

# **EON Compound IQ**

## **Turning Knowledge Gaps into Assets: How Compound IQ Boosts Industrial Intelligence Overnight**



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## Executive Summary

EON AI Ventures has unveiled **Compound IQ**, a revolutionary learning engine designed to redefine the way industrial knowledge is captured, refined, and leveraged. Positioned at the heart of the **Intelligence Flywheel**, **Compound IQ** bridges the critical gap between prescribed procedures and real-world practices, transforming discrepancies into actionable improvements and ensuring that an organization's knowledge base appreciates over time. This innovation addresses a long-standing industrial challenge: how to make institutional knowledge not just sustainable but compounding, even as experienced workers retire.

### The Challenge of Static Knowledge

In many industrial settings, training is a static, one-time event. Workers are trained on prescribed procedures that often fail to evolve with real-world practices. Over time, this knowledge decays, and the valuable insights gained through experience—often stored in the minds of retiring experts—are lost. Compounding this issue, discrepancies between written procedures and actual practices are rarely captured or acted upon, leaving organizations with a knowledge base that stagnates and fails to adapt to real-world conditions. Without a **learning loop**, the operational intelligence of an enterprise remains static, unable to evolve with the complexities of modern industry.

### The Power of Compound IQ

**Compound IQ** fundamentally changes the game by introducing a **learning loop** that ensures knowledge not only persists but grows brighter with every cycle. Operating as a nightly batch process orchestrated by **Conductor**, **Compound IQ** ingests **discrepancy telemetry** captured by **Assess IQ** and **xAPI telemetry** from the customer's **Learning Record Store**. It aggregates these data points by site and procedure, classifying divergences into two categories:

- **Safe, repeated divergences:** These reflect improved real-world practices over the written standard operating procedures (SOPs). **Compound IQ** proposes these as refinements to the **Genesis twin** and the SOP, ensuring that best practices are institutionalized across the organization.
- **Unsafe divergences:** These trigger **targeted micro-lessons** and **supervisor alerts**, addressing gaps in competency and reinforcing safety protocols.

This feedback process is gated by **Verdict**, which performs **adversarial verification** to ensure every proposed refinement meets safety and compliance standards. Approved changes are written back to **Genesis** and **Brainy**, complete with versioning and rollback capabilities. The result is a knowledge base that improves overnight, creating a competitive advantage that deepens with every shift.

## Beyond Static Training: A Self-Compounding System

Unlike traditional training systems that decline in value over time, **Compound IQ** turns an enterprise's operations into a self-compounding intelligence system. Its integration into the **Intelligence Flywheel** ensures that every station contributes to a virtuous cycle of improvement:

1. **Genesis** converts expert demonstrations into governed **3D step-by-step procedures**.
2. **Scenario Factory** scales these procedures across an entire plant.
3. **Field IQ** and **Brainy** deliver these procedures to workers via **smart glasses**, escalating to human oversight when necessary.
4. **Assess IQ** verifies worker competency and captures discrepancies between procedures and real-world execution.
5. **Compound IQ** refines procedures based on captured data, ensuring continuous improvement.
6. **Conductor** orchestrates the loop, routing tasks to appropriate models and systems.
7. **Verdict** ensures that all changes are safe, compliant, and audit-ready.

This integrated system, known as the **Human 2.0 Operating System (H2O)**, transforms an enterprise's operations into a strategic asset, making its knowledge base not just sustainable but self-enhancing.

## Trust and Safety at the Core

EON AI Ventures recognizes the high stakes of industrial operations, where safety and compliance are paramount. To address this, the **Intelligence Flywheel** is designed with three guarantees:

- **Self-checking verification:** Independent agents rigorously test every refinement before it goes live.
- **Escalation when uncertain:** In safety-critical scenarios, the system pauses and escalates to human oversight rather than making potentially harmful decisions.
- **Audit-ready transparency:** Every action and decision is logged, reversible, and aligned with compliance frameworks like **ATEX, API, and OSHA**.

## Pilot Availability

**Compound IQ** is now available for pilot deployment as part of EON's **90-day Human 2.0 Engagement (H2O)**. The initial cohort is limited to ten anchor industrial enterprises, offering them the opportunity to lead the way in transforming their operations into a self-compounding intelligence system.

By turning the gap between prescribed procedures and real-world practices into a competitive advantage, **Compound IQ** ensures that industrial knowledge appreciates overnight, safeguarding institutional wisdom for the AI era.

## The Problem/Challenge

Industrial enterprises face a persistent and costly challenge: the inability to effectively capture, refine, and institutionalize operational knowledge. Traditional training methods fail to adapt to real-world practices, and the insights of experienced workers often leave the organization along with them. This gap between prescribed procedures and actual practices represents a significant missed opportunity for improvement, safety, and competitive advantage.

### Static Training in a Dynamic World

Most industrial training is delivered as a one-time event, with knowledge concentrated in static manuals and standard operating procedures (SOPs). Once training is complete, there is little to no mechanism for updating this knowledge based on real-world execution. Over time, this training decays, leaving organizations with outdated practices that fail to reflect the realities of their operations.

Compounding this problem is the reliance on experienced workers to adapt procedures on the fly. These workers often develop safe workarounds and improved practices that are never documented. When these workers retire—a pressing concern given that 50% of the industrial workforce is expected to retire within the next 5-7 years—this invaluable knowledge disappears, leaving organizations to start from scratch.

### Ignoring the Delta Between Manual and Reality

In every industrial setting, there exists a **delta between the written procedure and what actually happens at the equipment**. This delta represents both a risk and an opportunity. Without a system to capture and act on this discrepancy, organizations are left with:

- **Missed opportunities for improvement:** Safe divergences that reflect better practices remain unrecognized and unutilized.
- **Increased safety risks:** Unsafe divergences go unaddressed, potentially leading to accidents or compliance violations.
- **Knowledge stagnation:** The organization's intelligence remains static, unable to adapt or grow with changing conditions.

## The High Cost of Knowledge Decay

The consequences of failing to address this challenge are significant:

1. **Loss of operational intelligence:** The insights and expertise of retiring workers vanish, leaving gaps in institutional knowledge.
2. **Safety and compliance risks:** Without mechanisms to identify and address unsafe divergences, organizations face heightened risks of accidents and regulatory violations.
3. **Competitive disadvantage:** In an era where AI and automation are accelerating operational capabilities, organizations without a **learning loop** fall behind.

## Why Traditional Solutions Fall Short

Existing training and knowledge management systems are ill-equipped to address these challenges. They capture static knowledge but fail to evolve with real-world practices. Moreover, they lack the mechanisms to verify and refine knowledge in a way that ensures safety and compliance. Most importantly, they do not leverage the operational data that could turn discrepancies into actionable insights.

This is where **Compound IQ** disrupts the status quo. By introducing a **learning loop** that captures and refines knowledge based on real-world execution, it ensures that industrial intelligence compounds rather than depreciates. **Compound IQ** not only solves the problem of static training but also transforms it into a strategic advantage, enabling organizations to thrive in the AI era.

## The Solution

**Compound IQ** addresses the critical challenge of knowledge depreciation in high-stakes industrial environments by transforming discrepancies between manual procedures and real-world actions into actionable insights. Conventional training methods, which rely on static one-time delivery, fail to adapt to the dynamic realities of industrial operations. As a result, valuable knowledge—often locked in the minds of experienced workers—remains inaccessible and eventually lost, particularly as experts retire.

**Compound IQ** serves as the centerpiece of the **Intelligence Flywheel**, a self-reinforcing loop that ensures industrial knowledge not only persists but appreciates over time. It does this by converting the **discrepancy telemetry** captured by **Assess IQ**—the gap between what a procedure dictates and what actually happens during execution—into improved **Genesis twins** and refined Standard Operating Procedures (**SOPs**) on an ongoing basis. This nightly transformation ensures that the knowledge base grows sharper with every operational cycle, effectively compounding a company's intelligence instead of allowing it to depreciate.

The cornerstone of **Compound IQ** is its gated feedback system, which operates under strict safety protocols. Discrepancies are classified into two categories: safe divergences and unsafe divergences. Safe divergences—those representing better real-world practices than the written SOP—are proposed as refinements to the **Genesis twin** and the procedure. Unsafe divergences, on the other hand, trigger targeted **micro-lessons** for workers and **supervisor alerts** to address critical gaps and potential risks. Importantly, every proposed refinement undergoes rigorous verification through **Verdict**, EON AI Ventures' adversarial verification framework. This ensures that only validated updates are implemented, maintaining the integrity of the knowledge loop.

By running as a **nightly, Conductor-orchestrated batch**, **Compound IQ** aggregates **discrepancy telemetry** and **xAPI telemetry** from the customer's **Learning Record Store**, classifying divergences per site and per procedure. This process allows the system to operate at scale, refining thousands of procedures across multiple sites while maintaining precision and safety. Approved changes are written back to **Genesis** and **Brainy Mentor Pro**, complete with full versioning and rollback capabilities. This ensures transparency, accountability, and audit-readiness by default, aligning with industry safety standards such as **ATEX**, **API**, and **OSHA**.

The transformative impact of **Compound IQ** lies in its ability to capture and operationalize the "delta" between written procedures and real-world execution. This delta—the nuanced, experience-driven knowledge that was traditionally locked in the heads of retiring experts—becomes the foundation for continuous improvement. As a result, industrial enterprises can achieve measurable outcomes such as reduced **time-to-competency**, enhanced **knowledge retention**, and heightened **safety** standards.

Furthermore, **Compound IQ** contributes to cross-customer compounding, where refinements derived from one customer's operations can inform and improve procedures across the broader customer base. This creates a scalable intelligence network that grows exponentially, deepening a company's competitive moat with every shift.

In summary, **Compound IQ** is more than just a product; it is a transformative solution that ensures industrial knowledge appreciates overnight. By bridging the gap between manual procedures and reality, it empowers enterprises to retain and refine critical operational intelligence, making them safer, more efficient, and future-ready.

## Key Features/Capabilities

**Compound IQ** is a highly sophisticated learning engine designed to transform industrial knowledge into a compounding asset. Its capabilities are centered around ensuring precision, safety, and continuous improvement. Below are the key features and functionalities that define **Compound IQ** and its role within the **Intelligence Flywheel**:

## 1. Nightly Batch Operations Orchestrated by Conductor

At the heart of **Compound IQ** is its ability to execute **nightly, Conductor-orchestrated batch operations**. This ensures that the system processes vast amounts of **discrepancy telemetry** and **xAPI telemetry** efficiently and at scale. By aggregating data from the customer's **Learning Record Store**, **Conductor** routes each task to the appropriate model tier, enabling seamless integration and optimization across multiple procedures and sites.

## 2. Aggregation and Classification of Discrepancies

Using telemetry data captured by **Assess IQ**, **Compound IQ** systematically aggregates and classifies divergences between written procedures and real-world execution. Safe divergences—those representing superior, real-world practices—are flagged for refinement, while unsafe divergences are escalated for immediate intervention. This classification process ensures that every insight is actionable and aligned with operational goals.

## 3. Refinement of Genesis Twins and SOPs

Safe divergences identified by **Compound IQ** are proposed as refinements to the customer's **Genesis twin** and **Standard Operating Procedures (SOPs)**. These refinements are subject to rigorous verification through **Verdict**, EON AI Ventures' adversarial verification framework. Only validated updates are implemented, ensuring that the knowledge loop remains both accurate and trustworthy.

## 4. Versioning and Rollback Capabilities

Every update made to a **Genesis twin** or SOP is versioned, allowing enterprises to track changes over time and maintain full transparency. In the event of an error or misalignment, the system's rollback capabilities enable swift restoration to previous versions, ensuring operational continuity and safety.

## 5. Safety-Focused Micro-Lessons and Supervisor Alerts

For unsafe divergences, **Compound IQ** delivers targeted **micro-lessons** to workers, addressing critical gaps in competency. Additionally, **supervisor alerts** are issued to ensure that immediate attention is given to high-risk discrepancies. These interventions help mitigate risks, enhance worker safety, and maintain compliance with industry standards such as **ATEX**, **API**, and **OSHA**.

## 6. Adversarial Verification with Verdict

Safety is paramount in industrial operations, and **Compound IQ** leverages **Verdict**, EON AI Ventures' adversarial verification framework, to ensure the integrity of every refinement. Before any new procedure or update goes live, independent adversarial agents rigorously test the system to identify potential errors or risks. Only refinements that survive this scrutiny are published, safeguarding workers and operations from confidently wrong AI decisions.

## 7. Cross-Customer Compounding

Beyond individual enterprises, **Compound IQ** enables cross-customer compounding, where insights and refinements derived from one customer's operations can inform similar procedures across the broader customer base. This creates a scalable intelligence network that compounds knowledge across industries, deepening customer moats and accelerating innovation.

## 8. Audit-Ready by Default

Every action and decision made by **Compound IQ** is logged, reversible, and mapped to the customer's safety framework. This ensures compliance with regulatory standards such as **ATEX**, **API**, and **OSHA**, making the system audit-ready by default. Enterprises can confidently rely on **Compound IQ** to uphold transparency and accountability in their operations.

## 9. Integration within the Human 2.0 Operating System (H2O)

**Compound IQ** is a critical station within EON AI Ventures' **Human 2.0 Operating System (H2O)**. By transforming industrial operations into a self-reinforcing intelligence loop, **Compound IQ** empowers enterprises to achieve measurable outcomes such as improved **knowledge retention**, reduced **time-to-competency**, and enhanced **safety** standards.

In summary, the features and capabilities of **Compound IQ** establish it as a groundbreaking solution for industrial enterprises. By capturing, refining, and compounding operational knowledge, **Compound IQ** ensures that intelligence grows brighter with every shift, setting a new standard for workforce transformation in the AI era.

## How It Works

At the core of **Compound IQ** lies a transformative process that turns industrial operations into an intelligence-compounding system. As a critical station in the **Intelligence Flywheel**, **Compound IQ** serves as the feedback mechanism that ensures operational knowledge not only persists but improves over time. Its underlying architecture and processes enable it to refine Standard Operating Procedures (SOPs) and **Genesis twins**, enhance safety protocols, and deliver actionable insights—all while ensuring trust and auditability.

## The Data Pipeline: From Discrepancy to Refinement

The journey begins with **Assess IQ**, which captures the **discrepancy telemetry**—the delta between what is written in the SOPs and what actually occurs during operations. This data is complemented by **xAPI telemetry** from the customer's **Learning Record Store (LRS)**, aggregating inputs from across sites and teams. These discrepancy records form the

foundation of the **learning loop**, which **Compound IQ** leverages to classify divergences into two categories:

1. **Safe divergences**: These are repeated deviations from the SOP that represent better, real-world practices developed by experienced workers.
2. **Unsafe divergences**: These are deviations that could lead to accidents, inefficiencies, or non-compliance with safety standards.

## Overnight Processing and Classification

Run as a nightly batch orchestrated by **Conductor**, **Compound IQ** processes discrepancy data in bulk. Using sophisticated classification algorithms, the system analyzes each divergence on a per-site and per-procedure basis.

- **Safe divergences** are flagged as potential improvements to the **Genesis twins** and the written SOPs. These refinements are proposed as updates that reflect the best practices developed on the ground.
- **Unsafe divergences** are flagged for immediate action. These trigger **micro-lessons** to address specific gaps in worker competency and generate **supervisor alerts** for swift intervention.

This continuous cycle ensures that every shift contributes to refining and strengthening an organization's operational processes.

## Verification Through Verdict

Before any refinement becomes part of the official SOP or **Genesis twin**, it undergoes rigorous validation through **Verdict**. This station performs **adversarial verification**, where independent agents attempt to disprove the proposed changes. Only refinements that pass this scrutiny are approved for implementation. This ensures that no unsafe or suboptimal changes are introduced into the operational workflow.

## Knowledge Integration and Version Control

Once verified, the approved refinements are written back into **Genesis** and **Brainy**, complete with full versioning and rollback capabilities. This means every update is traceable, reversible, and aligned with industry safety standards such as **ATEX**, **API**, or **OSHA**. The entire process is logged within the **Trust Ledger**, providing an **audit-ready by default** framework for compliance and accountability.

## The Result: Appreciating Knowledge

Through its nightly processing, **Compound IQ** transforms the captured discrepancies into actionable insights, ensuring that knowledge appreciates rather than depreciates. It bridges the gap between what the SOP dictates and what actually happens in the field, capturing the unwritten expertise of experienced workers before it is lost. The outcome is a smarter, safer, and more efficient workforce, with operational knowledge that compounds with every shift.

## Benefits/Outcomes

The introduction of **Compound IQ** represents a paradigm shift in how organizations manage and grow their operational knowledge. By turning the **gap between the manual and reality** into a source of continuous improvement, **Compound IQ** delivers measurable benefits that extend beyond traditional training and knowledge management systems.

### Knowledge That Appreciates Overnight

One of the most profound outcomes of **Compound IQ** is the ability to make knowledge appreciate rather than decay. Unlike traditional training methods, where knowledge delivery is a one-time event and subject to attrition, **Compound IQ** ensures that operational expertise becomes sharper with each shift. By capturing and refining the **delta between the written procedure and what actually happens**, organizations unlock insights that were previously trapped in the minds of their most experienced workers—many of whom are on the brink of retirement. This process preserves critical institutional knowledge and ensures its availability for future generations of the workforce.

### Enhanced Safety and Compliance

Safety is at the heart of **Compound IQ**. By identifying **unsafe divergences** and triggering targeted **micro-lessons** and **supervisor alerts**, the system proactively addresses potential risks before they escalate. Furthermore, the verification process through **Verdict** ensures that no unsafe procedure or refinement is ever implemented without rigorous validation. Every action is logged and mapped to the customer's safety framework—**audit-ready by default**. This comprehensive approach significantly reduces the likelihood of accidents and improves compliance with standards such as **ATEX, API, and OSHA**.

### Operational Excellence Through Continuous Refinement

With **Compound IQ**, organizations achieve a level of operational excellence that static training programs cannot match. The system's ability to integrate **safe divergences** into updated **Genesis twins** and SOPs means that best practices are institutionalized and

disseminated across the workforce. This continuous refinement ensures that procedures remain relevant, efficient, and aligned with real-world conditions, driving higher productivity and reducing operational inefficiencies.

## Proprietary Intelligence and Competitive Differentiation

By leveraging **Compound IQ**, organizations create a proprietary intelligence moat that competitors cannot replicate. The **cross-customer compounding** feature, slated for future implementation, will allow enterprises to benefit from anonymized insights aggregated across EON's customer base. This creates a self-reinforcing loop where the intelligence derived from one organization's operations contributes to the collective knowledge of all users, further enhancing the value of the system. This differentiation positions enterprises as leaders in their respective industries, with a level of operational intelligence that is both unique and defensible.

## Trust and Transparency

Every decision and refinement made by **Compound IQ** is fully transparent and reversible. The inclusion of a **Trust Ledger** ensures that all updates are logged, providing a comprehensive audit trail that enhances trust and accountability. This transparency is particularly critical in high-stakes, safety-critical industries, where the consequences of errors can be severe. By embedding trust and safety into every layer of its architecture, **Compound IQ** gives organizations the confidence to embrace AI-driven transformation without compromising on reliability or compliance.

## Measurable Outcomes

The impact of **Compound IQ** is tangible and measurable. Organizations experience reduced **time-to-competency** as targeted **micro-lessons** address specific knowledge gaps. **Knowledge retention** improves because the system continually reinforces learning through real-world application and refinement. Safety incidents decrease as **unsafe divergences** are identified and addressed in real time. These outcomes translate into improved operational efficiency, reduced costs, and a workforce that is better prepared to meet the challenges of the **AI era**.

## Conclusion: The Future of Workforce Transformation

**Compound IQ** is more than just a tool; it is a transformative force that redefines how organizations manage their operational knowledge. By turning discrepancies into opportunities for improvement, it ensures that knowledge grows brighter with every shift. This capability, combined with its emphasis on safety, transparency, and measurable outcomes, positions **Compound IQ** as a cornerstone of the **Human 2.0 Operating System (H2O)**. For enterprises seeking to thrive in the **AI era**, **Compound IQ** is not just an option—it is a necessity.

## Conclusion

**Compound IQ** represents a transformational leap in industrial learning and operational intelligence, redefining how enterprises capture, retain, and enhance their most critical knowledge assets. By converting the **gap between the manual and reality** into actionable insights, **Compound IQ** ensures that knowledge compounds overnight, rather than depreciating over time. This groundbreaking innovation is the cornerstone of EON AI Ventures' **Human 2.0 Operating System (H2O)**, a self-reinforcing loop designed to turn enterprise operations into unassailable intelligence.

Traditional training methods have long been static and short-lived, often leaving critical insights and **safe workarounds** locked in the minds of retiring experts. As industries face the impending retirement of up to 50% of their workforce within the next 5-7 years, the need for solutions that capture, refine, and propagate operational knowledge has never been more urgent. **Compound IQ** addresses this challenge head-on, leveraging advanced **discrepancy telemetry** captured by **Assess IQ** and enriched by **xAPI telemetry** from the customer's **Learning Record Store**. This data is aggregated and classified, transforming every **delta between the written procedure and what actually happens** into actionable refinements.

Run as a nightly **Conductor-orchestrated batch**, **Compound IQ** operates as the feedback station within EON's **Intelligence Flywheel**. Safe divergences—those that reflect better real-world practices than the written standard operating procedures (SOPs)—are proposed as refinements to the **Genesis twins** and procedures. Unsafe divergences, on the other hand, are flagged for immediate intervention, generating **micro-lessons** for workers and **supervisor alerts** to ensure safety remains paramount. Every proposed refinement is rigorously vetted by **Verdict** through adversarial verification, guaranteeing that only safe, accurate updates are implemented. Approved changes are then written back to **Genesis** and **Brainy** with full versioning and rollback capabilities, ensuring transparency and audit readiness.

The result is a learning loop that enables **knowledge to appreciate overnight**, continually improving procedures and safety protocols across shifts and sites. This iterative refinement process not only deepens the operational moat for individual enterprises but also opens the door to **cross-customer compounding**, where aggregated insights from multiple industrial clients contribute to a collective intelligence that cannot be replicated by competitors.

Safety and trust are embedded into **Compound IQ** by design. Every decision and action within the **Intelligence Flywheel** is logged, reversible, and mapped to industry-specific safety frameworks like ATEX, API, and OSHA standards, ensuring compliance and audit-readiness by default. Moreover, the system adheres to strict protocols that prioritize human oversight for safety-critical steps. If the AI encounters uncertainty in executing a procedure, it escalates to a human operator rather than risking an error—aligning with the principle that the AI never has the final say on steps that could compromise worker safety.

For enterprises eager to explore the future of intelligent operations, **Compound IQ** is entering limited pilot availability as part of EON's **90-day Human 2.0 Engagement (H2O)**

program. This pilot is tailored to ten anchor industrial enterprises in 2026, offering them an unparalleled opportunity to experience the power of **Compound IQ** and the **Intelligence Flywheel** in action. From refining site-specific twins to addressing unsafe divergences, participating organizations will gain firsthand insight into how their **industrial knowledge appreciates with every shift**, even in the face of workforce transitions and high-stakes operations.

By joining the **Human 2.0 Engagement**, enterprises can position themselves at the forefront of operational intelligence, leveraging a system that transforms static training into dynamic knowledge appreciation. To learn more and take the first step toward unlocking the next generation of industrial performance, visit [eonreality.com/eon-compound-iq](https://eonreality.com/eon-compound-iq). EON AI Ventures is committed to bridging the gap between expert judgment and workforce capability, ensuring that what your experts know becomes what your entire workforce can do—securely, efficiently, and sustainably.