EON AI VENTURES

Human 2.0 & Intelligence Flywheel

Using knowledge to grow people beyond their limits.

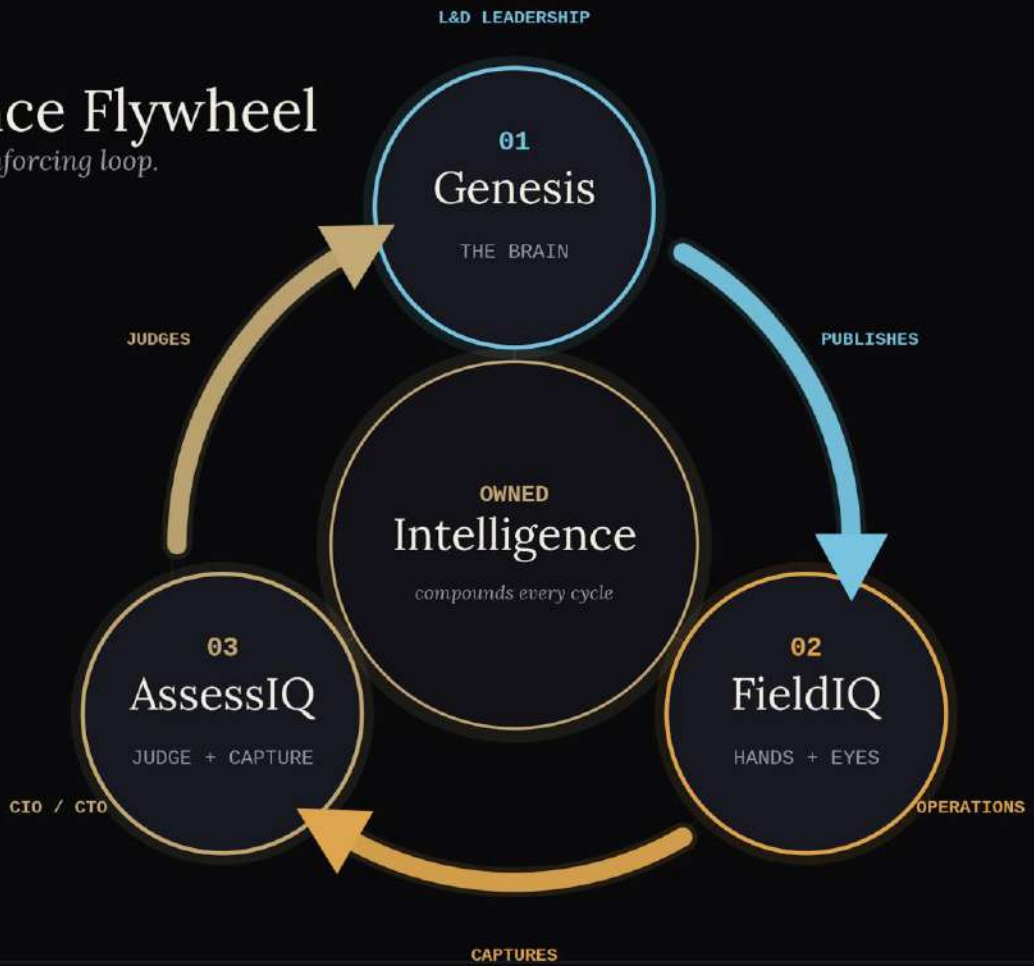
Knowledge, used well, makes people 10x more capable across enterprise, education, and institutional transformation.

Presented by Dan Lejerskar

EON AI Ventures

The Intelligence Flywheel

Three products. One self-reinforcing loop.



EVERY TURN TURNS HUMAN WORK INTO OWNED INTELLIGENCE

Genesis 3

Dashboard

To exit full screen, press and hold Esc

Welcome to GENESIS 3

The AI-Powered Training Creation Platform

Train anywhere.
Simulate anything.
Teach everyone.

GENESIS 3 turns your knowledge into immersive XR training in 11 simple steps.

No 3D expertise required.

The AI does the heavy lifting.

+ New Project | ▶ Quick Start Tour

The Iceberg Principle

Simple for You

One question at a time. Clear options. Guided every step.

You see only what you need to decide.

Powerful Underneath

AI configures interactions, assigns effects, adds sounds, validates logic, and builds immersive training automatically.

The complexity stays below the surface.

The Iceberg Principle

KISS = Keep It Simple, Stupid

The User's Experience

Genesis 3.0 has massive capability — but the user **never sees the complexity.** Each step presents **one simple question** with clear options.

No XR knowledge needed. No 3D expertise required. Just answer the question and move to the next step.

The AI does the heavy lifting.

Steps 6-7 are where magic happens: the AI reads your procedure, understands your 3D model, selects the right interactions from 60+ options, assigns sounds and effects, and produces a complete training draft — **automatically**.

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The Pipeline: 11 Steps, 2 Phases

CREATE MODE
Build the Experience

1	Get the 3D Object	Library / CAD / E3 / Scan
2	Set the Environment	WorldLab / Built-in / Import
3	Label Components	Auto-detect + human review
4	Auto-Configure	AI suggests interactions
5	Define Procedure	SOP / Recipe / AI generates
6	AI Assembles Draft	Automatic — no human input
7	Human Reviews	Conversational refinement

PLAY MODE
Run and Improve

8	Training Mode	Show / Train / Try / Evaluate
9	Choose Device	Desktop / Mobile / AR / VR
10	Interaction + Guide	Input method + guide type
11	Measure + Improve	Scoring / XP / Leaderboard

Each step = **one simple question** with clear options.
The user never sees the complexity underneath.

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1 Get the 3D Object

"What do you want to train on?"

The journey starts with the subject. What piece of equipment, machine, or device does the trainee need to learn about?

Four ways to get your 3D model:

A. Browse thousands of pre-built models in the cloud library
B. Import a CAD model converted to GLB format
C. Use EON 3D Object to create from a photo
D. Scan the real object with your phone or LiDAR

Result: a GLB file with separable mesh components.

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2 Set the Environment

"Where does this training take place?"

Every training needs context. An industrial fan belongs on factory floor, not floating in empty space.

Three options for environments:

A. **WorldLab** — generate from a photo or text prompt
B. Built-in environments (factory, lab, office, outdoor)
C. Import a custom 3D environment as GLB

The 3D object from Step 1 gets placed into this scene.

3 Label Components

"What is each part called?"

The system **auto-detects component names** from mesh metadata and annotations. The user reviews and corrects.

Why this matters: the AI needs to know that "Fan motor brace" is a rotating part and "Fan guard" is a removable cover. Labels are the vocabulary the AI uses to understand your model.

In most cases, **80%+ of labels are auto-detected correctly.** The user just confirms or renames the outliers.

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4 Auto-Configure Interactions

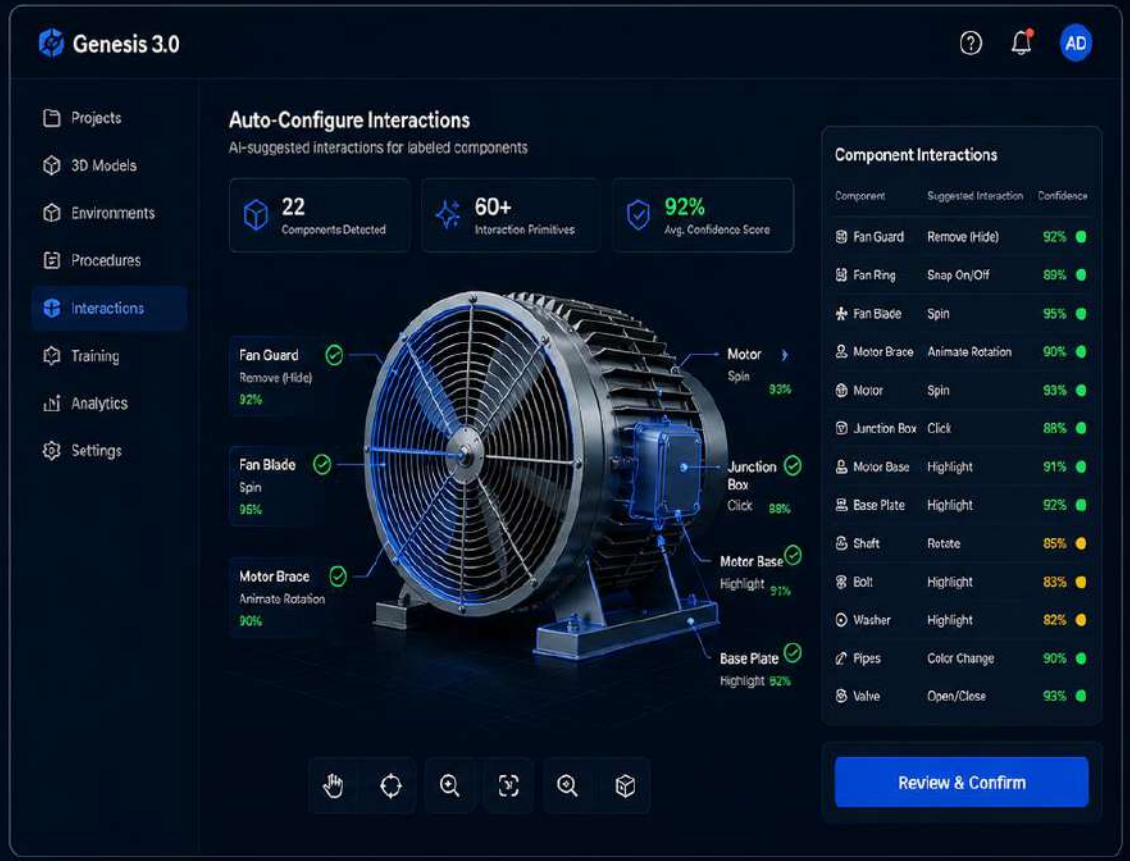
"What can each part do?"

The AI analyzes each labeled component and suggests what interactions it supports — based on geometry, name patterns, and a library of **60+ interaction primitives**.

Examples of auto-detection:

- **Valve** → rotate, open/close, click
- **Fan motor brace** → spin, animate-rotation
- **Fan guard** → remove (hide), snap-on/off
- **Pipes** → highlight, color-change

Confidence scores (e.g. **92%**) show how sure the AI is.
The user reviews suggestions and approves or edits.



5 Define the Procedure

"What should the trainee learn to do?"

Now we define **WHAT the trainee needs to learn.** Three ways:

A. Import an SOP document

Paste or upload the standard operating procedure.

The AI parses it into structured steps.

B. Pick a Recipe template

Reusable patterns like 'Maintenance Inspection' or 'Safety Lockout'.

C. AI generates from context

Tell the AI what the object is, and it uses its training knowledge to create a procedure.

Result: a structured list of procedure steps.

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6 AI Assembles First Draft

Automatic — the AI builds everything

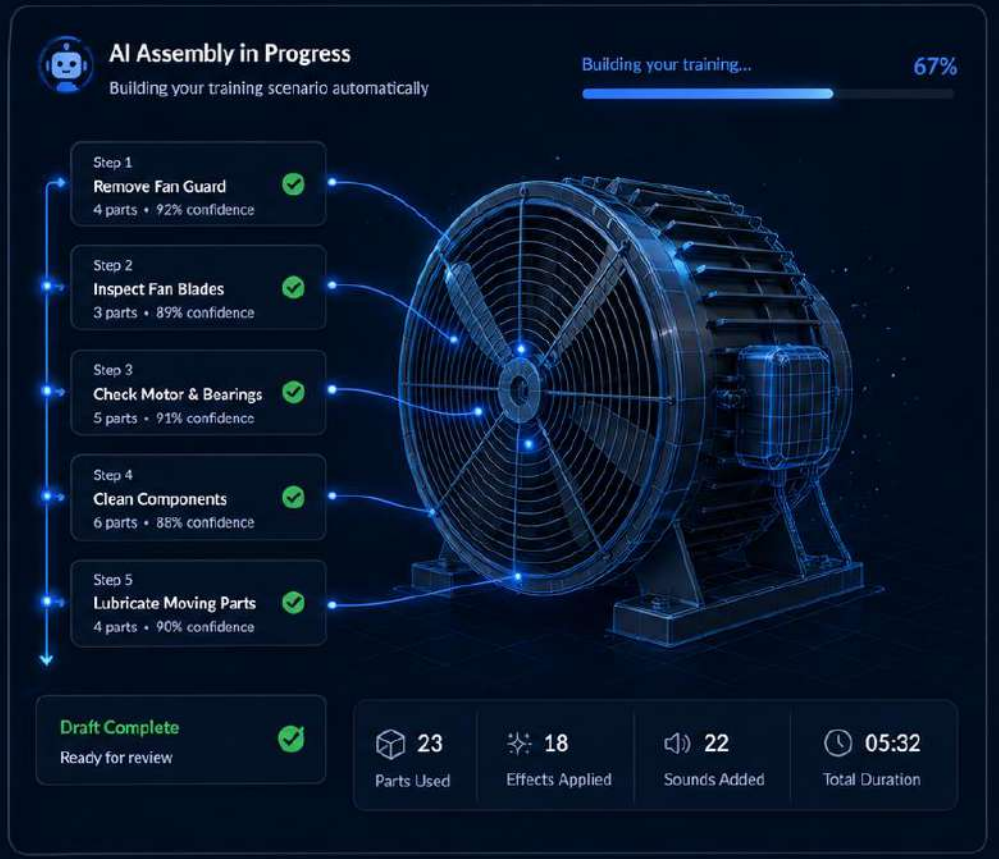
This is where the **magic** happens. **No human input needed.**

The AI reads the procedure steps from Step 5, looks at the labeled meshes from Step 3, checks the available interactions from Step 4, and assembles a complete training scenario:

For each procedure step, it selects:

- Which mesh parts are involved
- What effects to apply (rotate, hide, highlight, particles)
- What sounds to play (22 available)
- What sequence and timing to use

Output: a complete first draft, ready to review.



7 Human Reviews + Refines

"Did the AI get it right? Talk to fix it."

Play through the AI's draft and spot anything wrong. Then **tell the AI what to fix using natural language:**

> *"The smoke is too small"*
>
> *"Wrong part is spinning — it should be the fan blade"*
>
> *"Add a warning sound before the valve opens"*
>
> *"Make the sequence slower"*

The AI understands context and fixes the specific issue.

Iterate until the training looks right.

Future: AI self-reviews by taking screenshots and checking.

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8 Choose Training Mode

PLAY

"How should the trainee learn?"

Four progressive training modes, each building on the last:

- **Show Me** — Watch and learn. The system demonstrates the entire procedure with a guide.
- **Train** — Guided practice with auto-hints at 10s, 20s, 30s.
- **Let Me Try** — Silent practice. No hints, but mistakes are tracked without penalty.
- **Evaluate Me** — Timed assessment with scoring, auto-fail on critical steps, and a final certificate.

IMAGE

9 Choose Device

PLAY

"Where will trainees access this?"

The **same training runs on any device.** The system adapts the interaction method automatically:

Desktop Web — full browser experience, mouse and keyboard.

Mobile / Tablet — responsive touch UI with 'chopstick' pointer for precise 3D interaction.

AR Viewer / AR Glasses — overlay the 3D model on the real world using the device camera or AR glasses.

VR Headset — fully immersive WebXR with controllers.

IMAGE

One training. Any device. Same results.

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10 Interaction + Guide Modality

PLAY

Two layers: how to interact + how to be guided

Layer 1 — Input Method (depends on device):

- **Desktop:** mouse + keyboard
- **Mobile:** chopstick pointer + buttons
- **VR:** controllers | **AR:** gestures + gaze

Layer 2 — Guide Method (for Show Me and Train):

- **HeyGen AI Agent** — a realistic AI person explains each step.
- **Drone Fly-through** — camera flies to each component.
- **Mixamo Avatar** — 3D animated character demonstrates actions.
- **Virtual Hands** — hands point to and interact with parts.

Agent + Drone can work together.

1 HeyGen AI Agent

Layer 2 AI explains each step in natural language.

1 Drone Fly-through

Layer 2 Drone camera flies to each component.

1 Mixamo Avatar

Layer 2 Animated avatar demonstrates actions.

1 Virtual Hands

Layer 2 Virtual hands point and interact with parts.

1 **Layer 1** You choose how to input. → 2 **Layer 2** You choose how to be guided. → **Combined** Best learning experience.

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11 Measure + Improve

"How are trainees performing?"

Comprehensive measurement across every dimension:

- **Scoring** — per-step scoring with configurable weights, critical step auto-fail, hint/retry penalties, time bonuses.
- **Gamification** — XP earned per training, badge system, daily streaks, skill progression.
- **Leaderboard** — competitive ranking across teams.
- **Oral Assessment** — AI grades spoken explanations against keyword criteria.
- **Instructor Dashboard** — real-time monitoring of all active trainees.

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11 Steps. Zero Expertise.

From raw 3D model to scored, multi-device XR Simulation — guided by **AI at every step**.

CREATE

1. Get 3D Object
2. Set Environment
3. Label Components
4. Auto-Configure
5. Define Procedure
6. AI Assembles Draft
7. Human Reviews

PLAY

8. Training Mode
9. Choose Device
10. Interaction + Guide
11. Measure + Improve

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Demo Videos

1 Create

Simple Gas Compressor — built from one SOP. Watch Genesis 3 read the procedure, identify 335 components, and auto-generate every camera angle, HUD overlay, and effect.

VIDEO LINK

DEMO LINK CREATE

2 Play

Simple Gas Compressor — the trainee experience. Live AI Avatar narration walks the user through the valve shutdown sequence step by step, with cinematic close-ups and real-time scoring.

VIDEO LINK

DEMO LINK PLAY

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Genesis 3 - Play

What the AI Generates

Nine simultaneous layers of automation, synchronized in lock-step from a Word doc and a 3D model.

Companion to the Genesis 3 Pipeline 11-step deck | Internal + External use | May 2026

The Iceberg Principle - Play Edition

"What the trainee sees vs. what Genesis just did automatically"

What the trainee sees

A clear narrated step, a visible 3D scene, timed HUD cards, a friendly avatar, matched sounds, and pacing that feels natural.

What Genesis just did automatically

Parsed the SOP, identified components by function, generated 41 synchronized steps, computed camera angles, synthesized HUD cards, orchestrated highlights, synchronized narration, mapped sound, and decided pacing.

Most simulation tooling does one or two of these reasonably. None do all nine automatically, in lock-step.

Inside the Play Output: 9 Layers of AI-Authored Content

Each layer normally requires a different specialist on a traditional team. Genesis runs all nine in lock-step.

1 SOP Parsing	2 Geometric Understanding	3 Step Generation
4 Camera Path	5 HUD Synthesis	6 Mesh Highlights
7 Avatar Narration	8 Sound Design	9 Pacing

All nine, simultaneous, synchronized - from a Word doc and a 3D model.

1 SOP Parsing & Semantic Extraction

"What does the procedure actually say?"

Genesis reads a standard operating procedure and extracts tools, safety conditions, sequence, sub-steps, pre-conditions, and post-conditions.

Structured semantic understanding, not pattern matching.

What used to take a senior instructional designer days of structured notes happens automatically the moment the SOP is dropped in.

2 3D Geometric & Functional Understanding

"What is each component, and what does it do?"

The 3D model is not treated as a list of mesh names. Genesis identifies what each component is and what it does.

fan guard, motor brace, valve assembly, louvre slats, control panels, junction boxes, tube bundles.

Functional understanding, not just labels.

3 Step Generation & Sequencing

"What are the 41 steps, and in what order?"

From the SOP and geometry, Genesis generates title, instruction, target component, action verb, expected duration, and downstream effect for each step.

The output is a 41-step sequence that maps cleanly back to the source SOP.

Ready to drive the rest of the pipeline.

4 Camera Path Computation

"Where should the user look at this step?"

Every step gets its own camera angle. Genesis raycasts the geometry to find a clear viewing angle to the target component.

On large meshes the system uses outline-only viewpoints; on small components it pushes in close.

The framing matches what a senior cinematographer would choose.

5 HUD Card Synthesis

"What overlay should the trainee see right now?"

Genesis synthesizes clipboard checklists, PPE cards, radio communications, voltmeter readings, pressure-gauge readouts, and tag-inspection cards.

Each overlay appears at the moment the procedure calls for it.

This is the detail that separates a guided tour from a real training simulation.

6 Mesh Highlight Orchestration

"Which part should glow, and in what color?"

Components are highlighted in semantically meaningful colors - green for confirmation, blue for direction-of-attention, red for caution.

Highlights fade in and out at the right moments, with outline-only treatment for large meshes and custom visibility when parts must disappear and reappear.

The kind of detail most hand-authored simulations never budget for across 41 steps.

7 Avatar Narration Synchronization

"What does the avatar say, and when?"

The avatar speaks each step's narration while the simulation visuals progress in sync.

No voice-actor session, no lip-sync editing, no timing-adjustment passes.

When the camera moves or a valve rotates, the narration lands on the same beat.

8 Sound Design Mapping

"What does the right sound effect feel like here?"

Switch clicks, fan whirs, valve opens, metal collisions, wrench turns, success chimes - each mapped automatically to the correct step.

Genesis knows which procedural moment deserves which sound signature.

The sonic layer that turns watching a procedure into experiencing one.

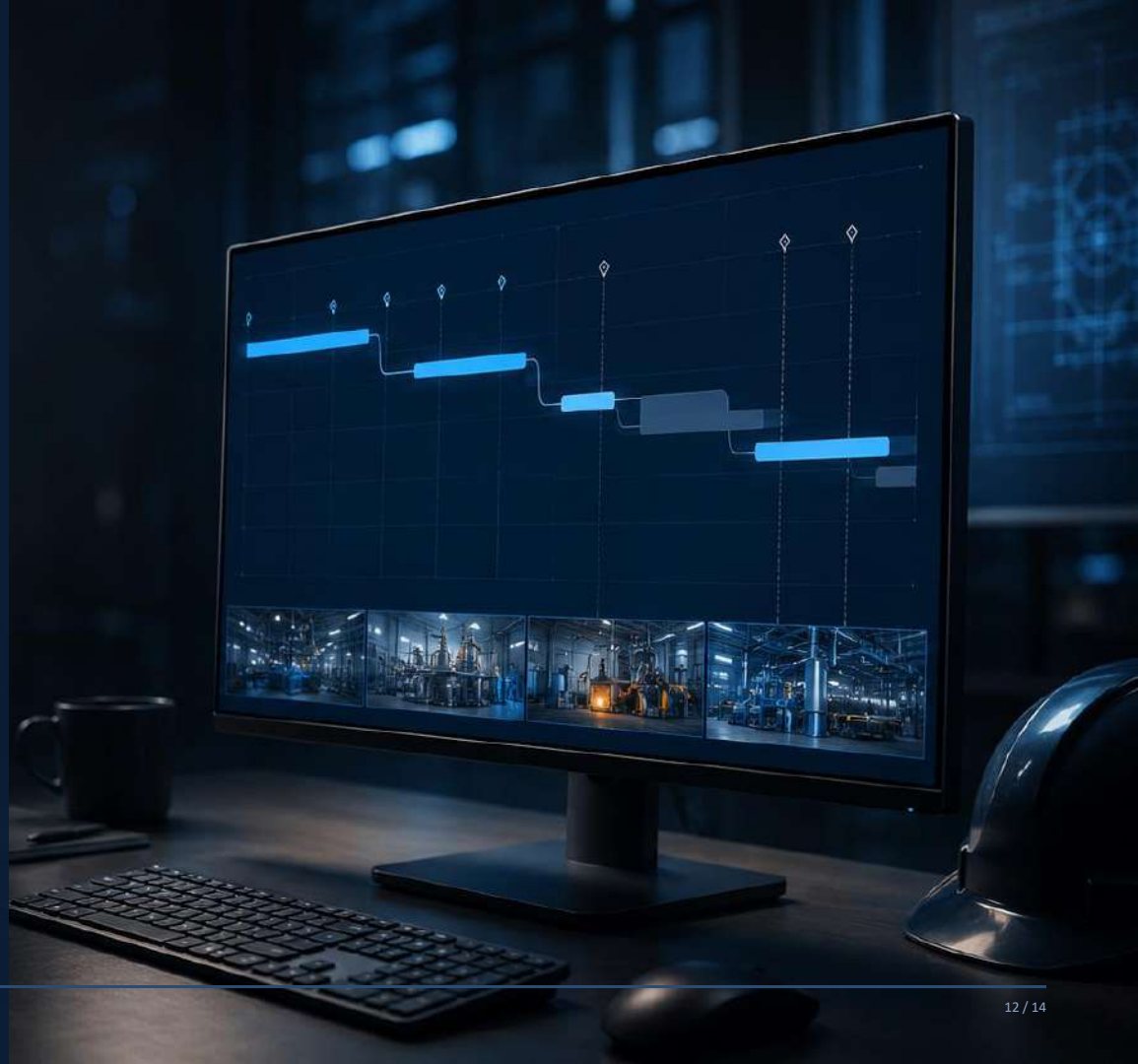
9 Pacing & Orchestration

"How long does each beat take, and how do beats connect?"

Genesis decides step durations, transitions, where to linger, and where to move quickly based on procedural complexity.

Faster pacing for routine confirmations; slower pacing for safety-critical actions.

The result is a 41-step training that feels coherent rather than rushed or slideshow-like.



9 Layers. One Output. Synchronized.

From a Word doc and a 3D model - automatically - in minutes.

1. **SOP Parsing**
2. **Geometric Understanding**
3. **Step Generation**
4. **Camera Path**
5. **HUD Synthesis**
6. **Mesh Highlights**
7. **Avatar Narration**
8. **Sound Design**
9. **Pacing.**

Most simulation tooling does one or two layers reasonably. None do all nine automatically, in lock-step.

What This Unlocks

From training-as-project to training-as-pipeline

90-95%

Time Saved

From 2-6 months of authoring to minutes. The remaining 5-10% is cosmetic refinement on top of an automated baseline that already covers 80-90% of a finished simulation.

~10x

Cost Reduction

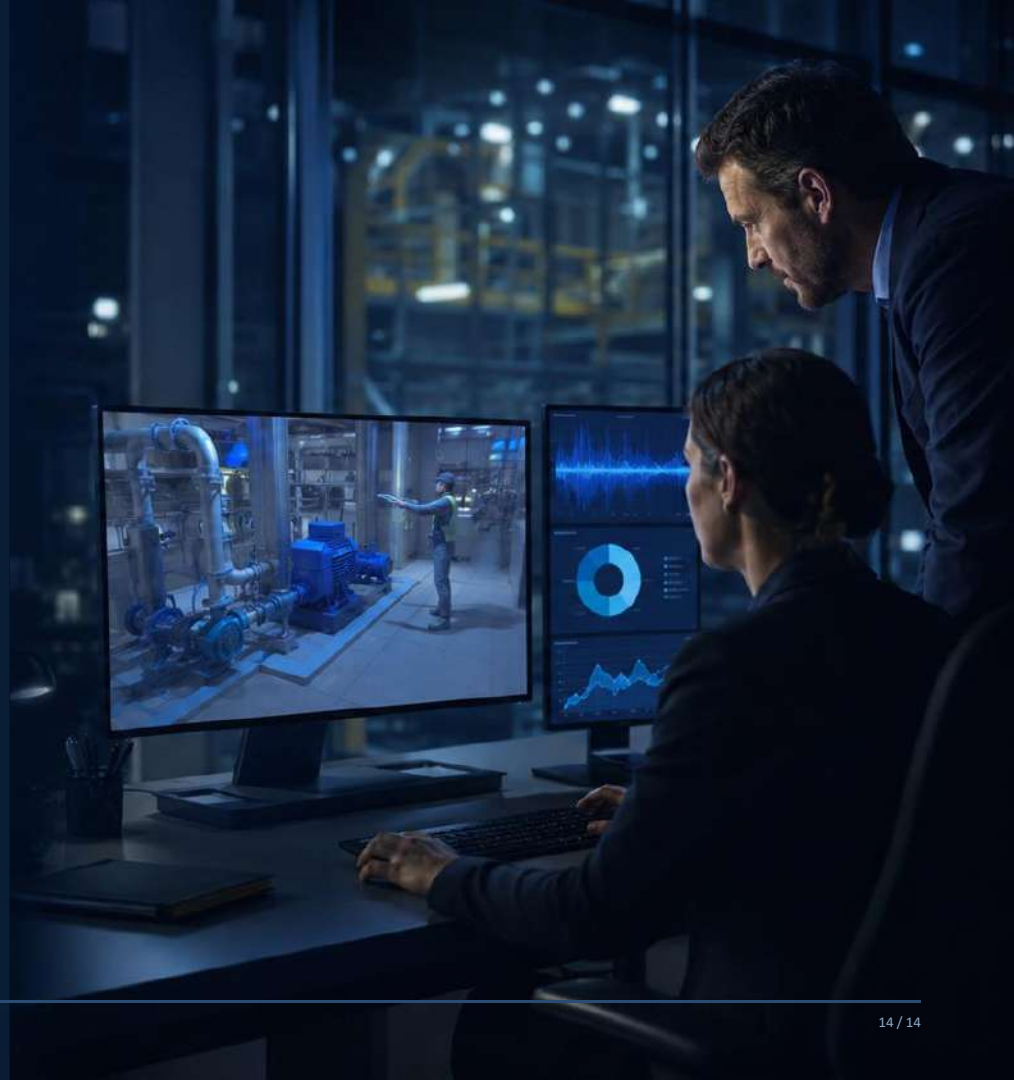
From $500K-$600K per simulation to about $50K per SOP delivered.

3-8% -> 50-90%

Reach Expansion

Industrial XR adoption has been stuck at 3-8% for over a decade because of unit economics, not skepticism.

Try the live demo: https://eon-genesis-3.vercel.app/import-demo | admin@eon.ai / Demo1234!



Field IQ

Field IQ

The Four Journeys

From install to insight — the smartest expert on your shoulder.

From device setup to content authoring to floor execution to supervisor monitoring — every interaction with Field IQ, across four journeys.

JOURNEY 1 — **System Setup**
7 steps
IT admin · once per device

JOURNEY 2 — **Training Session Setup**
9 steps
Master technician · powered by Genesis

JOURNEY 3 — **Field Use**
10 steps
Worker on the floor · the hero journey

JOURNEY 4 — **Monitor**
7 steps
Supervisor · process-safety · L&D

33 STEPS · 4 JOURNEYS · ONE EXPERT ON YOUR SHOULDER

Field IQ Walkthrough

Field IQ — The Four Journeys

From install to insight — every interaction in the Field IQ product, on one page.

1. SYSTEM SETUP

IT ADMIN · ONCE PER DEVICE

Install and activate Field IQ on the worker's device.

1. Install Field IQ on iPhone or ruggedized tablet
2. Sign in with EON AI SSO
3. Pair Ray-Ban Display glasses
4. Pair Neural Band wristband
5. Connect to your Genesis workspace
6. Sync site content for offline use
7. Run a self-test and you're ready

7 STEPS

2. TRAINING SESSION SETUP

MASTER TECHNICIAN + CONTENT AUTHOR

Author once in Genesis. Publish to every Field IQ device.

POWERED BY GENESIS

1. Pick the equipment to author for
2. Use existing 3D scan or capture new
3. Import SOP or capture from the master
4. Genesis auto-structures the procedure
5. Genesis labels components & interactions
6. AI assembles a complete first draft
7. Master technician reviews and refines
8. Assign to a site and a workforce
9. Publish to Field IQ — content goes live

9 STEPS

3. FIELD USE ★

WORKER ON THE FLOOR — THE HERO JOURNEY

The smartest expert on your shoulder — watching, anticipating, helping when asked.

1. Walk up — AI activates from what it sees
2. AI recognises the equipment + task
3. Pick mode: walk-through or stand-by
4. AI quietly tracks your progress
5. Ask for a refresher — get the next step
6. Hit a problem? Describe it — AI knows where
7. AI shows the reference (image, clip, animation)
8. You act — AI confirms the step is done
9. AI flags anything off, helps you correct
10. Finish — audit log + edge cases archived

10 STEPS

4. MONITOR

SUPERVISOR · PROCESS-SAFETY · L&D

Catch the moment something goes wrong. Learn from everything that did.

1. Open Field IQ Monitor — live + history
2. See every active session, every paired worker
3. AI watches each session for safety + correctness
4. Alerted on risk: wrong location, missed step, hazard
5. Replay any session, AI-narrated, frame by frame
6. Per-session assessment + per-worker competency
7. Export for compliance, training, edge-case archive

7 STEPS

33 *total steps · every step grounds to a screen, a data shape, and an API call*

1

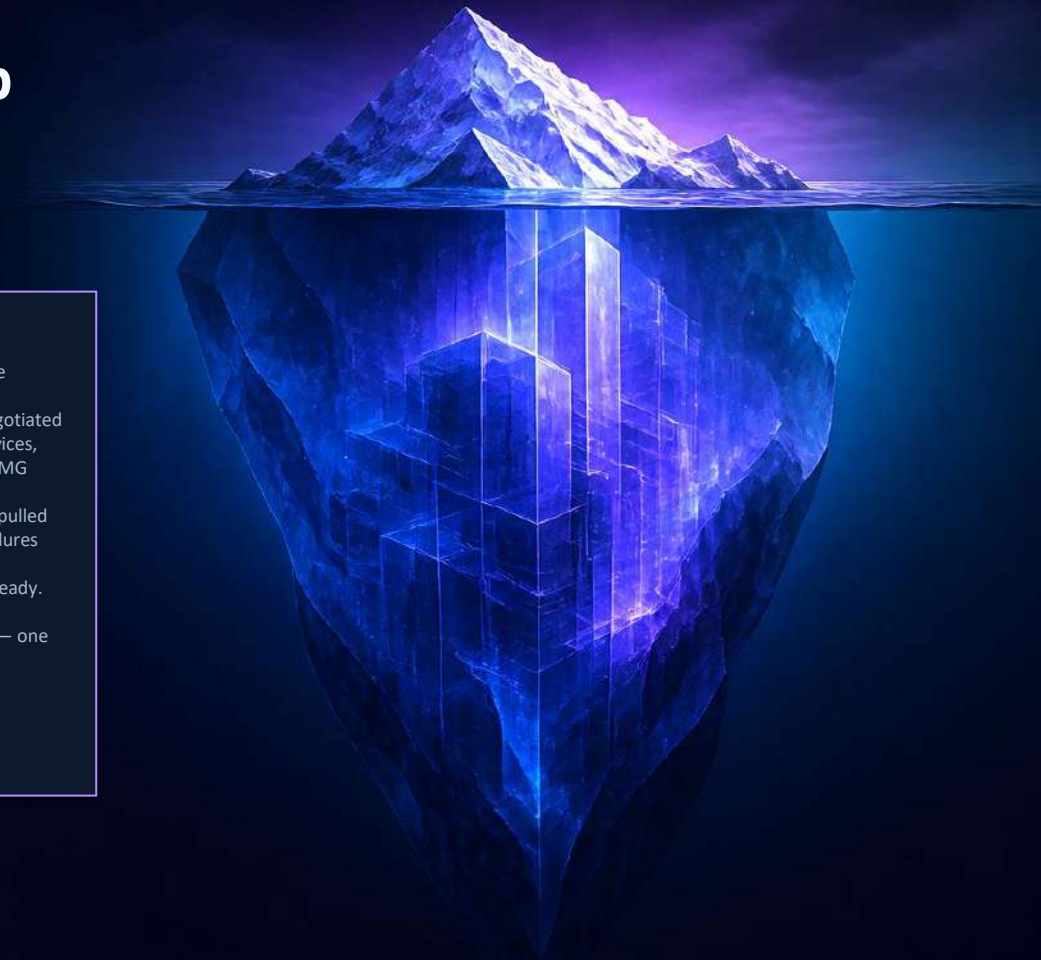
System Setup

Five Minutes to Field-Ready

Seven steps for the IT admin to take a fresh device from box to certified-for-field. Once per device, then never again. The boring journey done in five minutes — so the interesting ones can run.

The Iceberg Principle — Setup Edition

What Priya experiences vs. what Field IQ provisions for her



WHAT THE IT ADMIN EXPERIENCES

Priya unboxes the glasses and the wristband. Installs Field IQ on the iPhone. Worker walks in, scans an SSO code. Two BT pairings, ten seconds each. One workspace dropdown selection. Watches the sync bar fill for two minutes. Taps self-test, sees green checks. Hands the device to the worker.

Five minutes from box to floor-ready.

WHAT FIELD IQ JUST PROVISIONED

Authenticated the worker against the corporate IdP, loaded their role, certifications, and assigned sites. Negotiated BLE pairing handshakes with two devices, queried capabilities, calibrated the EMG gesture model to the worker's wrist. Tethered to the Genesis workspace, pulled the manifest, delta-synced 47 procedures (3.2 GB) over CDN. Ran a 9-channel diagnostic and signed the device as ready.

A typical first-day enterprise rollout — one device at a time, or 500 at a time.

The setup journey is boring on purpose. Boring means trustworthy.

The IT Admin's Seven Steps

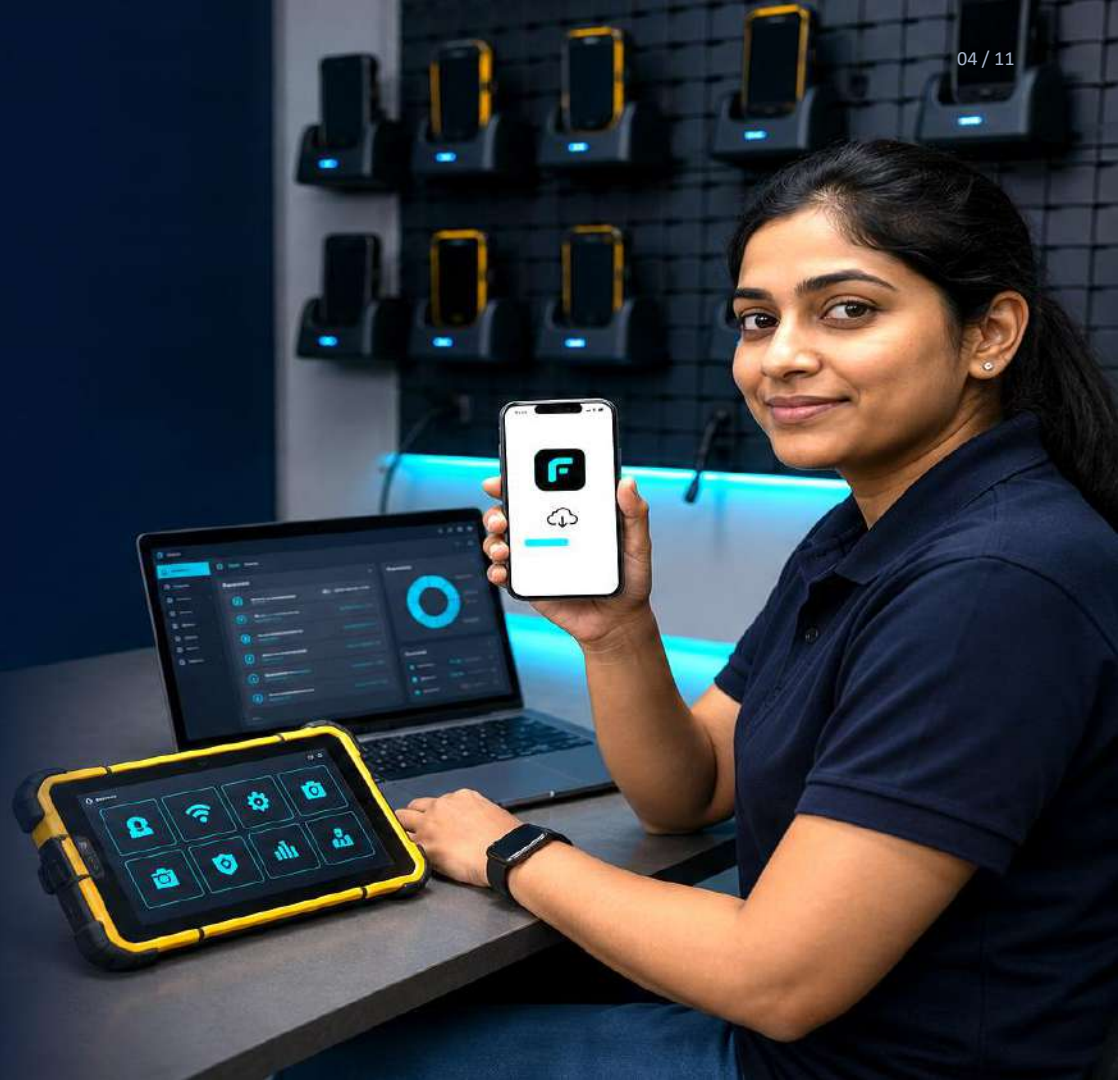
Three phases — install, pair, and connect — then hand it to the worker.

1 Install Field IQ on iPhone or Ruggedized Tablet

"What device runs Field IQ?"

Field IQ runs on a standard iPhone for office, L&D, and controlled-zone work, or on a ruggedized intrinsically-safe tablet for hazardous-area operations. The app installs from the App Store or your enterprise MDM in seconds.
One install per device — the only act of installation in the journey.

A. Consumer iPhone — for office, L&D, and controlled operational areas
B. Ruggedized IS-rated tablet — for hazardous-zone operations under PPE
C. Enterprise MDM rollout — push to the entire fleet at once



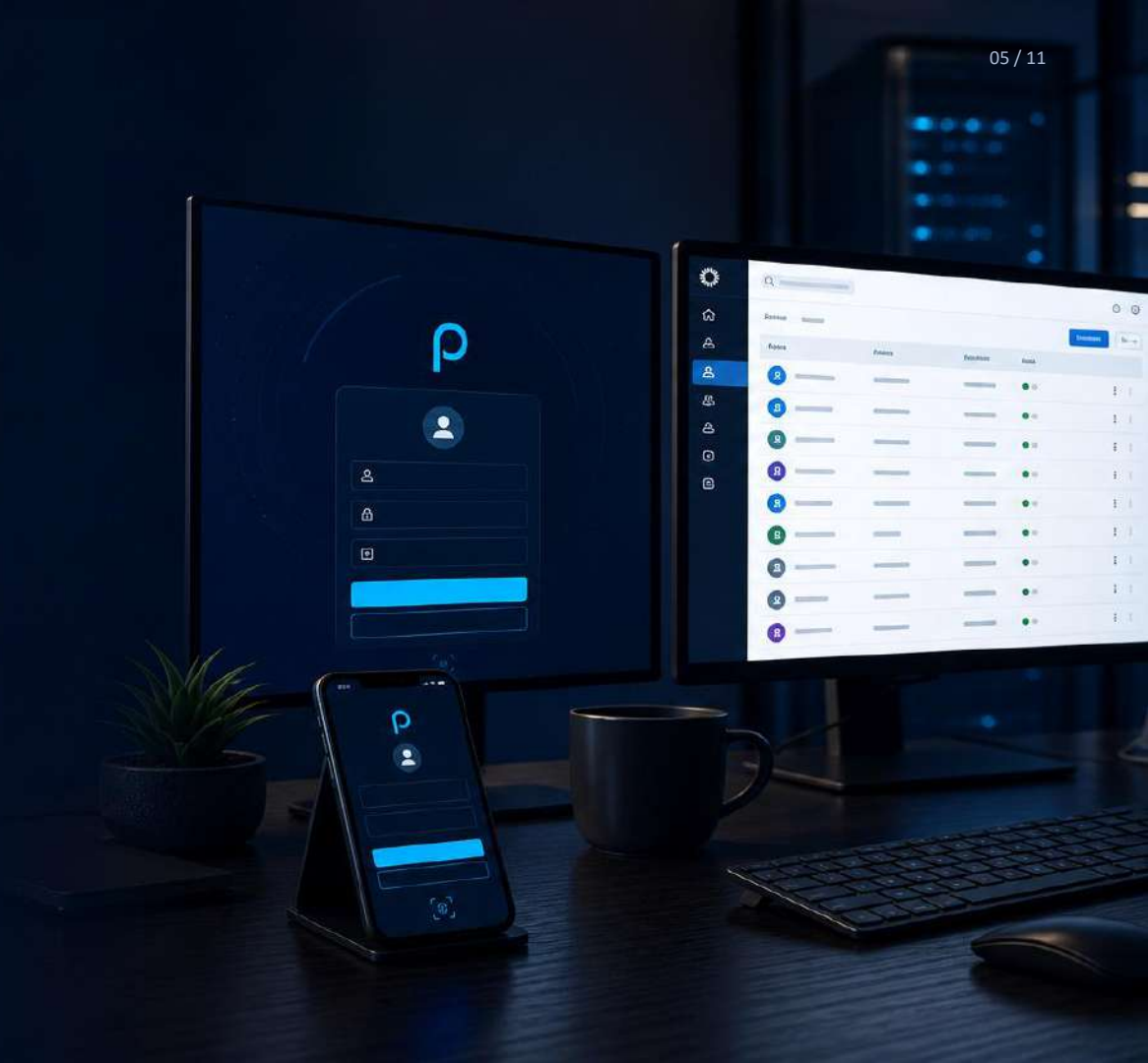
Result: *Field IQ app installed, ready to authenticate.*

2 Sign in with EON AI Ventures SSO

"How does Field IQ know who's using it?"

First launch prompts for SSO. EON AI Ventures supports SAML or OIDC into your existing identity provider — Okta, Azure AD, Ping, Google Workspace.
The worker's role, certifications, and assigned sites flow in from your directory automatically. No second login screen, no separate credential database.

A. EON AI Ventures SSO — the default identity provider
B. Customer SSO — SAML or OIDC integration with your existing IdP
C. Pilot mode — anonymous credentials for early-stage demos and trials



Result: *worker identity established, role and permissions loaded from your IdP.*

3 Pair Ray-Ban Display Glasses

"How do the glasses connect to the device?"

Standard Bluetooth pairing. The Field IQ app discovers nearby Meta Ray-Ban Display glasses, pairs in seconds, and registers them to the worker's device.
No special hardware, no proprietary protocol — Meta's standard pairing flow, wrapped in a Field IQ-aware UX that registers capabilities (display, speakers, camera, SDK version).

A. New glasses — first-time pairing to this device
B. Re-pair existing glasses — for a different worker assignment
C. Shared-device pairing — one set of glasses across a small team

Result: *glasses paired, identified, and registered with their capabilities.*

4 Pair Neural Band Wristband

"What about the wristband?"

The Meta Neural Band pairs the same way — Bluetooth, a few seconds, registered to the worker. Optional but strongly recommended; it's what provides the wrist haptic for safety alerts and the pinch-confirm gesture for hands-free interaction.
Skipping the band still works (voice-only mode), but you lose the haptic channel that makes the safety story strongest.

A. Pair Neural Band — recommended for hands-free interaction and haptic safety alerts
B. Skip Neural Band — voice-only mode (still functional)
C. Replace Neural Band — re-pair if the worker swaps to a new one

Result: *wristband paired, haptic channel ready, gesture model calibrated to the worker.*

5 Connect to Your Genesis Workspace

"Where does the procedure content come from?"

Each Field IQ device connects to a Genesis workspace — the customer's authoring environment where procedures live.
One-time connection.
From this point on, the device automatically syncs procedures, asset updates, and policy changes from Genesis.
No manual content loading, ever.

A. Production workspace — the live customer environment
B. Pilot workspace — a sandboxed environment for testing new procedures
C. Multi-workspace — for contractors or workers operating across customer environments

Result: *device tethered to the Genesis workspace, content sync ready to begin.*

6 Sync Site Content for Offline Use

"What if there's no network in the field?"

Field IQ syncs procedure content for offline use — every procedure assigned to the worker's site downloads to the device before they go on shift. In hazardous zones with no signal, the worker still has the full procedure library and reference assets.
Smart sync prioritizes what's most likely needed and delta-syncs on subsequent runs. Battery and bandwidth optimized for field reality.

A. Sync all assigned procedures — full library, ~minutes of download
B. Sync this shift's procedures — battery and bandwidth optimization
C. Smart sync — Genesis predicts what's likely needed for this worker's day

Result: *complete offline-ready content, signed and versioned, refreshed automatically.*

7 Run a Self-Test and You're Ready

"How do we know everything works before sending the worker to the floor?"

A 30-second automated self-test exercises every channel — camera, microphone, speakers, HUD render, haptic, voice command, photo capture, Genesis connection, offline content integrity.
Green check on every channel, the device is certified, and it's ready to issue to the worker. A bad device never reaches the field.

A. Quick self-test — 30 seconds, automated, runs on every shift change
B. Full diagnostic — 5 minutes, deeper hardware checks, runs weekly
C. Pre-shift check — the worker runs this themselves before going to the floor

Result: *device certified, ready to issue to the worker for their shift.*

7 Steps. Five Minutes. Worker on the Floor.

Once per device. Then never again — every shift, every worker, just pick it up and go.

1 – 2	INSTALL	Field IQ app installed, worker identity from your IdP
3 – 4	PAIR	Ray-Ban Display + Neural Band paired and calibrated
5 – 6	CONNECT	Genesis workspace tethered, full content synced offline
7	CERTIFY	Nine-channel self-test passes — device ready for the floor

2 Training Session Setup

Powered by Genesis

Author once. Publish to every Field IQ device, everywhere.

Master technician's expertise + Genesis's 9-layer authoring pipeline + Field IQ's deployment fleet. The same content that powers VR training also powers field guidance — automatically.

The Iceberg Principle — Authoring Edition

What Maya and Carlos experience vs. what Genesis just did automatically

WHAT THE AUTHORING TEAM EXPERIENCES

Maya picks the centrifugal pump skid from the library. Drops the LOTO SOP into Genesis. Carlos sits in the booth for a 30-minute interview on edge cases. Together they review the AI-assembled draft over coffee — Carlos fixes three things in natural language, approves the rest. Maya assigns to two sites and the LOTO-certified workforce, clicks Publish.

A single half-day of work.

WHAT GENESIS JUST DID FOR THEM

Loaded a 14-million-point LiDAR scan, segmented it into 47 components. Parsed the LOTO SOP into 12 structured steps. Transcribed and structured the master interview, fused edge-case knowledge into the steps. Mapped every step to the right 3D component (43 auto, 4 review). Synthesised 12 HUD cards, 12 narration clips, 12 cinematic camera paths, 22 sound effects. Pushed the procedure to 47 paired devices.

Weeks of traditional authoring, in hours.

The team writes one document. Genesis builds the field-ready product.

From Equipment to Field — Nine Steps

Genesis (1-7) authors the procedure. Field IQ (8-9) deploys it.

STEPS 1-7 · POWERED BY GENESIS

1. Pick the Equipment to Author For
2. Use Existing 3D Scan or Capture New
3. Import SOP or Capture from the Master
4. Genesis Auto-Structures the Procedure
5. Genesis Labels Components & Interactions
6. AI Assembles a Complete First Draft
7. Master Technician Reviews and Refines

STEPS 8-9 · FIELD IQ DEPLOYMENT

8. Assign to a Site and a Workforce
9. Publish to Field IQ — Content Goes Live

1 Pick the Equipment to Author For

"What does the trainee need to learn?"

The first decision is the subject. Maya, the content author, picks the piece of equipment a worker needs to be trained or guided on. Field IQ pulls from the EON AI Ventures library of pre-built models, the customer's own scan catalogue, or accepts a brand-new equipment definition.

One choice, the entire authoring context loads.

A. Browse the equipment library — thousands of pre-built models

B. Pick from your own scan catalogue — equipment you have already captured

C. Add new equipment — triggers a scan capture in the next step

Result: *equipment selected, ready for content authoring.*

GENESIS VISUAL

2 Use Existing 3D Scan or Capture New

"Where does the 3D model come from?"

Most enterprises already have thousands of LiDAR scans — that's the "stranded digital capital" Field IQ activates. Maya picks from the existing scan archive, or arranges a new capture if the equipment isn't yet in the library.

Genesis ingests either path identically — the procedure authoring downstream doesn't care how the model got there.

A. Existing LiDAR scan — selected from the asset library

B. Phone photogrammetry — capture-and-walk-around with a worker's iPhone

C. CAD model imported as GLB

D. New scan scheduled — Genesis manages the capture and ingestion

Result: *a 3D twin loaded into Genesis with separable mesh components.*

GENESIS VISUAL

3 Import SOP or Capture from the Master

"Where does the procedure knowledge come from?"

Two paths converge here. Maya either imports the existing SOP — the corporate procedure document — or she conducts a structured capture session with Carlos, the master technician.

Genesis parses both into the same structured form. The SOP gives the procedure backbone; the master gives the judgment that isn't in the SOP.

A. Import the SOP (PDF, Word, or structured text)

B. Capture from the master — Genesis interview mode, voice and video

C. Hybrid — import the SOP and supplement with master commentary on edge cases

Result: *a structured procedure manuscript, ready for AI structuring.*

4 Genesis Auto-Structures the Procedure

"How does raw content become structured steps?"

Genesis reads the manuscript and breaks it into structured procedure steps — each with a title, action verb, target component hint, expected outcome, and a safety-gate flag.

The AI does the heavy lifting; Maya reviews the output. What used to take a senior instructional designer days happens in minutes.

A. Auto-extract steps — Genesis identifies the imperative actions

B. Auto-identify safety gates — lockout, PPE checks, hazard verifications

C. Auto-classify step types — positional, sequential, observational

Result: *a structured 12-step procedure draft, ready for component mapping.*

5 Genesis Labels Components & Interactions

"Which 3D part does each step act on?"

For each step, Genesis maps the action to the correct 3D component on the digital twin. "Open valve V-204" gets tied to the V-204 mesh, with the right interaction primitive (rotate, push, slide, observe).

Confidence scores show Maya which mappings are solid and which need a second look. In most cases, 80%+ are auto-detected correctly.

A. Auto-map components — CV + name matching + spatial proximity

B. Auto-pick interactions — from the Genesis library of 60+ primitives

C. Confidence review — Maya checks anything below 0.9

Result: *each step tied to a real 3D component, with the right interaction primitive.*

6 AI Assembles a Complete First Draft

"What happens when everything comes together?"

This is where the magic happens. Genesis assembles a complete first-draft procedure — camera paths, HUD card content, animations, narration audio, sound effects, pacing — the nine layers from the Genesis 3 Play deck, all running in lock-step, automatic.

What used to take a team of specialists months happens in minutes. Genesis 3 already does this for VR training; for Field IQ it produces both the VR training assets and the Field IQ HUD assets in the same pass.

A. Camera + HUD synthesis — what the worker will see, per step

B. Narration + sound — what the worker will hear, synchronized to the visuals

C. Pacing + transitions — how the procedure feels in motion, beat by beat

Result: *a complete first-draft procedure, playable end to end, in VR and on Field IQ glasses.*

7 Master Technician Reviews and Refines

"Did the AI get it right?"

Carlos, the master technician, runs through the draft procedure. He plays each step, watches the AI-generated explanation, and tells Genesis what to fix in natural language — "the smoke is too big," "wrong part is spinning," "add a warning sound before this step."

Genesis understands context and fixes the specific issue. Iterate until the draft matches the master's expertise. The judgment that isn't in the SOP is now in the system.

A. Play through the draft — full procedure in Genesis Play Mode, with Field IQ HUD preview

B. Conversational refinement — natural-language fixes ("slower at step 4", "highlight in red, not green")

C. Direct edit — Carlos or Maya can manually adjust assets or text

Result: *a refined procedure, accurate to the master's expertise, ready to publish.*

8 Assign to a Site and a Workforce

"Who can use this, and where?"

The refined procedure is ready. Maya assigns it to the sites where this equipment exists — refinery East, offshore Platform A, the L&D training bay — and the workforce groups certified to perform it (LOTO-certified technicians, valve specialists).

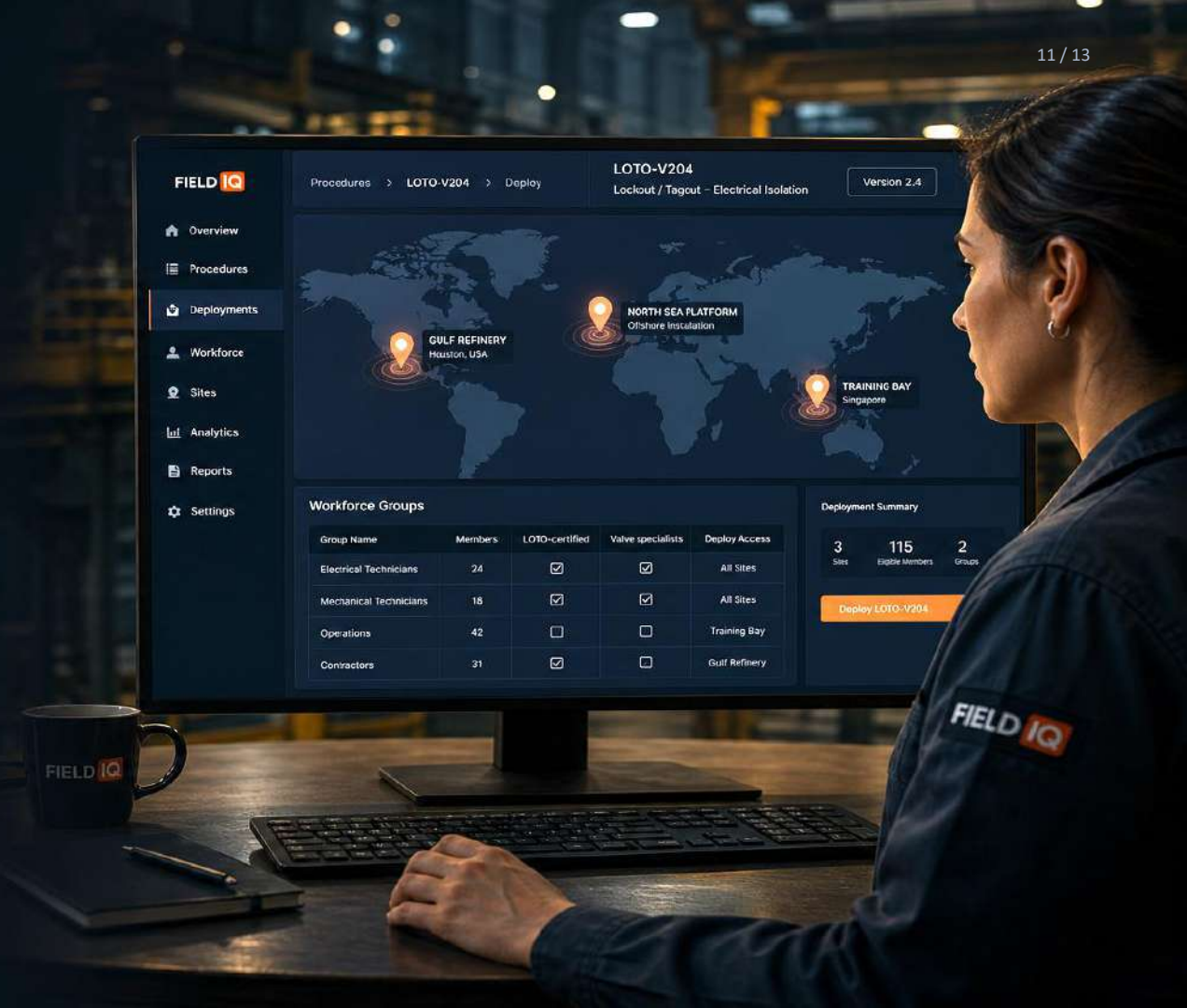
Field IQ controls who sees what, on which device, at which site. The same procedure can run at five sites with different access rules each.

A. By site — geographic and per-asset assignment, multi-site fleet

B. By workforce group — certifications, roles, teams, training cohorts

C. By individual worker — specific exceptions, pilots, ride-alongs

Result: *a deployment plan: every authorized worker, at every authorized site, on every paired device.*



9 Publish to Field IQ — Content Goes Live

"How does the new procedure reach the field?"

One click and Genesis publishes the procedure to Field IQ. Within minutes, every paired device at every assigned site has the new procedure available — offline-ready, signed, versioned.

When the first authorized worker walks up to the equipment, Field IQ already knows what to do. The expert's knowledge is now in the field, 24/7, on every set of glasses.

A. Immediate publish — live across the fleet in minutes

B. Scheduled publish — rolls out at shift change or off-peak

C. Pilot publish — small worker group first, then expand once validated

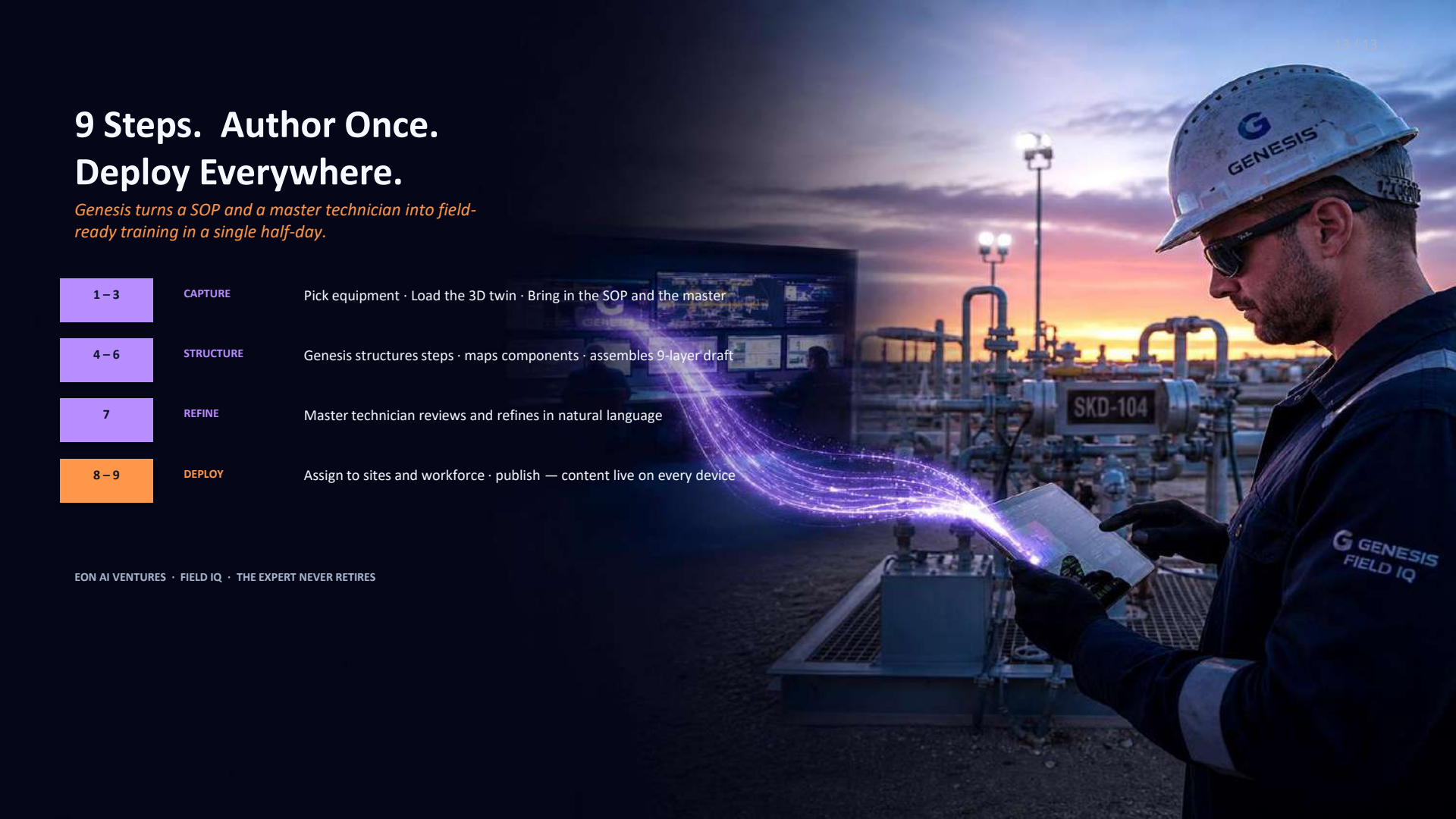
Result: *content live in the field. The expert's knowledge, scaled to every authorized worker.*

FIELD IQ VISUAL

9 Steps. Author Once. Deploy Everywhere.

Genesis turns a SOP and a master technician into field-ready training in a single half-day.

1 – 3	CAPTURE	Pick equipment · Load the 3D twin · Bring in the SOP and the master
4 – 6	STRUCTURE	Genesis structures steps · maps components · assembles 9-layer draft
7	REFINE	Master technician reviews and refines in natural language
8 – 9	DEPLOY	Assign to sites and workforce · publish — content live on every device



EON AI VENTURES · FIELD IQ · THE EXPERT NEVER RETIRES

3

Field Use

The Hero Journey

An AI copilot on every worker's shoulder.

The smartest expert in the company - watching, anticipating, and helping when asked. Worker drives; AI follows along and steps in only when it matters.

10 STEPS · FROM WALK-UP TO COMPLETE · AI COPILOT, ALL THE WAY

The Iceberg Principle - Field Use Edition

What the worker experiences vs. what Field IQ just did

WHAT THE WORKER EXPERIENCES

Walked up to the skid. Glanced at the equipment. Asked the AI for a refresher once, described one problem out loud. Got a clean answer in the ear and a quick image on the HUD. Reached for the wrong valve - felt a buzz on the wrist, corrected. Finished the procedure in 11 minutes. Walked out.

That's the entire interface.

WHAT FIELD IQ JUST DID AUTOMATICALLY

Observed roughly 600 frames. Identified the equipment, inferred the task, tracked progress across 12 steps without being told. Pulled the right reference image at the right moment. Caught a near-miss before contact, fired three intervention channels in under 200 ms. Verified each step's after-state. Compiled the regulator-ready audit pack. Archived three edge cases for procedure refinement.

In the worker's ear, six voice exchanges total. On the HUD, four cards.

The AI is the iceberg. The worker only ever sees the tip.

The Worker's Ten Steps

From walk-up to complete - the entire interaction with Field IQ, on one page.

1. Walk Up
2. AI Recognises the Equipment + Task
3. Pick Mode
4. AI Quietly Tracks Your Progress
5. Ask For a Refresher
6. Hit a Problem? Describe It
7. AI Shows the Reference (Image, Clip, Animation)
8. You Act
9. AI Flags Anything Off, Helps You Correct
10. Finish

1

Walk Up - AI Activates From What It Sees

"What starts the loop?"

The worker approaches the equipment. The Ray-Ban Display glasses are already on and Field IQ is passively watching at low frame rate. The moment the equipment fills the field of view, the recognition layer wakes up.

No button, no voice command needed - the system activates from context. It's a copilot that's already paying attention, not an app that needs launching.

A. Active watching - glasses-on means AI-on (passive low-power mode)

B. Voice wake - "Hey Field IQ" wakes it explicitly if the worker prefers

C. Tag scan - QR or NFC tap as the deterministic wake when CV is iffy

Result: a live frame, a worker ID, and a session intent. Field IQ is now in the loop.

FIELD VISUAL

2

AI Recognises the Equipment + Task

"What is the worker looking at, and what are they likely going to do?"

Field IQ identifies the specific equipment from the frame (helped by QR or NFC if present, computer vision otherwise) and cross-references the worker's role, schedule, and recent activity to infer the most likely task.

It doesn't ask - it proposes. The worker either confirms with a glance, voice, or wrist pinch, or corrects in one word.

A. Equipment match - equipment ID + spatial position in the 3D digital twin

B. Task inference - derived from worker role, shift schedule, recent assignments

C. Confidence check - if either signal is weak, ask the worker, don't assume

Result: a candidate procedure, presented as a confirmable suggestion.

FIELD VISUAL

3

Pick Mode - Walk-Through or Stand-By

"How much help do you want?"

Field IQ offers two modes upfront. Walk-through guides you step by step - voice + image + verification at each gate. Stand-by stays quiet and only intervenes when you ask or when something needs flagging.

Workers new to a procedure pick walk-through. Experienced workers pick stand-by. Field IQ remembers next time.

A. Walk-through - full guidance, step by step, verification at each gate

B. Stand-by - silent observation, AI speaks only when asked or when intervening

C. Auto - Field IQ picks based on the worker's historical performance on this procedure

Result: a session mode set, recorded on the audit log.

FIELD VISUAL

4 AI Quietly Tracks Your Progress

"How does the AI know where I am without me telling it?"

As the worker acts, Field IQ continues to observe - frames every few seconds, audio cues, hand position, equipment state changes. It builds a running estimate of which procedure step the worker is on, never interrupting.

The worker never has to say "I'm on step 4." The AI infers it from what it sees. In stand-by mode the tracking is silent; in walk-through, the AI quietly announces step transitions.

A. Visual tracking - what's in the frame, where the worker's hands are, equipment state

B. Audio tracking - voice cues, tool sounds, ambient indicators (motor on, valve hiss)

C. Cross-check - visual + audio must agree before the AI updates its step estimate

Result: AI's current step estimate, updated continuously, surfaced only when relevant.

5 Ask For a Refresher - Get the Next Step

"What if I want to see what comes next?"

Any time, the worker says "next" or "what's the next step?" - and Field IQ shows the matching reference. Because the AI already knows which step they're on, the worker doesn't have to say a step number.

The HUD card appears with the image, the voice plays the instruction, and the worker keeps going. No menu navigation, no scrolling, sub-three-second turnaround.

A. "Next step" - fetches the next step in the current procedure

B. "Show me step 4" - jumps to a named step explicitly

C. "Refresh this step" - re-shows the current step in case the worker forgot

Result: a single HUD card + voice clip, delivered in under three seconds.

6 Hit a Problem? Describe It - AI Knows Where You Are

"What if something goes wrong?"

When the worker is stuck, they describe the problem in plain language - "this valve isn't moving" or "I don't see the breaker." Field IQ already knows which step they're on, so it doesn't need them to specify.

The AI either matches the description to a documented case, asks one short clarifying question, or - if it's truly novel - flags it as a new edge case and alerts a supervisor.

A. Known issue - AI matches the symptom to a documented case, returns the fix

B. Ambiguous - AI asks one short clarifying question, then resolves

C. Novel - AI flags as a new edge case, archives the session, alerts a supervisor

Result: a targeted guidance reply, or an escalation that brings a human into the loop.

7 AI Shows the Reference (Image, Clip, Animation)

"What does the worker actually see?"

Field IQ returns the right kind of reference for the step. A still image when the action is positional ("here's what the valve should look like closed"). A short animation when the action is a sequence ("rotate the handle 90 degrees counter-clockwise"). A video clip when the procedure is complex or needs a master technician demonstration.

The choice happens server-side. The worker just sees the right thing.

A. Still image - for positional, identification, and post-action verification checks

B. Animation - for short sequences, hand movements, simple mechanical operations

C. Short video - for complex procedures or master-technician demonstrations

Result: the reference renders on the HUD; voice narrates if narration is part of the asset.

8 You Act - AI Confirms the Step Is Done

"How does the AI know the step is done?"

As the worker performs the action, Field IQ watches. When the visual state matches the expected-after condition for the step - valve closed, lockout placed, switch flipped - the AI confirms.

Routine steps verify silently. Safety-critical steps require a proof photo, which Field IQ can auto-capture at the right moment instead of requiring a voice command.

A. Auto-confirm - visual state change detected, AI advances silently

B. Photo gate - safety-critical step requires an auto-captured proof photo

C. Worker-confirmed - worker says "done" if AI is uncertain after the action

Result: step marked complete, audit log entry written, next step queued.

9 AI Flags Anything Off, Helps You Correct

"What if I do something wrong?"

Field IQ watches not only for progress but for deviation. If the worker reaches for the wrong equipment, skips a required safety step, or does an action out of sequence, the Neural Band buzzes and a voice in the ear says "stop - that's V-205, not V-204."

The intervention happens before contact, not after. The worker self-corrects, the AI confirms, the session continues, and the moment is logged.

A. Wrong target - different equipment in view than expected; soft stop, redirect

B. Skipped step - worker tried to advance past a required safety gate; hard stop

C. Out-of-sequence - sequential procedure done in wrong order; warn + offer reset

Result: a caught error, a self-correction, an audit log note that the worker handled it.

10 Finish - Audit Log + Edge Cases Archived

"What happens when the procedure is done?"

When the last step verifies, Field IQ closes the session. The full audit log - every step, every photo, every intervention, every voice exchange - is finalised and pushed to Monitor.

Edge cases (anything the AI was uncertain about, anything that required a worker description it hadn't seen before, anything where confidence dropped) are flagged and archived. Procedure by procedure, session by session, the data moat builds.

A. Compliance pack - PDF with timestamps, photos, signatures, regulator-ready

B. Training feedback - performance data flows back into Genesis for refinement

C. Edge-case archive - uncertain or novel events flagged for future AI training

Result: closed session, complete audit trail, growing training set.

10 Steps. Sub-3-Second Loop. Every Procedure.

From walk-up to complete - the worker's entire interaction with Field IQ, every time.

1 - 3 **ENGAGE**

Walk up · Recognise equipment · Pick mode

4 - 7 **FOLLOW**

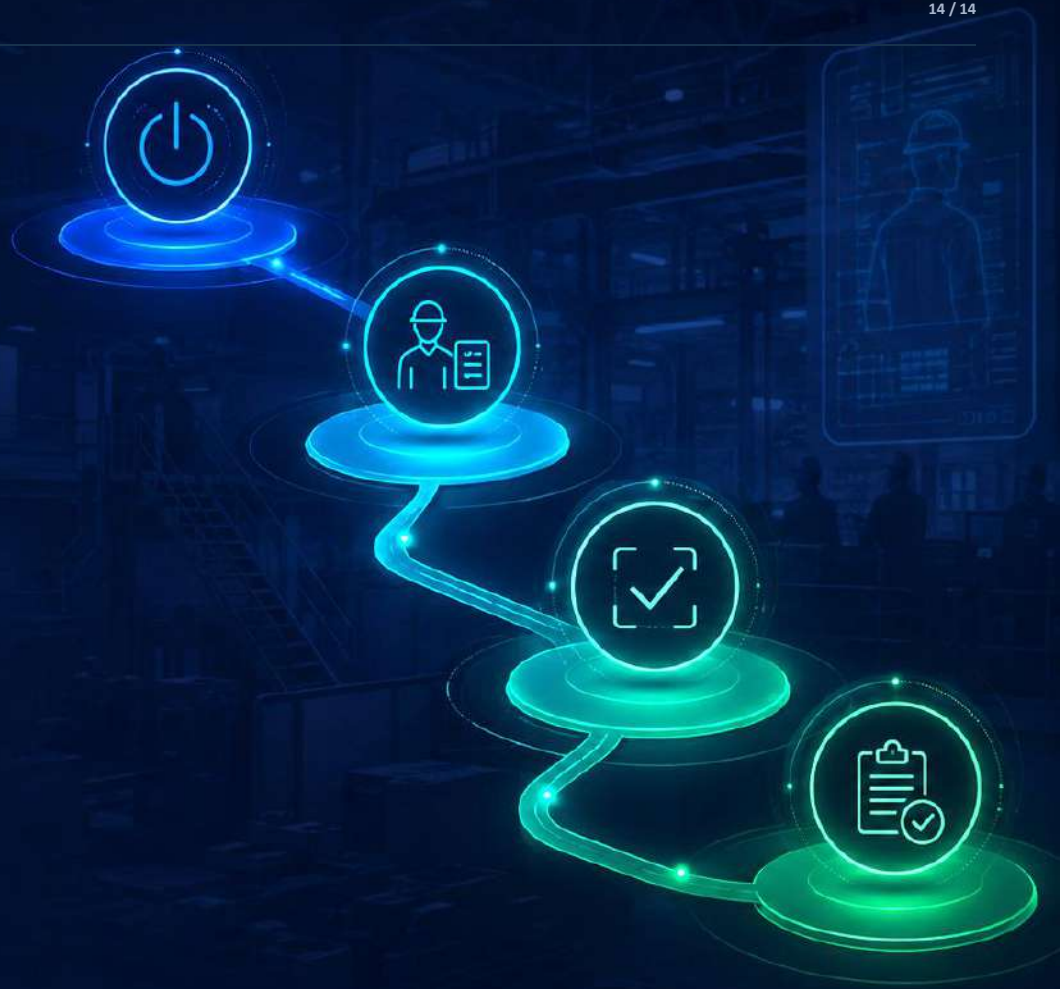
Track progress · Refresh on demand · Diagnose problems · Show the right reference

8 - 9 **VERIFY**

Confirm step done · Catch and correct errors

10 **CLOSE**

Audit log + edge-case archive - automatic



4 Monitor

The Safety Guardian

Two missions, one console — catch the moment something goes wrong, and learn from everything that did. Distinct from Assess IQ: Monitor sees the world through the worker's own glasses and the AI's continuous situational awareness.

The Iceberg Principle — Monitor Edition

What the supervisor experiences vs. what Field IQ is doing for them

WHAT THE SUPERVISOR EXPERIENCES

Sara opens Monitor at 7am. Glances at the live grid — mostly green. Notices one amber tile, taps in, reads the AI's explanation, decides it's fine. Mid-afternoon a hard alert pops up — she watches the live frame, calls the worker by name on the radio. End of day, reviews the day's competency snapshots and exports the regulator pack.

Total time on the console: ~25 minutes.

WHAT FIELD IQ JUST DID FOR HER

Watched 87 active sessions in parallel, ~2,400 frames per session per shift. Ran 87 safety models continuously. Caught 14 micro-deviations that workers self-corrected (logged silently). Flagged one hard alert that needed a human. Generated 87 audit packs end-of-shift. Fed 12 novel events to the edge-case archive for future training.

The supervisor saw four things. The AI handled the rest.

Supervision that scales. Not because humans get faster — because AI never blinks.

The Supervisor's Seven Steps

Two missions across seven steps — live safety (1-4) and review + intelligence (5-7).

1 Open Field IQ Monitor — Live + History

"Where do supervisors see what's happening?"

Field IQ Monitor is a single console with two modes — live (every session active right now) and history (every session that ever ran). The same interface serves the shift supervisor, the process-safety officer, and the L&D leader.
One console, three audiences, the same source of truth.

A. Live mode — every active session in the field, right now, real-time
B. History mode — searchable archive of every completed session ever
C. Watchlist — workers, procedures, or sites the user wants to follow

Result: *a single console, three audiences served from one screen.*

MONITOR VISUAL

2 See Every Active Session, Every Paired Worker

"How many workers are in the field right now, and what are they doing?"

The live view shows every paired Field IQ device, every active worker, every procedure in progress. Tiles arranged by site, by team, or by procedure type.
Color tells the story at a glance — green for normal, amber for AI watching closely, red for active intervention.

A. By site — geographic grouping (offshore platform, refinery zone, etc.)
B. By team — workforce groupings (LOTO-certified, valve specialists, etc.)
C. By procedure — what is being done right now across the workforce

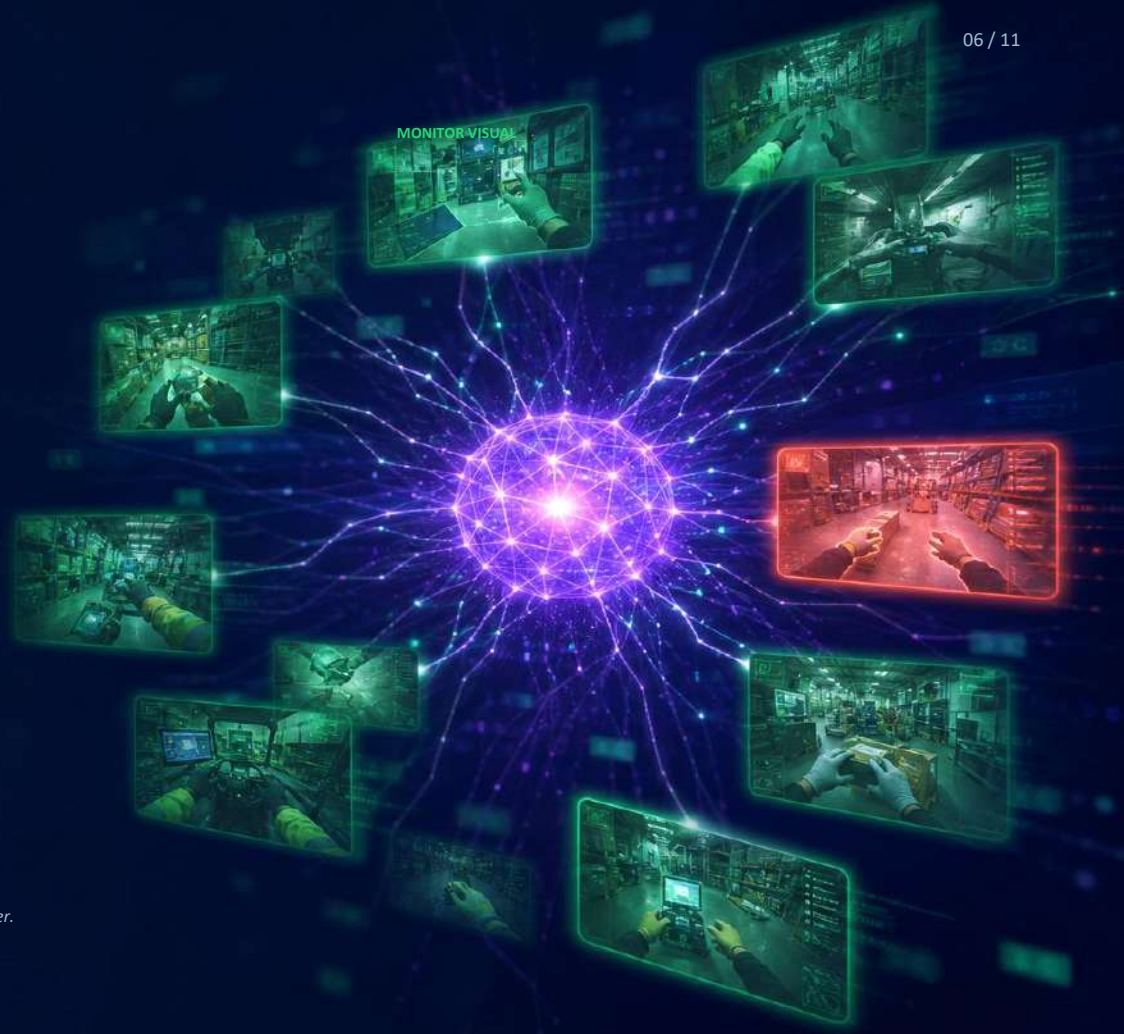
Result: *a complete operational picture, at a glance.*

3 AI Watches Each Session for Safety + Correctness

"Who is actually watching all those sessions in real time?"

Field IQ's AI runs the same observational model on every active session — checking for safety risks, procedure deviation, hesitation patterns. The AI doesn't get tired, doesn't miss things, doesn't blink.
Supervisors get alerted on the moments that need a human. The rest of the time, the AI handles it — silently, continuously, at unlimited scale.

A. Safety guardian — wrong location, hazard proximity, missed safety gate
B. Procedure correctness — step out of sequence, action mismatch
C. Worker wellbeing — hesitation, repeated retries, prolonged inactivity



Result: *continuous monitoring at unlimited scale, with humans only on the moments that matter.*

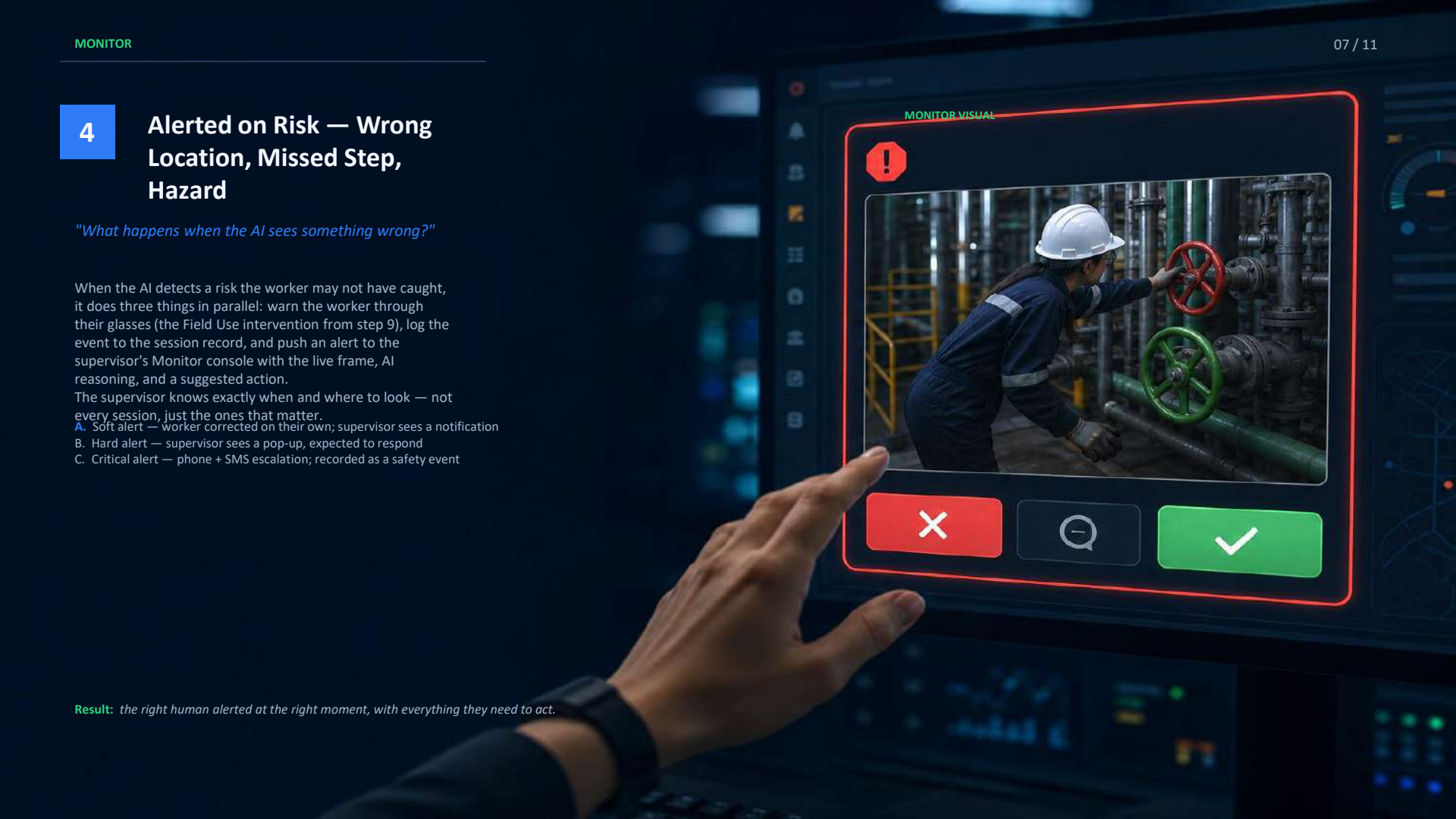
4 Alerted on Risk — Wrong Location, Missed Step, Hazard

"What happens when the AI sees something wrong?"

When the AI detects a risk the worker may not have caught, it does three things in parallel: warn the worker through their glasses (the Field Use intervention from step 9), log the event to the session record, and push an alert to the supervisor's Monitor console with the live frame, AI reasoning, and a suggested action.

The supervisor knows exactly when and where to look — not every session, just the ones that matter.

A. Soft alert — worker corrected on their own; supervisor sees a notification
B. Hard alert — supervisor sees a pop-up, expected to respond
C. Critical alert — phone + SMS escalation; recorded as a safety event



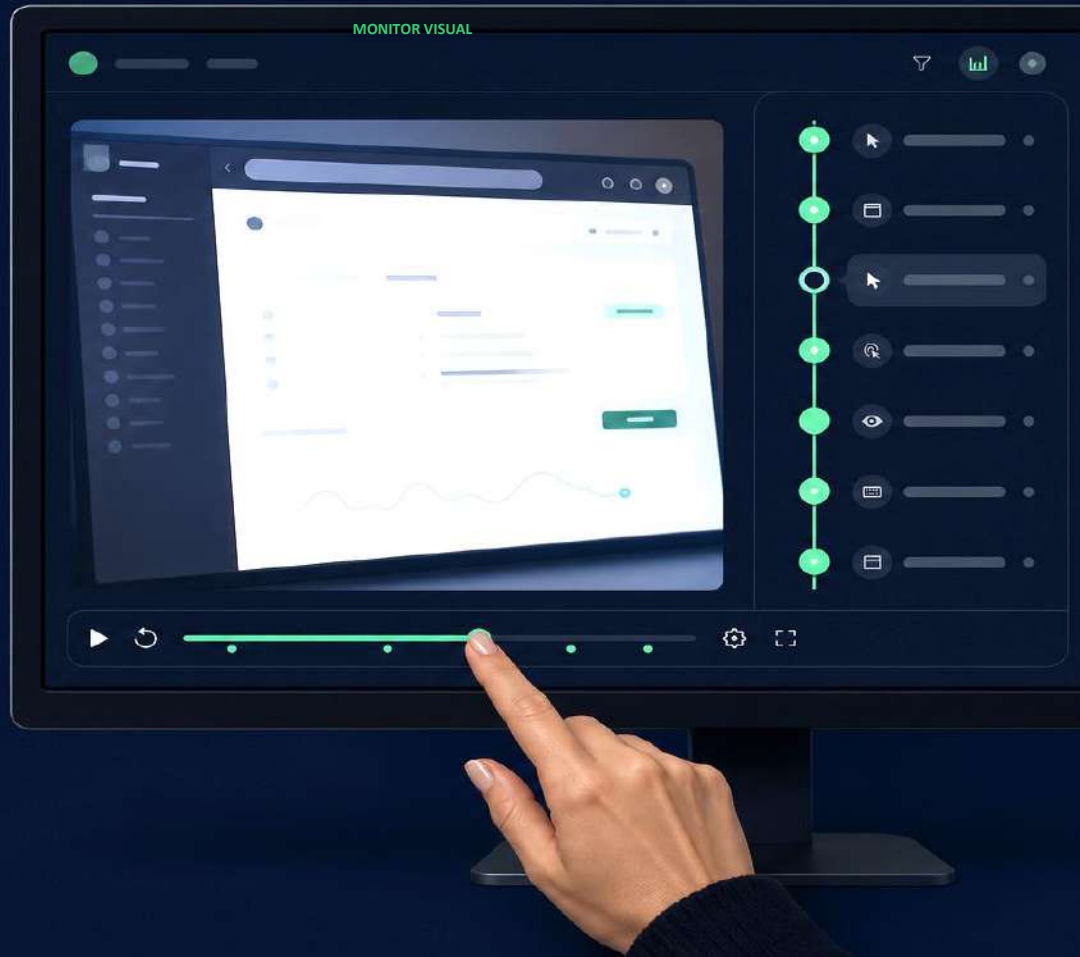
Result: *the right human alerted at the right moment, with everything they need to act.*

5 Replay Any Session, AI-Narrated, Frame by Frame

"What if I need to see what actually happened?"

Click any session — live or completed — and Field IQ Monitor opens a full replay. Every step, every voice exchange, every verification photo, every intervention, with the AI narrating what it observed.
Scrub forward and back. Slow down at the safety-critical moments. See exactly what the worker saw, through their eyes.

A. Full replay — start to finish, real-time speed
B. Highlight reel — verification gates and any interventions only
C. Narrated walkthrough — AI explains what it observed step by step



Result: *a complete, auditable record of every session, replayable at any time.*

6 Per-Session Assessment + Per-Worker Competency

"How is each worker performing over time?"

Beyond individual sessions, Field IQ Monitor rolls up performance into per-worker competency profiles. Each procedure type, each safety gate, each common error — tracked over time.
L&D sees who needs training. Supervisors see who's ready for harder work. The worker sees their own progress. Same data, three useful views.

A. Per session — score, time vs. baseline, errors caught and self-corrected
B. Per worker — competency profile, training gaps, growth trends
C. Per procedure — population-level view, where workers commonly struggle

Result: *training intelligence, ready for L&D systems and HR pipelines.*

MONITOR VISUAL

7

Export for Compliance, Training, Edge-Case Archive

"Where does this data go?"

Three downstream destinations, three exports. The compliance pack — PDF audit trail, regulator-ready, signed and timestamped. The training feed — performance signal back into Genesis for procedure refinement. The edge-case archive — novel events flagged for AI improvement and incident-avoidance modeling.
Every session contributes. The dataset compounds. The data moat is built one session at a time.

A. Compliance — PDF per session or per period, formatted for regulator review
B. Training feed — structured signal back to Genesis for content refinement
C. Edge-case archive — uncertain or novel events, growing into a strategic asset

MONITOR VISUAL

Result: *every session has three lives: today's record, tomorrow's improvement, next decade's training data.*

7 Steps. Two Missions. Infinite Scale.

Live safety guardian + assessment + a data moat that compounds with every session.

1 – 4	LIVE	Open console · See every session · AI watches each · Alert on real risk
5 – 7	REVIEW	Replay any session · Per-worker competency · Export to compliance, training, archive

EON AI VENTURES · FIELD IQ · THE EXPERT NEVER RETIRES

Assess IQ

AssessIQ
ONE EXPERT. INFINITE ASSESSMENTS.

- Dashboard
- Analysis
- Assess Trainee
- Test Library
- Product Guide

AI Connected
GEMINI ACTIVE

Procedures > Capture SOP from Video

Save as Gold Standard

0:38

ipment (PPE),
hat minimizes

all with bare hands.

ures

Assess IQ 2.0

The Facility Journey

50 skids. 500 trainees. One observer that never blinks.

From facility activation to audit response — every interaction every person has with Assess IQ 2.0, on the floor and in the control room, across five journeys.

JOURNEY A	**System Activation**	8 steps
JOURNEY B	**Training Session Setup**	7 steps
JOURNEY C	**Trainee Use**	8 steps
JOURNEY D	**Monitoring**	7 steps
JOURNEY E	**Audit Review**	6 steps

What people experience vs. what Assess IQ just did automatically.

WHAT PEOPLE EXPERIENCE

Walked into the facility. Tapped a badge. Performed a procedure. Got coached once when reaching for a hot pipe. Saw a scorecard. Walked to the next skid. Repeated. Went home.

"That's the entire interface."

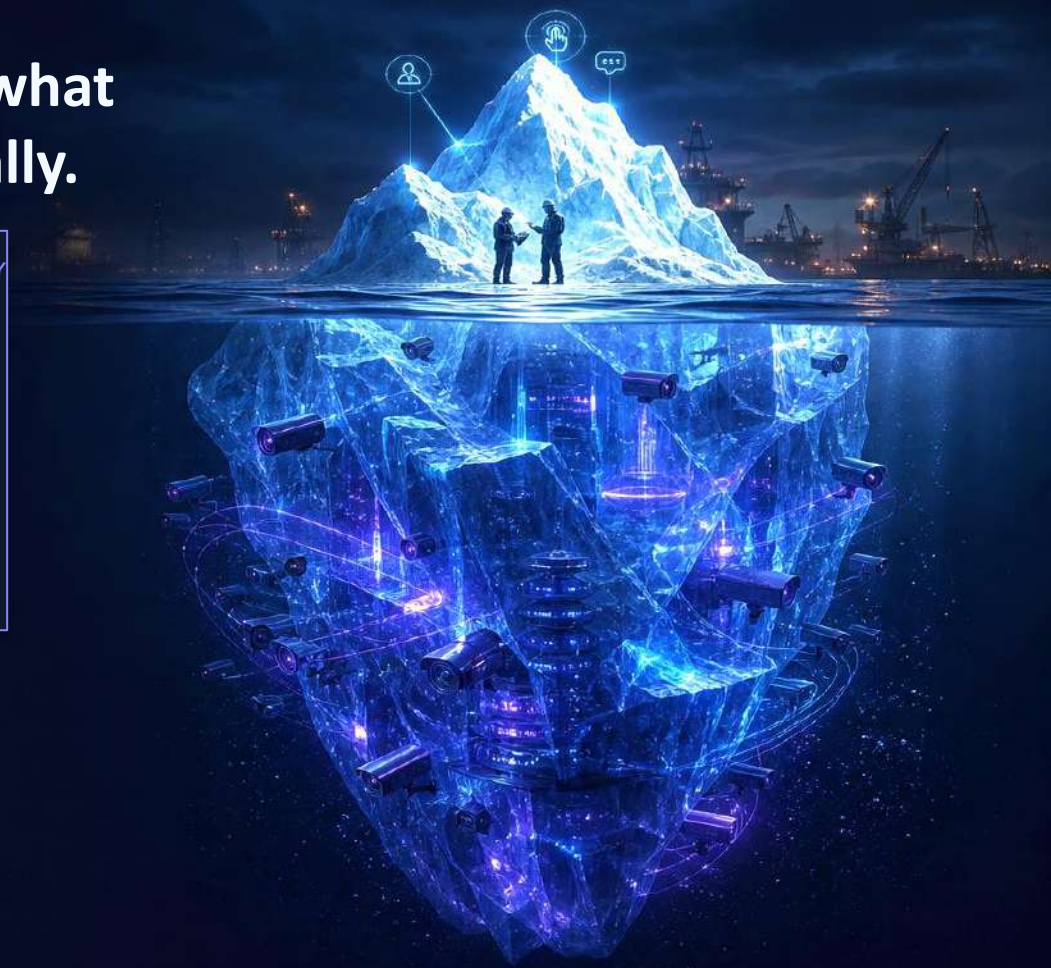
Six visual touchpoints across the whole shift. Two voice exchanges. Zero menu navigation.

WHAT Assess IQ JUST DID AUTOMATICALLY

Observed 500 trainees on 50 skids. Fused 100 camera feeds into 50 single-truth skid views. Ran 1.8 million Genesis AI consensus passes. Caught 47 safety risks before contact. Generated 312 signed evidence packs. Notified the regulator on activation. Logged every frame, every gate, every override.

All of it sealed with ed25519 signatures and RFC 3161 timestamps before the supervisor reached for her coat.

The system is the iceberg. People only ever see the tip.



THE WHOLE JOURNEY

All 36 Steps, One Page

From empty facility to audit response — every step across five journeys.

JOURNEY A
System Activation

1 Map the Facility
2 Place Skids + Cameras
3 Mount Edge Boxes
4 Network Test
5 Calibrate Fusion
6 Test Identity
7 Smoke Test
8 Activate Facility

IT / install team — one time

JOURNEY B
Training Session Setup

1 Pick SOPs
2 Load Gold Standards
3 Enroll Cohort
4 Issue Badges
5 Assign Skids
6 Set Mode
7 Start Session

Admin / supervisor — every cohort

JOURNEY C
Trainee Use

1 Badge In
2 See Assignment
3 Walk to Skid
4 Read SOP Card
5a Practice Mode
5b Cert Mode
6 See Feedback
7 Get Scorecard

Each of 500 trainees — every shift

JOURNEY D
Monitoring

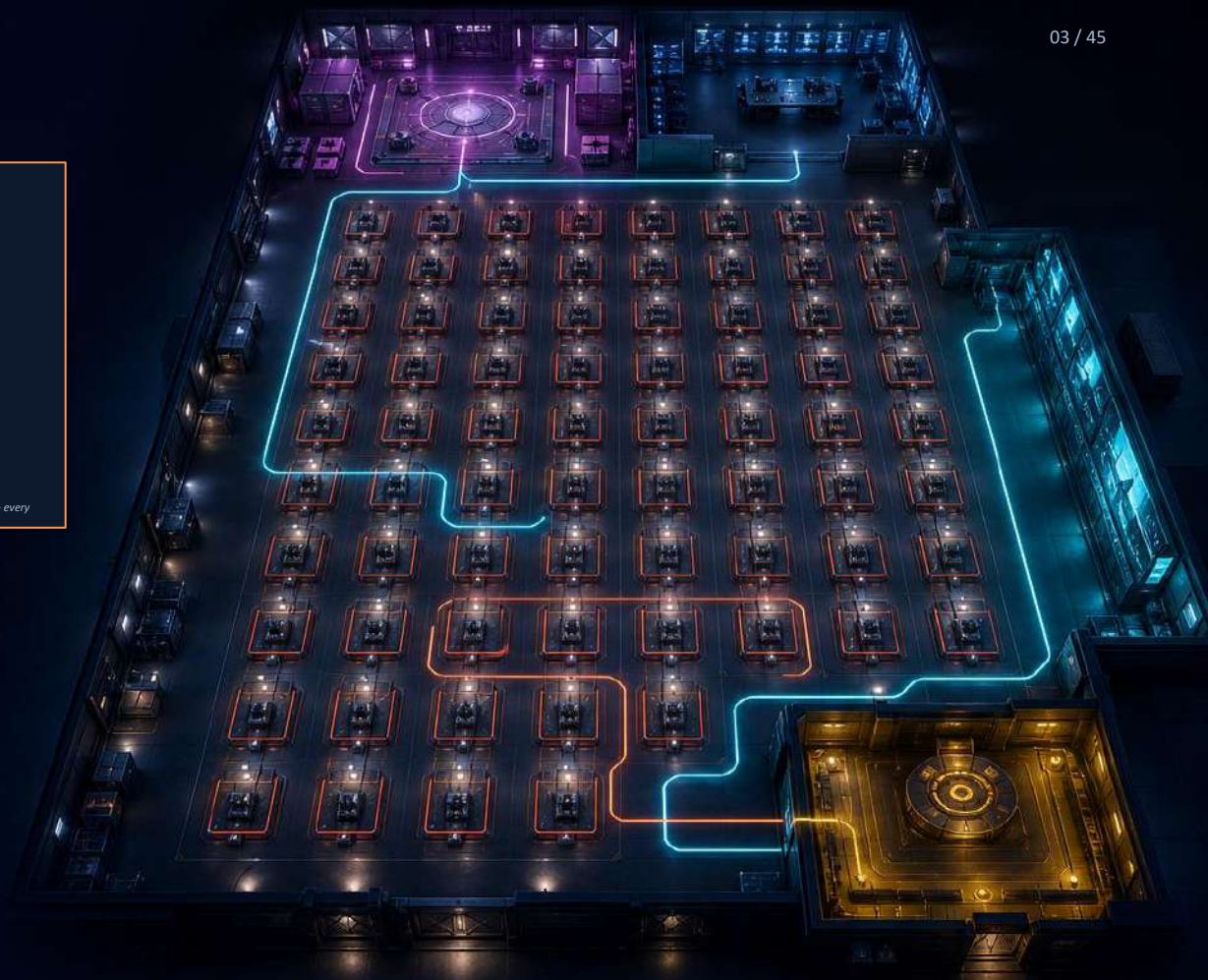
1 Open Control Room
2 Tile Grid
3 Leaderboard + Heatmap
4 AI Auto-Intervenes
5 Review Intervention
6 Approve / Override
7 End of Day

Supervisor — live, the whole shift

JOURNEY E
Audit Review

1 Audit Request
2 Open Vault
3 Search + Filter
4 Open Pack
5 Verify Signature
6 Export

Compliance officer — weeks later



Each step gets one slide. Each slide takes 30 seconds to read.

A

System Activation

JOURNEY A

Stand up a facility. From empty floor to live observation in days, not months.

WHO

IT / install team — one time

STEPS

8 steps · the activate phase

1 Map the Facility

"Where does this happen?"

The install team uploads a floor plan or walks the facility with a LiDAR scanner. Assess IQ ingests it, generates a 3D digital twin, and asks the team to confirm zones — training bays, walkways, control room, restricted areas.

The map isn't decoration — every camera, every skid, every alert later in the system will be placed against this single source of truth.

Floor plan ingest — PDF, DWG, IFC, or LiDAR scan accepted

Zone tagging — Training, walkway, control, restricted — colored regions

Skid grid layout — 50 placeholder skids on a 10×5 grid, ready to be assigned

Result: *a 3D digital twin of the facility, zones tagged, skid placeholders ready.*

2 Place Skids + Cameras

"What goes where?"

Assess IQ drags 50 skids onto the digital twin and snaps two cameras to each — a ceiling-mounted wide view and a shoulder camera the trainee will wear. Assess IQ auto-suggests positions based on the skid type and flags coverage gaps in red.

Assess IQ does the layout math the installer doesn't want to do — angle, distance, overlap — and turns 'where do these go?' into 'confirm what I'm suggesting.'

Skid library — Pre-built models for valve, pump, pressure vessel, flare

Auto-suggest cams — Ceiling wide + shoulder body, positioned for full FOV

Coverage map — Red where the worker would be off-camera mid-procedure

Result: *50 skids placed, 100 camera positions defined, zero coverage gaps.*

Assess IQ VISUAL

3 Mount Edge Boxes

"What runs at each station?"

Each skid gets a Jetson Orin NX edge box mounted in a small steel enclosure. Assess IQ pushes its activity-detection model down to the edge so first-pass scoring happens locally — the cloud only sees the moments that matter.

Edge-first design is what makes 50 skids × 600 frames-per-second viable at refinery scale. The cloud doesn't see a frame until the edge says it's worth seeing.

Jetson Orin NX — Per-skid edge compute, 100 TOPS, fanless industrial enclosure

Model push — Activity-detection model pinned by skid type

Auto-pairing — Edge box discovers its two cameras, registers to the twin

Result: *50 edge boxes online, each paired with its cameras and model.*

4 Network Test

"Can data flow at scale?"

Assess IQ runs a synthetic load — every edge box pumps a simulated event stream simultaneously, mimicking 500 trainees at peak. The tool reports per-skid throughput, jitter, and where the network bottlenecks first.

We don't ask the facility's network team to model load. We generate the actual peak and let them see it on a real-time dashboard.

Synthetic 500-user load — Every edge sends mock telemetry at peak rate

Per-skid graphs — Throughput, jitter, dropped frames, latency to cloud

Bottleneck flag — Identifies the switch or uplink that would fail first

Result: *a passing network report, or a list of exactly what to upgrade.*

Assess IQ VISUAL

5 Calibrate Fusion

"Do the cameras see the same world?"

The installer places a calibration target — a checkerboard cube — at each skid. Assess IQ uses it to align ceiling and shoulder cameras into a single 3D coordinate system, so 'the worker's right hand is on this valve' means the same thing to both feeds.

Multi-camera fusion is the difference between scoring video and scoring reality. Without it, the system sees two parallel movies, not one truth.

Checkerboard target — Standard 9×7 cube, placed on the skid for 10 seconds

3D alignment — Cameras share a single world coordinate frame

Drift watcher — Background re-check every shift, alerts on misalignment

Result: *every skid sees its own 3D world; cameras vote on what they see.*

6 Test Identity

"Can we recognize every trainee?"

A handful of test trainees walk through the facility wearing badges. Assess IQ tries to identify them three ways — QR badge, face recognition (opt-in), and uniform pattern matching — and reports where each method failed, so the facility can choose its enrollment rule.

Three-tier identity means the system never says 'I don't know who that is.' It might say 'I'm 88% sure that's Marcus,' and that's enough to keep going.

QR badge — Deterministic, scanned at the skid

Face match — Optional, used as a fallback or cross-check

Uniform pattern — Last-resort signal — color, number patch, hi-vis tier

Result: *every trainee is recognizable to at least two of three identity signals.*

7 Smoke Test

"Does the pipeline work end-to-end?"

A test cohort of five runs a real procedure on three skids. Assess IQ scores them live, generates evidence packs, and the install team verifies the full pipeline — edge to cloud to scoreboard to PDF — works without intervention.

If the smoke test produces a signed evidence pack with no humans in the loop, the system is ready to be turned over to the customer.

5 trainees, 3 skids — Smallest realistic cohort, all three procedure types

Live scoring — Watch the scoreboard update in real time

Pack verify — Open the generated PDF — does it pass signature check?

Result: *a signed evidence pack from a real test run, end-to-end.*

8 Activate Facility

"Ready to take cohorts?"

The facility owner signs the activation contract on the tablet. Assess IQ flips the facility from 'install' to 'live,' notifies the cloud, and sends a one-page acceptance certificate to the regulator-of-record. Cohort scheduling unlocks.

Activation is the handoff. Up to this moment Assess IQ was install-mode software; from this moment it's the safety-of-record observer.

Facility owner signs — Tablet signature, archived in the audit trail

Status: LIVE — Banner changes color, scheduling unlocks

Regulator notice — One-page acceptance certificate auto-issued

Result: *a live facility, scheduling open, regulator notified.*

Assess IQ VISUAL

B

Training Session Setup

JOURNEY B

Configure today's cohort and launch the session. Minutes, not hours.

WHO

Admin / supervisor — every cohort

STEPS

7 steps · the prepare phase

1 Pick SOPs

"What gets assessed today?"

The supervisor opens the SOP library and picks which procedures the cohort will perform. Assess IQ shows each SOP's gold-standard authoring status from Genesis — only authored procedures are scoreable.

Genesis is the upstream system — if a procedure isn't in Genesis, it can't be assessed. The library makes that constraint visible, not frustrating.

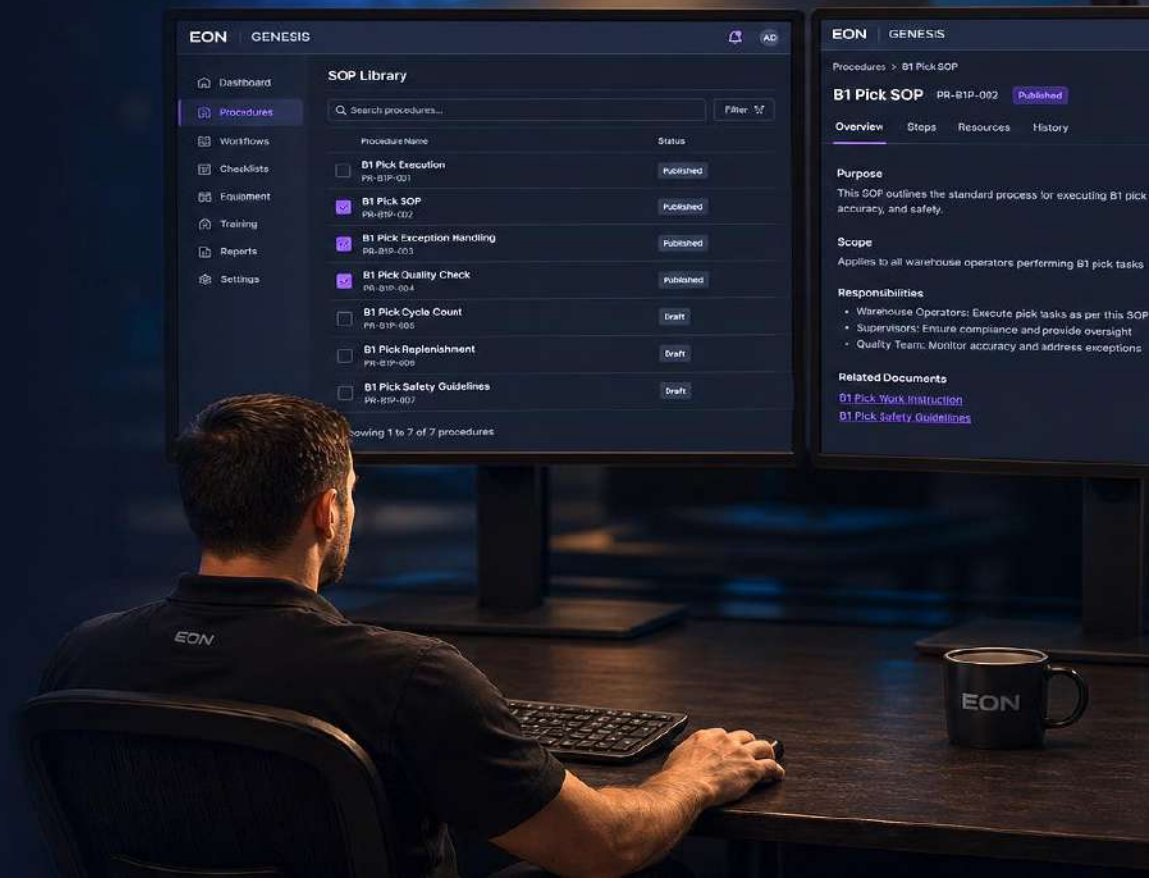
SOP library — Filterable by skid type, regulator, last revision

Genesis status — Authored / pending / draft — only authored is scoreable

Cohort default — Last-used SOP set pre-checked for repeat sessions

Result: *today's procedure list, locked in and known to the system.*

Assess IQ VISUAL



2 Load Gold Standards

"What's the right way?"

For each picked SOP, Assess IQ pulls the gold-standard reference video from Genesis — the master technician's recorded run. The supervisor can preview, swap to an alternate take, or override the scoring tolerances.

The gold standard is the rubric. Without it, the AI scores against an opinion, not a truth — and audits get messy fast.

Master video — Genesis-stored, signed, time-stamped at authoring

Tolerance preview — How tight is the scoring on this run?

Variant picker — Multiple correct paths if the SOP allows it

Result: *every SOP has a gold standard loaded; scoring rubrics are live.*

3 Enroll Cohort

"Who's training today?"

The supervisor pastes a CSV or selects a saved cohort. Assess IQ enrolls 500 trainees in seconds, validates their badge IDs against HR, and flags anyone who hasn't completed prerequisites.

Cohort setup at scale isn't a list — it's a sanity check. The system catches the four people in 500 who shouldn't be on the floor before they walk in.

CSV or saved cohort — Either fresh upload or last cohort recall

HR validation — Badge IDs match, employment status active

Prereq check — PPE training, medical clearance, prior SOPs done

Result: *500 trainees enrolled, 4 flagged for review, 496 cleared.*

4 Issue Badges

"How does the system know each person?"

Each trainee picks up a hard-hat badge with a unique QR code at the entrance kiosk. Assess IQ pairs the badge to the trainee's profile, optionally captures an opt-in face reference, and registers the uniform color tier for backup ID.

Three identity signals are not redundant — they're how the system gracefully degrades. A scratched badge doesn't lock a person out.

QR badge dispense — Kiosk prints, hard-hat clip-on, 5-second handoff

Face opt-in — Camera flash, archived encrypted, optional

Uniform tier note — Vest color = role band (red apprentice, green journeyman)

Result: *every trainee has a badge in hand; identity is locked in.*

Assess IQ VISUAL

5 Assign Skids

"Who goes where?"

Assess IQ generates an assignment: which trainee starts at which skid, and the rotation schedule for the day. The supervisor can drag-rearrange — pair up apprentices with mentors, balance load across instructors.

The auto-assignment is a starting point, not a verdict. The supervisor's adjustments are how human judgment lands on top of the optimizer.

Optimizer first pass — Balance by skid, role, prior performance, fatigue

Drag-rearrange — Pair mentors, separate conflicts, hold a skid for retest

Rotation schedule — How long at each skid, when to swap, when to break

Result: *500 trainees mapped to 50 skids with a clear rotation schedule.*

6 Set Mode

"Practice or Cert?"

For each SOP, the supervisor picks the mode — Practice (AI coaches mid-procedure, doesn't score for record) or Cert (silent observation, scored for record, safety carve-out applies). Mode is locked once the session starts.

The Practice / Cert split is the silent contract. Trainees know which mode they're in; the AI behaves accordingly; the audit log captures the choice.

Practice mode — AI coaches in the ear, no score for record, free retries

Cert mode — Silent, scored, one attempt — safety still intervenes

Per-SOP mode — Mode can vary by procedure within the same cohort

Result: *every SOP in today's session has a mode locked and known.*

7 Start Session

"Launch the cohort?"

The supervisor taps START. Assess IQ pushes assignments to every kiosk, primes every edge box, and announces to the cohort via the PA system that the session is open. The wall clock starts.

There's no countdown, no ceremony — just a tap, and 500 people start moving toward 50 skids. The system has been waiting for this moment.

Assignments push — Each trainee's first skid shows up on the kiosk display

Edge prime — All 50 edge boxes load today's SOP models

Session clock on — Audit log starts; everything is recorded from here

Result: *a live session — 500 trainees moving, 50 skids armed, clock running.*

C

Trainee Use

JOURNEY C

Show up, perform, get scored, move to the next station. No friction.

WHO

Each of 500 trainees — every shift

STEPS

8 steps · the perform phase

1 Badge In

"Where do you start?"

The trainee approaches the entrance kiosk, taps their badge, and Assess IQ greets them by name. The kiosk shows today's first skid assignment, the SOP, the mode, and a 30-second route on the facility map.

Badge-in is the only friction point in the trainee's day. From here on, the system observes — the trainee doesn't navigate menus.

Tap to enter — QR scan or NFC, ~1 second

Skid + SOP + mode — Today's first task, plainly shown

Walking route — 30-second visual to the starting skid

Result: *the trainee knows where to go, what they're doing, and which mode.*

2 See Assignment

"Where am I going?"

On a hallway display or the Field IQ glasses (if worn), the trainee sees their assignment card — skid number, SOP title, expected duration, and the instructor's name if it's Practice mode. No menu to dismiss; it just appears at the right time.

The assignment is delivered, not requested. The system already knows where the trainee is going next because it scheduled it.

Wall display — If no glasses; positioned along the natural walk path

Field IQ glasses — If worn; the same card overlays the world

Practice context — Instructor's name + brief; Cert shows nothing more

Result: *the trainee has the assignment in view without lifting a finger.*

3 Walk to Skid

"How do I get there?"

The trainee walks toward Skid 27. Cameras pick them up overhead and shoulder-side; Assess IQ confirms the route and silently logs arrival. No directions are needed — the trainee knows the floor.

The 'walk to skid' moment is not narrated by the AI. It's observed. The system is building the session log while the trainee is just walking.

Path tracking — Ceiling cameras hand off as the trainee moves

Arrival detection — Within 1.5m of Skid 27 boundary, log arrival

Silent log entry — Audit log: T+0:00:18, arrived at Skid 27

Result: *trainee at the skid, arrival logged, observation begins.*

4 Read SOP Card

"What am I doing?"

At the skid, the SOP card appears — on a tablet mounted on the skid, on the Field IQ glasses, or both. It shows the procedure title, the first step, expected outputs, and any safety-critical gates. The trainee reads, then begins.

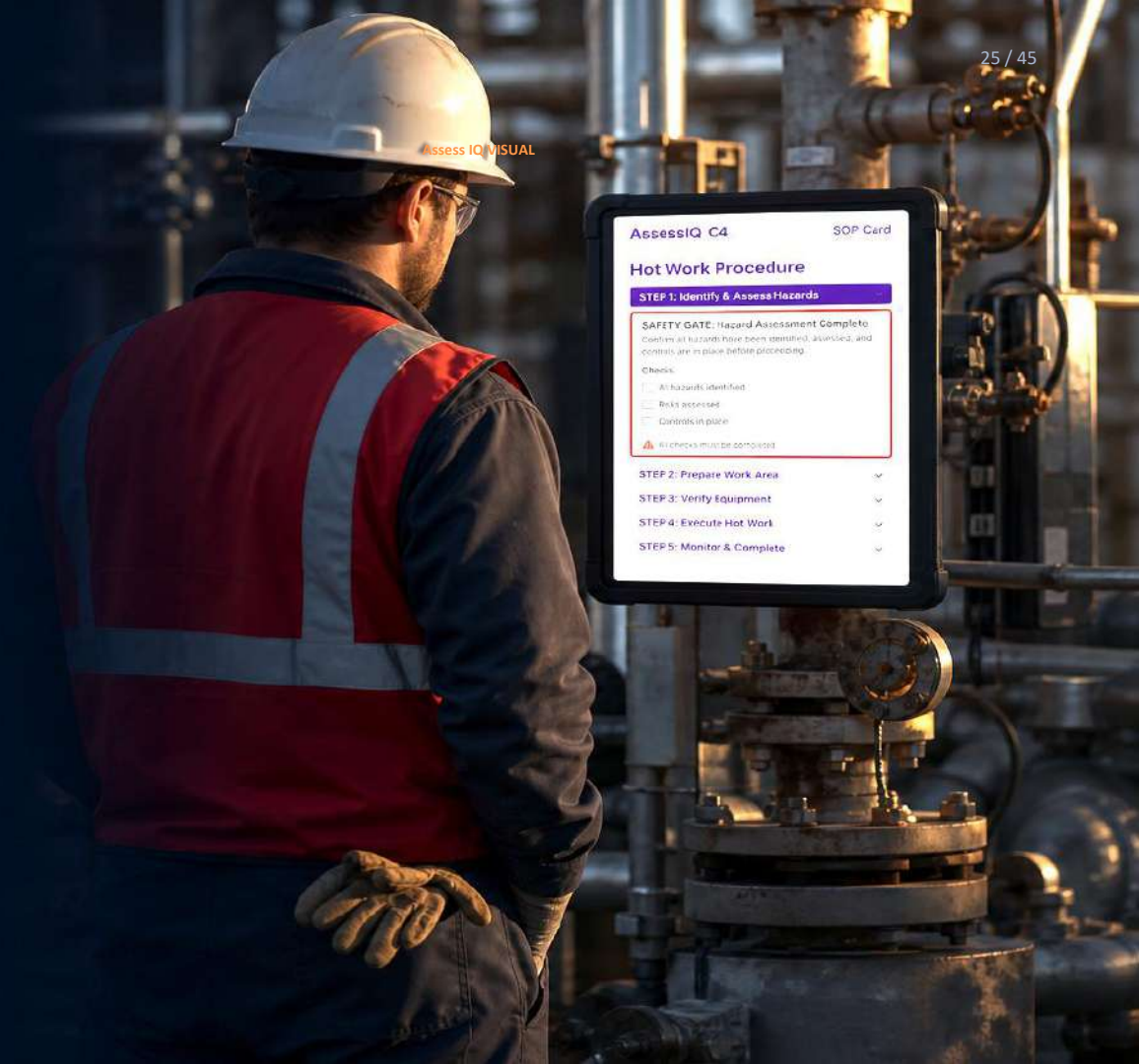
The SOP card is identical to what Genesis authored and the gold standard recorded. Trainee, AI, and auditor are all reading the same document.

Skid-mounted tablet — Always there; readable from any angle

Glasses HUD — Hands-free, if Field IQ glasses are worn

Safety gates shown — Red-bordered steps that the AI will hard-stop on

Result: *trainee reads the SOP, then steps to the equipment.*



5a Practice Mode

"Can I learn with help?"

In Practice mode the AI is in the trainee's ear. It nudges on each step, confirms when they're on track, gently points out near-misses, and lets them retry without penalty. The instructor sees the same coaching feed.

Practice mode lowers the cost of being wrong. The trainee can fail forward; the system holds the safety floor; the score doesn't go on the record.

Ear nudges — Voice tips, paced to the trainee's rhythm

Mid-step confirms — 'You're on the right valve — proceed' affirmations

Free retries — Score not recorded for cert; learning is the point

Result: *an engaged trainee, a watching instructor, and a near-miss caught before it's a miss.*

5 b

Cert Mode

"Can I prove it silently?"

In Cert mode the AI watches but doesn't coach. The trainee performs the procedure exactly as they would in the field — no nudges, no confirmations, no hints. The only intervention is the safety carve-out: if real harm is imminent, the AI still stops them.

Silent observation is the trainee's chance to prove competence the same way they'll be measured on the job. The score goes on the record.

Silent watch — No voice, no nudge, no hint — the AI is invisible

Safety still on — Hard-stop if hot surface, live valve, or PPE breach

Single attempt — Score recorded for certification; retry is a re-cert event

Result: *a recorded score against the gold standard, scored silently.*

6 See Feedback

Assess IQ VISUAL

"How did I do?"

When the procedure ends, the trainee turns to the skid tablet and sees their scorecard — gates passed, gates flagged, time vs. gold standard, and one short coaching note from the AI. Practice gets richer detail; Cert gets a clean pass/fail.

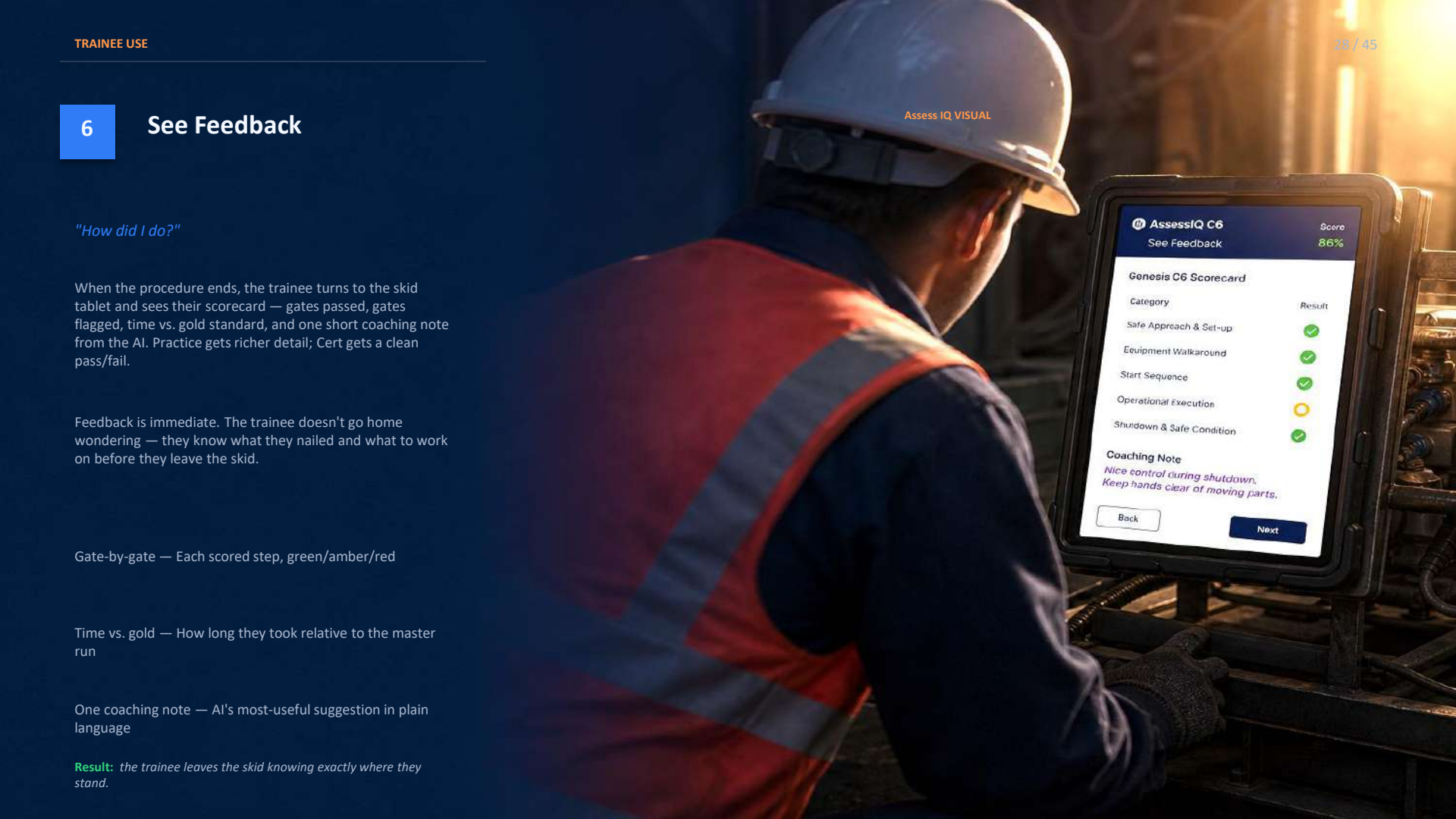
Feedback is immediate. The trainee doesn't go home wondering — they know what they nailed and what to work on before they leave the skid.

Gate-by-gate — Each scored step, green/amber/red

Time vs. gold — How long they took relative to the master run

One coaching note — AI's most-useful suggestion in plain language

Result: *the trainee leaves the skid knowing exactly where they stand.*



7 Get Scorecard

"Next station?"

After feedback, the trainee taps NEXT. Assess IQ shows them the next skid, the next SOP, and the time budget. If today's rotation is done, they get a session-end summary and the kiosk dismisses them.

The handoff between skids is built into the flow. The trainee never asks 'where next?' — the next thing is already there.

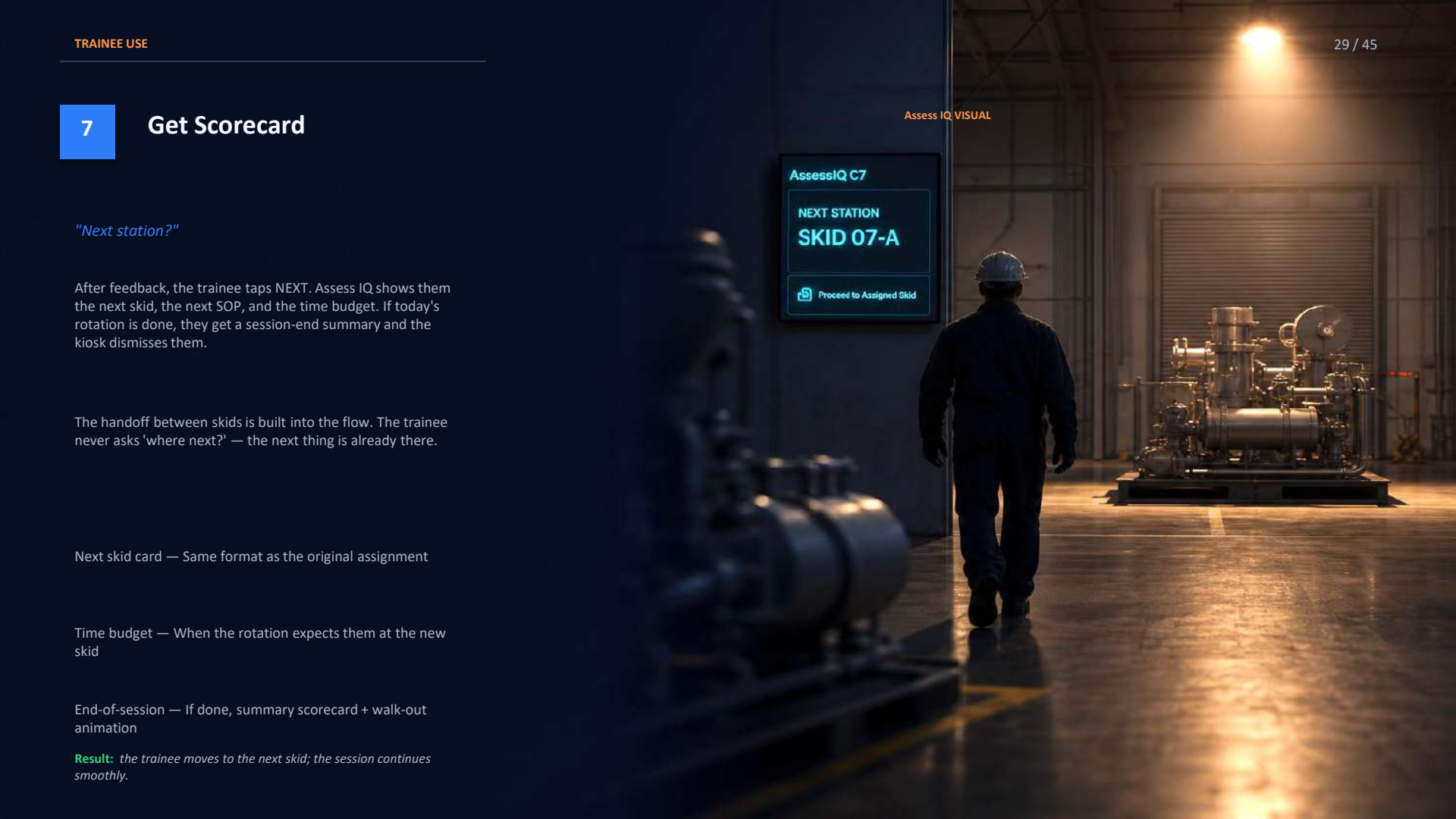
Next skid card — Same format as the original assignment

Time budget — When the rotation expects them at the new skid

End-of-session — If done, summary scorecard + walk-out animation

Result: *the trainee moves to the next skid; the session continues smoothly.*

Assess IQ VISUAL



D Monitoring

JOURNEY D

Watch the whole facility from one screen. Calm in normal, decisive in crisis.

WHO

Supervisor — live, the whole shift

STEPS

7 steps · the observe phase

1 Open Control Room

"Where do I see it all?"

The supervisor walks into the control room and unlocks her workstation. Assess IQ's monitoring view loads instantly — every skid live, every trainee accounted for, the current shift's clock running. No dashboards to assemble.

Opening the control room is opening a single pane of glass. The supervisor doesn't tab through tools; everything lives in one view by design.

Single sign-on — Badge tap unlocks the workstation and the Assess IQ view

Live by default — Last-shift state cleared; today's data is already loading

Quiet by default — If nothing is wrong, the screen shows green calm

Result: *the supervisor sees the entire facility in one view, instantly.*

2 Tile Grid

"Every skid at a glance?"

The default view is a 10-by-5 grid — 50 live skid tiles, each showing the camera feed, the trainee name, the current step, and a small status pip. Calm skids are gray; active skids are cyan; flagged skids are amber.

The tile grid is the supervisor's peripheral vision. She doesn't look at any one tile — she scans for the colors that don't belong.

50 tiles, one screen — Every skid visible without scrolling

Color = status — Gray idle, cyan active, amber flag, red intervention

Tile click = zoom — Single tile expands to a half-screen detail view

Result: *50 skids monitored without scrolling; only the colors that don't belong stand out.*

3 Leaderboard + Heatmap

"Where are the gaps?"

A side panel shows the cohort leaderboard — top 10, bottom 10, fastest skid completions — and a heatmap of the facility highlighting where errors are clustering. The supervisor uses this to allocate her attention.

Leaderboard is for narrative; heatmap is for triage. Together they tell the supervisor where to walk before she'd otherwise know to walk.

Top / bottom 10 — Who's flying, who's stuck

Heatmap by zone — Errors concentrated at Skid 14? Probably a faulty asset

Attention allocator — 'Go to Skid 14' suggested when patterns concentrate

Result: *the supervisor knows where to walk before being asked.*

4 AI Auto-Intervenes

"What happens when AI sees danger?"

A trainee at Skid 27 has reached toward a hot pipe surface. Before contact, Assess IQ's safety model fires — the trainee's earpiece says STOP, the AR overlay shows the heat hazard, and the supervisor's screen spotlights the camera with a coral border. AI is the first responder; the human is the override layer.

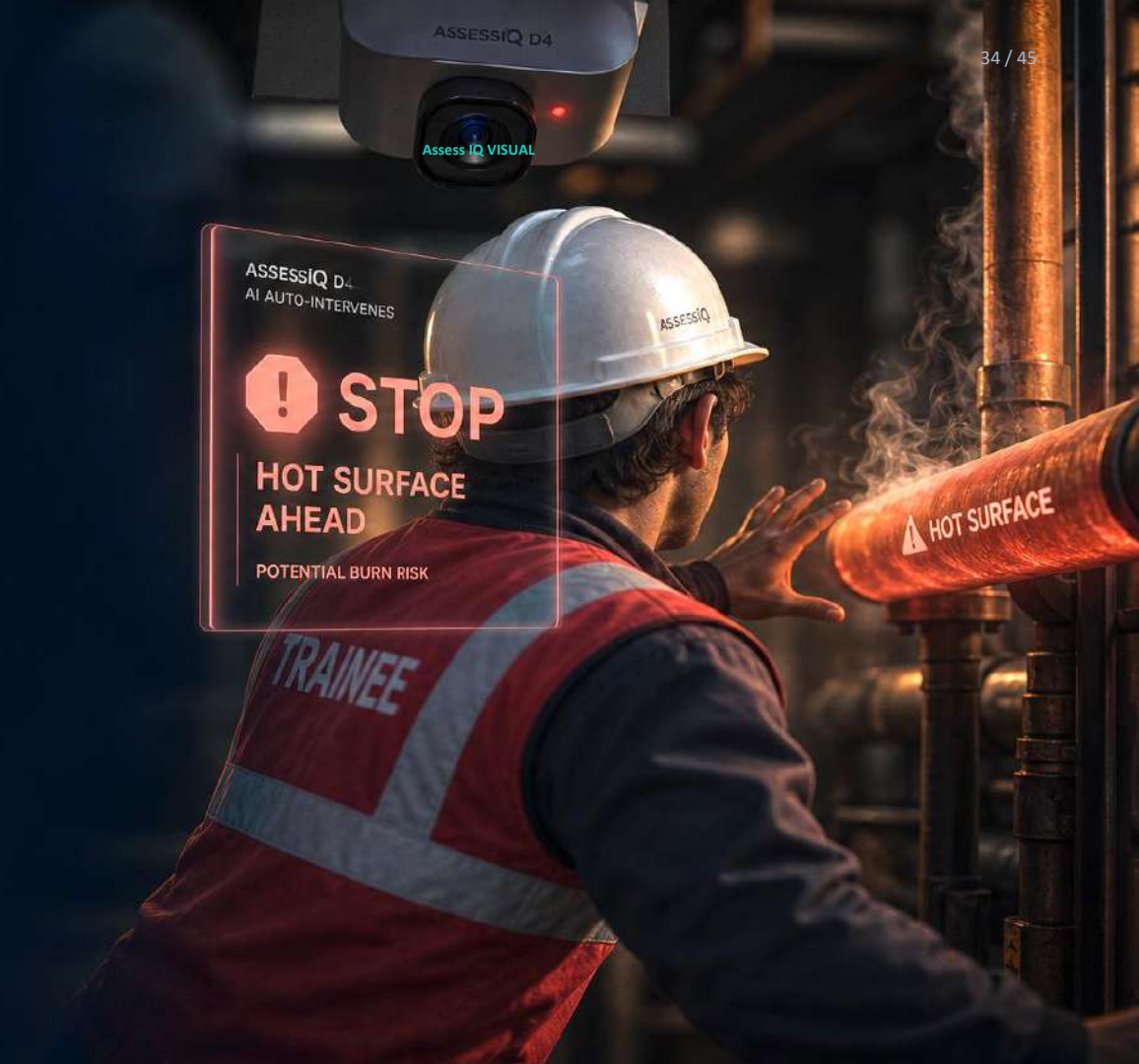
The AI doesn't wait for the supervisor to notice. It intervenes in the moment, then surfaces what it did. Reaction times are AI-fast, decisions remain human.

Trigger fires — PPE breach, hot surface, wrong component, fall hazard

Trainee gets coached — Earpiece + AR overlay; intervention is in their ear

Supervisor spotlight — Tile borders coral, audio chime, supervisor knows in 1s

Result: *a caught safety risk before contact; the supervisor sees what AI just did.*



5 Review Intervention

"What did AI do?"

Within a second of the intervention, the supervisor's screen shows the spotlight tile expanded — the camera angle, a 5-second clip of what triggered it, and a one-sentence AI explanation: 'Trainee approached 420°F surface without heat-resistant gloves.' Three big buttons wait: APPROVE / OVERRIDE / ESCALATE.

The AI explains itself in plain language and offers three actions. The supervisor doesn't have to investigate — she has to decide.

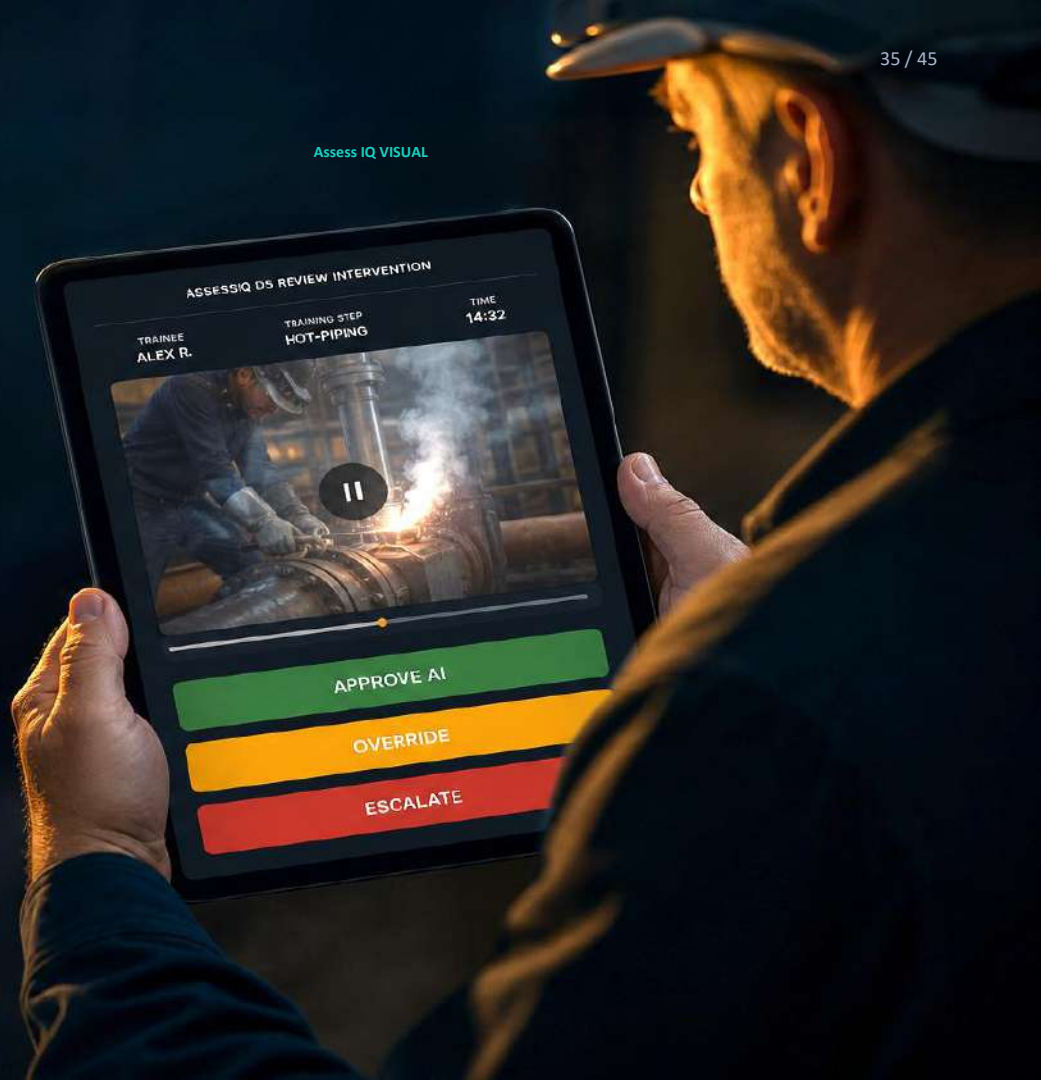
5-second clip — What the AI saw, framed

Plain-English why — One sentence — no jargon, no model-confidence-score

Three actions — Approve AI / Override (let trainee continue) / Escalate

Result: *the supervisor knows exactly what happened in under 5 seconds.*

Assess IQ VISUAL



6 Approve / Override

Assess IQ VISUAL

"Do I agree?"

The supervisor taps APPROVE — she agrees with the AI's call. The intervention is committed to the audit log, the trainee gets a written follow-up note, and the session continues. If she had tapped OVERRIDE, the AI would have stood down with a logged dissent.

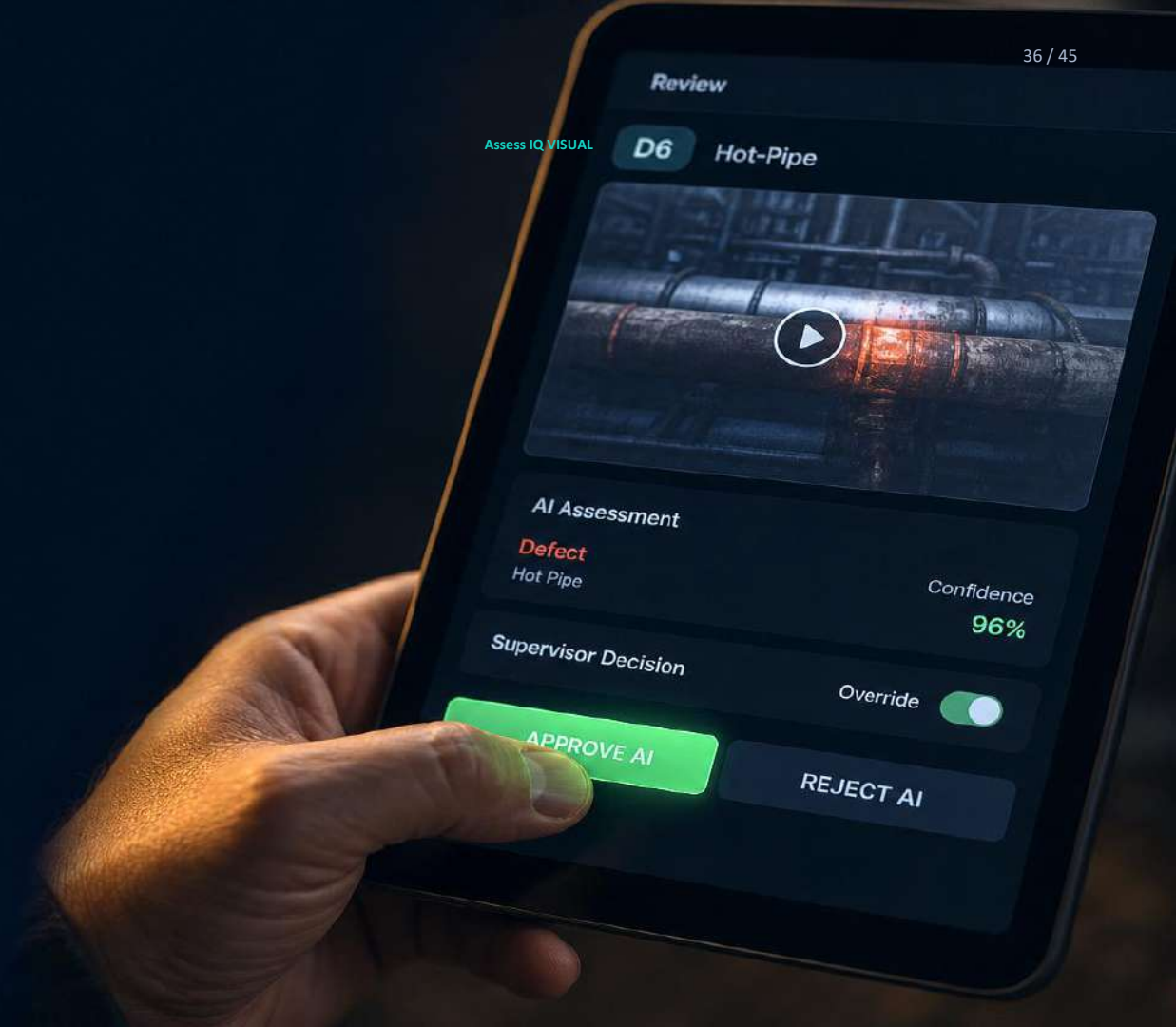
Human approval is fast and lightweight; override is fast and logged. The system never traps the supervisor in a slow review modal.

Approve — AI's call confirmed; intervention is on the record

Override — Supervisor lets trainee continue; her reasoning is logged

Escalate — Pull in safety officer; pauses skid until they respond

Result: *the intervention is closed out and signed; the session resumes.*



7 End of Day

"What gets delivered?"

At shift end, Assess IQ auto-generates the day's package — every trainee's scorecard, every intervention, every flagged moment — and emails it to the supervisor and the program owner. Evidence packs are sealed, signed, and dropped into the audit vault.

The end of day is the start of the audit trail. The supervisor doesn't 'submit' anything; the system delivers and seals it for her.

Daily package — PDF roll-up with cohort summary + every individual scorecard

Sealed evidence — Each procedure run's video + log + signature hash

Auto-delivery — Email + vault drop, no extra clicks

Result: *a day's work, sealed and delivered, before the supervisor leaves the room.*

Assess IQ VISUAL

E

Audit Review

JOURNEY E

Defensible evidence on demand. Any auditor, any procedure, any day.

WHO

Compliance officer — weeks later

STEPS

6 steps · the defend phase

1 Audit Request

"Who's asking?"

A regulator sends a request — they want to see every Hot Work procedure run by Cohort 47 between March 1 and March 15. The compliance officer logs into Assess IQ's audit portal with their credentials and a fresh case is opened.

Audit requests are a routine event, not a fire drill. The compliance officer opens a case the same way they'd open a help desk ticket.

External requester — Regulator, insurer, customer auditor

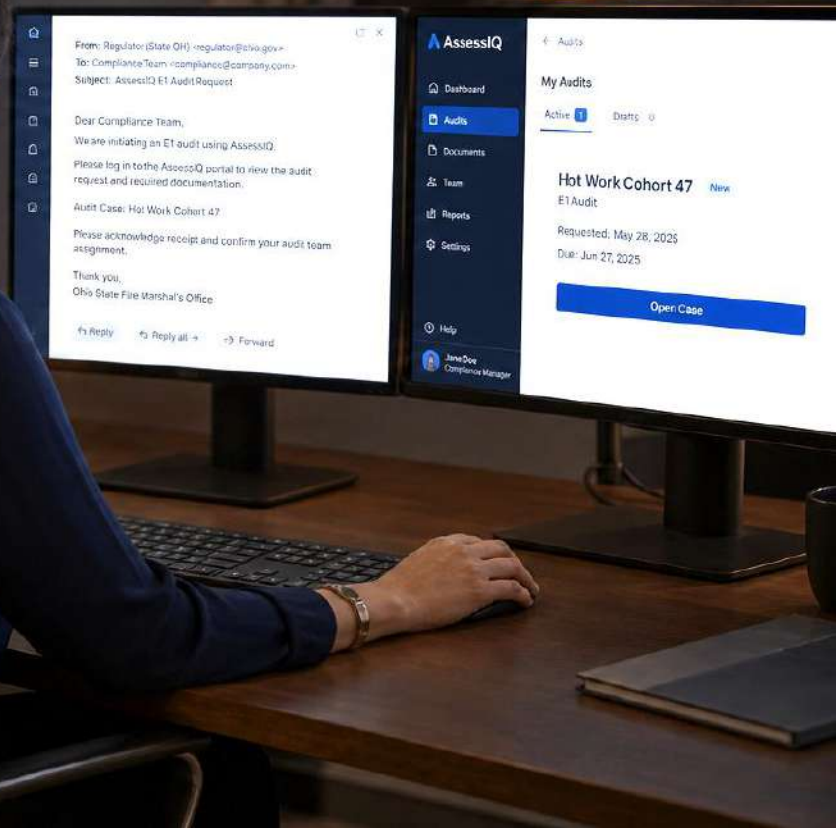
Scoped query — Procedure type + cohort + date range, locked at case open

Case opened — Audit log entry created; the entire response is itself logged

Result: *an audit case opened with a precise scope; the clock starts.*

E1 · Audit Request

Assess IQ VISUAL



2 Open Vault

"Where's the evidence?"

The compliance officer opens the Assess IQ evidence vault — a searchable archive of every sealed pack from every procedure run since the facility activated. Packs are organized by date, cohort, SOP, and trainee. Nothing has been moved or modified; the vault is append-only.

The vault is the system of record. Every other tool in the chain — the supervisor's daily email, the trainee's scorecard, the regulator's request — points back to the same packs.

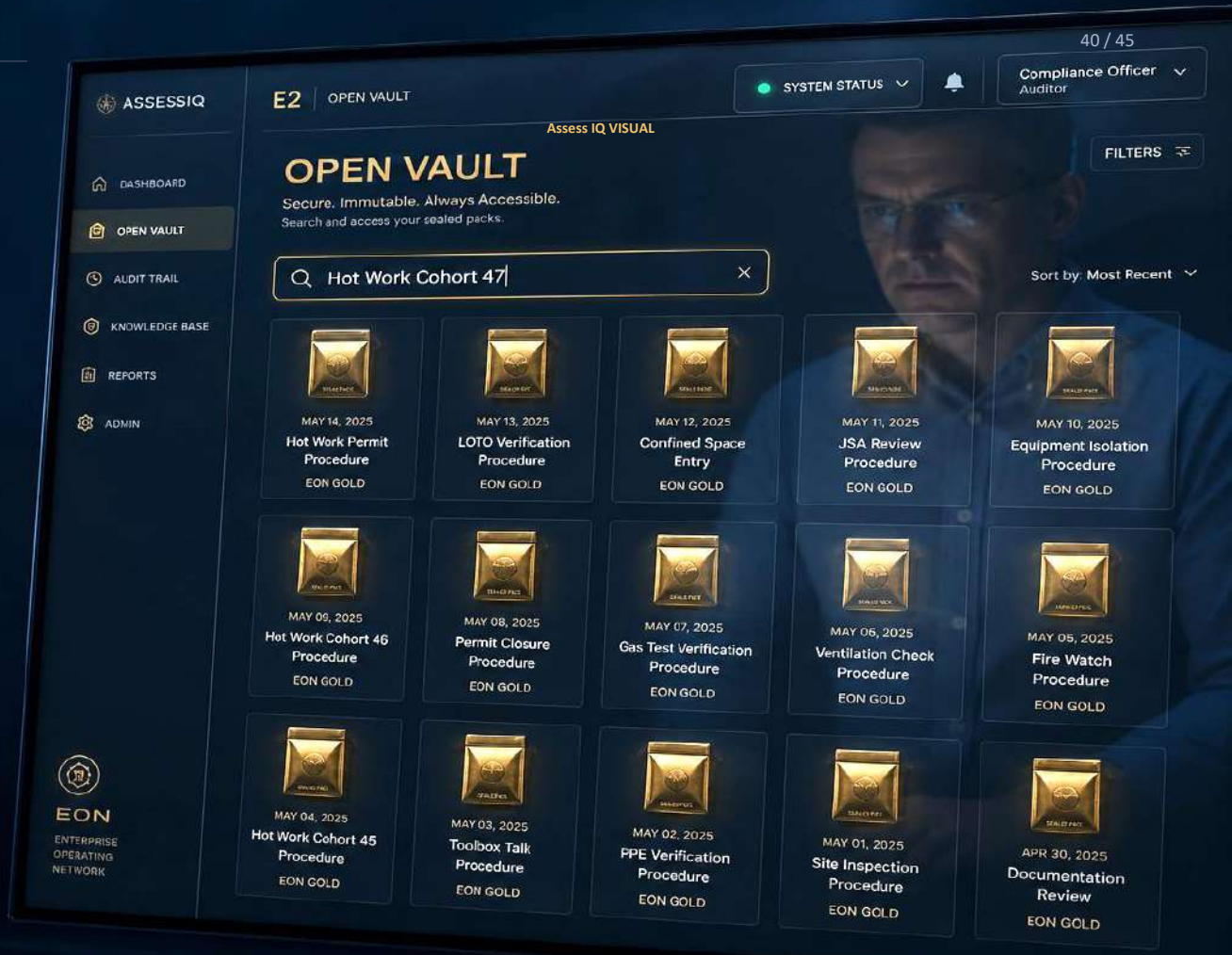
Append-only archive — Sealed when written; never edited

Four-way index — Date, cohort, SOP, trainee

Encrypted at rest — Keys held by customer; we never see raw video

Result: *the compliance officer is looking at the same evidence the auditor will see.*

E2 · Open Vault



3 Search + Filter

"How do I find it?"

The officer types the query, applies filters, and Assess IQ returns 41 sealed packs matching the criteria. Each pack shows the trainee, the SOP, the score, the date, and whether an intervention occurred during the run.

Searching the vault is not forensics. It's the same UX as searching email — the system has done the indexing work continuously.

Free-text + filter — Type to narrow; filter chips for fine grain

41 results — Tabular result list, sortable, exportable

Intervention flag — Tiny coral dot on runs where AI intervened

Result: *the relevant packs are listed; the officer picks where to start.*

E3 · Search + Filter

4 Open Pack

"What's in here?"

The officer clicks the first pack. It opens to a single-page report — the SOP, the trainee, the gold-standard reference video, the trainee's recorded run side by side, the scored gates, any interventions, and the chain of custody.

An evidence pack is not a file folder — it's a story. The auditor can read it in 90 seconds or drill into the underlying video frames if they want.

Side-by-side video — Gold standard + trainee run, synchronized

Gate-by-gate score — Each scored step with timestamp and confidence

Chain of custody — Edge → cloud → vault, with hashes at every hop

Result: *the auditor sees the full story of one procedure on one page.*

5 Verify Signature

"Is it valid?"

The officer clicks VERIFY. Assess IQ checks the pack's SHA-256 hash chain, validates the ed25519 signature, confirms the RFC 3161 timestamp from the third-party authority, and shows a green VERIFIED stamp. Any tampering would have shown red here.

Signature verification is not a formality. It's the moment the auditor can stop trusting Assess IQ and start trusting the math.

Hash chain check — Every frame's hash links to the next

ed25519 signature — Signed at write-time by the facility's key

RFC 3161 timestamp — Third-party timestamp authority cosigns the moment

Result: *a green VERIFIED stamp the auditor can take to court.*

E5 · Verify Signature

Assess IQ VISUAL

6 Export

Assess IQ VISUAL

"Send it where?"

The officer exports the 41 packs as a single zipped audit package — PDFs for the regulator, raw evidence pack files for the customer's compliance team. Assess IQ logs the export, fingerprints the package, and notifies the program owner that an audit response went out.

Export closes the loop. The audit request, the search, the verification, and the package itself are now all part of the audit log — meta-evidence that the audit was handled.

PDF for humans — Readable summary for the regulator

Raw for auditors — Full evidence packs for forensic review

Log + notify — Export logged; program owner notified by email

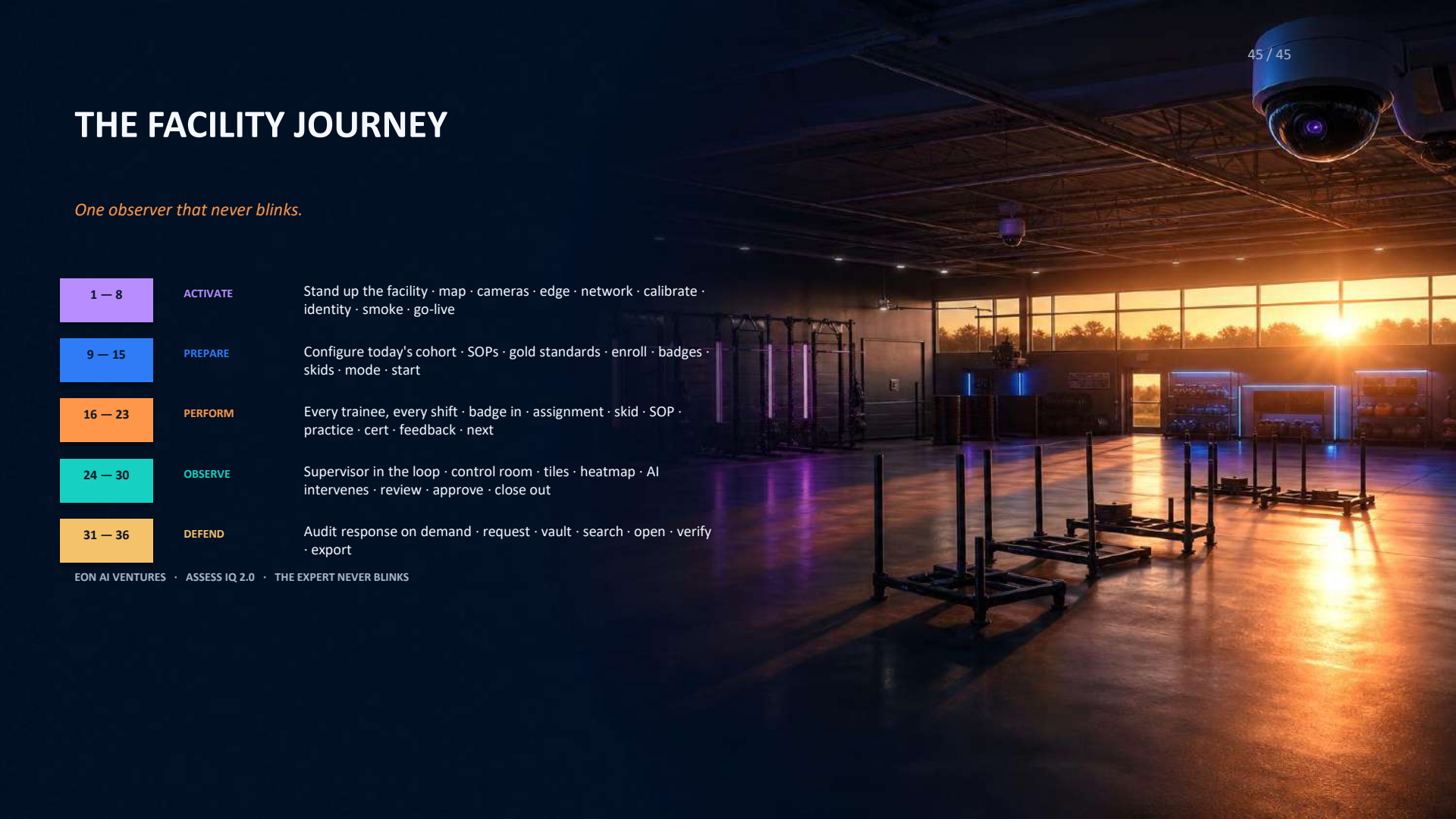
Result: *the audit response is out the door; the case is closed and logged.*

E6 · Export

THE FACILITY JOURNEY

One observer that never blinks.

1 — 8	ACTIVATE	Stand up the facility · map · cameras · edge · network · calibrate · identity · smoke · go-live
9 — 15	PREPARE	Configure today's cohort · SOPs · gold standards · enroll · badges · skids · mode · start
16 — 23	PERFORM	Every trainee, every shift · badge in · assignment · skid · SOP · practice · cert · feedback · next
24 — 30	OBSERVE	Supervisor in the loop · control room · tiles · heatmap · AI intervenes · review · approve · close out
31 — 36	DEFEND	Audit response on demand · request · vault · search · open · verify · export



ASSESS IQ 2.0

The Facility Journey

Observe anywhere. Score everything. Defend always.

50 skids. 500 trainees. One observer that never blinks.

A	System Activation	*8 steps*
B	Session Setup	*7 steps*
C	Trainee Use	*8 steps*
D	Monitoring	*7 steps*
E	Audit Review	*6 steps*

36 STEPS · 5 JOURNEYS · ONE OBSERVER

Dashboard
Facility Map
Cohorts
SOPs
Trainees
Live Monitor
Audit Vault
Reports
Settings
Help

DP David Park
Supervisor · on duty

Welcome to

ASSESS IQ 2.0

Observe anywhere. Score everything. Defend always.

Assess IQ 2.0 turns your training floor into a live-observed, AI-scored, audit-ready facility — across 5 journeys and 36 simple steps.

No manual scoring required — the AI does the heavy lifting.

+ New Project

▶ Quick Start Tour

JUMP STRAIGHT TO YOUR JOURNEY

A — I'm setting up a facility
IT / installer

B — I'm running today's cohort
Admin / supervisor

C — I'm a trainee on the floor
Field user

D — I'm watching the live shift
Live supervisor

E — I'm responding to an audit
Compliance officer

Simple for You
One screen at a time. Tap to approve. Sign on the way out.

Powerful Underneath
Multi-camera AI fuses 100 feeds. Millions of consensus passes.

Audit-Ready by Default
Every frame hashed, signed, timestamped. Sealed before you leave.

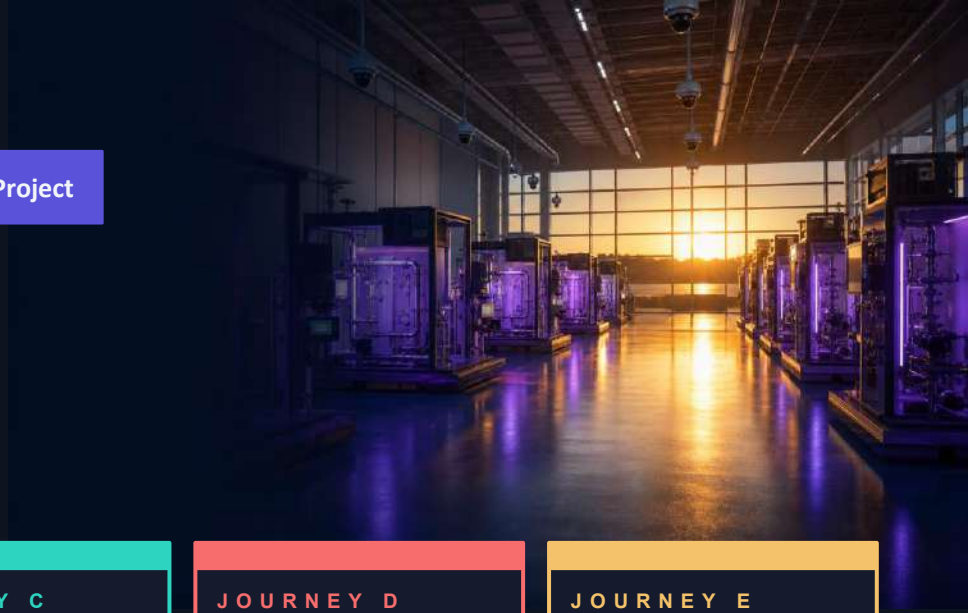
Enterprise Security | Cloud Connected | Scalable to 500 | Always Recording

QUICK START TOUR

What happens when you click

+ New Project

Assess IQ walks you through five journeys in order — one screen at a time. You never have to ask "where do I go next?"



JOURNEY A

System Activation

8 steps

IT / install

→

JOURNEY B

Training Session Setup

7 steps

Admin

→

JOURNEY C

Trainee Use

8 steps

Trainees

→

JOURNEY D

Monitoring

7 steps

Supervisor

→

JOURNEY E

Audit Review

6 steps

Compliance

1 **One question at a time**

Each step is a single screen — no menus, no dashboards to assemble.

2 **Guided every step**

Back / Continue at the bottom of every screen. The system knows your next move.

3 **Sealed at every gate**

Each step's outcome is logged, hashed, and timestamped before the next opens.

JOURNEY 1 OF 5

JOURNEY A

System Activation

Map the facility, install hardware, calibrate, activate.

IT / install team · one-time

8 steps · the create phase

↓ *Click + New Project to begin walking through all 8 steps*

- Dashboard
- Facility Map
- Cohorts
- SOPs
- Trainees
- Live Monitor
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- Reports
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- Help

DP David Park
Supervisor · on duty

1 Map the Facility

"Where does this happen?"

Drop in a BIM/CAD model, sketch on a blank canvas, scan with a phone, or import a sister-site template. The map becomes the foundation of every assessment.

FOUR WAYS IN

- Import BIM / CAD
- Sketch blank canvas
- Phone scan + scale
- From sister site

Why this matters

Every camera position, every skid, every trainee path lives on this map. Get it right once.

Import BIM/CAD | Sketch | Phone scan | Sister site

Houston Energy · 50 skids · 153 cameras placed · Saved

Facility Info

Name	Houston Energy
Layout source	BIM v3.2
Skids placed	50 / 50
Cameras placed	153 / 153
Edge boxes	50
Floor area	12,400 m²
Status	✓ Mapped

- Dashboard
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DP **David Park**
Supervisor · on duty

2 Place Skids + Cameras

"What goes where?"

Drag skid tiles onto the floor plan. For each skid, attach a ceiling camera and a shoulder camera. The system auto-suggests positions based on SOP type.

PER SKID

- Ceiling cam (required)
- Shoulder cam (required)
- Wide cam (optional)
- Microphone array

Why this matters

Two cameras per skid is the minimum for multi-cam fusion. Body pose + hand precision.

Skid 12 · Valve Lockout

Top-down view · drag cameras to position

Camera Assignment

Ceiling	Axis P3245-LV	Configured
Shoulder	Axis M5075-G	Configured
Wide	—	Optional
Microphone	Shure MX415	Configured

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DP David Park
Supervisor · on duty

3 Mount Edge Boxes

"What runs at each station?"

One Jetson-class edge box per skid. Each box runs activity detection, identity matching, and clip extraction locally. Only relevant clips forward to the cloud.

PER EDGE BOX

- Jetson Orin NX 16GB
- 256GB local buffer
- 1 Gbps uplink
- Hot-swap spare

Why this matters

Edge processing keeps cloud cost bounded as facilities scale. Without it, economics break.

Edge Box Health

50	47	2	1
Total	Online	Provisioning	Offline

Jetson edge box, industrial enclosure

fanless aluminum case, PoE input, mounted at skid base

Recent Heartbeats

EB-H4-012	1s ago
EB-H4-013	2s ago
EB-H4-014	1s ago
EB-H4-015	—
EB-H4-016	2m ago
EB-H4-017	1s ago
EB-H4-018	2s ago

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4 Network Test

"Can data flow at scale?"

Each skid uploads ~30MB clips on average, ~1.5GB per skid per day. Target uplink: 1 Gbps with 4x headroom. RTT to cloud Gemini endpoint: under 30ms.

WHAT WE TEST

- Per-skid bandwidth
- Edge → cloud RTT
- Saturation scenarios
- Failover behavior

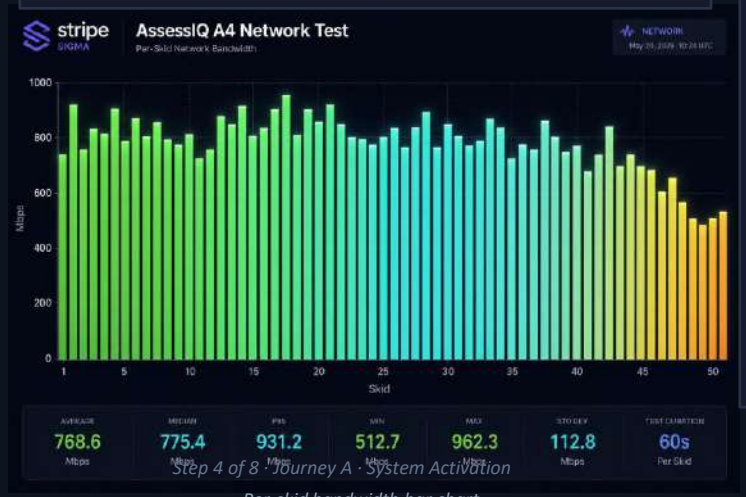
Why this matters

75 GB/day at full cohort. Test the network now or pay for it later in dropped frames.

← Back

Network Profile

1.0 Gbps Uplink	**12 ms** RTT
75 GB Forward / day	**Stable** 24h connection



Per-skid bandwidth bar chart

50 bars, green/cyan/amber by utilization level

Test Suite

- Single-skid baseline ✓
- 10-skid burst ✓
- 50-skid sustained ✓
- Cloud RTT < 30ms ✓
- Failover to LTE backup ✓
- Buffer overflow recovery ✓
- Cold boot to ready ✓

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DP David Park
Supervisor · on duty

5 Calibrate Fusion

"Do the cameras see the same world?"

Place a checkerboard at four positions per skid. The system computes geometry, time-sync, and lighting baseline. Refresh quarterly or whenever cameras move.

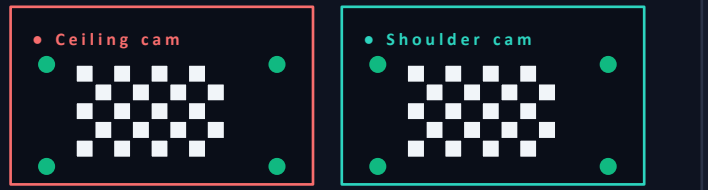
CALIBRATION CHECKS

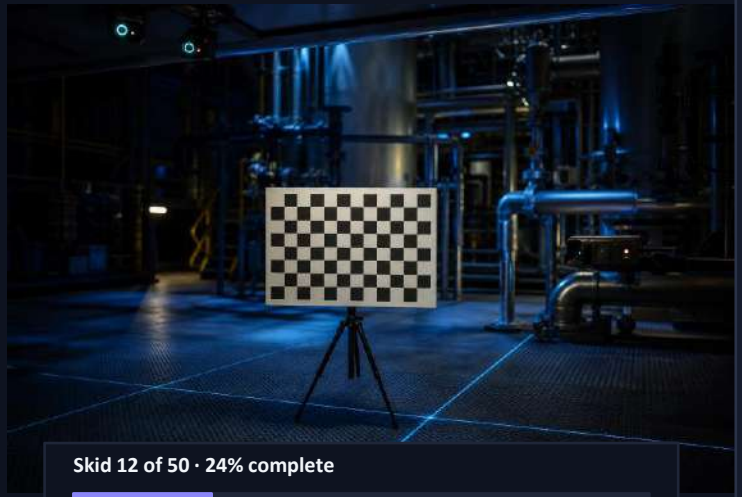
- Geometric (checkerboard)
- Time sync (NTP < 30ms)
- Lighting baseline
- Fusion test (body+hands)

Why this matters

Drift > 30ms breaks fusion silently. Calibrate, lock, and trust.

Skid 12 · Live calibration





Skid 12 of 50 · 24% complete

✓ Geometric ✓ Time sync ✓ Lighting

Drift Monitor

Live time-sync drift across all 50 skids

NTP drift line chart, 50 skids

all under 30ms threshold

← Back

Step 5 of 8 · Journey A · System Activation

Continue →

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6 Test Identity

"Can we recognize every trainee?"

Verify that badges, faces, and uniforms all work across the camera network before the cohort arrives. 50-walkthrough samples per facility.

THREE-TIER IDENTITY

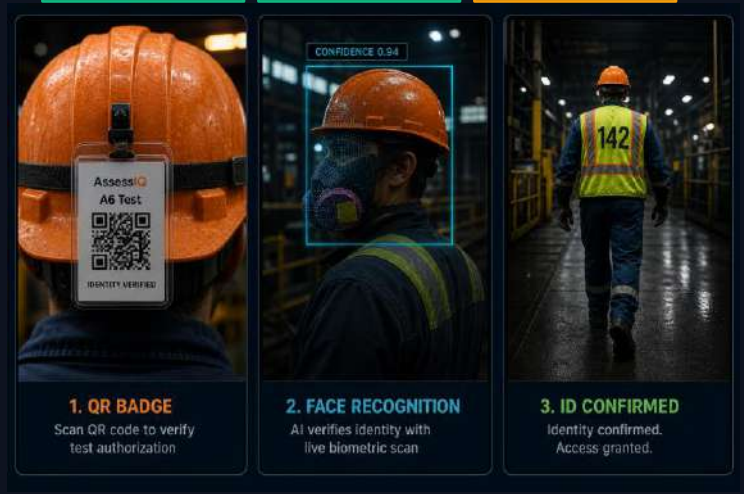
- Tier 1: Badge / QR (primary)
- Tier 2: Face embedding
- Tier 3: Uniform + number
- Hybrid: badge + face

Why this matters

Get identity wrong and the whole audit-grade promise collapses. This step is the integrity floor.

Identity Baseline Test

T 1	T 2	T 3
Badge / QR	Face embed	Uniform
99%	94%	78%



Three identity capture samples

badge close-up + face recognition box + uniform back-number

Sample Results

Badge readable @ 5m	50/50
Badge under hard-hat tilt	49/50
Face under respirator PPE	47/50
Re-ID across skids	50/50
Uniform fallback	44/50
Confidence > 0.85	48/50

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7 Smoke Test

"Does the pipeline work end-to-end?"

One expert performs one SOP at one skid. The system scores it end-to-end. Verify the full pipeline works before opening to a cohort.

PIPELINE STAGES

- Edge: activity detection
- Cloud: Gemini scoring
- UI: live scorecard publish
- Vault: evidence pack

Why this matters

If smoke test passes, the cohort can roll. If it fails, you fix it before 500 people show up.

SMOKE TEST · Expert running SOP-VL01

PIPELINE LOG

t+0.0	Person detected at Skid 12
t+0.4	Badge read · expert verified
t+1.8	Activity: SOP-VL01 started
t+38s	Step 3 → MATCH (conf 0.92)
t+55s	Gemini live pass · 2.3s latency
now	Step 4 → running

Live Scorecard

1. Approach
2. Verify pressure
3. Engage lockout
4. Apply padlock
5. Tag
6. Test valve
7. Document
8. Confirm

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DP David Park
Supervisor · on duty

8 Activate Facility

"Ready to take cohorts?"

All systems green. Floor plan locked. Cameras calibrated. Identity tested. Smoke test passed. Ready to accept cohorts.

ACTIVATION CHECKLIST

- 50 skids placed
- 153 cameras online
- Identity tested
- Smoke test passed

Why this matters

This is the moment the facility becomes a product. From here on, cohorts roll daily.

Training Center · ready for first cohort

Activation Summary

Skids	50
Cameras	153
Edge boxes	50
Avg health	Green
Cohort slots	Open
First cohort	Tomorrow 08:00

JOURNEY 2 OF 5

JOURNEY B

Training Session Setup

Configure today's cohort and launch the session.

Admin / supervisor · recurring

7 steps · the session phase

↓ *7 screens, one question at a time*

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Active Project
B1 Turnaround 2024

Alex Johnson
Project Admin

1 Pick SOPs

"What gets assessed today?"

Choose which procedures the cohort will be assessed on today. Search the SOP library, filter by category, and tag Genesis-authored SOPs for fastest setup.

SOP LIBRARY

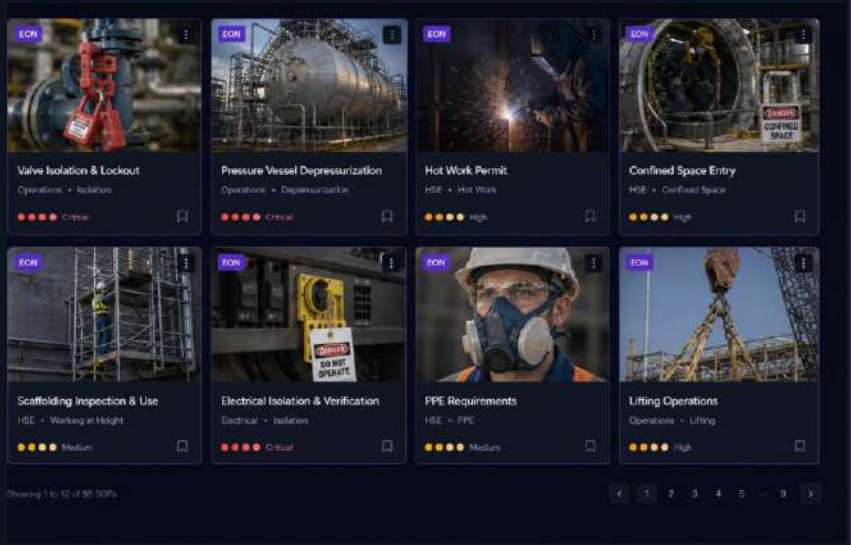
- Safety procedures
- Maintenance
- Operations
- Genesis-authored

Why this matters

Each selected SOP becomes today's scorecard. Pick the right mix for the cohort's role.

Select SOPs for Today's Cohort

All | Safety | Maintenance | Operations | Genesis



Today's Menu

1. Valve Lockout / Tagout
2. Pressure Vessel Inspection
3. Hot Work Permit
4. PPE Donning · Level B

4 SOPs · 40 steps

~3h cohort time · 10 critical steps

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2 Load Gold Standards

"What's the right way?"

Each SOP needs a reference performance. Pull from Genesis (fastest), capture in place, import from Field IQ recordings, or upload prior video.

FOUR SOURCES

- Genesis (2 min)
- Capture in place (15 min)
- Field IQ recording (5 min)
- Prior video (5 min)

Why this matters

Genesis integration is the unfair advantage. If the SOP is authored there, the standard is already encoded.

Gold Standard Sources

Genesis → Assess IQ Gold Standard import flow

data flowing from Genesis interface into Assess IQ

Status by SOP

Valve Lockout — Genesis — ✓ Loaded

Pressure Vessel — Genesis — ✓ Loaded

Hot Work — Capture — → Schedule

PPE Donning — Genesis — ✓ Loaded

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DP **David Park**
Supervisor · on duty

3 Enroll Cohort

"Who's training today?"

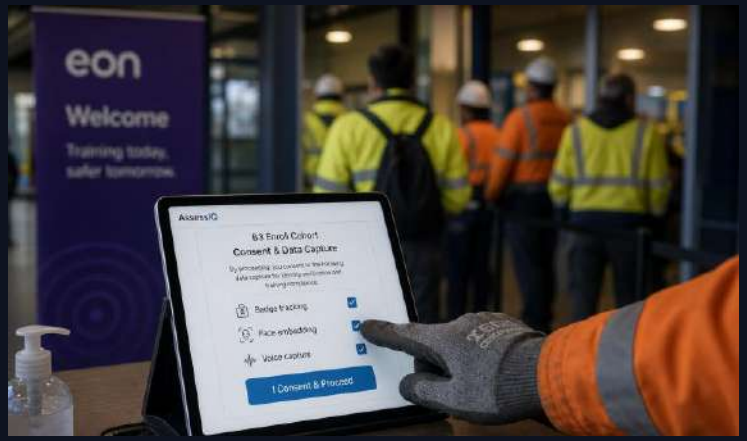
Import the trainee roster from HR, scan badges at check-in, or enter manually. Capture consent for face and voice at this step.

ENROLLMENT INPUTS

- HR system import
- CSV upload
- Badge scan check-in
- Consent capture

Why this matters

Consent at enrollment isn't paperwork — it's the legal floor for everything that follows.



Cohort 2026-05-23 · 500 trainees

500 Enrolled	489 Consent ✓	11 Pending	4 Face opt-out

Name	ID	Badge	Consent	Status
Maria L. Hernandez	EH-142	BDG-0142	F+V	Ready
James K. Carter	EH-208	BDG-0208	F+V	Ready
Aisha N. Patel	EH-310	BDG-0310	F	Ready
Robert M. Chen	EH-061	BDG-0061	F+V	Ready
Sofia G. Ortiz	EH-099	BDG-0099	—	Pending
Marcus J. Boyd	EH-417	BDG-0417	…	Pending

Consent Scopes

Badge tracking
Required

Face embedding
Default opt-in

Voice capture
Opt-in

Multi-day retention
Explicit opt-in

AI training (de-id)
Explicit opt-in

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DP David Park
Supervisor · on duty

4 Issue Badges

"How does the system know each person?"

Print QR badges for hard hats. Assign hi-vis vest color by zone. Color-coded zones aid identity re-ID and supervisor zoning.

FOUR ZONES

- Red · Skids 1-12
- Green · Skids 13-25
- Yellow · Skids 26-37
- Cyan · Skids 38-50

Why this matters

Color-coded zones survive PPE occlusion. The supervisor can see who belongs where, from 30m.

Badge + Vest Assignment

PRINT QUEUE

500 / 500 badges printed

Print all →

Estimated readout reliability: 99.1% from 5m

Zone Assignment

Red	Skids 1-12	120 trainees · *Valve Lockout*
Green	Skids 13-25	130 trainees · *Pressure Vessel*
Yellow	Skids 26-37	120 trainees · *Hot Work*
Cyan	Skids 38-50	130 trainees · *PPE Donning*

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DP David Park
Supervisor · on duty

5 Assign Skids

"Who goes where?"

Drag SOPs onto skid zones in the facility map. Auto-suggest places equipment-appropriate SOPs at the right skids.

ASSIGNMENT MODES

- Auto-suggest (default)
- Drag-and-drop
- By zone color
- Copy from prior day

Why this matters

Bad assignment = trainees doing the wrong SOP on the wrong equipment. Auto-suggest prevents that.

Skid ↔ SOP Mapping

SOPs to Place

- **Valve Lockout** — *12 skids · auto-assigned*
- **Pressure Vessel** — *13 skids · auto-assigned*
- **Hot Work** — *12 skids · auto-assigned*
- **PPE Donning** — *13 skids · auto-assigned*

Confirm assignments →

- Dashboard
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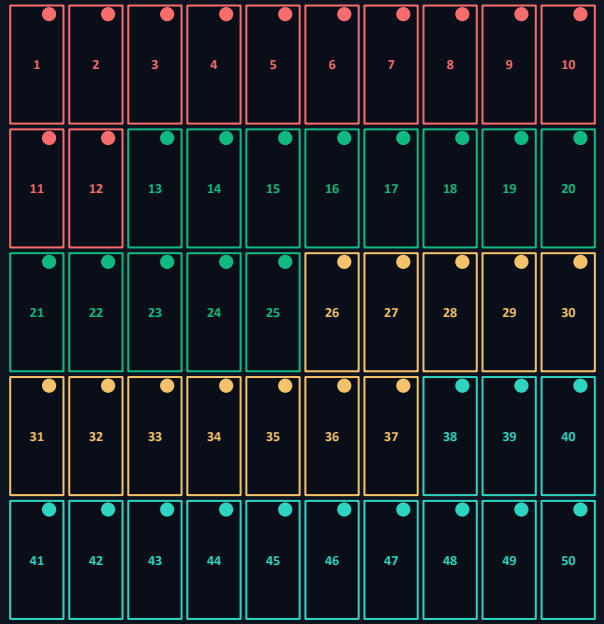

SOPs to Place

Valve Lockout
12 skids · auto-assigned

Pressure Vessel
13 skids · auto-assigned

Hot Work
12 skids · auto-assigned

PPE Donning
13 skids · auto-assigned

Confirm assignments →

DP David Park
Supervisor · on duty

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DP David Park
Supervisor · on duty

6 Set Mode

"Practice or Cert?"

Practice mode coaches the trainee live. Cert mode observes silently and produces audit-grade evidence. You can override per zone or per skid.

TWO MODES

- Practice: coached, no penalty
- Cert: silent, audit-grade
- Per-zone override
- Safety overrides Cert silence

Why this matters

The mode IS the integrity contract. Practice teaches. Cert certifies. Don't confuse the two.

PRACTICE

Coached

AI nudges via tablet, earpiece, or FieldIQ glasses. No penalty for hints.

Used for: first-time learning, warmups, refreshers

CERT

Silent

Cameras observe. No coaching. Signed audit-grade evidence.

Used for: certification, recertification, formal audits

Default: PRACTICE for the morning, CERT for the afternoon

You can override per skid or per zone in the next step

Safety Carve-Out

SAFETY OVERRIDE

AI safety intervention overrides Cert silence. The attempt is flagged INTERRUPTED and the supervisor decides re-run. No scoring penalty.

Today's Schedule

08:00-12:00	PRACTICE
12:00-13:00	Lunch
13:00-17:00	CERT

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Step 6 of 7 · Journey B · Training Session Setup

Continue →

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DP David Park
Supervisor · on duty

7 Start Session

"Launch the cohort?"

All pre-flight checks pass. Pre-flight summary confirms cohort, SOPs, mode, supervisors. One button launches 500 trainees.

PRE-FLIGHT CHECKS

- Cameras healthy
- Edge boxes online
- Gemini SLA confirmed
- Vault writable

Why this matters

This is the moment the day starts. After this, the system runs itself for hours.

Cohort 2026-05-23 · Pre-flight

Houston Energy · Supervisor on duty: David Park

500	4	50
Trainees	SOPs	Skids
153	100%	Ready
Cameras	Consent	Health

▶ Start Cohort

Final Checks

- ✓ Cameras healthy
- ✓ Edge boxes online
- ✓ Gemini SLA confirmed
- ✓ Vault writable
- ✓ Backup network ready
- ✓ Supervisor logged in
- ✓ Cohort enrolled
- ✓ Badges printed

JOURNEY 3 OF 5

JOURNEY C

Trainee Use

Show up, perform, get scored, move to the next station.

Each of 500 trainees

8 steps · the trainee phase

↓ *8 screens, one question at a time*

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DP David Park
Supervisor · on duty

1 Badge In

"Where do you start?"

Trainee enters the facility, scans badge at the entrance kiosk. System verifies enrollment, consent status, and assigns the first skid.

BADGE-IN FLOW

- QR scan at kiosk
- Enrollment verified
- Consent re-confirmed
- First skid assigned

Why this matters

Every trainee starts here. If badge-in is friction, the whole day starts slow.

Facility entrance kiosk · trainee scanning

Facility entrance kiosk · trainee scanning

tablet kiosk, scanner active, welcome screen visible

Check-in Status

487 / 500 trainees checked in

RECENT

Maria L. #142	08:02:14
James C. #208	08:02:11
Aisha P. #310	08:02:08
Robert C. #061	08:02:04
Sofia O. #099	08:01:58

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2 See Assignment

"Where am I going?"

Personal assignment appears on a large wall display nearby. Skid number, SOP name, mode, estimated time. Personalized to this trainee.

ASSIGNMENT SHOWS

- Your name + ID
- Zone color
- Assigned skid number
- SOP + mode

Why this matters

Trainees walk into a facility of 500 people. The wall display says 'YOU go to skid 22.' No guesswork.

Personal wall display showing assignment

Personal wall display showing assignment

large screen, single trainee's assignment, zone-colored

Sample Assignment

RED ZONE

Maria L.

Trainee #142

Skid 22

Valve Lockout / Tagout

Practice · 8 steps · ~3 min

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DP **David Park**
Supervisor · on duty

3 Walk to Skid

"How do I get there?"

Phone companion gives turn-by-turn wayfinding inside the facility. Cameras follow the trainee across the floor — identity stays locked.

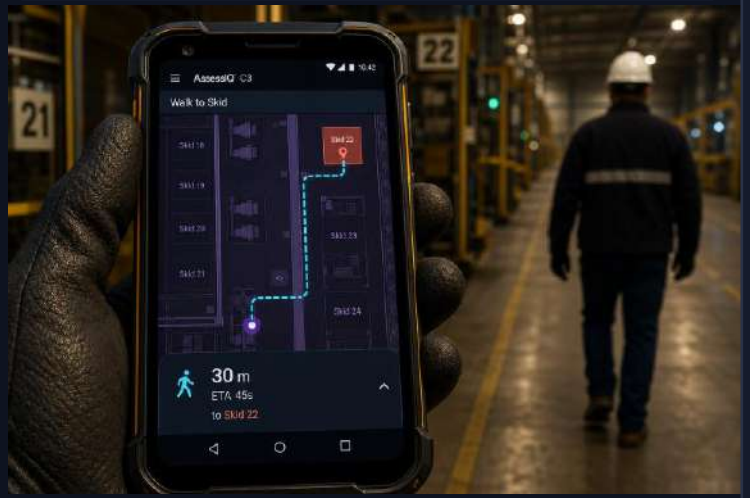
WHILE WALKING

- Phone wayfinding
- Cameras tracking ID
- Cohort progress visible
- Safety overlay on path

Why this matters

Re-ID across skids is the hard plumbing. The trainee never notices it; that's the point.

Phone companion · turn-by-turn wayfinding



Phone companion · turn-by-turn wayfinding

mobile app showing facility map with route

Behind the Scenes

Identity locked
ID #142 across all cameras

Skid 22 prepared
Edge box loaded SOP-VL01

Cohort progress
12 of 500 on first SOP now

Safety active
AI watching all paths

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DP David Park
Supervisor · on duty

4 Read SOP Card

"What am I doing?"

At the skid, a wall-mounted tablet shows the SOP card. Critical steps are flagged. Trainee can also read it via Field IQ glasses if available.

DELIVERY OPTIONS

- Skid tablet (default)
- Field IQ glasses (AR)
- Printed paper card
- Voice readback

Why this matters

Same SOP, three surfaces. Trainee picks what works for them; the system tracks any of them.

Skid tablet showing SOP card · 8 steps with criticality

Skid tablet showing SOP card · 8 steps with criticality

ruggedized tablet on stand, current step highlighted

SOP-VL01 · Valve Lockout

1	Approach	
2	Verify pressure	CRIT
3	Engage lockout	CRIT
4	Apply padlock	
5	Tag with name + date	
6	Test valve	CRIT
7	Document	
8	Confirm isolation	

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Supervisor · on duty

5a Practice Mode

"Can I learn with help?"

Trainee performs the procedure. AI nudges via tablet, earpiece, or Field IQ glasses when they stray. Hints don't penalize.

WHEN AI COACHES

- Wrong component touched
- Step skipped or missed
- Trainee paused > 30s
- Trainee requested help

Why this matters

Practice is supposed to be safe to fail. Coach often, score nothing.

Tablet during Practice · AI nudge popup live

Tablet during Practice · AI nudge popup live

trainee mid-procedure, AI avatar offering hint via tablet

Live Coaching

AI Coach · Practice mode

"Lockout slides ON, not over. Try the silver tab first."

Hint · no penalty · keep going

DELIVERED VIA

- Tablet ✓
- Earpiece ✓
- Field IQ glasses —

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Supervisor · on duty

5b Cert Mode

"Can I prove it silently?"

Trainee performs the procedure. No AI coaching. Cameras observe and score. Safety override is the ONLY exception to silence.

CERT CONTRACT

- No procedural nudges
- No step hints
- Safety override allowed
- Audit-grade evidence

Why this matters

Cert is the signature on the evidence pack. Coaching during Cert invalidates the certification.

Tablet during Cert · minimal UI, just the step

Tablet during Cert · minimal UI, just the step

trainee mid-procedure, tablet shows only current step number

Cert Integrity

No coaching

Cameras observe · scorecard is the evidence

SAFETY OVERRIDE

AI intervention overrides silence. Attempt flagged INTERRUPTED. Supervisor decides re-run. No scoring penalty.

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DP **David Park**
Supervisor · on duty

6 See Feedback

"How did I do?"

Practice: per-step scorecard appears immediately, with hint markers and timing. Cert: final score locked until 5-pass consensus completes (~30-60s).

WHAT YOU SEE

- Steps correct
- Hints accepted (Practice)
- Steps missed or wrong
- Cohort comparison

Why this matters

Instant feedback closes the learning loop. Trainees fix their own mistakes before they leave the skid.

Skid tablet · final scorecard with per-step results

Skid tablet · final scorecard with per-step results

score percent, step-by-step list with status icons

Maria L. · Result

92%

7/8 steps correct · 1 hint

Step accuracy
92% · cohort 78%

Sequence
100% · cohort 82%

Speed
86% · cohort 71%

Safety
100% · cohort 95%

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Step 6 of 8 · Journey C · Trainee Use

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Supervisor · on duty

7 Get Scorecard

"Next station?"

Trainee gets a complete scorecard with performance vs cohort, and their next assignment. Walk to the next skid · cycle continues.

SCORECARD CONTENTS

- Per-step results
- Cohort comparison
- Next assignment
- Evidence pack reference

Why this matters

Every trainee leaves the skid knowing exactly how they performed and where to go next. No bottlenecks.

Trainee scorecard + next assignment card

Trainee scorecard + next assignment card

personalized view: score, next skid, walk directions

Maria's Day So Far

08:02 Valve Lockout **92%**

08:45 Pressure Vessel **Now**

– Hot Work

– PPE Donning

Walk to Skid 24 →

← Back

Continue →

JOURNEY 4 OF 5

JOURNEY D

Monitoring

Watch the whole facility from one screen.

Supervisor · live

7 steps · the monitoring phase

↓ *7 screens, one question at a time*

- Dashboard
- Facility Map
- Cohorts
- SOPs
- Trainees
- **Live Monitor**
- Audit Vault
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- Help

DP **David Park**
Supervisor · on duty

1 Open Control Room

"Where do I see it all?"

Supervisor opens Assess IQ Control. Default view is the facility map — 50 skids, color-coded by zone, status pips per skid, live stats panel on the right.

DEFAULT LANDING

- Facility map view
- Per-skid status pip
- Zone color border
- Live stats sidebar

Why this matters

One screen, whole facility. No tab-switching, no drill-down required.

Facility map · 50 skids with live status

Facility map · 50 skids with live status

10x5 grid, zone colors, status dots, hover details

Live Stats

47/50 Skids active

1 Violation now

3 Pending review

3,124 Attempts today

94.2% Pass rate

12s Avg latency

Dashboard
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DP David Park
Supervisor · on duty

2 Tile Grid

"Every skid at a glance?"

Switch to detailed tile grid. Each tile shows live camera feed thumbnail, trainee name, current step, and per-skid status indicator.

PER TILE

- Live camera thumb
- Trainee name + #
- Step X of Y
- Status pip

Why this matters

Supervisor scans 12 tiles at once instead of 50 monitors. AI does the looking; supervisor handles exceptions.

Tile grid · 12 of 50 skid feeds

Tile grid · 12 of 50 skid feeds

4x3 grid, each tile a live thumbnail with text overlay

Active Now

Skid 12	Maria L.	Step 3/8
Skid 14	Aisha P.	Step 5/14
Skid 15	Robert C.	Step 2/6
Skid 22	Sofia O.	Step 6/8
Skid 27	Marcus B.	Step 8/14
Skid 28	Priya K.	Step 3/14
Skid 35	Emma D.	Step 4/6
Skid 41	Lucas R.	Step 1/8

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DP **David Park**
Supervisor · on duty

3 Leaderboard + Heatmap

"Where are the gaps?"

Two analytical views on one screen. Leaderboard ranks trainees by score. Heatmap shows which SOP steps are causing the most failures.

TWO LENSES

- Top performers
- Largest failures
- Step-level heatmap
- Insight callouts

Why this matters

Heatmap tells you whether to fix training or fix the SOP itself. Data-driven SOP refinement.

Leaderboard + cohort heatmap split view

Leaderboard + cohort heatmap split view

ranked list left, heatmap grid right, insight callout

Insight Callouts

⚠ **Hot Work Step 6**

35% failure rate · SOP unclear, not training

⚠ **Valve Lockout Step 3**

28% miss rate · padlock confusion

⚠ **Pressure Vessel Step 10**

22% timeout · cohort slower than ref

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DP David Park
Supervisor · on duty

4 AI Auto-Intervenes

"What happens when AI sees danger?"

When AI detects an imminent safety risk, it coaches the trainee in the moment. Spotlight cuts to the camera. Supervisor pinged. Auto-continue if no response in 15s.

FOUR TRIGGERS

- Hazard proximity
- Wrong component
- PPE violation
- Co-occurring hazard

Why this matters

AI is the primary safety actor — never the bottleneck. Supervisor is the override layer.

Spotlight cut · live camera feed of intervention

Spotlight cut · live camera feed of intervention

trainee approaching hot surface, AI message overlay, alert UI

Supervisor Decision

Auto-continue in 14s

MB **Marcus Boyd #417**
Hot Work · Skid 27

APPROVE AI
Approve AI

OVERRIDE
Override AI

ESCALATE
Escalate in-person

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5 Review Intervention

"What did AI do?"

Supervisor pulls up the replay. Sees exactly what AI detected, what the trainee was doing, and what nudge was delivered. Event timeline shows the full sequence.

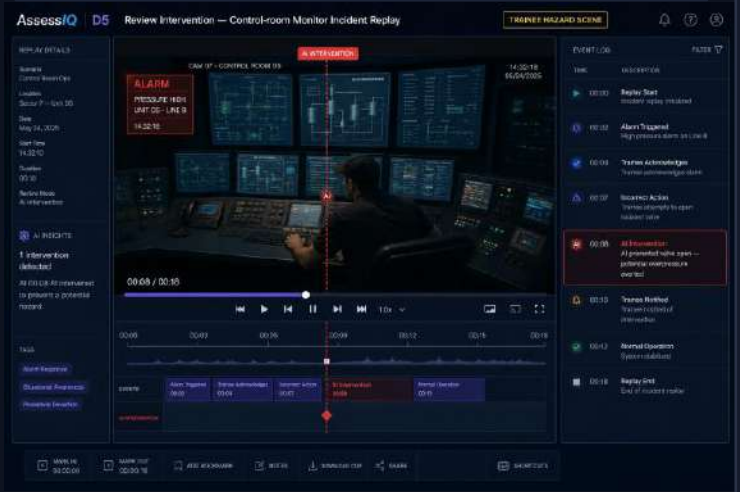
REPLAY INCLUDES

- Camera replay (any cam)
- AI nudge transcript
- Trainee response timing
- Full event timeline

Why this matters

Every AI decision is reviewable. Trust grows from transparency, not from the AI being right every time.

Incident replay · video + timeline



Incident replay · video + timeline

video player + event log + AI transcript

Event Timeline

14:31:58	Identity locked: ID #417
14:32:03	Movement: approaching zone
14:32:06	Predicted violation · 1.2m
14:32:08	AI fired · tablet + earpiece
14:32:08	Spotlight cut · supervisor pinged
14:32:10	Trainee paused · stepped back
14:32:14	Heat-resistant gloves applied
14:32:22	Procedure resumed · step 8

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DP David Park
Supervisor · on duty

6 Approve / Override

"Do I agree?"

Supervisor decides: Approve AI (confirm intervention), Override AI (cancel nudge with justification), or Escalate (go in person). Decision is logged immutably.

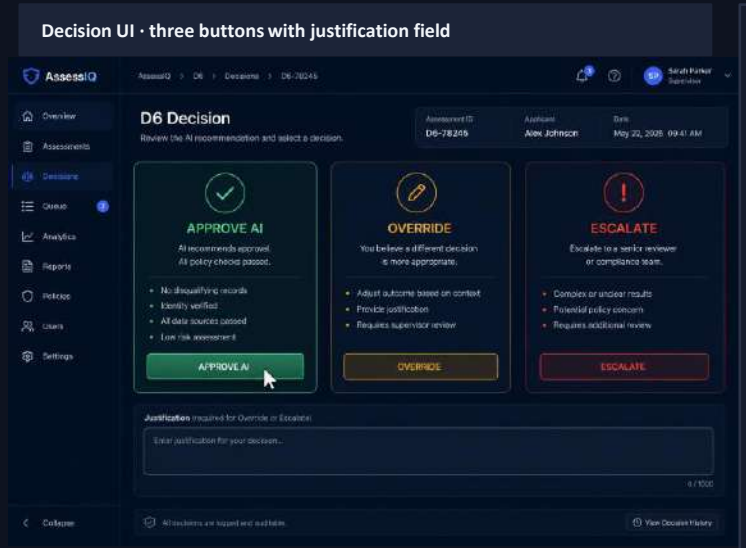
THREE OPTIONS

- Approve (most common)
- Override (with reason)
- Escalate in-person
- Audit log entry

Why this matters

Human stays accountable. Every override is logged with justification and supervisor identity.

Decision UI · three buttons with justification field



Decision UI · three buttons with justification field

supervisor decision interface, audit trail visible below

Decision Logged

APPROVED AI

By: David Park (Supervisor)

At: 14:32:22 · 14s after fire

Logged in supervisor_overrides table

Audit Chain

- Incident hash: a7f3b...
- Linked to pack: PACK-417
- Signature: ed25519 ✓
- Replicated to vault: ✓

- Dashboard
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DP **David Park**
Supervisor · on duty

7 End of Day

"What gets delivered?"

Cohort ends. 3,247 evidence packs auto-publish to the compliance vault. Cohort report summarizes pass rates, AI interventions, and supervisor overrides.

END-OF-DAY DELIVERABLES

- Evidence packs published
- Cohort report (PDF)
- SOP refinement suggestions
- Vault hash chain extended

Why this matters

The day produces auditable artifacts automatically. Supervisor goes home without homework.

Cohort closing dashboard · stats + vault drop progress

Cohort closing dashboard · stats + vault drop progress

summary metrics, pack count climbing, vault destination

Cohort Summary

500	Trainees
3,247	Attempts
94.2%	Pass rate
23	AI interventions
3	Supervisor overrides
3,247	Evidence packs

JOURNEY 5 OF 5

JOURNEY E

Audit Review

Defensible evidence on demand for any auditor.

Compliance · weeks later

6 steps · the audit phase

↓ *6 screens, one question at a time*

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DP David Park
Supervisor · on duty

1 Audit Request

"Who's asking?"

Audit requests arrive from regulators, internal compliance, customers. Each gets a priority, scope, and due date. Triaged from a unified inbox.

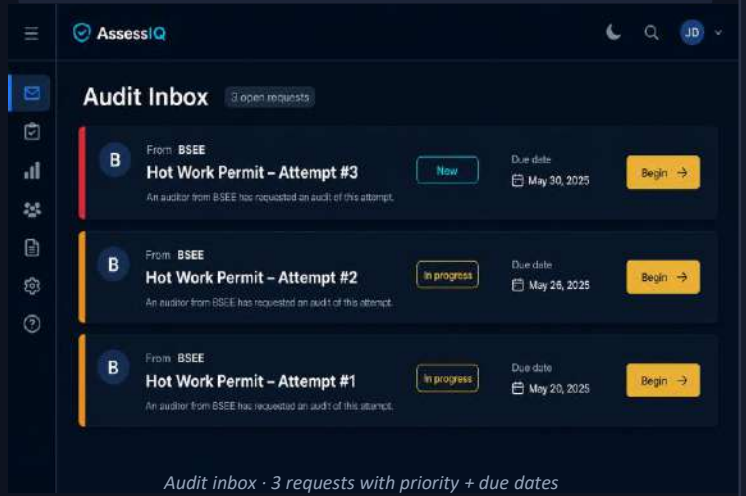
REQUEST SOURCES

- Regulators (BSEE, OSHA)
- Internal compliance
- Customer audits
- Legal discovery

Why this matters

Compliance officers live in their inbox. Assess IQ Vault IS that inbox for evidence-related requests.

Audit inbox · 3 requests with priority + due dates



Audit inbox · 3 requests with priority + due dates

card list, color-coded priority, action buttons

Inbox

3	Open
14	This quarter
100%	On time

Filter

- All
- High priority
- Due this week
- Regulators

← Back

Step 1 of 6 · Journey E · Audit Review

Continue →

- Dashboard
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DP **David Park**
Supervisor · on duty

2 Open Vault

"Where's the evidence?"

Vault dashboard shows the full evidence archive. 1.2M packs across 47 cohorts. Chain integrity continuously verified. Auditors browse, never modify.

VAULT GUARANTEES

- 1.2M evidence packs
- 100% chain integrity
- Read-only access
- Audit log on every read

Why this matters

Auditors trust the vault because the vault never lies. Hash chains are math, not promises.

Vault dashboard · cohort list + chain integrity widget

Vault dashboard · cohort list + chain integrity widget

recent cohorts table, big check icon for integrity

Chain Status

All chains valid

1,200,418 packs verified

47	Cohorts
12.4K	Trainees
100%	Signed

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Continue →

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David Park
Supervisor · on duty

3 Search + Filter

"How do I find it?"

Faceted search across all packs. Filter by trainee, SOP, date, AI intervention, supervisor override, score range, mode. Results in milliseconds.

SEARCH FACETS

- Trainee or ID
- SOP / date range
- AI intervention flag
- Score / outcome

Why this matters

A regulator can ask any question. The vault has every answer indexed.

Faceted search results · filtered to one trainee, 30 days

Faceted search results · filtered to one trainee, 30 days

filter sidebar + results table with AI flags

Active Filters

- Trainee: Boyd, Marcus (#417)
- SOP: Hot Work Permit
- Date range: Last 30 days
- AI intervention: Yes
- Site: Houston Energy

8 results

200ms · sorted by date desc

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DP David Park
Supervisor · on duty

4 Open Pack

"What's in here?"

Click a pack to open the full evidence view. Video clip (face-blurred by default), step-by-step scorecard, supervisor signoff, hash chain visualization.

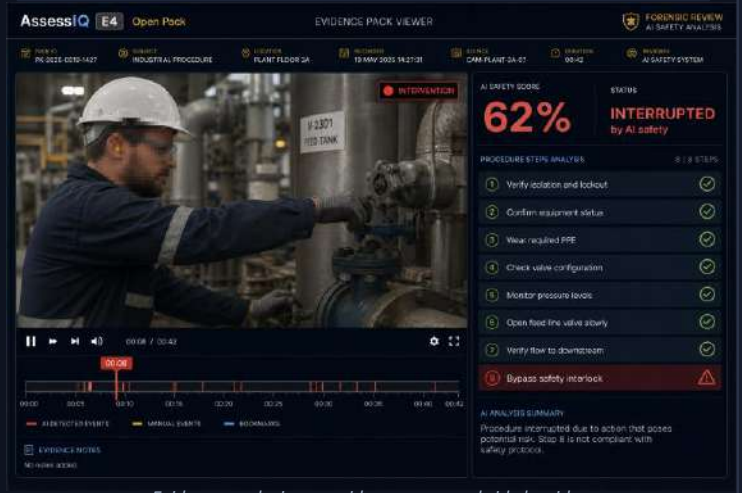
PACK CONTENTS

- Video clip (blurred)
- Per-step scorecard
- Supervisor signoff
- Chain hash linkage

Why this matters

Auditors don't need to read code or call IT. The pack speaks for itself.

Evidence pack viewer · video + scorecard side by side



Evidence pack viewer · video + scorecard side by side

blurred faces by default, intervention timeline visible

Pack Metadata

ID	PACK-HE-20260523-417-HW-014
Trainee	Marcus Boyd #417
SOP	Hot Work Permit
Score	62% · INTERRUPTED
Mode	Practice
AI fired	Yes · safety override
Supervisor	David Park · Approved
Signed	2026-05-23 17:42

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DP David Park
Supervisor · on duty

5 Verify Signature

"Is it valid?"

One click verifies the full hash chain. SHA-256 over canonical manifest. ed25519 signatures. Optional RFC 3161 timestamp. Tamper-evident across millions of packs.

VERIFICATION LAYERS

- SHA-256 over manifest
- ed25519 signature
- RFC 3161 timestamp
- Linked-chain proofs

Why this matters

If the pack is tampered with, the chain breaks. Math is the trust mechanism, not a person's word.

Verification result page · big green check + hash details

Verification result page · big green check + hash details

all crypto proofs displayed, chain depth shown

Verification Detail

Pack hash	a7f3b8d4e5c2...
Algorithm	SHA-256
Signature	ed25519 ✓
Timestamp	RFC 3161 ✓
Previous	PACK-416 ✓
Next	PACK-418 ✓
Chain depth	3,247 packs
Last audit	2 minutes ago

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Step 5 of 6 · Journey E · Audit Review

Continue →

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DP David Park
Supervisor · on duty

6 Export

"Send it where?"

Select packs, choose what to include (video, scorecard, signatures), choose delivery (download zip, secure share link, drop to compliance vault, email). All access logged.

DELIVERY OPTIONS

- Download zip (encrypted)
- Secure share link
- Drop to customer vault
- Regulator portal

Why this matters

Compliance is friction-free. Auditors get what they need; the vault keeps the receipts.

Export configurator · include/exclude + delivery target

Export configurator · include/exclude + delivery target

checkboxes for contents, radio for delivery, generate button

Selected Export

8 packs

Marcus Boyd #417 · Hot Work · 30 days

INCLUDES

- Scorecards
- Video (blurred)
- Supervisor signoff
- Hash proofs

Generate export →

← Back

Step 6 of 6 · Journey E · Audit Review

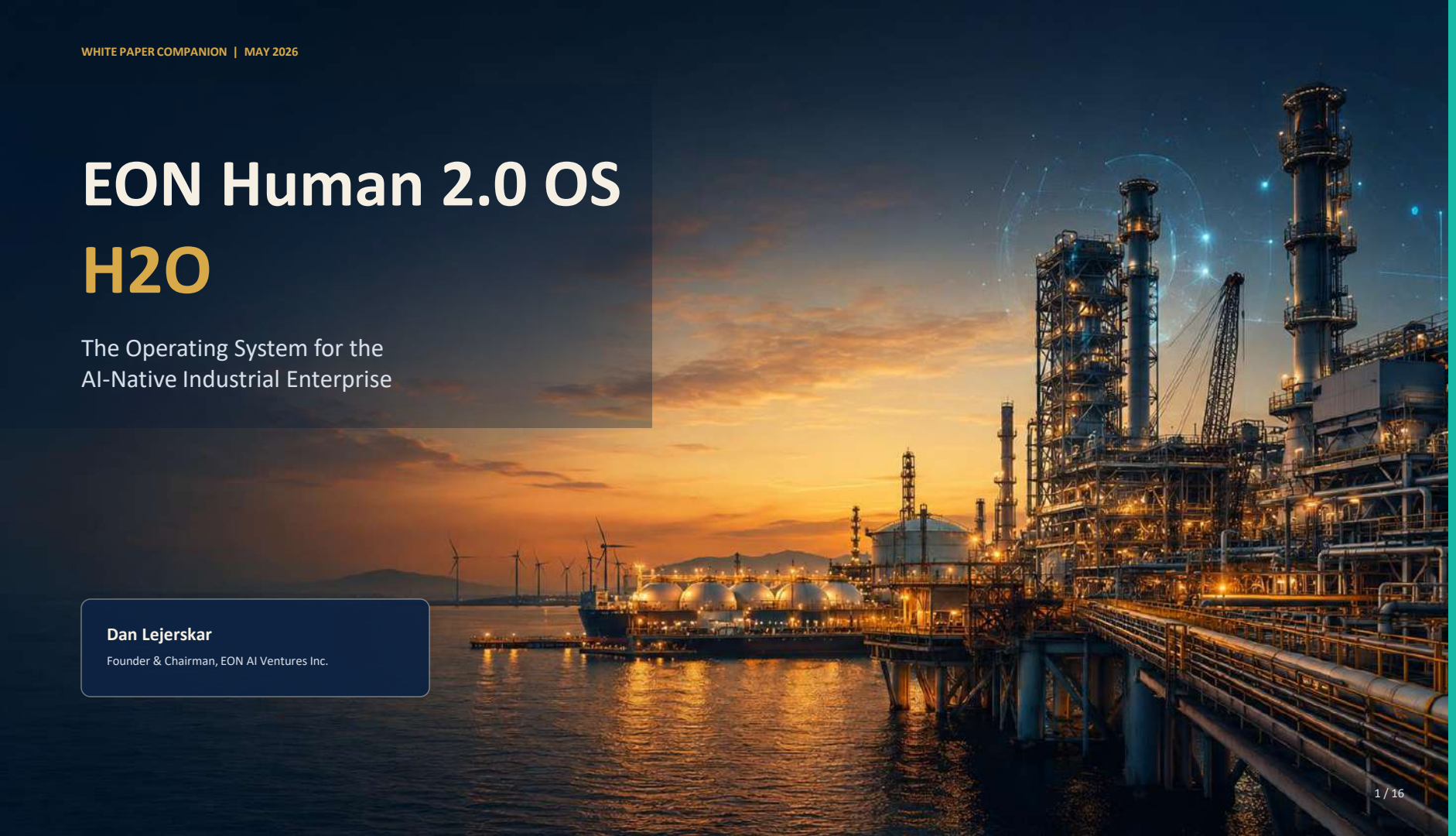
Continue →

Human 2.0

EON Human 2.0 OS

H2O

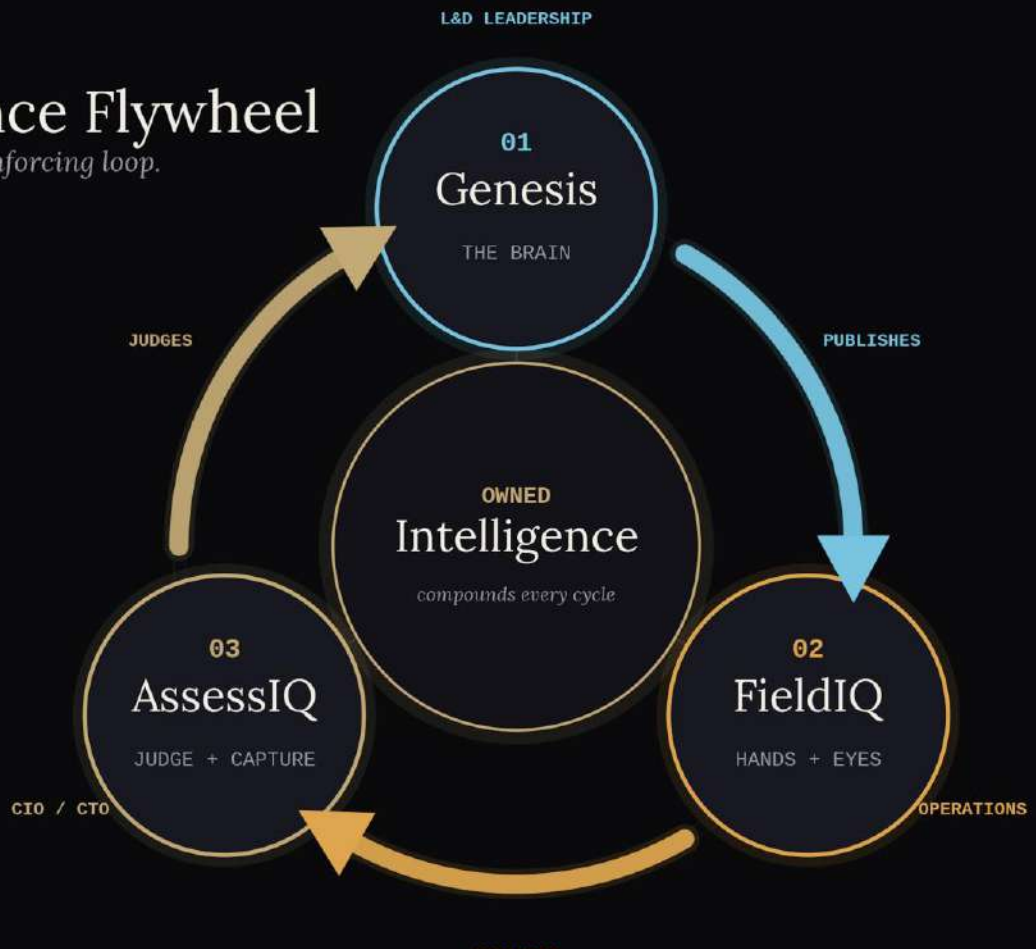
The Operating System for the
AI-Native Industrial Enterprise



Dan Lejerskar
Founder & Chairman, EON AI Ventures Inc.

The Intelligence Flywheel

Three products. One self-reinforcing loop.



EVERY TURN TURNS HUMAN WORK INTO OWNED INTELLIGENCE

Can they disrupt your refinery?

Two engineers with a frontier model can disrupt your marketing department in 90 days.

- They can disrupt marketing, customer support, finance, software, and consulting.
- They cannot, today, disrupt the operations of a refinery, mine, offshore platform, aircraft factory, or pharmaceutical line.
- Atoms are different from bits, and the AI-native operating literature has not been written for industrial enterprises.

The window for industrial enterprises to define their own AI-native operating model is open now.

The Conversation We Are Joining

EON is participating in the defining AI conversation, not opposing it.

Salim Ismail	Organizational singularity and the firm reframed for the agentic era
Marc Andreessen	The techno-optimist case for AI across the productive economy
Eric Schmidt	Age of AI implications across strategy, geopolitics, and industry
Dario Amodei / Anthropic	Research on economic structure, safety, and machine capability
McKinsey & Company	Quantification of vertical impact and GDP-scale upside
Coase / Christensen	The theories of the firm that this shift begins to dismantle

The Half They Don't Address

Roughly half of global GDP runs on atoms.

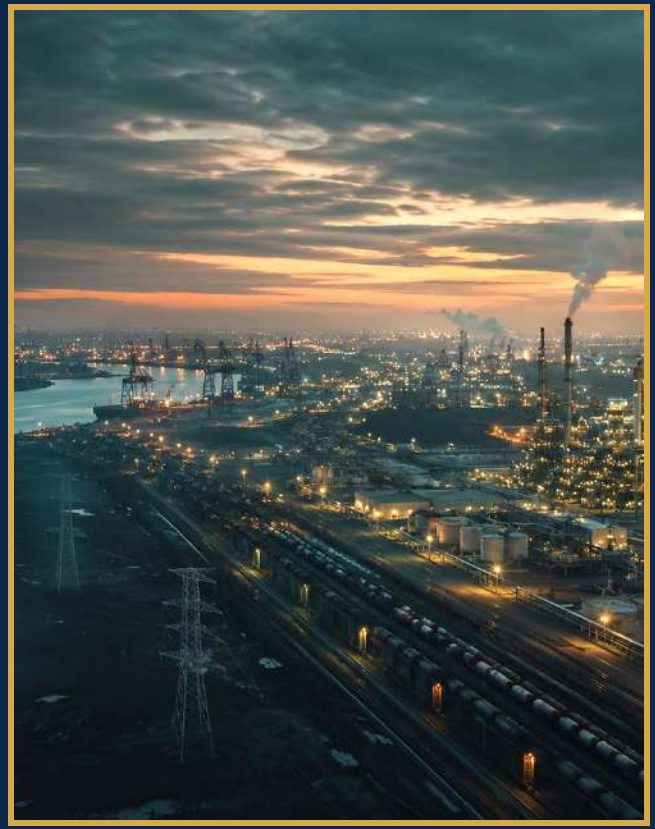
SECTORS

Energy, mining, oil and gas, aerospace, automotive, marine, defense, pharma manufacturing, utilities, transport, and advanced manufacturing.

In these sectors, intelligence has to reach into the physical world to be valuable.

An LLM that writes a beautiful incident report does not stop the incident. An agent that negotiates with another agent does not replace the human standing in front of a high-pressure valve at three in the morning.

Two engineers with a frontier model cannot replicate offshore drilling competency across twelve jurisdictions, cannot get ATEX certification, and cannot capture the tacit knowledge in a senior operator's hands.



Why Atoms Are Different

Four structural realities no software-only AI architecture can hand-wave away.

01 TACIT KNOWLEDGE

Senior operators carry pattern recognition no LLM has seen. Genesis 3 is built to capture it.

02 REGULATION

ATEX, API, OSHA, ISO, GMP. The Integrity Suite carries the operating frame end to end.

03 EXECUTION LATENCY

Refineries do not update like software. Field IQ is the bridge between bits and atoms.

04 ACCOUNTABILITY

Operator, contractor, regulator, and insurer all matter. Passporting keeps ownership and escalation clear.

Introducing EON Human 2.0 OS

GOVERN & ASSURE | THE INTEGRITY WRAPPER

L0	Purpose Protocol | Mission encoded as enforceable rules
L1	Sensing | Continuous wide-sweep agents read the world
L2	Interpretation | Signal versus noise, threat versus opportunity
L3	Decision | Options scored against the Purpose Protocol
L4	Orchestration | Action delivered to humans, agents, glasses, and sims
L5	Learning Loop | Every cycle improves the next

THE SUBSTRATE | Genesis 3 | Field IQ | Assess IQ | Distribution Channels

Seven Components | Part 1

L0 PURPOSE PROTOCOL [2026]

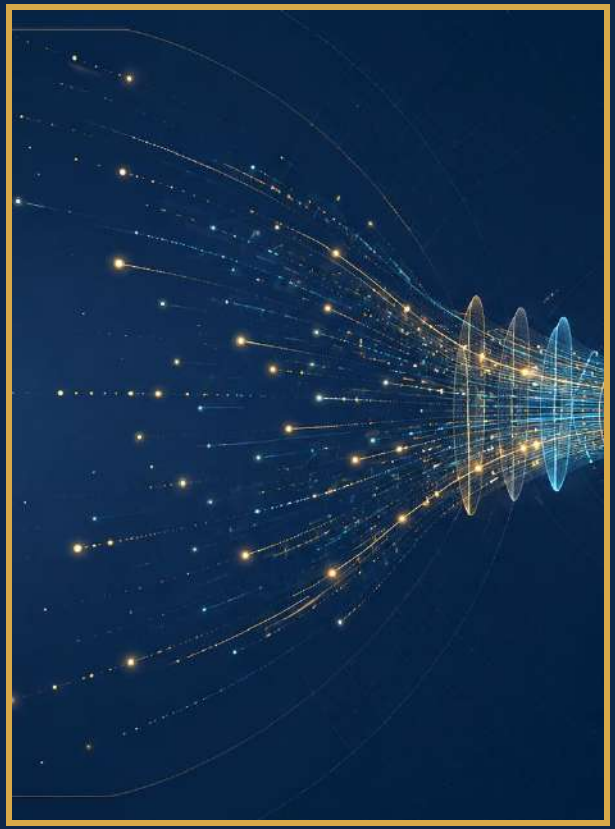
Mission, safety culture, ethics, and regulatory commitments encoded as enforceable rules. H2O ships purpose as code through the **Integrity Suite**.

L1 SENSING [LIVE]

Continuous agents read the operational environment, market signals, regulatory updates, and internal data. Delivered through **RADAR** and **Assess IQ** Multi-Camera.

L2 INTERPRETATION [LIVE]

Separates noise from signal and identifies drift, individual variance, or system-level issues. Delivered through Bullseyes and **Assess IQ** Analytics.



Seven Components | Part 2

L3 DECISION [LIVE]

Given the interpretation, choose what to do. Options are scored against the **Purpose Protocol** and produce a concrete action with owner and deadline.

L4 ORCHESTRATION [LIVE | STRONGEST]

Where **intelligence becomes physical action** across humans, agents, glasses, sims, and workflows. EON's deepest moat is twenty-five years of substrate.

L5 LEARNING LOOP [2026]

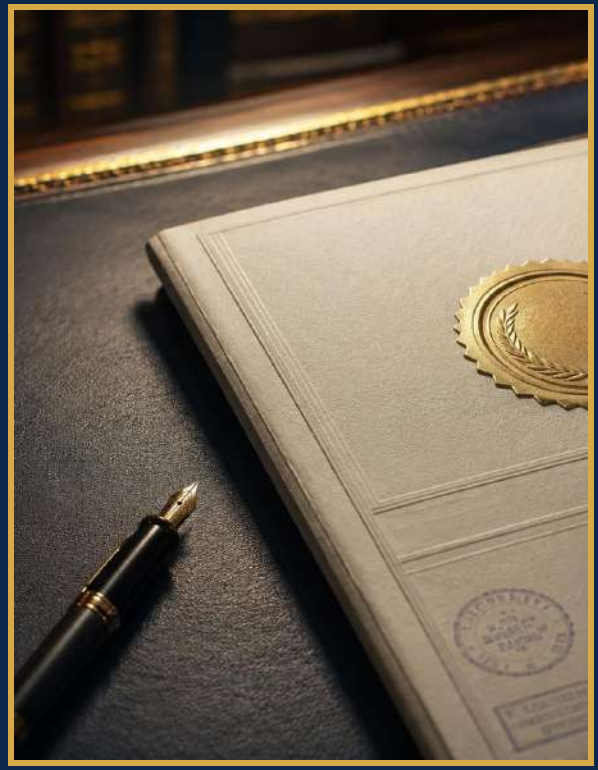
Every cycle improves the next and compounds operational intelligence across the customer base over time through **EON Compound IQ.**

The Govern & Assure Moat

Every agent carries a passport mapped to the customer's regulatory frame.

AGENT CLASS	Field guidance, persona AI, read-and-advise
REGULATORY FRAME	API Q2, ATEX Zone 1, OSHA, country codes
AUTHORIZED ACTIONS	Procedure narration, anomaly callout, senior routing
FORBIDDEN ACTIONS	Procedure modification, lockout override
REVIEW THRESHOLD	Anything outside the library routes to the senior queue inside 30 seconds
AUDIT RETENTION	Seven years, immutable, insurer-reporting format
ROLLBACK	Full advisory rollback with state preserved at every step

AGENT PASSPORT IN PRACTICE | Brainy-on-the-Shoulder for upstream valve maintenance



How EON Runs on H2O

The new stack runs on H2O while the legacy continues unchanged.

254

AI lead-gen agents (RADAR)

93K

Leads identified; 22K scored and ready

28 -> 180+

Qualified meetings per week trajectory

1 : 20

Manager-to-IC ratio after layer collapse

OPERATING MODE

VibeFlow 3.0 uses Claude CoWork as the strategic brain, Claude Code as the executor, and GitHub, Vercel, and Supabase as the infrastructure. The operating mode is the product.

An Industrial Customer in Action

Illustrative composite of a tier-one upstream operator. Pilot domain: valve maintenance integrity.

~12,000
field workers

~5,000
sites

30+
countries

REGULATORY FRAMES

API Q1/Q2, ATEX, IECEx, OSHA, IADC, and ISO 9001.

- By day 90, six **Genesis 3** scenarios are captured from senior veterans as permanent IP assets.
- Brainy-on-the-Shoulder is live on ATEX-certified **Field IQ glasses at 50 sites.**
- Step-7 skip rate is directly measurable and **Assess IQ** telemetry is trending down.
- Time to qualified competency for new operators is materially reduced.
- The agent passport is mapped to API Q2, ATEX, and OSHA with Chief Risk Officer sign-off.

The 90-Day H2O Engagement

$250K - $1M

Productized, C-suite sponsored, and priced as capital

D 1-7	**Score** 7-dimension readiness diagnostic and board-ready scorecard.
D 8-21	**Backcast** Workshop the AI-native 2031 state with the C-suite and set the roadmap.
D 22-35	**Map workflows** Genesis 3 begins capturing tacit operational knowledge.
D 36-50	**Cut org drag** Strip approvals from the pilot workflow before any AI is deployed.
D 51-70	**Build the twin** Genesis, Field IQ, Brainy, and Assess IQ deployed at pilot scale.
D 71-85	**Govern & assure** Passports, logs, and rollback rules are signed by the Chief Risk Officer.
D 86-90	**Hand off** The next four workflows are scoped and the recurring contract begins.

Twenty-Five Years of Substrate

H2O is built on a quarter century of immersive learning, industrial simulation, and field execution infrastructure.

4,400+
institutional customers

80+
countries with active deployments

136M+
platform downloads

25
years of substrate

SECTORS

Energy production and transmission, upstream and downstream oil and gas, petrochemicals, mining, aerospace, automotive, defense, pharma manufacturing, utilities, and national skilling programs.

The Window

18 to 36 months.

WHY NOW

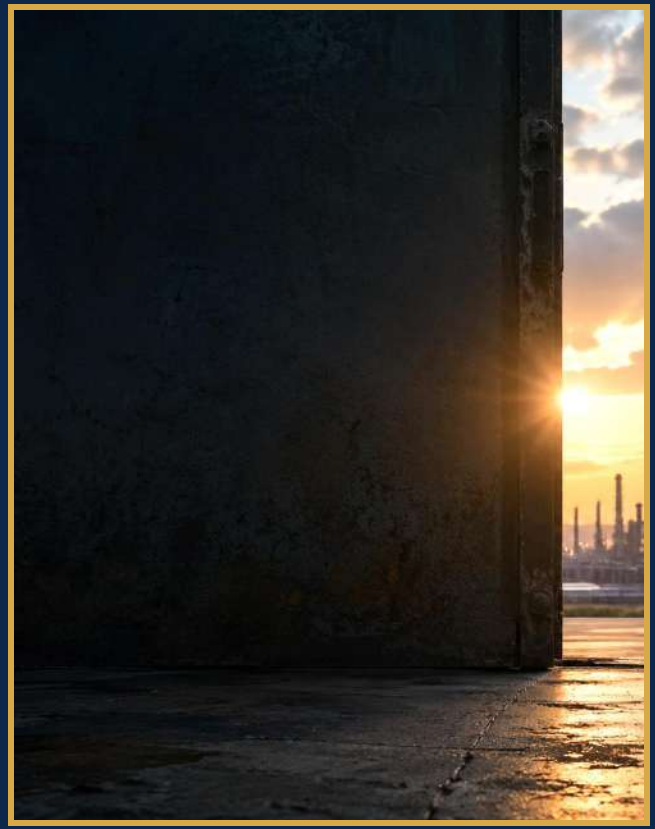
The transition to AI-native operating models will run five to seven years, but the first eighteen months will define the standards peers must follow.

COST CURVE

The legacy operating model is no longer cheap. Coordination cost has barely moved while AI-native cost has fallen 10x every eighteen months.

ENTRY PRESSURE Vertical AI-native entrants are now being funded for regulated physical industries.

REGULATION Over the next 36 months, guidance will be shaped around the operating models of first movers.



H2O Cohort 1

Ten anchor industrial enterprises. 2026.

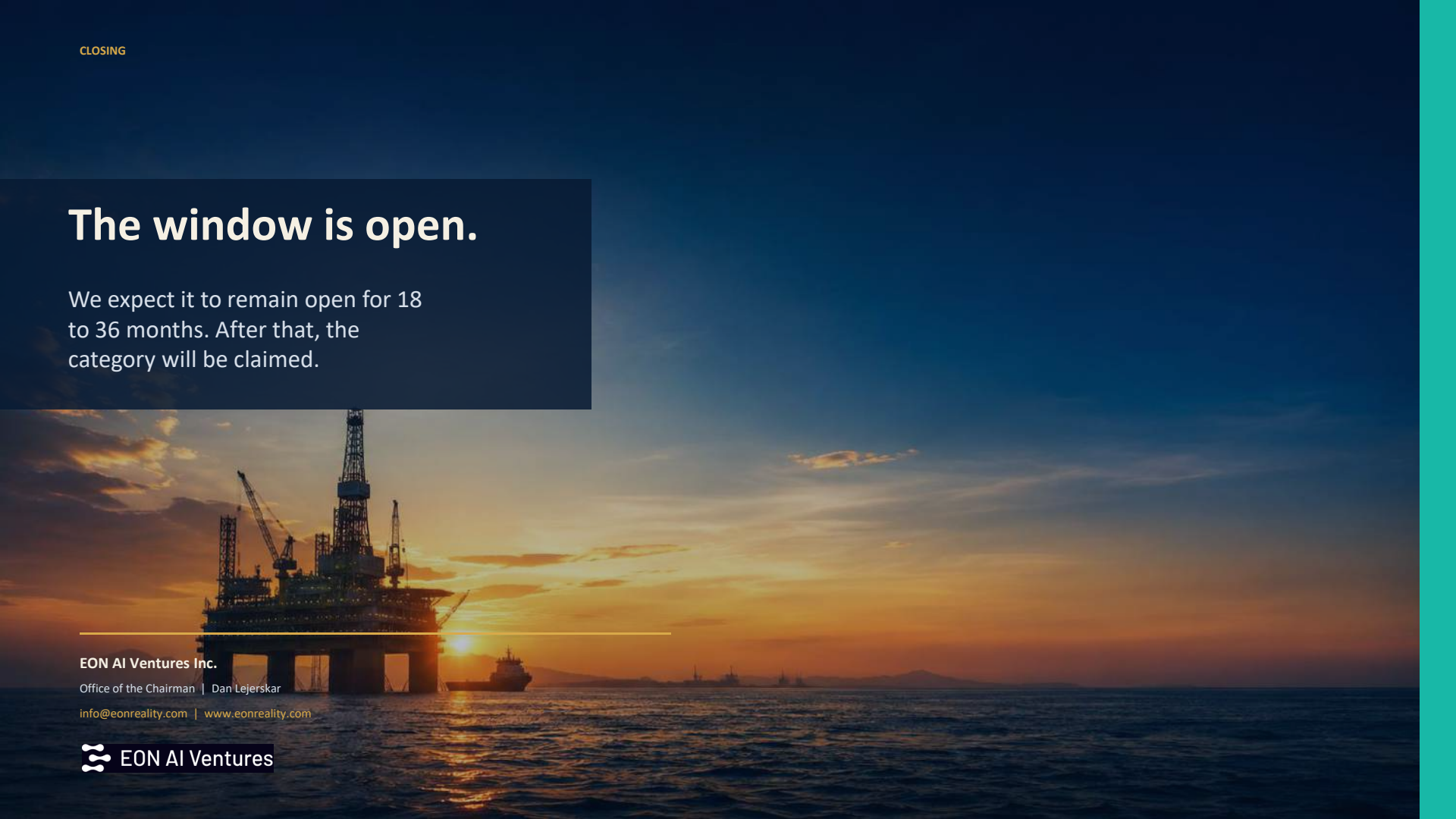
- Direct executive sponsorship from EON leadership.
- Preferred pricing for the 90-day H2O engagement.
- Early access to Purpose Protocol, EON Compound IQ, and Integrity Suite as they ship in 2026.
- H2O Reference Network membership and cross-firm agent coordination working group access.
- Co-authorship rights on the case study deliverable produced at the end of the engagement.

SCARCITY

Sized to ten. Expected to be fully subscribed by Q3 2026. Cohort 2 opens in early 2027 at a different price point and without several Cohort 1 inclusions.

The window is open.

We expect it to remain open for 18 to 36 months. After that, the category will be claimed.



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