

FEATURE BRIEF

The AI Intelligence Stream

A real-time operational intelligence feed for outbreak surveillance — not a news ticker. Every incoming signal is scored, evidenced, compared to history, de-duplicated, prioritised and routed to the right person for action.

The problem. Outbreak response teams are not short of data — they are drowning in it. Ministry bulletins, hospital reports, lab results, satellite and weather feeds, mobility data, news and field reports arrive faster than any analyst can triage. The bottleneck is not collection; it is deciding, quickly and defensibly, what matters. The AI Intelligence Stream is the triage layer that sits on top of every source and does that work automatically.

12 Live source types Ministry, WHO, Africa CDC, labs, clinics, satellite, weather, mobility, news, research, field & AI signals in one feed.	6-step Triage per item Each signal is scored, evidenced, compared to history, de-duplicated, ranked and routed — automatically.	0–100 Confidence score Rated on source credibility, corroboration, confirmation and historical fit — and always explained in plain language.	1 of 8 Escalated to Critical In the demo scenario only one event escalates. The system suppresses noise instead of amplifying it.
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INSIGHT

The governing principle

Surface what matters most, explain why it matters, show the evidence behind it, and route it to the right person. The purpose is not to show everything equally — it is to protect the team's attention.

Worked example — Guinea, Day 1 → 14

A single suspected case in Nzérékoré becomes a Critical cluster as hospital, community-health-worker, ministry, weather and mobility reports merge and confidence climbs from 64% to 84% — while a lab-confirmed Lassa case in Kenema is de-prioritised to Information because it sits within the district's normal seasonal range. The analyst sees one red alert, not eight.

HOW IT WORKS

Six things happen to every signal

Step	What the system does automatically
1 · Confidence score	Rates each item 0-100 from source credibility, corroboration, confirmation, completeness and historical fit.
2 · Evidence link	Opens to original sources, facts, location and verification — with a plain reason for the score. No conclusion without evidence.
3 · Historical comparison	Flags each signal normal, unusual, concerning or highly abnormal versus prior outbreaks, corridors and rainfall.
4 · De-duplication	Detects when several reports describe the same event and merges them into one card with a shared source list.
5 · Urgency ranking	Ranks Information → Watch → Alert → Critical by severity, confidence, spread potential and cross-border risk.
6 · Action routing	At threshold, auto-creates a task with owner, priority, SLA and status — verify, escalate, brief or monitor.

A passive alert feed	VitaAlert Intelligence Stream
Shows every item with equal weight	Surfaces the few that matter, suppresses the rest
Alerts without provenance	Every score linked back to its source evidence
Nobody owns the next step	Actionable items routed to a named reviewer

DECISION

Why it matters for response teams and funders

Analyst attention is the scarce resource in an outbreak — this system spends it only where it counts:

- Traceability builds trust — ministries and donors see exactly why each call was made.
- Offline-first and human-in-command: it runs in the field and routes decisions to people, not around them.