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AI’s ROI reality check: big investments, bigger expectations

Executive Summary

Massive investments in AI are meeting hard reality checks in boardrooms. New data over the past two days reveals that while companies continue to pour billions into AI, few are seeing the immediate financial returns they expected (www.cfodive.com [1]) (www.cfodive.com [2]). As executives face intensifying pressure from investors and boards to justify these expenditures, the conversation around AI is shifting from hype to hard accountability for business value.

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Boardroom reality: show us the ROI

(www.cfodive.com [1])The era of unchecked AI spending is coming to an abrupt end, as chief financial officers and boards demand evidence of ROI. A recent survey found 92% of CFOs feel personal pressure to prove their AI investments are yielding returns, yet only 7% say their companies prioritise solid AI governance over speed of adoption (www.cfodive.com [2]). In many firms, finance leaders are on the hook to answer a sobering question: after all the hype and spending, what value has AI delivered to the business?

(www.cfodive.com [3]) (www.cloudzero.com [4])New data underscores the urgency. Some 87% of senior finance executives say they need to tie AI spend directly to business outcomes within the next year, but a mere 22% can do so today (www.cfodive.com [5]). In the past, boards often gave management a “blank cheque” to invest in AI for future promise, but no longer. Two-thirds of boards now demand proof of value before funding new AI projects, and 22% will approve no new spend until ROI is demonstrated (www.cloudzero.com [6]). Nearly half of CFOs report being asked for hard ROI numbers on AI that they simply don’t have yet (www.cloudzero.com [7]). The message from the top is clear: show tangible outcomes, or budgets will be reined in.

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The high cost of AI ambitions

(www.cfodive.com [1])Even as ROI remains hazy, AI spending is skyrocketing. Gartner projects global AI outlays will hit $2.6 /trillion in 2026, up 47% from last year (www.cfodive.com [2]). And just four US tech giants - Google, Amazon, Microsoft, and Meta - are together planning roughly $725 /billion in AI-related capital expenditure this year, a stunning 77% more than in 2025 (www.ainvest.com [3]). This unprecedented investment spree is largely funding massive cloud and data centre buildouts to support advanced AI models, from chips to server farms (www.ainvest.com [4]). But as one market analyst notes, “when spending rises that quickly, the market stops rewarding the mere existence of an AI narrative and starts asking for evidence that the spending can earn its keep” (www.ainvest.com [5]).

(www.cfodive.com [6])The tension between ambition and economics is forcing some difficult choices. Microsoft, despite “surging demand” for its Azure AI services, surprised observers by keeping its 2026 capital spending plans at about $175 /billion - slightly less than previously forecast due to an accounting tweak that spreads data centre costs over more years (www.cfodive.com [7]) (www.cfodive.com [8]). In other words, one of the world’s wealthiest companies effectively chose to slow the visible growth of its AI infrastructure budget, a signal that even tech giants feel compelled to appear financially disciplined as they double down on AI.

(www.hngn.com [9])Other companies’ earnings are casting a harsher light on the short-term financial strain of AI. Meta’s latest results showed free cash flow plummeting 91% year-over-year to just $784 /million after a single quarter of $31 /billion in AI infrastructure spending (www.hngn.com [10]). To bankroll this staggering outlay, Meta had to raise $25 /billion in new long-term debt (www.techtimes.com [11]). The company’s operating costs jumped 55% in the quarter (to $42 /billion), slashing its operating margin from 43% to 31% (www.techtimes.com [12]). While CEO Mark Zuckerberg insists these AI investments are “opening the door to entirely new opportunities,” the immediate financial hit is sparking tough questions about when - if ever - those bets will pay off.

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Hype meets hard lessons

(www.cio.com [1])Multiple new reports suggest that the majority of enterprise AI projects have struggled to translate hype into measurable gains. MIT's "GenAI Divide" study found a staggering 95% of generative AI pilots failed to show any tangible financial ROI within their first six months (www.cio.com [2]). Gartner echoed these sobering results in an April analysis: in corporate IT and operations, only 28% of AI initiatives have met ROI expectations, while roughly one in five projects was abandoned as a complete failure (techstartups.com [3]). These startling statistics reflect a growing GenAI 'hangover' in the business community, after years of excited investments with little to show in short-term returns.

Why are so many AI initiatives underperforming? One blunt assessment is that companies jumped into AI without redesigning their business processes, expecting off-the-shelf tools to magically "disrupt" everything overnight. In reality, integrating AI into mission-critical operations has proven far more arduous and expensive than advertised, often requiring massive data preparation, new infrastructure, and specialised talent. Meanwhile, ongoing issues like AI "hallucinations" (incorrect output) mean humans have to stay in the loop, eroding the expected efficiency gains. These challenges - combined with soaring costs - have led to mounting scepticism. Executives who once feared missing out on the AI gold rush are now reckoning with the Productivity Paradox: a technology that promised to revolutionise productivity is so far delivering more headlines than bottom-line impact.

The result is a wave of recalibration. Many firms are quietly tapping the brakes on their AI programmes or shifting focus. As one industry analysis bluntly put it, companies are starting to pull back "because most pilots aren't producing measurable ROI, infrastructure costs are crushing margins, regulatory and reputational risk is climbing, and a populist backlash over energy costs is forcing public-facing rollbacks". In some cases, highly touted projects have been shelved within months when usage failed to translate into sustainable value or when costs simply became untenable. The message for leaders: the time for naive experimentation is over.

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Blueprint for AI Value

(www.cfo.com [1])Despite the grim headlines, a small minority of organisations are finding ways to extract real value from AI - and their approaches offer a blueprint for others. OpenAI's CFO, for instance, argues that companies need a new "scorecard for the age of AI": measuring success not by user counts, but by the tangible work AI systems accomplish versus the cost to deliver that work (www.cfo.com [2]). By tracking metrics like tasks completed to quality standards, human interventions required, and cost per successful outcome, leaders can gauge "useful intelligence per dollar" and focus on improving it over time (www.cfo.com [3]).

(www.cfodive.com [4]) (www.cfodive.com [5])CFOs from several major enterprises are banding together to tackle these challenges. The finance chief of AI startup Cursor (recently acquired by SpaceX) formed a "CFO Council" with peers from companies like Asana and SentinelOne to develop a shared framework for making AI investments more measurable, predictable, and efficient (www.cfodive.com [6]). And in an EY study, 71% of CFOs admitted traditional metrics fall short for evaluating tech initiatives that blend people and AI, with nearly half saying their teams can't effectively

measure the value created by new technologies (www.cfodive.com [7]) (www.cfodive.com [8]). These finance leaders are calling for qualitative, outcome-focused measures - such as how much AI improves customer retention or reduces cycle times - to properly capture AI's impact (www.cfodive.com [9]) (www.cfodive.com [10]).

(www.forbes.com [11])The organisations that are achieving high returns provide further clues. Deloitte's 2026 global survey of 3,235 executives found that nearly three-quarters of "advanced" AI initiatives (those fully scaled with strong governance) have met or exceeded their ROI targets. An earlier analysis by MIT concluded that the 5% of companies reaping significant AI gains are those that "embed [AI] into high-value workflows… with memory and learning loops" - essentially redesigning processes to leverage AI, rather than treating it as a plug-and-play tool (www.forbes.com [12]). In practice, forward-looking leaders are heeding these lessons. They are prioritising a small number of high-impact AI use cases aligned to strategic goals, ensuring proper data and change-management foundations, and holding each project accountable for meaningful financial or operational outcomes (www.cfodive.com [13]) (www.deloitte.com [14]). By shifting from indiscriminate experimentation to disciplined execution, these companies are starting to see AI deliver real productivity gains and competitive advantage - validating that ROI is achievable when AI initiatives are grounded in business value.

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Key Statistics

- 87% of finance leaders feel pressured to tie AI spending to business outcomes within the next year, but only 22% can currently do so ([www.cfodive.com](https://www.cfodive.com/news/finance-ai-spending-stuck-efficiency-gains-gartner-warns/825736/#:~:text=Finance%20AI%20spending%20is%20stuck,as%20an%20AI%20ROI%20company)).
- Just 28% of AI projects in IT/operations meet ROI goals, while 20% are outright failures, per Gartner ([techstartups.com](https://techstartups.com/2026/04/07/gartner-finds-only-28-of-ai-projects-deliver-roi-as-most-fail-to-deliver-results/#:~:text=The%20promise%20of%20AI%20has,The%20results%2C%20less%20so)).

- Worldwide AI spending is forecast to reach $2.59 /trillion in 2026, a 47% increase over 2025 ([www.cfodive.com](https://www.cfodive.com/news/openai-pushes-new-roi-yardstick-ai-cfos/825606/#:~:text=by%20work%20accomplished,study%20released%20by%20PwC%20in)).
- Microsoft's CFO held 2026 capex at around $175 /billion (below earlier forecasts) despite "surging" AI demand ([www.cfodive.com](https://www.cfodive.com/news/microsoft-holds-line-ai-spending-plans/826648/#:~:text=Germany,benefit%E2%80%9D%20to%20the%20company%E2%80%99s%20fiscal)).
- Meta spent $31 /billion on AI in one quarter, causing a 91% drop in free cash flow (to $784 /million) vs a year prior ([www.hngn.com](https://www.hngn.com/articles/272486/20260731/metas-free-cash-flow-falls-91-784-million-ai-infrastructure-spending-surges.htm#:~:text=Wednesday%2C%20but%20the%20company%27s%20free,subsequent%20trading%20following%20the%20report)).
- A 2025 MIT study found 95% of enterprise GenAI pilots failed to show positive ROI in their first 6 months ([www.cio.com](https://www.cio.com/article/4114010/2026-the-year-ai-roi-gets-real.html#:~:text=Shutterstock%20AI%20initiatives%20by%20and,now%20versus%20a%20year%20ago)).

KEY TAKEAWAY

No more blank cheques for AI. As board scrutiny intensifies, senior leaders must demand concrete ROI metrics for every AI initiative and ruthlessly prioritise projects with provable value. Shift from experimenting with flashy AI demos to scaling those few use cases that demonstrably boost revenue, cut costs, or mitigate risks. At the same time, control spiraling cloud and compute expenses - whether by optimising models or embracing open-source tools - to ensure each AI dollar spent drives tangible business impact. The mandate is clear: focus on measurable results or be prepared to redirect resources.

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