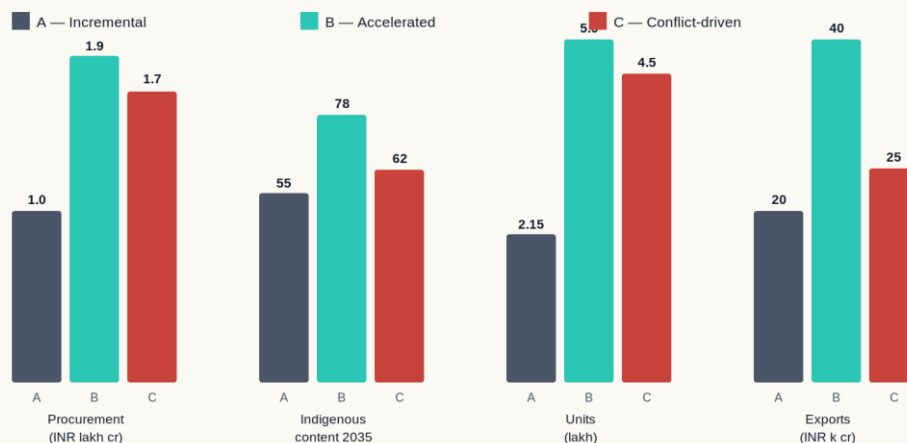
## Three futures, and what could derail them

Which band India lands in by 2035 is decided by capture, not demand. The uncomfortable point: the highest-spend scenario — a border crisis — is the lowest-sovereignty one early, because emergency procurement buys whatever flies, wherever it is made. Build the component base in peacetime, or buy it foreign in wartime. The realistic path is a crisis-driven spike that, handled well, converts into the accelerated trajectory, or, handled badly, settles back into incremental drift.

## Three futures to 2035

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Scenario outcomes across four metrics

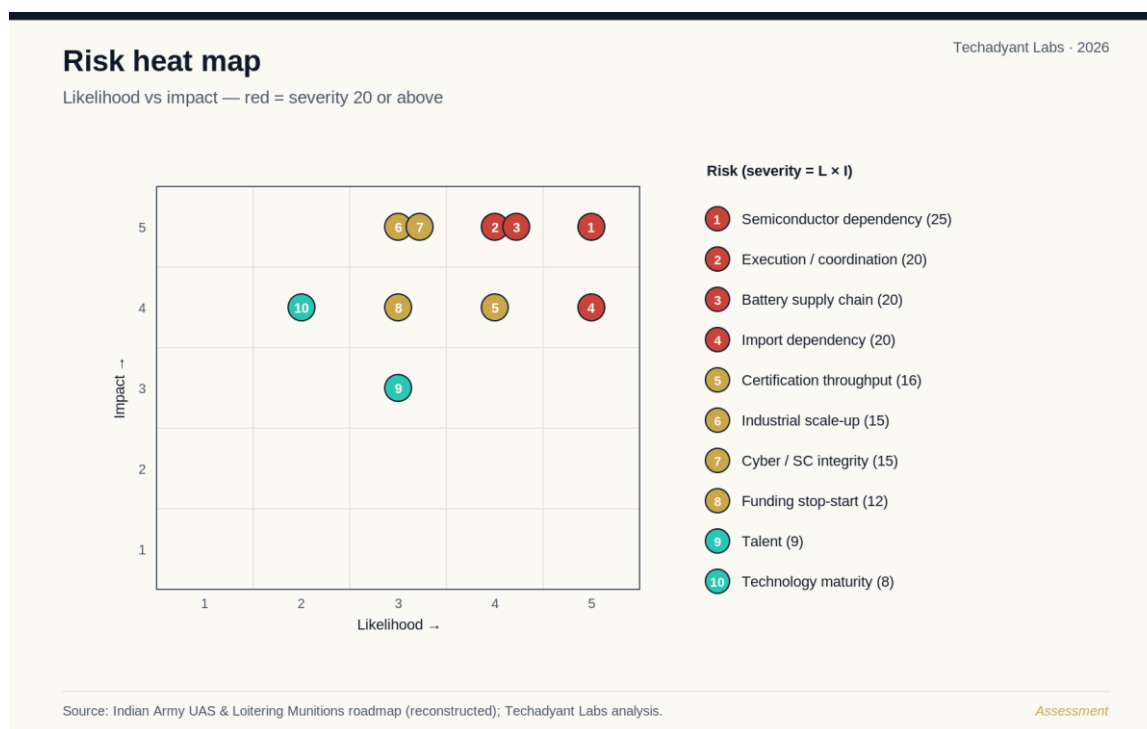


Source: Indian Army UAS & Loitering Munitions roadmap (reconstructed); Techadyant Labs analysis.

Modelled

Three scenarios to 2035, by outcome metric.

The binding risks are supply-side, not demand-side. Semiconductor dependency, battery cells, magnets and execution sit at the top of the register; demand-side and technology-maturity risks sit at the bottom. The roadmap will not fail for lack of a buyer; it will fail, if it fails, because the parts could not be made in time — and that is a problem solved upstream and in peacetime, not at the point of procurement.



Risk heat map — likelihood versus impact.

## What the full report adds

This free edition is the argument. The paid edition is the decision-grade analysis behind it — eighteen chapters, thirty-one figures and fifty-three tables, with a twenty-five-slide investor briefing deck included with purchase:

- **The full market model** — TAM/SAM/SOM by segment, an annual procurement-wave model to 2035, and an indigenous-content model that converts localisation into rupees.
- **The subsystem opportunity priced layer by layer** — addressable pool, gross-margin band, entry barriers and a build-now / position-early verdict for each of the five layers.
- **The competitive landscape** — Tier-1 integrators, Tier-2 subsystem suppliers, the counter-UAS cluster, and the capability-gap map of what India cannot yet make.
- **Strategic implications for industry** — who wins and who loses, with distinct playbooks for startups, MSMEs, large firms and DPSUs, and venture investors, plus a first-movers watchlist.
- **Scenarios and risk** — three quantified scenarios to 2035 and a full risk register with a likelihood-impact heat map.
- **The capability architecture** — the five capability pillars in depth — surveillance, strike, counter-UAS, special-mission and logistics — and the seven-layer technology stack beneath them.
- **Included with purchase** — a twenty-five-slide investor briefing deck (editable), to take the thesis into a room.

**Read the full report → [India's Unmanned Warfare Transformation \(Edition 2\)](https://labs.techadyant.com) · INR 7,499 · [labs.techadyant.com](https://labs.techadyant.com)**

### **A note on method**

This is an independent strategic-intelligence analysis. It reconstructs the likely architecture of the Indian Army's unmanned-systems direction from publicly available information, doctrine, procurement signals and analogous international programmes. It is not an official Government of India or Indian Army document and contains no classified information. Company facts and policy anchors are sourced; market sizes, scenarios and margin bands are transparent models, labelled as such. Nothing here constitutes investment advice.

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