

SENSUS+AiR

EXECUTIVE SUMMARY

SensusAir Environmental Intelligence Platform

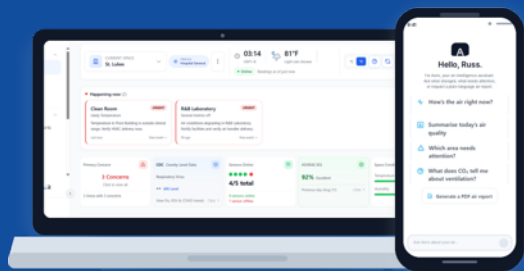
MAKE AIR VISIBLE

SensusAir transforms continuous, multimodal environmental sensing into contextual, decision-ready intelligence for the people responsible for health, safety, facilities, operations, biosecurity, quality, resilience and performance.

A corporate overview for customers, employees, strategic partners, researchers and investors.

THE PLATFORM PROMISE

- ✦ **See sooner.** Continuous near real-time visibility.
- ✦ **Understand context.** Personalized baselines and multimodal pattern intelligence.
- ✦ **Act and verify.** Occurrences, Air Ledger histories and decision-ready reporting.



Near real-time dashboard, Deepview Reports and Aeris access through desktop and mobile browsers.

Illustrative customer-configured healthcare workspace shown.



AIRVUE CONNECTED ENVIRONMENTAL SENSOR

Continuous sensing. Living Intelligence.
Decision-ready environmental reporting.

PLATFORM AT A GLANCE

5 sec NOMINAL SENSING continuous environmental readings	10 sec NEAR REAL-TIME REPORTING nominal cloud reporting cadence	~1,500 ft² TYPICAL COVERAGE per AirVue; placement dependent	4.1T+ MODELED THUMBPRINTS environmental combinations
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**Cadence, coverage, model scale and available measurements vary by sensor configuration, placement, connectivity, airflow, environment and use case.*

Air is mission-critical. Most organizations cannot see its story.

Buildings, vehicles, campuses and critical facilities are dynamic environments. Occupancy, ventilation, weather, cleaning, production, equipment state and human activity can change the air within minutes. Yet many organizations still rely on periodic testing, isolated alarms or complaints - useful tools that rarely create a continuous record of what happened between inspections.

THE ENVIRONMENTAL BLIND SPOT	THE SENSUSAIR RESPONSE
Without a continuous timeline, short-duration events and recurring patterns can disappear between spot checks. Teams are left reconstructing causes after the fact, while the relationship between air, occupancy, activity, equipment and outcomes remains uncertain. ✦ Fragmented visibility. Point measurements and siloed systems obscure duration and recurrence. ✦ Slow investigation. Teams spend time rebuilding an event from incomplete evidence. ✦ Weak verification. An action may be documented without proving that conditions recovered.	SensusAir creates a near real-time environmental record and converts it into operational context. AirVue sensing, personalized baselines, Living Intelligence, Occurrences, Risk Indices and the Air Ledger work together to explain what changed, when it changed, how long it persisted, why it may matter and whether the environment returned to baseline. ✦ See sooner. Continuous sensing reveals changes that periodic checks can miss. ✦ Understand context. Site-specific patterns help separate meaningful change from noise. ✦ Act and verify. Environmental chronology supports targeted response and evidence of recovery.

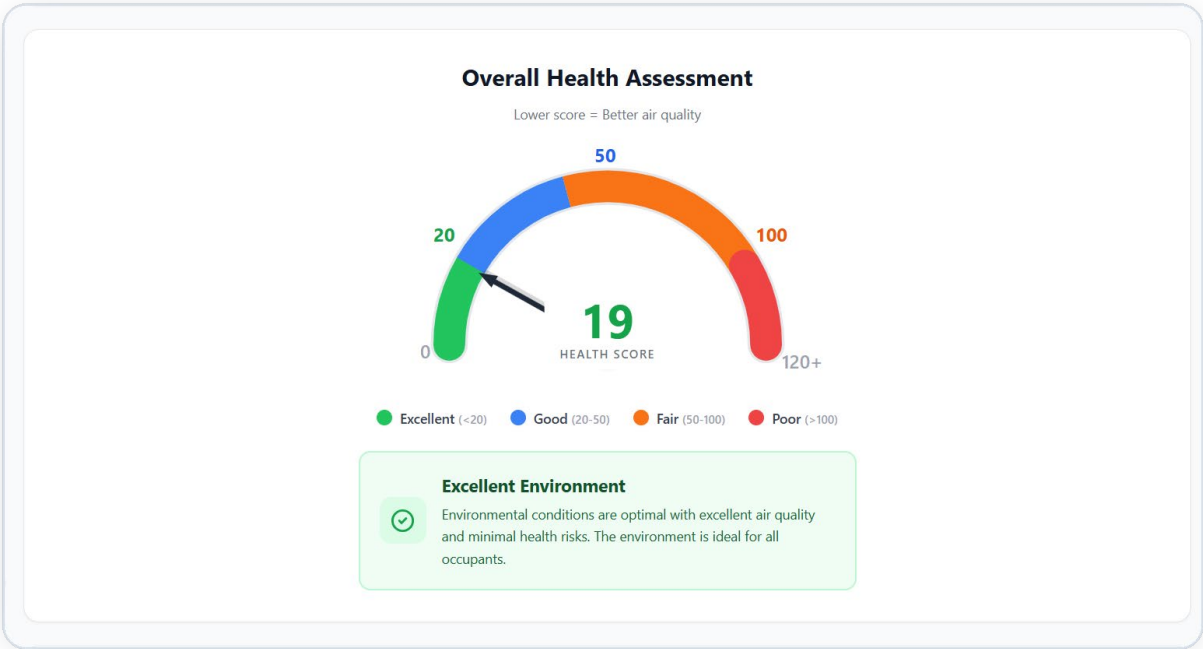
MAKE AIR VISIBLE

Turn an invisible operating condition into a living record people can understand, act on and verify.

VISIBILITY	CONTEXT	ACTION	EVIDENCE
Continuous sensing instead of isolated snapshots.	Time, place, airflow, occupancy, activity, process and intervention.	Plain-language Occurrences, Risk Indices, alerts, reports and workflows.	Air Ledger histories preserve response, ceasing time, recurrence and recovery.

THE OBJECTIVE IS NOT MORE DATA. IT IS FASTER, CLEARER AND MORE DEFENSIBLE ENVIRONMENTAL DECISION-MAKING.

EXECUTIVE VIEW | HEALTH IMPACT ASSESSMENT



An at-a-glance score translates multimodal environmental conditions into a clear executive view while preserving the underlying record for deeper review.

THE SENSUSAIR ENVIRONMENTAL INTELLIGENCE PLATFORM

From air to action

AirVue is the sensing layer. Platform value is created by the interpretation, context, chronology and workflow built around every signal.

01 ENVIRONMENT	02 SENSE	03 INTERPRET	04 PRESERVE	05 DELIVER
Air, people, HVAC, weather, process and occupancy	AirVue captures configured signals every 5 seconds	Living Intelligence finds patterns, anomalies, Occurrences and Risk Indices	The Air Ledger records time, place, context, action, ceasing and recurrence	Dashboards, alerts, reports, APIs and recommendations support action
OCCURRENCE An Occurrence opens when the platform identifies a defined environmental event, remains open while the condition persists and closes after the established ceasing time. A return after ceasing time creates a new Occurrence - preserving duration, recurrence and chronology.				

SELECTED ENVIRONMENTAL DIMENSIONS

- + **Ambient conditions.** Temperature, relative humidity and atmospheric pressure.
- + **Ventilation and space use.** CO2 patterns, air exchange and occupancy indicators.
- + **Particulate matter.** PM1, PM2.5, PM4 and PM10 where supported.
- + **VOCs and gases.** Volatile compounds, vapors and selected gas signals by configuration.
- + **Biological risk analytics.** Mold, viral and bacterial risk patterns from multimodal signals.
- + **Integrated context.** Outdoor conditions, activities, interventions and operational data.

DECISION-READY OUTPUTS

- + **Live Events and Occurrences.** Plain-language explanations of what is happening and why it may matter.
- + **Dashboard, alerts and Risk Indices.** Near real-time visibility and escalation.
- + **Trend Analyzer and Environment DNA.** Recurring characteristics across time, rooms and sites.
- + **Air Exchange and Room Occupancy.** Ventilation effectiveness and space-use context.
- + **Risk and health-impact reporting.** Mold, viral, bacterial and integrated environmental reviews.
- + **Air Ledger Forensics and APIs.** Chronology, hypothesis generation and integration into existing workflows.

PATTERN INTELLIGENCE, RESPONSIBLY USED

SensusAir complements precision instruments, professional judgment, clinical diagnostics and confirmatory laboratory testing. Developing forensic analytics are hypothesis-generating - not concentration measurement, species-level identification or laboratory confirmation.

DEEVIEW REPORTS | SPECIALIZED ANALYSIS FROM THE AIR LEDGER

Deepview Reports

Generate comprehensive air quality analysis reports for your spaces

Environment DNA

Holistic environmental analysis with patterns and risks.

[View Report >](#)

Mold Risk Report

Mold risk assessment from environmental conditions.

[View Report >](#)

Air Exchange Report

Ventilation effectiveness using decay method tracers.

[View Report >](#)

Viral Risk Report

Viral transmission risk for healthcare settings.

[View Report >](#)

Bacterial Risk Report

Bacterial contamination risk for hygiene management.

[View Report >](#)

Room Occupancy Report

Occupancy analysis with space optimization insights.

[View Report >](#)

Environment DNA, mold, viral, bacterial, air exchange and occupancy views convert environmental chronology into role-specific reports and follow-up workflows.

One intelligence layer. Many mission-critical environments.

Because the Air Ledger connects conditions to time, place, occupancy, activity, process and outcomes, the same platform can support very different operating priorities.

✦ Healthcare & Life Sciences Hospitals, clinics, senior living, laboratories, pharmaceutical and compounding environments. Supports infection prevention, environmental investigations, ventilation review, moisture risk and intervention verification.	✦ Public Safety, Government & Defense Fire stations, government facilities, bases, transportation hubs and critical infrastructure. Supports workforce continuity, readiness, exposure awareness, biosecurity, biodefense and resilient operations.
✦ Agriculture, Poultry, Food & Cold Chain Hatcheries, animal housing, processing plants, food and beverage production, warehouses and cold storage. Supports biosecurity, worker safety, process quality, sanitation verification, spoilage prevention and product integrity.	✦ Industrial, Manufacturing & Data Centers Production floors, clean environments, warehouses, data centers and mission-critical facilities. Supports EHS programs, particulate and VOC investigations, cooling and ventilation context, maintenance prioritization and uptime.
✦ Commercial, Education & Hospitality Offices, schools, hotels, multifamily, fitness, retail and institutional buildings. Supports occupant well-being, HVAC performance, moisture and mold risk, portfolio oversight and environmental reporting.	✦ Sports, Travel & High-Occupancy Training facilities, locker rooms, venues, terminals, aircraft, ships and shared transportation. Supports player and staff availability, outbreak awareness, travel continuity and environmental performance.

COMMON ENTERPRISE OUTCOMES

EARLIER AWARENESS See developing conditions before they become obvious.	FASTER INVESTIGATION Use chronology to narrow causes and response.	TARGETED ACTION Focus inspection, ventilation, cleaning, sampling or maintenance.	EVIDENCE OF RECOVERY Compare before, during and after intervention.	PORTFOLIO SCALE Standardize oversight across rooms, sites and regions.
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AIR LEDGER FORENSICS | OCCURRENCES, RECURRENCE AND CONTEXT

PARAINFLUENZA VIRUS Viral Disease Causes respiratory illnesses similar to the flu. 28 occurrences VIEW DETAILS	CHLORHEXIDINE VOC Common antiseptic used in wound cleaning. 14 occurrences VIEW DETAILS	TOLUENE VOC Solvent used in some cleaning agents. 12 occurrences VIEW DETAILS	ETHANOL VOC Used as a disinfectant and in hand sanitizers. 23 occurrences VIEW DETAILS
ORTHO-PHTHALALDEHYDE (OPA) VOC A high-level disinfectant used to sterilize heat-sensitive surgical instruments such as flexible scopes... 19 occurrences	COVID-19 Viral Disease Caused by the SARS-CoV-2 virus. 29 occurrences	ISOPROPYL ALCOHOL (2-PROPANOL) VOC Primary skin-antiseptis and surface-disinfection solvent in interventional suites; the alcohol component of... 29 occurrences	INFLUENZA (FLU) Viral Disease Highly contagious respiratory virus. 31 occurrences

Illustrative customer-configured healthcare workspace. Developing forensic views are hypothesis-generating and complement professional judgment and confirmatory testing.

Build the environmental record your organization does not have today.

SensusAir can begin in one priority room and scale to a campus, portfolio, fleet or multi-country program. The platform is designed to answer defined operating questions, establish a baseline, support action and verify the result.

TYPICAL DEPLOYMENT PATH

1	DEFINE Clarify the operating risk, questions, stakeholders, locations and success measures.
2	BASELINE Place AirVue strategically and establish the site-specific environmental profile.
3	LEARN Review normal patterns, Risk Indices, Occurrences, recurrence and correlations.
4	ACT & VERIFY Intervene, track ceasing time and compare conditions before and after action.
5	SCALE & INTEGRATE Expand across the portfolio and connect environmental intelligence to existing systems.

HOW INTELLIGENCE BECOMES MORE VALUABLE

- + **Correlate environmental change.** Connect air with occupancy, HVAC, equipment state, cleaning, production, illness or performance outcomes.
- + **Standardize oversight.** Create a common environmental language across rooms, sites, regions and operating teams.
- + **Preserve evidence.** Maintain research-ready and audit-ready histories of conditions, response and recovery.
- + **Target follow-up.** Guide inspection, engineering review, maintenance, sampling or confirmatory testing.
- + **Deliver inside existing workflows.** Use apps, dashboards, reports, alerts, APIs, private-label experiences or embedded partner interfaces.
- + **Learn across the portfolio.** Compare baselines, recurring patterns and interventions while respecting site-specific context.

INTEGRATION-READY BY DESIGN

BAS / HVAC Ventilation, alarms and equipment state	OCCUPANCY / SPACE USE How people and activities shape conditions	WEATHER / OUTDOOR AIR External context for indoor change
MAINTENANCE / WORK ORDERS Action, timing and verification	CLINICAL / ILLNESS / AVAILABILITY De-identified outcome correlation where appropriate	PRODUCTION / PROCESS DATA Cycles, zones, quality and operational state

SensusAir adds an environmental intelligence layer to existing control, monitoring and operating systems. It does not require customers or partners to replace the systems they already trust.

A scalable platform, recurring model and expanding intelligence layer

The commercial architecture combines connected hardware, recurring software and data services, advanced analytics and strategic channel relationships. The same platform can support direct customers, enterprise portfolios and partners that want to add environmental intelligence to an installed base.

COMMERCIAL MODEL

- + **Connected hardware.** AirVue devices and future targeted, embedded or wearable form factors.
- + **Recurring subscriptions.** App and dashboard access, alerts, history, standard analytics, reporting and support.
- + **Advanced services.** Custom reports, forensic review, implementation, pilot design, research and advisory support.
- + **Enterprise and channel.** Direct sales, resellers, distributors, system integrators, managed services, private label, OEM and API/data licensing.

COMPETITIVE DIFFERENTIATION

- + **Multimodal environmental intelligence.** One platform connects physical conditions, air-quality signals, biological risk patterns and operational context.
- + **Living Intelligence.** Adaptive baselines and longitudinal pattern recognition learn the characteristics of each environment.
- + **Occurrence lifecycle.** Start, persistence, peak, ceasing time and recurrence are preserved.
- + **Air Ledger chronology.** Conditions, context, action and recovery become organizational memory.
- + **Flexible deployment.** Scale from one high-priority space to enterprise, municipal and multi-country portfolios.
- + **Partner-ready architecture.** APIs, private label, embedded workflow and co-developed form factors extend the platform.

GROWTH PRIORITIES

AI/ML + DATA PRODUCTS Expand Living Intelligence, Risk Indices, plain-language decision support and outcome-linked analytics.	RESEARCH + VALIDATION Advance structured pilots, prospective studies and transparent performance evidence.	HARDWARE + MANUFACTURING Increase capacity, reliability, supply-chain resilience and next-generation sensing options.
FORM FACTORS + OEM Develop embedded, portable and wearable configurations with strategic design partners.	SYSTEMS INTEGRATION Connect BAS/HVAC, occupancy, maintenance, clinical, equipment and operational data.	GLOBAL CHANNELS Scale through distributors, resellers, integrators, licensing and strategic partnerships.

MAKE AIR VISIBLE

Customers can establish a measurable baseline. Partners can add environmental intelligence to their installed base. Researchers can validate new use cases. Investors can help scale the sensing, software and data infrastructure.

RUSS STEPHENS

Chief Executive Officer
678.477.2494
russ@sensusair.com
www.sensusair.com

IMPORTANT NOTES

SensusAir is an environmental intelligence and decision-support platform. Outputs do not constitute clinical diagnosis, laboratory confirmation, regulatory certification or a guarantee of health, safety, compliance or operational outcomes. Capabilities depend on the deployed sensor suite, location, placement, connectivity, environmental conditions, configuration and data quality.