Realizeit

EBOOK:

How Adaptive AI
Resets the Standard
for Workforce
Readiness





INTRODUCTION

Training as a Strategic Imperative

In many industries such as mining, oil & gas, energy, manufacturing, pharma, medtech, healthcare and financial services, training is not a "nice-to-have." It is essential for compliance, safety, and operational performance. Leaders in these sectors face two core challenges: 1) developing worker competencies and validating that each are qualified for their role and 2) ensuring that only those who are truly job-ready are deployed in the field. The stakes are too high for guesswork.

At Realizeit, our point of view is clear: the traditional model of training episodic, generic, and manual—is no longer fit for purpose. Training



must evolve into a continuous, adaptive, and verifiable process of competency development and assurance. And AI, thoughtfully applied, is the catalyst to make this transformation real.

Recent external research from McKinsey & Co. and MIT Sloan reinforces what we have long believed: Al has shifted from a futuristic promise to a practical necessity. Their findings align closely with our vision, but our perspective goes further: Al in training must not only be adopted—it must be orchestrated in a way that directly ensures safety, compliance, and performance.

In a recent meta-study published by Realizeit, which you can access here, we go further into external research and synthesize insights from five seminal research reports published by McKinsey & Company and MIT Sloan (2024–2025). It seeks to identify the most practical, leverageable, and valuable applications of Al—categorized as Generative AI, AI Agents, and Agentic AI—within the context of structured training and performance enablement in regulated industries.



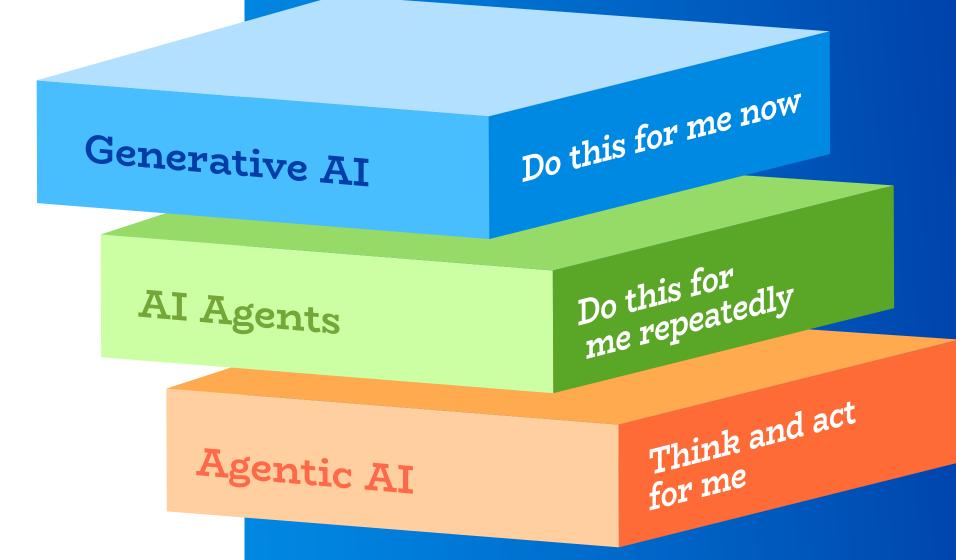
Realizeit's Framework for AI in Training

We break down AI in training into three layers, each building on the other:

- **Generative AI (GenAI):** Accelerates content development and reduces manual effort.
- Al Agents: Automate repeated workflows, from assessments to verification.
- Agentic AI: Thinks, adapts, and orchestrates learning toward desired outcomes.

This framework is not abstract—it is how we've built Realizeit from day one. Our platform was designed to adapt, personalize, and continuously verify an employee's readiness. In today's terms, that makes it inherently agentic. It is operational now, delivering value at scale.

The alignment with McKinsey's call for "AI as a superagency" and MIT Sloan's emphasis on human-AI complementarity only strengthens our conviction. But we don't just echo their findings—we put them into practice inside real training workflows.





Generative AI – Speed with Relevance

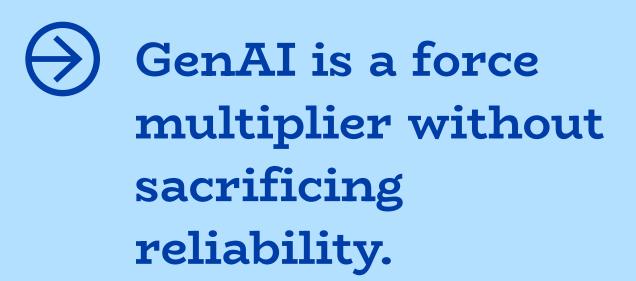
Our Point of View: Content is the lifeblood of training, but in regulated industries, it quickly becomes outdated. GenAl is a powerful assistant that enables teams to generate draft modules, update SOP-aligned training, and create microlearning at scale – always with a human-in-the-loop.

Practical Impact Examples:

- In pharma, GenAI helps keep pace with shifting FDA regulations.
- In energy, it tailors safety content to regional standards.

External research confirms what we see daily. McKinsey's State of AI shows 75% of organizations already use GenAI, often for content creation. But without domain expertise and human validation, output risks accuracy gaps. At Realizeit, we embed GenAI into structured workflows where SMEs review and approve. This makes GenAI a force multiplier without sacrificing reliability. just echo their findings—we put them into practice inside real training workflows.









AI Agents – Automating Assurance

Our Point of View: Compliance is not achieved through one-time training—it's maintained through continuous reinforcement and oversight. Al Agents are the unsung heroes here. They monitor progress, manage completions, and create auditable records without requiring human micromanagement to remain vigilant.

Practical Impact Examples:

- In oil & gas, agents manage global certification compliance.
- In healthcare, they ensure nurses complete infection control training on time.

The MIT study on worker involvement resonates deeply with our design approach. Agents must support, not replace, supervisors. Our system empowers trainers and managers by automating repetitive oversight while providing real-time visibility into gaps. This shifts their role from administrators to performance enablers.



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Agentic AI – Continuous Competency and Readiness

Our Point of View: True transformation happens when training evolves from course-based learning to continuous competency development and assurance in context. Agentic AI is the breakthrough here: it reasons, anticipates, and adapts. It functions like a digital coach, guiding workers, informing managers and taking action".

Practical Impact Examples:

- In manufacturing, it adapts training paths based on error patterns found on the line.
- In medtech, it ensures reps are always up to date on current product knowledge.

McKinsey found only 1% of companies feel mature in this area, but those that are report 2–5x faster delivery and higher retention. This validates our belief: Agentic Al is not just a concept—it's a capability that helps shift the narrative from "trained" to "continuous readiness."

At Realizeit, our adaptive engine was built on these principles. It continuously calibrates based on learner performance, closing gaps before they become risks.



Agentic AI shifts the model from trained to always ready.

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Augmentation, Not Automation

Al in training is not about replacing humans. It's about freeing people to focus on what only they can do: judgment, empathy, and leadership. MIT's EPOCH framework reminds us that uniquely human skills are irreplaceable. Al's role is to enhance them.

For example:

- In mining, Al supports emergency readiness, but human judgment drives response.
- In clinical care, Al provides updated protocols, but empathy remains human.

This balance—machine efficiency and human wisdom—is at the heart of our philosophy. Training systems must reflect it.



AI's role is to enhance human strengths, not replace them.



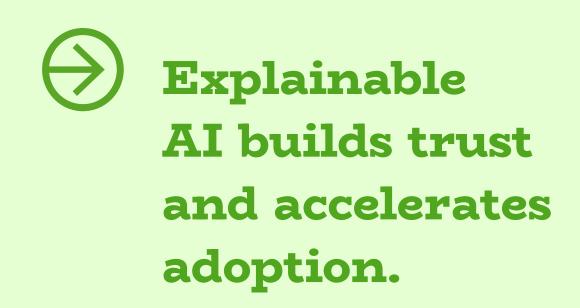
Friction and How to Overcome It

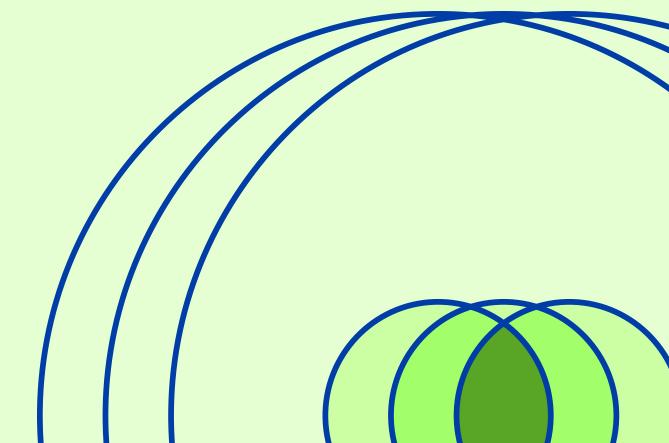
We know that AI adoption isn't frictionless. The barriers are real:

- Concerns about GenAl hallucinations.
- Skepticism about opaque Al decisions.
- Worker anxiety about being replaced.

Our approach is grounded in transparency and governance. We advocate explainable AI: systems that show why recommendations are made. We collaborate with clients to involve learners, supervisors, and managers early in design and implementation planning. This not only builds trust but accelerates adoption.

McKinsey confirms that organizations with CEO oversight of AI governance report greater bottom-line impact. This echoes what we see: leadership and transparency drive success.







A Practical Roadmap

For leaders in regulated industries, the path forward is clear. We recommend a phased approach:

- 1. Foundation: Use GenAl to accelerate content creation with human-in-the-loop.
- 2. Automation: Deploy Al Agents for monitoring and compliance workflows.
- 3. Adaptation: Introduce Agentic AI to personalize learning and assure readiness.
- 4. Governance: Establish transparency, oversight, and stakeholder involvement.

This roadmap isn't theory—it's how we help organizations implement today. Each phase delivers measurable impact while laying the foundation for long-term transformation.



CONCLUSION:

Training Reimagined

The world of workplace training is at an inflection point. In regulated industries, it must evolve from being a cost center and check-box function to becoming a strategic operating lever for safety, compliance, and performance. Adaptive AI, applied with Generative, Agent, and Agentic layers, is the enabler.

External research reinforces our conviction, but our perspective is rooted in practical application. At Realizeit, we don't just discuss Al's potential—we operationalize it inside training systems. We help companies move from episodic learning to continuous competency assurance.

For organizations ready to lead, the choice is clear: act now. The future of training isn't about more, better content—it's about ensuring every worker is qualified, competent, and job-ready. Adaptive Al makes that possible. Realizeit makes it practical.



The future of training isn't about more, better content—it's about changing the process to ensure every worker is qualified, competent, and ready.





Ready to See What's Possible?

The future of training isn't static—it's adaptive, intelligent, and it's here today.

Learn more

Reach out to info@realizeitlearning.com or visit realizeitlearning.com.

See it in Action

Request a demo and experience how Adaptive Aldriven training ensures every worker is truly job-ready.

