



Air Signal Labs



Raising \$500K Pre-Seed



Patent Pending



Technical Validation Underway

TOWERLESS

Radio runs the operation.
Towerless keeps the record.

An airport-controlled operational record layer for 4,500+ untowered U.S. airports.

Airports answer for radio traffic they can't replay.



Who Pays: Municipal & County Sponsors

County, city, or airport authority. Used by the airport manager.



The Problem: Disputes Without a Record

Complaints, insurance and board inquiries land on the airport — with no searchable radio + aircraft timeline to review.



The Cost: Reconstruction Time

Staff rebuild each event from memory, calls, tracks, and cameras. Professional runs \$2,148/yr — about a few days of that work.

UNTOWERED AIRSPACE — NO RECORD

Most public-use facilities operate without a control tower.



5,179 public-use facilities total • 527 towered • 4,652 untowered



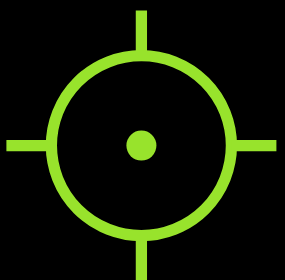
4,500+

public-use U.S. airports without control towers



78%

of traffic-pattern midair collisions occur at non-towered airports



43

General Aviation Midair Collisions (2016–2021) 79 fatalities

These unfold on CTAF radio — with no airport-controlled recording to review afterward.

Connect the node. The record begins.

Place it at the airport. Towerless passively listens to configured public radio channels, matches supported aircraft data where available, and builds a searchable operational timeline.

Why now: consumer-grade SDR hardware and on-device transcription have only recently made this possible without new airport infrastructure.



Industrial design target — production units funded by this round



CAPTURE

Configured public, unencrypted radio calls. No transmission. No interference.



MATCH

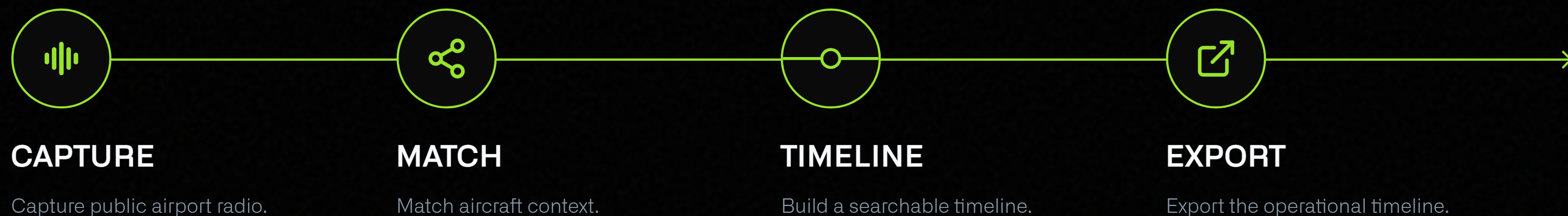
Radio calls matched to aircraft identity and position where supported. Confidence-scored.



RECORD

Timestamped, searchable, exportable operational timeline. The record that did not exist before.

From radio traffic to an auditable timeline.



Memory is not a record. Towerless creates one.

Every radio call is timestamped, matched to aircraft context, confidence-scored, and exportable.

05 Why Towerless

Current tools capture pieces.
Towerless creates the record.

What Airports Have Today



Human Recollection & Logs

Manual and fragmented.



Public Audio Feeds

Third-party audio only.



Aircraft Tracking

Position without radio context.



Standalone Recorders

Audio without correlation.



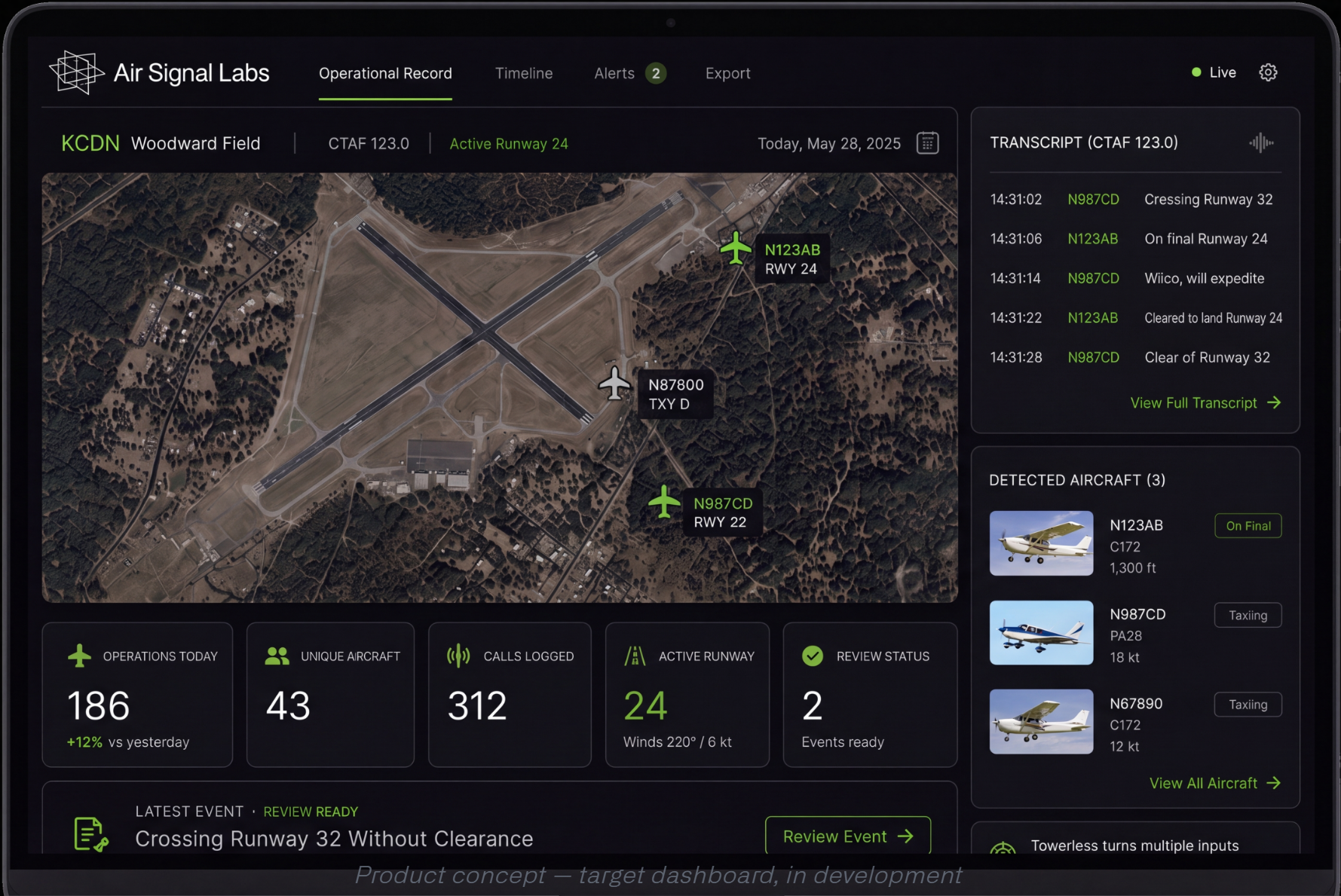
Enterprise ATC Systems

Built for staffed towers.



TOWERLESS

Creates an airport-controlled operational record from
public airport
radio activity and supported aircraft context.

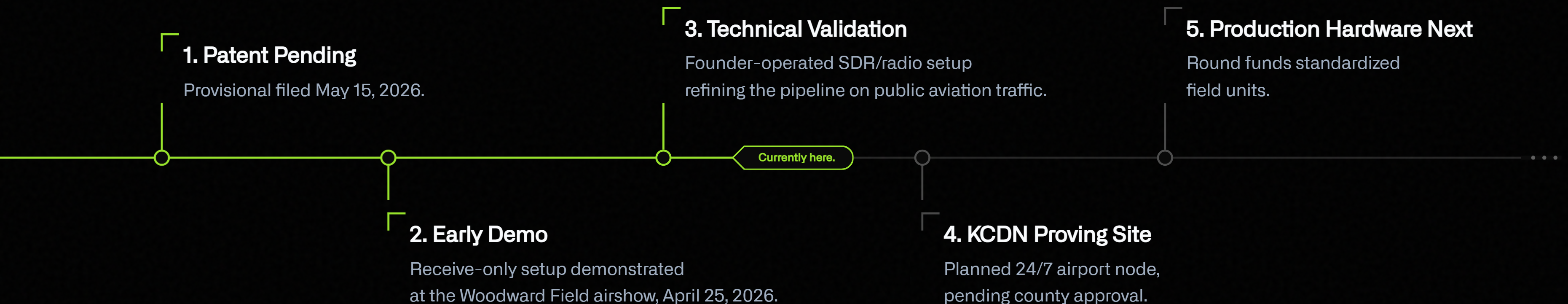


A recorder stores audio.

Towerless creates a timeline airports can search, review, and export.

Filed. Demonstrated. First proving site pending.

Towerless has been demonstrated on public aviation radio traffic, including a receive-only setup at the April 25 Woodward Field airshow, and is being refined through founder-operated SDR/radio testing. KCDN Woodward Field is the planned first 24/7 proving site, pending county approval.



07 Business Model

Hardware lands the site.
Software compounds the revenue.

Hardware — One-time

Towerless Indoor Node	\$379
Towerless Sentinel Outdoor	\$579

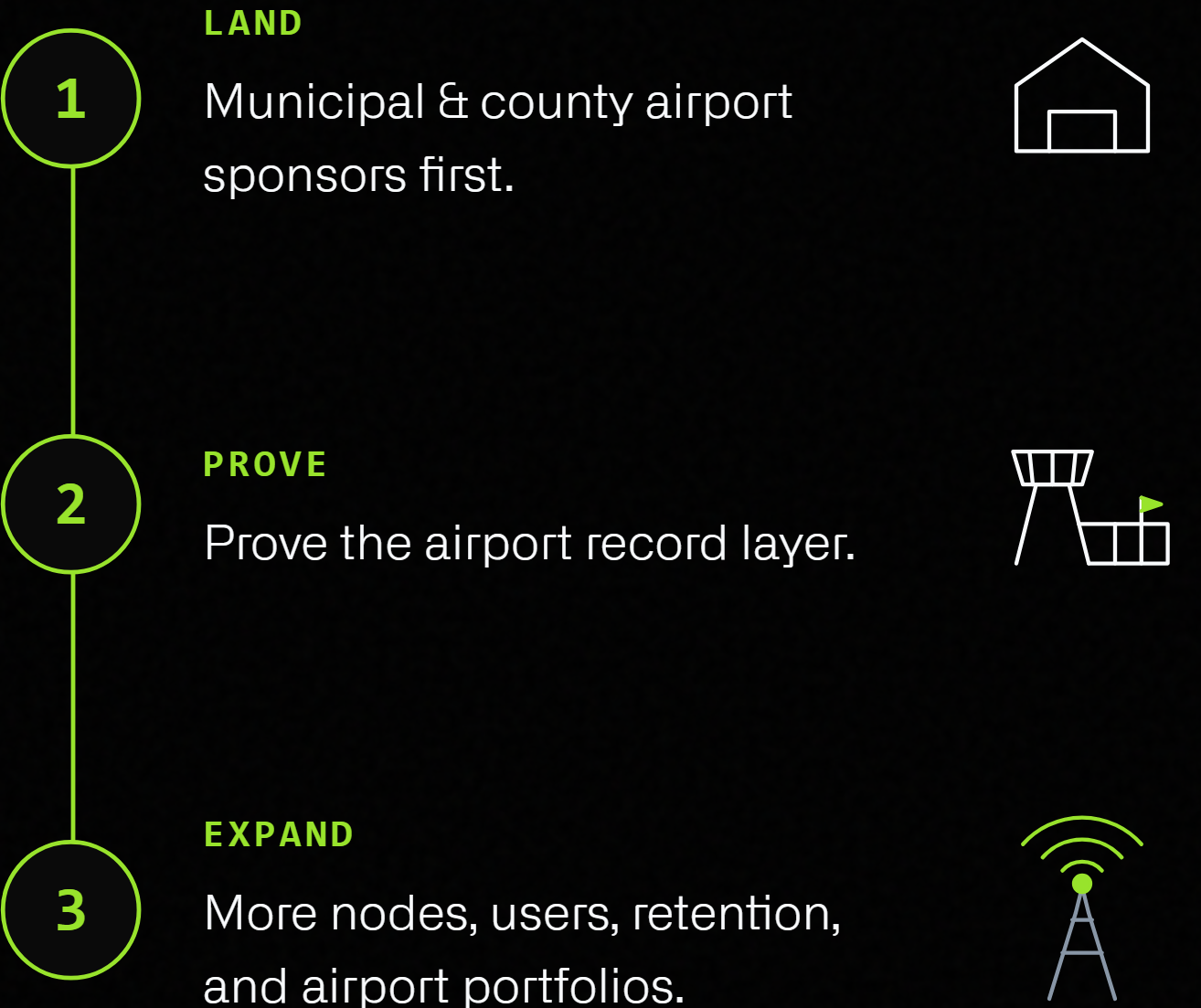
Software — Monthly

ESSENTIAL Matched timeline. Search + recent history. No export, no incident review.	FREE
PROFESSIONAL Everything in Essential + incident review, export, retention Device & connection monitoring	\$179 / node / month
COMMAND Everything in Professional + multi node ops, admin controls Role-based access + retention controls	\$299 / node / month

Software ARR	
1 Professional node	10-airport network
= \$2,148 ARR	= \$21,480 ARR

*Connectivity: airport Ethernet/Wi-Fi is customer-provided. Managed LTE optional, ~\$29/node/mo billed to the airport. Not included in software ARR.

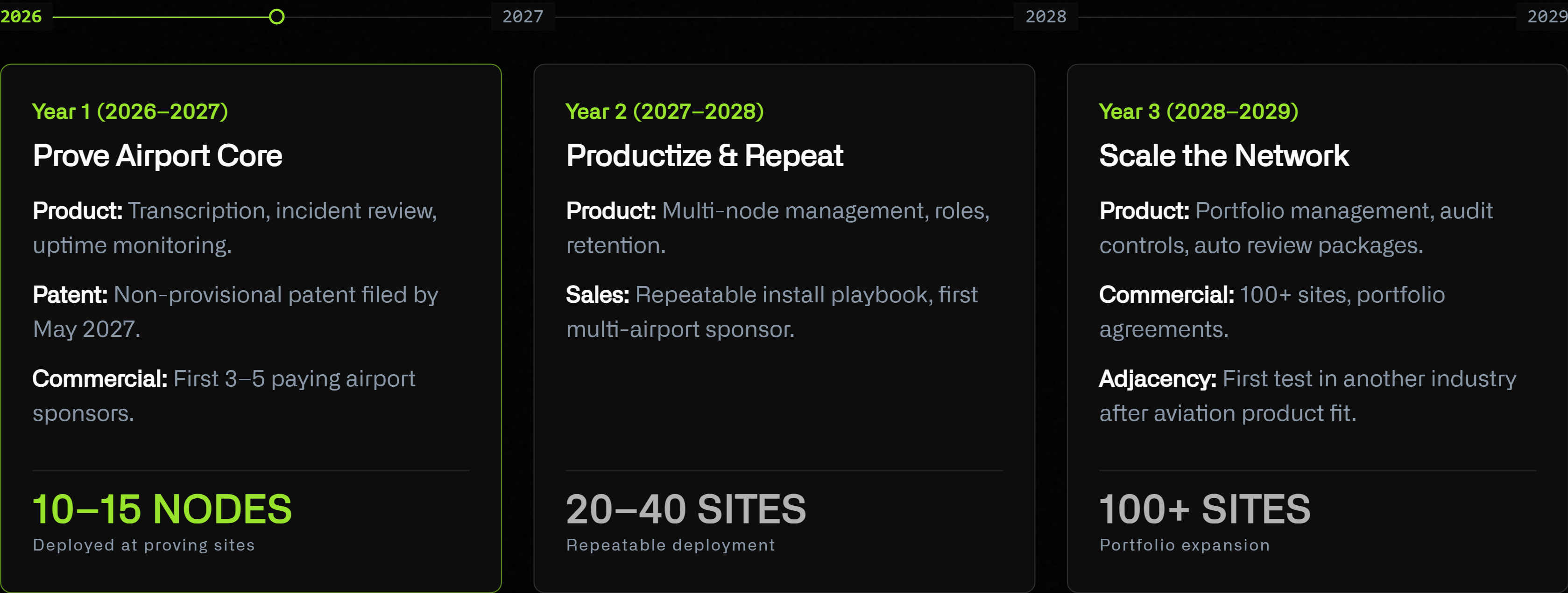
Go-To-Market



Untowered aviation is the wedge: the sponsor owns the response, not the record.

This round funds the airport record layer.
The architecture expands long term.

Prove the record. Productize it. Scale it.

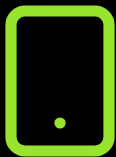


Long-Term Vision: Build the trusted operational record layer for untowered airports, then adjacent radio-driven operations.

\$500K Pre-Seed

Turning technical validation into a repeatable, paid airport sale.

12-Month Targets



10–15 Production Nodes Deployed
Standardized hardware in the field.



KCDN Continuous Proving Site Operational
First continuous airport record layer, pending county approval.



Non-Provisional Patent Filed
Filed before May 2027.



First 3–5 Paying Airport Sponsors + Active Pipeline
Proof the airport sale repeats.

Round Focus

Build. Prove. Convert.



Hardware
Standardization



Software
Reliability



Field
Deployment



Airport Sales
Conversion



The Outcome

A proven airport record layer that converts into recurring software revenue.

Build the operational record layer for untowered airports.



Founder—Market Fit

Roman Lepekha — Founder & CEO, Air Signal Labs

FAA Private Pilot, Honorary Commissioner, Kershaw County Airport Commission, 2023–2024, appointed at 16. Led an Eagle Scout airport-awareness project at Woodward Field — the same airport that is now Towerless's first proving site. Built Towerless after seeing that critical airport radio activity had no durable, airport-controlled record.



Investor Inquiries

Now scheduling investor conversations for the build-to-prove round.

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