



White Paper

Adoption is Not Implementation

You deployed 3,000 Copilot licenses. Nobody uses them.
The gap between buying AI and absorbing AI.

Alexander S. Petty

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hello@singularics.ai

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Abstract

Organizations routinely confuse deploying AI with adopting it. They are not the same activity. Deployment is a procurement and infrastructure event. Adoption is a behavioral transformation. This paper examines why the distinction runs deeper than ever, why organizations systematically underinvest in the human side of AI, and what it actually takes to move from "we have the tools" to "our work has changed."

A Tale of Two Numbers

A Fortune 500 technology company deployed GitHub Copilot to 4,200 developers in Q3 of 2025. The rollout was flawless. Every seat was provisioned. Every environment was configured. The security review was complete. The CTO presented the initiative at the quarterly all-hands with a slide that read: “AI-powered development is here.”

Six months later, an internal audit revealed that 340 developers used Copilot daily. Another 800 had used it at least once in the past month. The remaining 3,060 had either never opened it or had tried it once and stopped.

The CTO’s slide was technically accurate. AI-powered development was available. It was not, in any meaningful sense, *here*.

This is the gap that this paper is about. It is the distance between implementation and adoption. Between making something available and making it matter. Between deploying a tool and changing how work gets done.

It is the most common and most expensive mistake organizations make with AI.

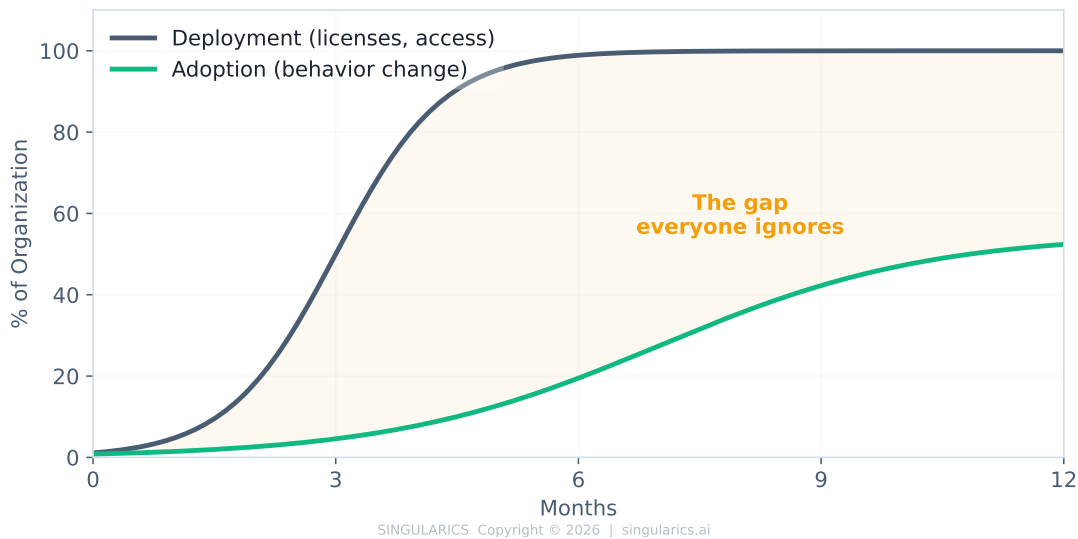


Figure 1: Deployment and adoption follow fundamentally different curves. Deployment can be completed in weeks. Adoption takes months and rarely reaches the same ceiling. The gap between these curves is where most AI investment disappears.

The Distinction That Changes Everything

Implementation is a technology event. It answers the question: *Can our people access AI?*

Adoption is a behavioral event. It answers a fundamentally different question: *Has our people's work actually changed because of AI?*

These are not two points on the same continuum. They are different phenomena that require different expertise, different investment, and different measurement.

Implementation is the domain of IT, procurement, and infrastructure teams. It involves licenses, integrations, security reviews, and deployment pipelines. It is plannable, measurable, and completable. You can declare implementation done. There is a finish line.

Adoption has no finish line. It is the ongoing process of human beings changing their behavior, their workflows, and their expectations. It is messy, nonlinear, and deeply personal. It involves trust, habit, identity, fear, incentive, and culture. It cannot be completed by a project team on a timeline.

Implementation is what happens to the technology. Adoption is what happens to the people. They require different budgets, different expertise, and different timelines. Most organizations fund only the first.

The confusion between these two is not merely semantic. It is the root cause of the most common failure pattern in enterprise AI: successful deployment followed by negligible adoption. The technology works. The organization has not changed around it.

This Has Happened Before

Organizations are not making this mistake for the first time.

The pattern of successful deployment followed by failed adoption has repeated with every major enterprise technology wave of the past three decades.

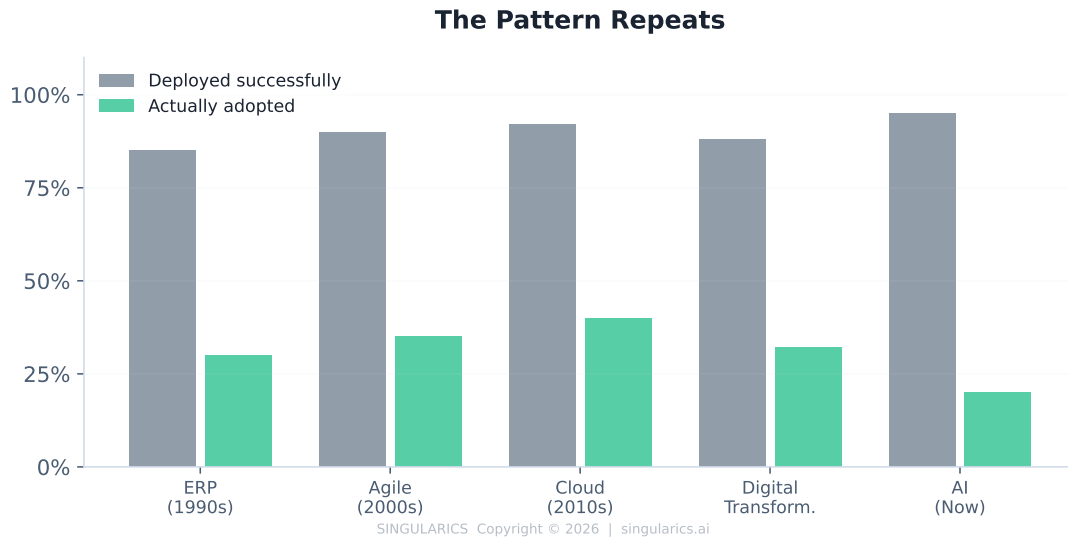


Figure 2: Every major technology wave follows the same pattern: high deployment rates, dramatically lower adoption rates. AI is following the same trajectory, with an even wider gap.

In the 1990s, ERP implementations met technical milestones with impressive reliability. SAP went live. Oracle was configured. The cutover was completed on schedule. And then organizations spent the next three years trying to get people to actually use the systems as intended. Workarounds proliferated. Shadow processes emerged. The technology worked. The organization routed around it.

In the 2000s, Agile transformations swept through the enterprise. Scrum was adopted. Ceremonies were implemented. Jira was deployed. And yet, in study after study, teams adopted the mechanics of Agile without absorbing its principles [1]. They held standups without changing how they made decisions. They ran sprints without changing how they defined done. The process changed. The cognition did not.

In the 2010s, cloud migrations met every infrastructure objective. Workloads were moved. Data centers were closed. Costs were optimized. And then organizations discovered that their people were still working as if the infrastructure hadn't changed, because nobody had redesigned the workflows to take advantage of what cloud made possible.

AI is following the same trajectory. But faster. And with higher stakes.

Because AI does not merely sit in the infrastructure waiting to be used, the way an ERP system or a cloud platform does. AI actively generates output. It produces work product. It makes suggestions. It takes action. An unused ERP system is inert. An unused AI system is a wasted investment. A *misused* AI system is an active liability.

The Behavior Spectrum

When organizations look closely at how their people are actually engaging with AI, the picture is far more varied than the deployment dashboard suggests.

People do not divide neatly into “users” and “non-users.” They distribute across a spectrum of engagement, and the position on that spectrum determines whether AI is creating value or consuming budget.

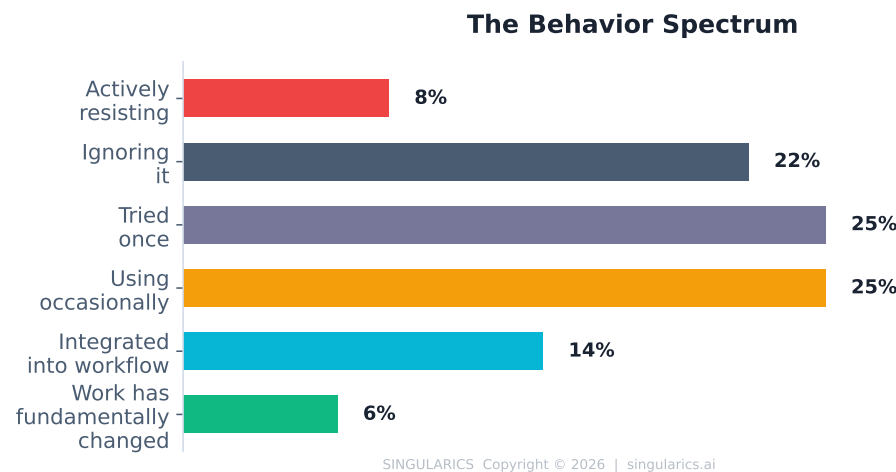


Figure 3: The behavior spectrum reveals six distinct levels of AI engagement. Most organizations can only see the first two levels. The value lives in the last two.

Actively resisting (approximately 8%). These individuals have decided, consciously or unconsciously, that AI is a threat. To their expertise. To their role. To their identity. They are not lazy or stubborn. They are protecting something they value. The organizational response must address what they are protecting, not demand that they stop protecting it.

Ignoring it (approximately 22%). They know AI exists. They have access. They have chosen not to engage. Not out of fear, but out of indifference. Nobody has shown them what it changes for

emphtheir work. The training they received was generic. The use cases were theoretical. The connection to their daily reality was absent.

Tried once (approximately 25%). They attended the workshop. They ran a prompt. They saw what it could do. And then they went back to how they were working before, because the workflow hadn't changed, the expectations hadn't changed, and there was no reason to change.

Using occasionally (approximately 25%). They reach for AI when they think of it. For a difficult email. For a first draft. For a summary. But it is not part of how they work. It is a tool they sometimes remember to use, the way someone might occasionally use a shortcut they learned once but never made habitual.

Integrated into workflow (approximately 14%). AI has changed how they do their job. They use it systematically. Their output is different because of it. They have developed personal practices, prompt patterns, and quality standards for working with AI. They are more effective, and they know it.

Work has fundamentally changed (approximately 6%). Their role looks different. Their output has changed shape. Decisions that took days now take hours. Work that required a team now requires a person with AI. They cannot imagine going back. Their peers have no idea how much their work has changed.

The value lives in the last two categories. The budget is being spent to create the first four.

The Systematic Underinvestment

If the distinction between deployment and adoption is so clear, why do organizations consistently fund the first and neglect the second?

Three structural reasons.

Deployment is visible. Adoption is not.

A CTO can present deployment metrics to the board. Licenses activated. Seats provisioned. Environments configured. These are concrete, quantifiable, and satisfying. They show progress.

Adoption is invisible until you go looking for it. It lives in how individuals work, not in what the system reports. It cannot be captured in a deployment dashboard. It requires a different kind of measurement: observation, interviews, workflow analysis, behavioral data. This measurement is harder, slower, and less satisfying than counting licenses.

Organizations default to measuring what is easy to measure. What is easy to measure is deployment. The real measure is adoption.

Deployment has a timeline. Adoption does not.

An implementation project has a start date, milestones, a go-live, and a finish. It fits neatly into a project management framework. It can be planned, resourced, and declared complete.

Adoption is open-ended. It is never finished. People join the organization. Models change. Capabilities evolve. What adoption looks like in month three is different from what it looks like in month twelve. This does not fit the project model that organizations are built to manage.

Deployment requires technology expertise. Adoption requires organizational expertise.

The people who know how to deploy AI are engineers, architects, and IT leaders. They are well represented in the AI initiative.

The people who know how to change organizational behavior are change managers, coaches, organizational designers, and leadership advisors. They are rarely in the room when AI initiatives are planned. They are funded, if at all, as an afterthought.

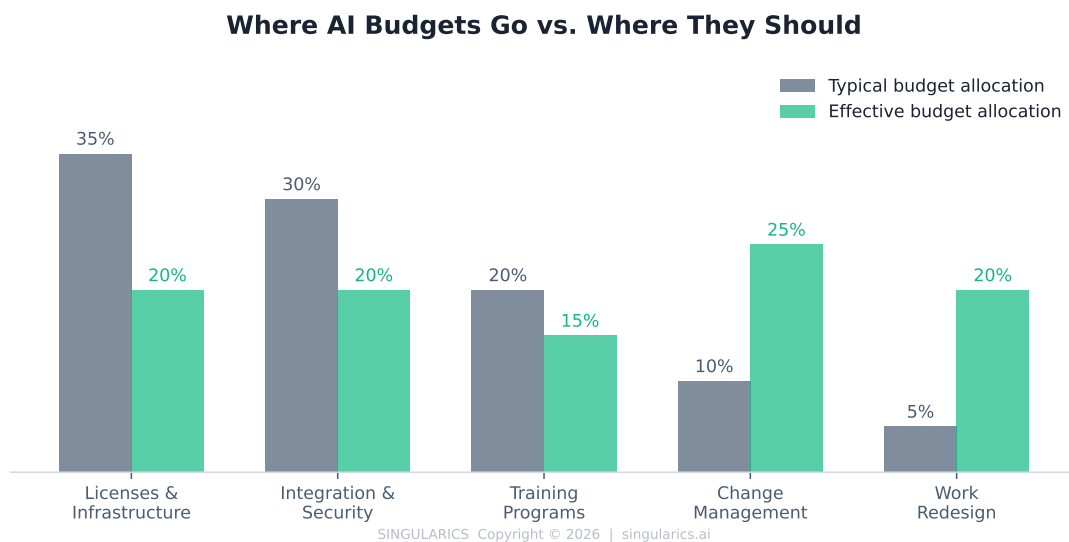


Figure 4: Typical AI budget allocations overinvest in technology and underinvest in the organizational change that determines whether the technology creates value.

\$7.2M

average sunk cost per abandoned AI initiative. Not per failed technology deployment. Per initiative where the technology worked and the organization could not absorb it. [2]

The Adoption Bar

If deployment is a technology problem, adoption is five simultaneous problems that most organizations have never solved together.

Workflow redesign

AI does not fit into existing workflows. It transforms them. A process designed for humans working alone is not the same process when AI is in the loop. Steps disappear. New steps emerge. The sequence changes. The handoffs change. The definition of “done” changes.

Organizations that try to insert AI into existing workflows without redesigning them capture a fraction of the value. The team that uses AI to “write reports faster” is leaving value on the table. The team that asks “what should a report even be when AI is involved” is finding the real gain.

Expectation reset

If the standard of good work does not change, AI becomes a tool for doing less work instead of better work. When someone can produce in two hours what used to take two days, the organization faces a choice: accept the same output faster, or raise the standard of what good output looks like.

Most organizations have not explicitly made this choice. The result is a silent negotiation: employees use AI to reduce their effort while maintaining the appearance of the previous standard. The productivity gain is captured by the individual, not the organization.

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Role redefinition

AI does not eliminate roles. It transforms them. The analyst who spent 60% of their time gathering data now has a different job. The developer who spent half their day on boilerplate now has different constraints. The manager who relied on status reports to understand progress now has different information.

Organizations that redefine roles around AI will outperform the ones that simply hand people a tool and hope for the best. This means explicitly answering: what should this role look like with AI as a given? What decisions change? What skills become more important? What skills become less important?

Governance that enables

Every AI deployment needs governance. Data policies. Usage guidelines. Quality standards. Compliance requirements. These are necessary and important.

The question is whether governance is designed to enable adoption or prevent it. Most organizations, operating from an abundance of caution, build governance that functions as a gate. Every use case requires approval. Every tool requires review. Every dataset requires classification.

The result is predictable: the shadow layer grows. People use unauthorized tools privately because the authorized path is too slow. The organization loses visibility into how AI is actually being used, which is the opposite of what governance was supposed to achieve.

Good governance sets guardrails and then lets people move fast within them. Bad governance becomes the reason adoption never happens.

Sustained behavioral change

A training session introduces a capability. It does not change behavior. Behavior changes when the workflow changes, when expectations shift, when the definition of good work updates, and when the organizational environment rewards the new way of working over the old way.

This requires sustained investment. Not a two-day workshop followed by a survey. Months of embedding, coaching, measuring, and adjusting. It requires the same rigor and duration that organizations bring to technology deployment, applied to the human side of the equation.

95% of generative AI pilots at companies are not reaching production deployment, according to MIT Sloan research. [3]

The Real Metric

If deployment metrics do not capture adoption, what does?

The answer is deceptively simple: *behavior change*.

Adoption is visible in how people work. When someone reaches for AI without thinking about it. When a workflow loses a step. When output changes shape. When a meeting gets shorter because the preparation is better. When a deliverable arrives a day early and is deeper than expected.

These changes are observable. They are measurable. They require a different kind of measurement than a deployment dashboard provides, but they are not mysterious.

The organizations that take adoption seriously will build measurement systems around behavior, not deployment. They will track:

- What percentage of workflows have been redesigned to include AI?
- How has output quality changed since AI was introduced?
- What tasks have been eliminated or reduced?
- How do employees describe their own work differently?
- What decisions are being made faster, or differently?

Licenses and training hours tell you what you deployed. Behavior tells you what stuck.

The Cost of Confusion

The cost of confusing deployment with adoption is not hypothetical. It is measurable and it is large.

An organization that deploys AI widely and adopts it narrowly is paying for 100% of the technology and receiving the benefit from 6% of it. The remaining 94% is not a neutral cost. It is an active drag: licenses that generate no return, training that produced no behavior change, and an organizational narrative ("we are an AI-powered company") that is increasingly disconnected from reality.

But the larger cost is opportunity cost. While the organization reports deployment metrics and declares progress, competitors who have invested in actual adoption are compounding learning. They are redesigning workflows. They are redefining roles. They are building organizational muscle that will take years to replicate.

The gap between deployment and adoption is not just expensive. It is strategic.

The organizations that win with AI will not be the ones that deploy the fastest. They will be the ones that adopt the deepest. Deployment is procurement. Adoption is transformation. Fund them both, or fund neither.

From Deployment to Adoption

The shift from a deployment mindset to an adoption mindset requires three changes that most organizations have not yet made.

First, fund the change, not just the technology. For every dollar spent on AI tools and infrastructure, allocate an equivalent investment in organizational change management. Not training programs. Change management: workflow redesign, role redefinition, expectation setting, and sustained behavioral coaching.

Second, measure behavior, not deployment. Replace deployment dashboards with adoption dashboards. Track workflow changes, output quality shifts, time savings, and behavioral indicators. Make adoption visible to leadership at the same level of detail as deployment.

Third, treat adoption as ongoing, not as a project. Adoption does not end when the go-live is complete. It begins there. Build sustained support into the operating model, not as a project with an end date, but as a permanent capability that evolves as AI evolves.

The technology is ready. The question is whether the organization is.

And “ready” does not mean “deployed.” It means “changed.”

Deployed but not adopted? We can help.

30 minutes to talk about what changed and what didn't. No pitch.

[Book a call](#) | singularics.ai

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We help large organizations close the intent gap between strategy and execution so that when they accelerate with AI, they accelerate in the right direction.

References

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