

EON REALITY

# EON Assist IQ & EON Field IQ

AI-Powered Field Operations on Smart Glasses

Step-by-step SOP guidance, AI photo verification, and real-time audit trails—delivered hands-free through Meta Ray-Ban Display glasses.



February 2026

# Agenda



01

## THE WHY

The field operations gap no one has closed



02

## THE WHAT

EON Assist IQ product overview



03

## THE HOW

Technology, architecture, and workflow



04

## USE CASES

10 high-impact applications across industries

## THE WHY

# Field Operations Are Broken

**80%**

of field errors are  
procedural, not technical

**\$1.7M**

average cost of a single  
LOTO compliance violation

**42%**

of industrial workers will  
retire within 10 years

The core issue: field workers have no real-time, hands-free guidance during safety-critical procedures. Paper checklists get lost. Tablets require stopping work. Training doesn't transfer to the field.

## THE WHY

# The Training-to-Execution Gap

### TRAINING

- VR simulations build knowledge
- AI tutors guide practice sessions
- Competency assessments certify readiness
- Workers score well in simulations



**GAP**

### FIELD EXECUTION

- Workers rely on memory under pressure
- Paper SOPs ignored or lost on-site
- No verification that steps were done right
- Incidents happen despite passing training

**EON Assist IQ closes this gap — extending AI guidance from simulation into the real world.**

## THE WHAT

# EON Assist IQ + Field IQ

Your AI co-pilot for field operations, delivered through smart glasses.



### Hands-Free SOP Guidance

Step-by-step instructions displayed on the in-lens HUD. Workers keep both hands on the task.



### AI Photo Verification

Claude Vision AI confirms each step was done correctly before advancing to the next.



### Real-Time Audit Trail

Timestamped photos, GPS data, and AI confirmations — visible to supervisors live on a dashboard.

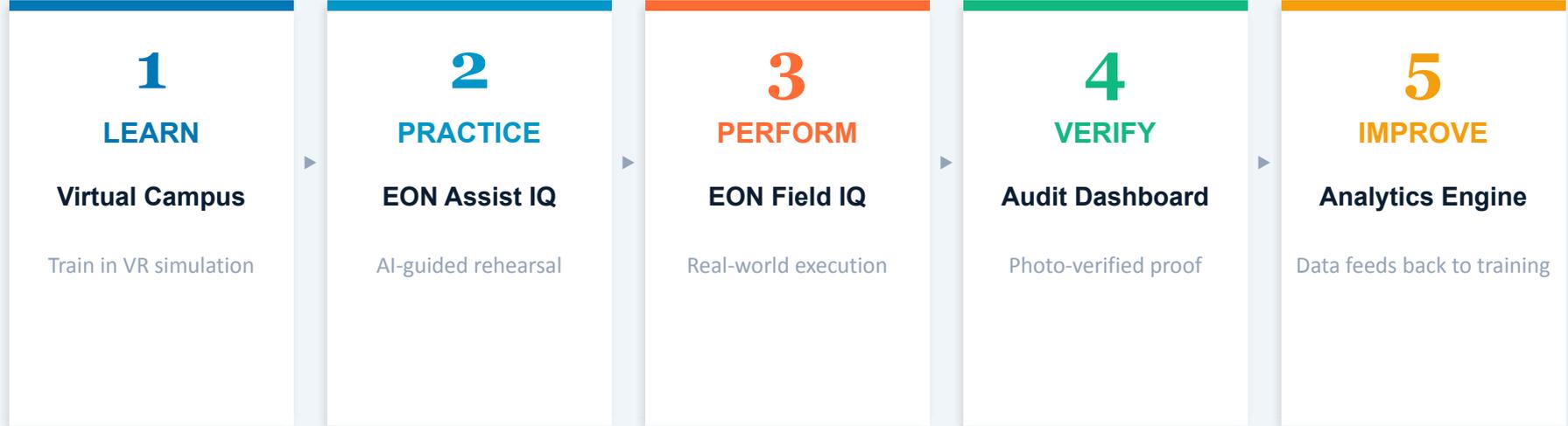


### Equipment Identification

Scan a QR code or use AI vision to identify machinery and auto-load the correct procedure.

## THE WHAT

# The Complete Learning-to-Doing Loop



EON Reality is the only company delivering the full loop — from immersive VR training through to verified real-world execution with an AI-powered glasses co-pilot.

THE HOW

# Three-Layer Architecture



LAYER 1

**Meta Glasses + Neural Band**

- Camera captures photos
- HUD displays instructions
- Voice triggers actions
- Wristband confirms steps



LAYER 2

**EON Field IQ App (PWA)**

- Receives camera photos
- Runs Claude Vision AI
- Manages SOP step engine
- Pushes to WhatsApp/HUD



LAYER 3

**Command Dashboard**

- Live progress view
- Real-time photo feed
- Verification status
- PDF audit report export

## THE HOW

# How It Works in the Field

### 1 IDENTIFY

Scan QR code on equipment. System loads the correct SOP automatically.

### 2 GUIDE

Step-by-step instructions appear on glasses HUD. Worker performs each action hands-free.

### 3 VERIFY

"Hey Meta, take a photo." Claude Vision AI confirms the step was done correctly.

### 4 LOG

Timestamp, photo, GPS, and AI confirmation logged. Supervisor sees it live on dashboard.

### 5 ADVANCE

Verified? Next step loads automatically. Issue? Corrective guidance displayed on HUD.

### 6 REPORT

Procedure complete. Full audit trail with photo proof generated instantly as PDF.

THE HOW

# Meta Ray-Ban Display Capabilities



## 12MP Camera

Hands-free photo capture  
via voice command



## 600x600 HUD

Color in-lens display,  
5,000 nits brightness



## Neural Band

EMG wrist gestures  
to scroll and confirm



## Voice Control

"Hey Meta" commands  
for full interaction



## WhatsApp Native

Messages display on  
HUD automatically



## Teleprompter

Scrollable text cards  
for SOP delivery

# 10 HIGH-IMPACT USE CASES

Across Top Industry Segments



## USE CASE 1

### ENERGY PATHWAYS



# AI-Guided LOTO Compliance at Oil & Gas Facilities

## THE CHALLENGE

LOTO is the #1 mandatory safety requirement in oil & gas. Missed steps cause catastrophic incidents, regulatory fines, and shutdowns. Paper checklists are impractical in hazardous conditions.

## EON ASSIST IQ SOLUTION

Technician scans QR code on equipment. System loads LOTO procedure to HUD. Each step is photo-verified by Claude Vision AI before advancing. Real-time audit dashboard gives supervisors proof of every action.

## TARGET OUTCOMES

- **95%+ first-pass verification rate**
- **60% faster LOTO completion**
- **Zero missed steps**
- **100% digital audit coverage**

## USE CASE 2

### SMART MANUFACTURING



# AI-Verified Quality Inspection on Production Lines

## THE CHALLENGE

Quality inspections slow throughput when hands are needed for tablets. Skilled inspectors are retiring. Inconsistent inspection quality causes costly rework and warranty claims.

## EON ASSIST IQ SOLUTION

Inspectors scan station QR codes. Inspection protocol loads on HUD. Claude Vision AI compares each checkpoint photo against reference standards, flagging deviations with corrective guidance in real time.

## TARGET OUTCOMES

- **40% faster inspection throughput**
- **75% fewer escaped defects**
- **90% less documentation time**
- **50% faster inspector onboarding**

## USE CASE 3

AEROSPACE & DEFENSE

# Guided Aircraft Maintenance with Technical Order Compliance



### THE CHALLENGE

Maintenance in confined spaces makes tablets impractical. Missed torque or safety wire steps risk catastrophic failures. FAA/EASA require detailed sign-off for every action.

### EON ASSIST IQ SOLUTION

Technicians receive technical order steps on HUD by aircraft tail number. Photo verification confirms fasteners, torque markings, and safety wire. Digital task cards replace paper MRO documentation.

### TARGET OUTCOMES

- **30% faster maintenance tasks**
- **Zero repeat inspections**
- **50% fewer FOD incidents**
- **100% digital TO compliance**

## USE CASE 4

HEALTHCARE LIFE SCIENCES

# Medical Equipment Calibration & Sterile Processing Verification



### THE CHALLENGE

Calibration errors lead to misdiagnosis. Sterile processing errors cause surgical infections. Current processes rely on memory and manual logs that are difficult to audit.

### EON ASSIST IQ SOLUTION

Technicians scan device asset tags. Manufacturer-specific calibration protocol loads on HUD. AI confirms readings within tolerance. For sterile processing, instrument set assembly is verified instrument-by-instrument.

### TARGET OUTCOMES

- **99.9% calibration accuracy**
- **80% fewer sterile errors**
- **45% faster calibration rounds**
- **100% automated FDA records**

## USE CASE 5

CONSTRUCTION / INFRASTRUCTURE

# Safety Inspections & Code Compliance Verification



### THE CHALLENGE

Inspectors navigate active job sites with both hands occupied. Paper forms get damaged. Non-compliance discovered late causes costly rework across multiple trades.

### EON ASSIST IQ SOLUTION

Inspectors select project phase and trade. HUD displays code-referenced checklists. Claude Vision AI compares photos against code requirements. Deficiencies trigger immediate subcontractor notifications.

### TARGET OUTCOMES

- **70% less rework from late violations**
- **2x inspection points per day**
- **Same-day report availability**
- **35% fewer project delays**

## USE CASE 6

FIRST RESPONDERS

# Hands-Free Hazmat Incident Response Protocol Guidance



### THE CHALLENGE

Responders in bulky protective gear cannot use phones or tablets. Incorrect substance identification can be lethal. Post-incident documentation is often incomplete.

### EON ASSIST IQ SOLUTION

Responders photograph hazmat placards. AI identifies the substance and displays ERG protocol on HUD. Containment and decontamination steps delivered hands-free. Every action photo-documented for regulatory compliance.

### TARGET OUTCOMES

- 50% faster substance identification
- Zero protocol deviations
- 90% faster incident reporting
- 100% photo-documented timelines

## USE CASE 7

### MINING

# Underground Equipment Pre-Shift Inspection with AI Verification



### THE CHALLENGE

Harsh underground conditions make reference materials impractical. Missing an inspection point can cause equipment failure, roof collapse, or methane ignition. MSHA requires documented inspections.

### EON ASSIST IQ SOLUTION

Operators scan machine tags. MSHA-compliant checklist loads on HUD. Walkaround inspection guided with photo verification of hydraulics, guards, and safety systems. Machine cleared only after 100% completion.

### TARGET OUTCOMES

- **100% inspection completion rate**
- **45% less unplanned downtime**
- **Zero MSHA documentation citations**
- **25% fewer safety incidents**

## USE CASE 8

### MARITIME

# Vessel Safety Inspection & Port State Control Guidance



### THE CHALLENGE

Hundreds of inspection checkpoints across engine rooms and decks. Inspectors climb ladders and navigate wet surfaces. Missed deficiencies result in vessel detentions costing \$100K+/day.

### EON ASSIST IQ SOLUTION

Inspectors select vessel by IMO number. Compartment-by-compartment checklist loads on HUD. AI flags expired certifications, missing equipment, and damage. Inspection report generated for port authority submission.

### TARGET OUTCOMES

- **40% faster vessel inspections**
- **60% fewer detention events**
- **100% photo-documented findings**
- **30% better deficiency detection**

## USE CASE 9

### DATA CENTERS

# AI-Guided Server Rack Installation & Change Management



### THE CHALLENGE

Cable patching errors and power mis-configurations cause outages affecting thousands. Change management requires before/after photos, but technicians juggling equipment struggle to document consistently.

### EON ASSIST IQ SOLUTION

Technician opens change ticket on glasses. Target rack layout and cable schedule display on HUD. Before/after photos captured at every connection. AI verifies cable routing and port assignments against plan.

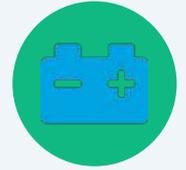
### TARGET OUTCOMES

- **80% fewer patching errors**
- **50% faster change completion**
- **Zero physical infrastructure outages**
- **100% change photo compliance**

## USE CASE 10

### ELECTRIC VEHICLES

# High-Voltage Battery Service Safety Protocol Verification



#### THE CHALLENGE

EV battery work involves 400V-800V systems with lethal electrocution risk. The industry is growing faster than trained HV technicians. Manufacturer-specific procedures vary widely by model.

#### EON ASSIST IQ SOLUTION

Technician scans vehicle VIN. Model-specific HV disconnect procedure loads on HUD. PPE and zero-energy verified by AI at each step. No step can be skipped — AI blocks advancement until photo verification passes.

#### TARGET OUTCOMES

- Zero HV safety incidents
- 70% faster technician qualification
- 100% protocol compliance
- 40% faster HV service time

# Use Case Summary

#	Segment	Use Case	Top KPI
1	Energy Pathways	AI-Guided LOTO Compliance	Zero missed steps
2	Smart Manufacturing	AI-Verified Quality Inspection	75% fewer escaped defects
3	Aerospace & Defense	Aircraft Maintenance Guidance	30% faster task completion
4	Healthcare Life Sciences	Equipment Calibration & Sterile Processing	99.9% accuracy
5	Construction	Safety & Code Compliance	70% less rework
6	First Responders	Hazmat Incident Response	50% faster identification
7	Mining	Pre-Shift Equipment Inspection	100% inspection completion
8	Maritime	Vessel Safety Inspection	40% faster inspections
9	Data Centers	Rack Install & Change Mgmt	80% fewer patching errors
10	Electric Vehicles	HV Battery Service Safety	Zero HV safety incidents

EON REALITY

# Ready to Close the Gap Between Training and Execution?

EON Assist IQ is the only platform that takes a worker from zero knowledge to verified field execution — entirely within one AI-powered ecosystem.



## Schedule a Demo

See the full glasses experience  
live



## Pilot Program

4-week proof of concept at  
your facility



## Contact Us

[eonreality.com](https://eonreality.com)