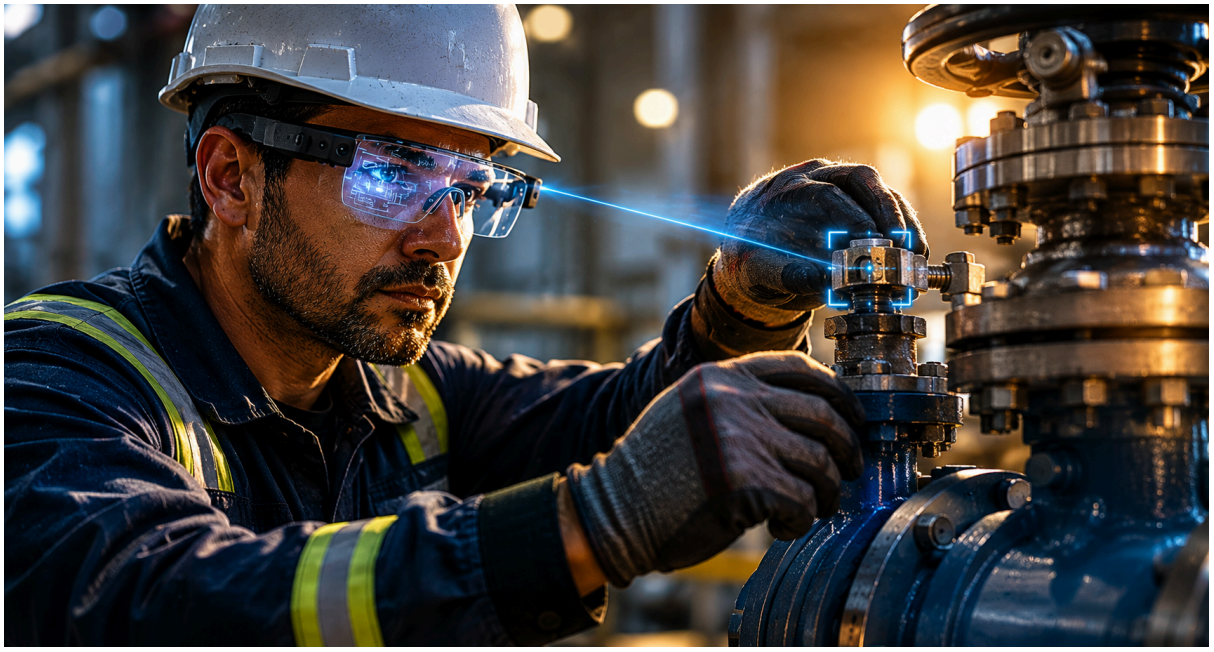
EON AI Ventures

EON AI Ventures Launches Field IQ: The First End-to-End AI Copilot Built for Industrial Field Work

Field IQ: Revolutionizing Industrial Safety with Real-Time AI-Guided Procedures and Error Prevention



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Executive Summary

EON AI Ventures has officially launched **Field IQ**, the industry's first end-to-end AI copilot designed specifically for **industrial field work**. Powered by the groundbreaking **Genesis** platform, **Field IQ** revolutionizes how industrial operators execute safety-critical tasks by delivering real-time guided procedures, error prevention, and compliance-ready audit logs. This solution seamlessly integrates with **Meta Ray-Ban Display** smart glasses, paired mobile apps, and a supervisor console to connect technicians, supervisors, and IT administrators in a unified, **AI-driven workflow**.

Industrial operations have long relied on traditional classroom training and static digital tools, leaving workers to manage billion-dollar equipment from memory. With nearly **50% of expert technicians retiring in the next 5-7 years**, the gap between knowledge retention and workforce readiness is widening at an alarming pace. **Field IQ** addresses this challenge by transforming standard operating procedures (SOPs) into **real-time AI-watched walkthroughs**, ensuring workers perform tasks with precision and confidence. From **lockout-tagout** to **pump inspection**, and from **valve calibration** to **manifold operations**, **Field IQ** redefines workforce capability in high-stakes environments.

The core of **Field IQ** lies in its ability to deliver expert guidance directly to workers through an intuitive, multi-sensory interface. With **vision-aware** capabilities, the system recognizes equipment like **valve V-204 on skid SKD-104** or **breaker BR-04**, proposing the correct procedure in seconds without requiring barcodes or manual input. Its **voice-driven** guidance lets workers ask "what's next" and receive step-by-step instructions through a heads-up display (HUD) with hands-free operation. This ensures workers remain fully engaged with their tools and tasks. In moments of potential error, **pre-contact intervention** activates within **200 milliseconds**, delivering urgent alerts through three channels: a visual **"STOP" card**, a voice cue, and a sharp pulse via the **Neural Band**.

Beyond error prevention, **Field IQ** excels in procedural verification. Each completed step is **auto-verified**, with the AI capturing photographic proof, timestamped audit logs, and advancing tasks silently when confidence is high. Supervisors benefit from **supervisor-visible** capabilities, allowing them to monitor live sessions, track worker performance metrics, and receive alerts for safety risks in real time. Furthermore, the system is fully **compliance-ready**, generating regulator-formatted audit packs with flagged edge cases for model refinement.

Built on the **Genesis** platform, **Field IQ** offers unmatched scalability and intelligence. Genesis leverages **3D-scanned libraries**, **SOP imports**, **master-technician interviews**, and **historical training data** to create refined procedures through **natural-language conversations** with experts. These procedures are synchronized across all devices in the fleet, ensuring consistency and adaptability. Every session feeds back into Genesis, continuously improving the dataset and enabling targeted training for future operations.

The product is structured around four key user journeys, integrating IT administrators, master technicians, field workers, and process-safety supervisors into a single connected workflow. Tasks range from **system setup** and **training setup** to **field use** and **monitoring**, enabling seamless collaboration across roles. This interconnected approach ensures that all stakeholders work from the same procedure object, updated in real time.

Currently available in **enterprise preview** with partners in the **energy**, **refining**, and **process-chemicals sectors**, **Field IQ** is poised to transform industrial safety and efficiency. With its cutting-edge technology and measurable outcomes, such as reduced **time-to-competency**, enhanced **knowledge retention**, and improved **safety compliance**, **Field IQ** is the definitive solution for organizations seeking to bridge the gap between AI capability and workforce readiness.

To explore **Field IQ** in action, visit the live product walkthrough at https://field-iq-walkthrough.vercel.app/ or contact **Dan Lejerskar** at **dan@eonreality.com** for guided product sessions.

The Problem/Challenge

Industrial operations face a critical challenge: the rising frequency of incidents caused not by complex system failures, but by routine procedural deviations. Tasks such as **lockout-tagout**, **valve calibration**, or **hot-tap prep** often suffer from missed steps, incorrect component handling, or skipped verifications, especially under time pressure. These deviations result in costly downtime, operational inefficiencies, and significant safety risks. Despite the deployment of digital tools like tablets to provide procedural instructions, these solutions lack the **real-time situational awareness**, **procedural validation**, and **error prevention** necessary to address the unique demands of industrial field work.

The limitations of traditional tools are evident in their inability to adapt dynamically to the worker’s environment. Conventional systems rely on static instructions, leaving workers to interpret and execute tasks without real-time feedback or corrective measures. For example, while a tablet might display a checklist for **pump inspection**, it cannot detect whether the worker is handling the correct valve or performing the task as intended. This disconnect between instruction delivery and task execution is a key contributor to industrial incidents.

Additionally, the growing skills gap poses an urgent challenge. With nearly **50% of expert technicians retiring within 5-7 years**, organizations face a significant loss of institutional knowledge. Traditional training methods, which rely on classroom-based learning and on-the-job mentoring, are insufficient to bridge this gap. Workers trained in static environments often struggle to apply their knowledge in dynamic, high-stakes operational settings. The acceleration of **AI capability** further highlights the inadequacy of traditional training methods, which cannot keep pace with the demands of modern industrial operations.

Another critical issue is the lack of real-time oversight and intervention. Supervisors often operate blind, relying on post-task reports to assess worker performance. By the time deviations are identified, the damage is already done. For tasks involving billion-dollar equipment, this reactive approach is not sustainable. Real-time visibility into worker actions, combined with proactive error prevention, is essential to mitigate risks and ensure operational excellence.

Field IQ directly addresses these challenges by integrating AI-powered capabilities into every step of the operational workflow. Unlike traditional tools, **Field IQ** is **vision-aware**, recognizing equipment and proposing the correct procedure in seconds without requiring manual input. Its **voice-driven** interface ensures workers receive step-by-step guidance while keeping their hands free for task execution. The system's **pre-contact intervention** activates within **200 milliseconds**, preventing errors before they occur through multi-channel alerts.

For supervisors, **Field IQ** offers unparalleled visibility into live operations. The **supervisor-visible** console streams real-time safety and correctness scores, enabling immediate intervention when risks are detected. This proactive approach transforms supervisor oversight from a reactive to a preventive role, significantly reducing the likelihood of incidents.

Furthermore, **Field IQ** ensures compliance by generating **regulator-formatted audit packs** for every session. The system flags edge cases for model refinement, creating a compounding dataset that improves over time. Built on the **Genesis** platform, **Field IQ** leverages **3D-scanned libraries**, **SOP imports**, and **master-technician interviews** to create dynamic procedures that adapt to evolving operational needs.

In summary, industrial operators face a critical need for real-time guidance, error prevention, and workforce readiness in the face of increasing skills gaps and operational complexity. **Field IQ** addresses these challenges head-on, offering a comprehensive AI-powered solution that enhances safety, efficiency, and compliance across every level of industrial operations.

THE SOLUTION

Field IQ is a transformative solution purpose-built to address the unique challenges of industrial field work. With industrial operations increasingly relying on precision, safety, and real-time adaptability, **Field IQ** bridges the gap between procedural knowledge and high-stakes execution. By integrating **vision-aware AI**, **voice-driven guidance**, **pre-contact intervention**, and **compliance-ready auto-verification**, Field IQ delivers a connected, end-to-end experience for industrial operators, supervisors, master technicians, and IT administrators alike.

Designed to redefine workforce capability in high-stakes environments, Field IQ leverages cutting-edge technologies such as **Meta Ray-Ban Display** smart glasses, the **Genesis** authoring platform, and the **Neural Band** wearable device to deliver real-time insights and

guidance. By connecting all stakeholders through a single procedural surface, the solution ensures that expert knowledge and operational oversight converge seamlessly, allowing industrial teams to execute tasks with unparalleled precision.

Tackling Common Challenges

Industrial incidents often arise from human errors, particularly deviations from routine procedures under time pressure. Traditional training methods, which rely heavily on classroom instruction and memory recall, fail to provide the situational awareness and real-time support needed in the field. Conventional digital work-instruction tools, such as tablets, do not offer the ability to visually recognize equipment, monitor worker actions, or intervene in critical moments. Field IQ addresses these limitations through its **vision-aware**, **voice-driven**, and **pre-contact intervention** features.

For example, when a worker approaches a valve or breaker, Field IQ's AI instantly recognizes the equipment and proposes the relevant procedure without requiring manual input. This eliminates guesswork, reduces operational delays, and ensures adherence to safety protocols. Additionally, the system's **voice-driven guidance** allows workers to access step-by-step instructions hands-free, ensuring their focus remains on the task at hand. The AI also intervenes within **200 milliseconds** if a worker reaches for the wrong target, preventing errors before they escalate into incidents.

A Connected Experience for All Stakeholders

Field IQ's integration of smart glasses, supervisory consoles, and authoring platforms creates a unified ecosystem. For workers in the field, the **Meta Ray-Ban Display** provides real-time guidance through a heads-up display (HUD), while the **Neural Band** delivers tactile alerts during pre-contact interventions. Supervisors benefit from the **Monitor** console, which offers live visibility into active sessions, worker performance metrics, and risk alerts. Meanwhile, master technicians and IT administrators use the **Genesis** platform to author, refine, and deploy procedures across the workforce.

What sets Field IQ apart is its ability to synchronize updates across all devices in real time. When a master technician modifies a step in the procedure via **natural-language conversation**, the change propagates instantly to every paired device in the fleet. This ensures that all stakeholders – from the worker in the field to the supervisor overseeing operations – operate from the same procedural framework, fostering consistency and collaboration.

Continuous Improvement Through Feedback

Field IQ is not just a static tool; it evolves with every session. Each interaction feeds back into the **Genesis** platform, creating a dataset that compounds over time. Edge cases flagged

by the AI during field use inform future procedural refinements, while patterns of worker hesitation guide targeted training initiatives. This continuous feedback loop ensures that the solution becomes smarter and more effective with every shift, creating a sustainable competitive advantage for industrial operators.

By closing the gap between training and execution, **Field IQ** redefines what it means to be workforce-ready in the AI era. It empowers industrial teams to move beyond traditional methods and embrace a real-time, connected approach to operational excellence.

KEY FEATURES/CAPABILITIES

Field IQ combines advanced AI capabilities with user-friendly interfaces to deliver a comprehensive solution for industrial field work. Below are its key features and capabilities:

Vision-Aware Task Recognition

The **vision-aware** functionality is central to Field IQ's ability to provide real-time procedural guidance. The **Meta Ray-Ban Display** smart glasses use integrated cameras and on-device AI to instantly recognize equipment such as valves, breakers, and pumps. For instance, when a worker approaches **valve V-204** on **skid SKD-104**, the system identifies the equipment and surfaces the relevant procedure without requiring barcode scans or manual input. This feature eliminates delays and reduces cognitive load, enabling workers to focus entirely on execution.

Voice-Driven Procedural Guidance

Field IQ's **voice-driven** interface ensures that workers receive step-by-step instructions without needing to divert their attention from the task. Workers can simply ask "What's next?" and receive auditory cues alongside visual references projected on the HUD. This hands-free approach not only boosts efficiency but also enhances safety, particularly in environments where both hands are required to operate complex machinery.

Pre-Contact Intervention

One of Field IQ's most critical features is **pre-contact intervention**, which prevents errors before they occur. If the AI detects that a worker is reaching for the wrong component, it activates three simultaneous alerts within **200 milliseconds**: a red "STOP" card on the HUD, an auditory warning in the worker's ear, and a tactile pulse through the **Neural Band**. This rapid intervention protects workers from costly mistakes and ensures compliance with safety protocols.

Auto-Verified Procedures

Field IQ automates the verification process through its **auto-verified** feature. After each procedural step, the system captures photographic proof of the after-state, writes a timestamped audit-log entry, and advances to the next step. If confidence is high, the AI progresses silently; if not, it prompts the worker for additional confirmation. This feature not only streamlines workflows but also generates a robust audit trail for regulatory compliance.

Real-Time Supervisory Oversight

The **Monitor** console provides supervisors with live visibility into every active session across all sites. Supervisors can view per-worker confidence scores, identify hesitation signals, and receive hard alerts when risks are detected. Additionally, the AI generates narrated session replays and tracks individual competency metrics, enabling supervisors to make informed decisions and allocate resources effectively.

Compliance-Ready Reporting

Field IQ simplifies regulatory compliance by generating **regulator-formatted audit packs** for every session. Edge cases flagged during operations are archived for future model training, ensuring that compliance standards are met while continuously improving procedural accuracy.

Continuous Updates via Genesis

The **Genesis** platform serves as the backbone of Field IQ, enabling synchronized updates across all devices. Procedures authored or refined by master technicians are instantly propagated to the entire fleet, ensuring consistency across operations. Genesis also ingests 3D scans, SOPs, and historical training data to create comprehensive procedural drafts, which evolve through feedback from real-world sessions. This continuous improvement cycle ensures that Field IQ remains adaptive and effective over time.

Field IQ combines these features into a unified solution that transforms industrial field work. By empowering workers with real-time guidance, enabling supervisors to oversee operations with precision, and leveraging AI to continuously refine procedures, Field IQ sets a new standard for workforce capability in high-stakes environments.

HOW IT WORKS

Field IQ, powered by the **Genesis** platform, introduces a groundbreaking approach to industrial field work by seamlessly integrating four distinct user journeys: **System Setup**, **Training Setup**, **Field Use**, and **Monitor**. These journeys are designed to ensure that every stakeholder in an industrial operation—from IT administrators to field workers and supervisors—operates from a unified, AI-enhanced procedural framework.

System Setup: Simplified Configuration for IT Administrators

The **System Setup** process is designed to enable IT administrators to prepare devices quickly and efficiently. In just **7 steps**, administrators can configure the system, ensuring a smooth rollout to field teams:

1. Install the **Field IQ** application on an **iPhone** or ruggedized, intrinsically-safe tablet.
2. Activate **single sign-on** (SSO) with the customer's identity provider for secure access.
3. Pair hardware, including **Meta Ray-Ban Display** smart glasses and the **Neural Band** wristband, to the system.
4. Connect the workspace to the **Genesis** platform, enabling seamless integration of procedures.
5. Synchronize content offline to ensure uninterrupted operation in remote or connectivity-limited environments.
6. Conduct a system self-test to verify functionality across all devices.
7. Hand off the configured devices to field teams.

This streamlined process takes approximately **five minutes per device**, ensuring minimal downtime for deployment and immediate readiness for field use.

Training Setup: Authoring Procedures with AI Assistance

The **Training Setup** journey empowers **master technicians** to transform their expertise into dynamic, AI-driven procedures. This **9-step** process leverages the capabilities of the **Genesis** platform to capture and structure operational knowledge:

1. Select equipment from a **3D-scanned library**, ensuring procedures are tied to specific assets.
2. Import **standard operating procedures (SOPs)** for foundational guidance.
3. Conduct **master-technician interviews** to capture nuanced, expert knowledge.
4. Use **AI-assisted procedure structuring** to draft step-by-step workflows.

5. Map components to procedural steps, ensuring accuracy and alignment with real-world tasks.

6. Refine procedures through **natural-language conversation** with the master technician, enabling iterative improvements.

7. Assign procedures across multiple sites, tailoring them to specific operational contexts.

8. Publish the finalized procedures to the Field IQ fleet with a single click.

9. Ensure procedures are live and synchronized across all devices, making them instantly available to workers.

This process ensures that every procedure is both comprehensive and adaptable, enabling field teams to benefit from the collective expertise of their organization.

Field Use: Hands-Free Guidance and Error Prevention

For field workers, **Field IQ** serves as a hands-free, AI-powered guide throughout their daily tasks. The **10-step Field Use** workflow ensures precision and safety in every operation:

1. Approach the equipment, allowing the AI to recognize the task via **vision-aware** capabilities.

2. Select between a detailed walkthrough mode or a stand-by mode, depending on the task complexity.

3. Receive **voice-driven** guidance, with each step communicated audibly and supported by visual references on the **Meta Ray-Ban Display** HUD.

4. Engage in the task with both hands free, ensuring maximum efficiency and safety.

5. Experience **pre-contact intervention** if the AI detects a deviation, with immediate alerts delivered through visual, auditory, and tactile channels within **200 milliseconds**.

6. Complete each step with photographic proof of the after-state, ensuring accountability and traceability.

7. Advance to the next step only when the AI deems the current step successfully completed.

8. Archive all task data, including timestamps and photographic evidence, for compliance and future reference.

9. Address flagged edge cases or exceptions in real time, ensuring no steps are overlooked.

10. Complete the procedure, with all data automatically logged and synchronized with **Genesis**.

This hands-free, **AI copilot** approach not only minimizes the potential for human error but also enhances worker confidence and productivity.

Monitor: Real-Time Oversight for Supervisors

The **Monitor** journey provides **process-safety supervisors** with comprehensive, real-time visibility into field operations. This **7-step** workflow allows supervisors to oversee procedures and ensure compliance:

1. Access a live console displaying every active session across all sites.
2. View AI-generated safety and correctness scores for each worker.
3. Receive hard alerts in the event of detected risks, enabling immediate intervention.
4. Replay sessions with **AI-narrated session replay**, providing a clear understanding of events.
5. Track individual worker competency over time, identifying areas for targeted training.
6. Export **regulator-formatted audit packs** with a single click, streamlining compliance processes.
7. Archive flagged edge cases for review and future training model improvements.

By combining real-time oversight with robust analytics, supervisors can ensure operational safety and continuously refine procedures.

Unified by Genesis

At the core of these four journeys is the **Genesis** platform. By processing **3D scans**, **SOPs**, **master-technician interviews**, and **historical training data**, Genesis creates AI-driven procedures that evolve with each use. Every **Field IQ** session feeds back into Genesis, enabling continuous improvement. Whether it's addressing flagged edge cases or identifying trends in worker hesitation, Genesis ensures that procedures become smarter and more effective over time.

BENEFITS/OUTCOMES

Field IQ delivers transformative benefits, addressing critical challenges in industrial operations and enabling measurable outcomes across safety, productivity, compliance, and continuous improvement.

Reducing Procedural Errors and Preventing Incidents

Industrial incidents often stem from routine procedural deviations, such as selecting the wrong valve or skipping a critical verification step under time pressure. **Field IQ** tackles these risks head-on with features like **vision-aware** task recognition and **pre-contact**

intervention. By identifying potential errors in real time and intervening within **200 milliseconds**, Field IQ prevents incidents before they occur. This proactive approach enhances safety across high-stakes operations, from **lockout-tagout** to **manifold operations**.

Enhancing Worker Productivity and Confidence

Traditional training methods rely on workers memorizing complex procedures, leaving them vulnerable to errors under pressure. **Field IQ** revolutionizes this dynamic by providing **voice-driven** guidance and visual support through the **Meta Ray-Ban Display** HUD. Workers can ask "what's next" and receive immediate, hands-free instructions, allowing them to focus entirely on the task at hand. This not only increases productivity but also boosts worker confidence, particularly when performing intricate tasks like **valve calibration** or **hot-tap prep**.

Ensuring Situational Awareness and Hands-Free Operation

By combining **vision-aware** and **voice-driven** technologies, Field IQ offers unparalleled situational awareness. Workers can keep both hands on the equipment while the AI handles task recognition, step guidance, and real-time error detection. This hands-free approach ensures operational efficiency without compromising safety.

Improving Compliance and Traceability

Compliance is a cornerstone of industrial operations, and **Field IQ** simplifies this process with **auto-verified** task completion and **regulator-formatted audit packs**. Every step is documented with photographic proof, timestamps, and AI-generated audit logs, ensuring traceability and simplifying regulatory reporting. Supervisors can export compliance-ready documentation with a single click, saving time and reducing administrative burdens.

Continuous Improvement Through Data Feedback

The **Genesis** platform ensures that **Field IQ** becomes smarter with each use. Every session generates training data that feeds back into Genesis, enabling procedural refinements and targeted training. Flagged edge cases, worker hesitation hotspots, and other insights drive continuous improvement, creating a self-reinforcing loop that enhances operations over time.

Measurable Outcomes for Industrial Operators

Field IQ's comprehensive approach delivers measurable outcomes, including:

- Reduced time-to-competency for workers through intuitive training and real-time guidance.

- Improved safety metrics due to early error detection and intervention.
- Enhanced knowledge retention by integrating training with field execution.
- Streamlined compliance processes with audit-ready documentation.

By addressing the full lifecycle of industrial work—**Learn → Train → Perform → Automate**—Field IQ bridges the gap between expert knowledge and workforce readiness, transforming operational capability for the AI era.

Conclusion

Field IQ represents a paradigm shift in industrial field work, seamlessly integrating advanced AI capabilities with real-time operational needs. Designed as an **end-to-end AI copilot**, Field IQ bridges the gap between workforce expertise and execution, delivering precision, safety, and efficiency in high-stakes environments. By leveraging cutting-edge technologies, such as **Meta Ray-Ban Display smart glasses**, **Neural Band wristbands**, and the foundational **Genesis** platform, Field IQ ensures every worker, supervisor, and process is connected, informed, and optimized.

In industries where routine deviations can lead to catastrophic incidents, Field IQ's suite of features addresses critical challenges head-on. Its **vision-aware** capabilities allow the system to instantly recognize equipment and suggest the appropriate procedure without manual input, eliminating inefficiencies and reducing the potential for human error. **Voice-driven** functionality enables workers to receive step-by-step guidance audibly, keeping their hands free and their focus on the task at hand. When errors are imminent, **pre-contact intervention** provides rapid feedback across three channels — visual, auditory, and tactile — within 200 milliseconds, preventing mistakes before they occur.

The **auto-verified** feature ensures that every action taken during a procedure is documented and timestamped, creating a robust audit trail for compliance and future reference. Supervisors benefit from **supervisor-visible** capabilities, enabling them to monitor live sessions, flag risks, and track per-worker competency in real time. The **compliance-ready** audit packs generated by Field IQ simplify regulatory reporting, streamlining operations and reducing administrative burdens.

Field IQ's transformative approach is rooted in its ability to unify four distinct user journeys — IT admins, master technicians, field workers, and process-safety supervisors — into one synchronized procedure. The **System Setup** journey offers IT administrators a straightforward, seven-step process to install, configure, and pair devices with the **Genesis** platform. For master technicians, the **Training Setup** journey provides a structured nine-step path to importing standard operating procedures (SOPs), refining processes through **natural-language conversation**, and publishing procedures fleet-wide. Field workers benefit from **Field Use**, where AI recognition, guided walkthroughs, and archived photographic proof ensure the highest levels of accuracy and safety. Process-safety supervisors complete

the cycle through **Monitor**, which offers live operational oversight, AI-narrated session replays, and one-click compliance exports.

The underlying power of Field IQ lies in **Genesis**, the **spatial-intelligence operating system** that transforms 3D scans, SOPs, master-technician knowledge, and historical training data into AI-authored procedures. Every Field IQ session feeds back into Genesis, continuously improving the system's capabilities. Edge cases flagged during shifts become the foundation for enhanced procedures, while worker hesitation hotspots drive targeted training initiatives for the future. This compounding dataset creates a self-reinforcing cycle of operational improvement, ensuring that Field IQ becomes more effective with every use.

For industrial operators in sectors such as energy, refining, and process chemicals, Field IQ delivers measurable outcomes that redefine workforce capability. By reducing time-to-competency, enhancing knowledge retention, and improving safety, Field IQ directly addresses the challenges posed by an aging workforce and the accelerating pace of AI innovation. Its ability to deliver **100% accuracy in high-stakes operations**, compared to the 80% offered by generic AI solutions, sets it apart as a must-have tool for organizations committed to excellence.

The launch of Field IQ marks a significant milestone in industrial innovation. It is the first solution to align training, execution, oversight, and compliance within a single, AI-connected ecosystem. As Dan Lejerskar, Founder of EON AI Ventures, aptly stated, "The same procedure that trained the worker now walks them through the job, watches the work happen, and feeds every improvement back into the next training cycle."

EON AI Ventures invites industry stakeholders to explore Field IQ's full capabilities through its publicly available **product walkthrough** at https://field-iq-walkthrough.vercel.app. Detailed briefings and guided demonstrations can be scheduled by contacting **dan@eonreality.com**. Field IQ is currently in enterprise preview with select partners, offering a unique opportunity to experience the future of industrial field work firsthand.

Field IQ is not just a product — it is a transformation. By redefining how industrial operations are performed, monitored, and improved, Field IQ establishes itself as the ultimate AI copilot for the modern workforce.