



HeatSafe Voice Copilot

UAE-FIRST | B2B SAAS | VOICE + LIVE CONTEXT + COMPANY SOPS

HeatSafe Voice Copilot

Hands-free operational safety intelligence for construction teams.

Business model, technology architecture and Meridian Construction demo

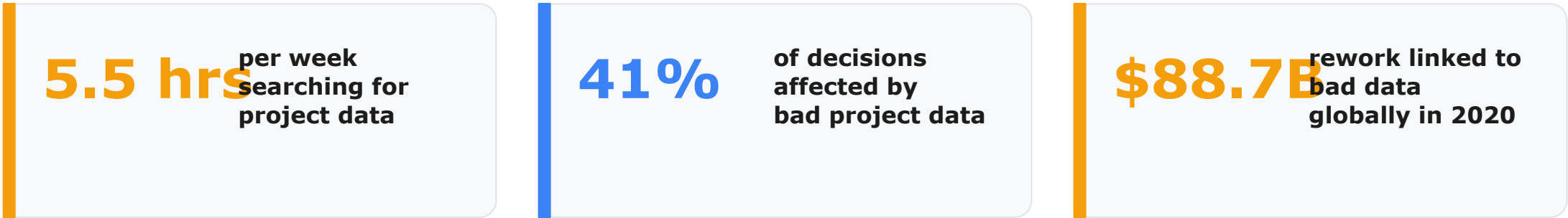
Weather apps tell you the conditions. HeatSafe tells you what they mean for this team, this task, this location and this moment.

August 2026

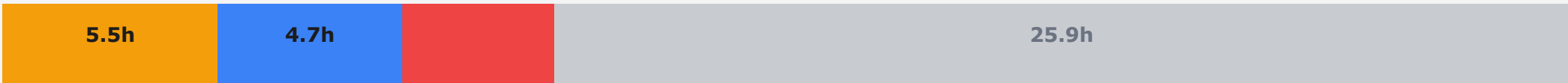


Construction teams lose time before they lose control

The information exists, but it is fragmented, delayed and difficult to use at the point of work.



A 40-hour construction week



● Search: 5.5h/week ● Conflict: 4.7h/week ● Mistakes / rework: 3.9h/week

HeatSafe does not claim to recover all of this time. It targets a narrow, high-value moment: finding the correct rule and acting on it without stopping work to search through documents.

UAE worksites face changing conditions and explicit obligations

Heat, wind and compliance are operational variables, not background information.

12:30–15:00

Daily outdoor work restriction

15 Jun–15 Sep

Annual heat-stress policy period

AED 5K

Per worker; up to AED 50K



Why live context matters

- Wind and gusts can change access, lifting and work-at-height plans.
- Heat and humidity change work-rest, hydration and scheduling requirements.
- Static PDFs cannot combine live conditions with company-specific limits.
- When data cannot be verified, the correct answer is to stop and escalate.

2.2%

of global working hours could be lost to heat stress by 2030

Equivalent to 80 million full-time jobs. Construction is one of the sectors most exposed because work is physical and often outdoors.

HeatSafe surfaces the rule and the evidence. The supervisor remains accountable for the decision.

Two use cases, one voice interface

The product answers two operational questions: "Should we do this now?" and "How do I do this?"

USE CASE 1

Should we do this job right now?

Live environment + company rules

- Checks wind, gusts, temperature, humidity and forecast.
- Retrieves Meridian's relevant threshold from the SOP.
- States the conditions, the threshold and the prescribed action.
- Defers the final operational decision to the supervisor.

Example: "Can we use the scaffold this morning?"



ASK
HEATSAFE

USE CASE 2

How do I do this job correctly?

Company procedure + verified knowledge

- Searches the company SOP, checklist and safety manual.
- Provides steps with the document and section named aloud.
- Uses official or manufacturer guidance only when the SOP is silent.
- Refuses to answer when no reliable source covers the procedure.

Example: "Walk me through the scaffold inspection."

Data model and safety logic

HeatSafe retrieves, classifies, verifies and cites. It never guesses and it never becomes the decision-maker.

SOURCE PRECEDENCE

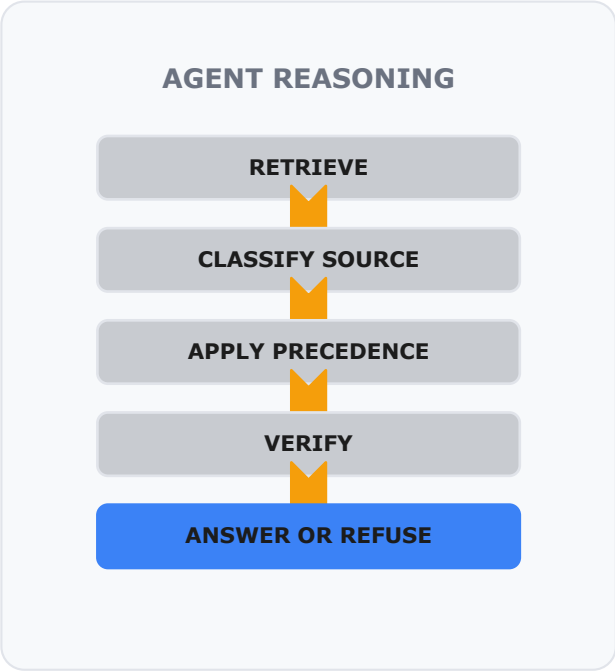
- 1

Company SOP / safety manual
Uploaded Meridian documentation
- 2

Regional law / official guidance
UAE MoHRE and official HSE sources
- 3

Manufacturer documentation
Equipment manuals and bulletins
- 4

General web
Only if stronger sources are unavailable



- EVERY SAFETY RESPONSE CONTAINS
- 1

FACT
Current condition or verified procedure
- 2

SOURCE
Document, section or external authority
- 3

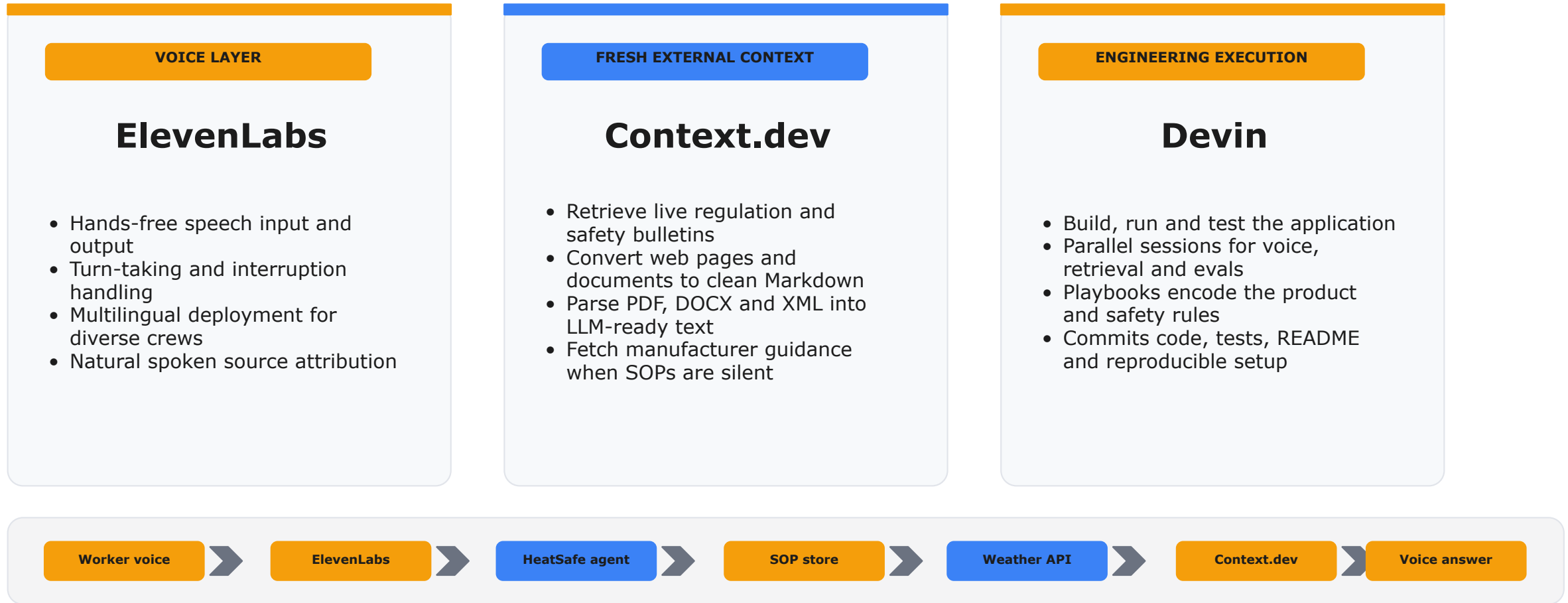
POLICY IMPLICATION
What the source requires or recommends
- 4

HUMAN ESCALATION
Supervisor confirmation before action

Never invent thresholds. Never let the web override a company SOP. Never decide for the supervisor.

Technology architecture: each sponsor tool has one job

A focused stack makes the product easier to build, explain and evaluate.



Production recommendation: use a structured weather API for live readings; use Context.dev for fresh, unstructured web and document context.

Demo: HeatSafe Technologies x Meridian Construction LLC

One fictional customer, three company documents and two use cases.

OUR COMPANY

HeatSafe Technologies

Voice layer, source logic, live context and safety guardrails.

FICTIONAL CLIENT

Meridian Construction LLC

- 500 workers
- Dubai construction site
- 3 pre-loaded SOPs
- Strict 30 km/h scaffold limit

HeatSafe

MERIDIAN SITE • DUBAI

"What should we be working on this morning?"

Wind is 34 km/h. Meridian's Working at Height SOP sets the scaffold limit at 30 km/h. External guidance is less strict, so I am following Meridian's policy. Scaffold work should be suspended. Confirm with your supervisor.

Source: Meridian Working at Height SOP, section 4.2



WHAT THE DEMO PROVES

- 1 Hands-free Q&A**
Worker speaks while hands are occupied.
- 2 Live context**
Wind changes the operational answer.
- 3 SOP overrides the web**
Meridian's stricter threshold wins.
- 4 Source named aloud**
The answer states the exact document.
- 5 Refusal and escalation**
Unknown procedures are not invented.

Unknown answer → ask the supervisor

Business model: per worker, protected by a site minimum

A B2B SaaS model aligns pricing with workforce scale while preserving healthy contract value.

PILOT

AED 5,000

per site / month

- Up to 100 workers
- One site
- 3 SOPs
- 60-day paid pilot

STANDARD

AED 35

per worker / month

- Minimum 250 workers per site
- Voice + weather + SOP retrieval
- Basic usage and source logs
- Annual contract after pilot

CORE OFFER

ENTERPRISE

AED 25–30

per worker / month

- 1,000+ workers
- Multi-site deployment
- SSO, audit logs and APIs
- Multilingual and custom rules

One-time onboarding: AED 15,000–50,000 depending on SOP volume, language packs, integrations and site configuration.

Buyer: Head of HSE • Operations Director • Site Director • COO

Illustrative economics: Meridian at 500 workers

A conservative usage model produces strong platform margins and measurable customer value.

HEATSAFE UNIT ECONOMICS

Monthly revenue	AED 17,500
Runtime COGS	AED 3,016
Gross profit	AED 14,484
Platform gross margin	83%
Annual recurring revenue	AED 210,000

Estimated monthly platform cost



AED 1,469 ElevenLabs • AED 547 Context.dev • AED 1,000 weather, LLM and hosting

CUSTOMER ROI

10 min saved per worker per day

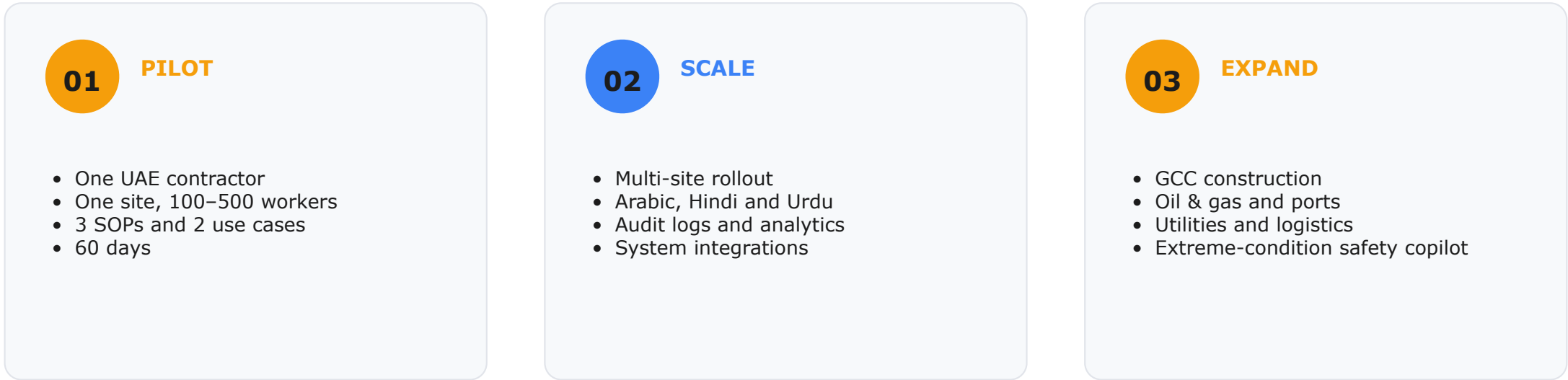
This is only around 15% of the 5.5 hours per week observed in industry research.

Hours recovered / month	1,833
Blended labour value	AED 55,000
HeatSafe subscription	AED 17,500
Value / subscription	3.1x

Before avoided incidents, rework, fines and schedule disruption.

Go-to-market: prove value on one site, then expand

The fastest route is a paid UAE pilot with a clear HSE owner and measurable operating outcomes.



PILOT SCORECARD

Accuracy Eval pass rate	Speed Time to verified answer	Adoption Supervisors and workers active	Efficiency Minutes saved per query	Safety Escalations and policy adherence
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Weather apps tell you it is 42°C. HeatSafe tells you what 42°C means for this team, this task, this location and this moment.