

## Measuring AI value is tricky. Here's how CFOs should approach it.

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*Many of AI's benefits — better forecasts, faster decisions, stronger customer engagement — are difficult to quantify, writes Keystone.ai's Aarif Nakhooda.*



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Artificial intelligence holds transformative potential for every sector. And yet, many finance leaders — my peers in the CFO seat — continue to wrestle with a central question: how do we measure its worth?

Worldwide spending on AI is expected to reach unprecedented levels by 2025, reflecting a rapid uptake of AI across industries. According to IDC, global expenditures on AI hardware, software, and services will surpass \$337 billion in 2025 alone. Finance leaders are deeply involved in these decisions. But despite this surge in spending, fewer than half of AI projects reviewed by finance teams are perceived to yield tangible value.

This gap between investment and perceived

return isn't a matter of misunderstanding the technology — it's about outdated evaluation methods.

The CFO's profession is built on frameworks of clarity and accountability. Chief among them is ROI, a metric we use to evaluate investments by comparing up-front costs with quantifiable, time-bound financial gains.

This model works beautifully for tangible investments: a new facility, a logistics upgrade, a performance-based marketing campaign. But AI doesn't fit neatly into that mold.

## Intangible benefits

First, many of AI's benefits are intangible. Better forecasts, faster decisions, stronger customer engagement — these are undeniably valuable, but difficult to quantify. Take a firm that uses AI to personalize its website, causing users to spend more time engaging with its brand.

## Continued: Intangible benefits

That's clearly a good sign, but how much of that behavior converts to revenue? And how much of that engagement would have happened anyway?

Second, AI operates in complex, multifactor environments. Attribution becomes difficult. Suppose we deploy a machine-learning pricing algorithm and observe an increase in sales. Was that due to the AI, a concurrent marketing push, a seasonal spike, or pent-up demand from a restocked item? This problem, long familiar in marketing, is now being felt across operations. Isolating the impact of AI is rarely straightforward.

Third — and most important — AI systems get better with time. Unlike capital equipment that depreciates, AI models appreciate through learning. Traditional ROI assumes linear returns over fixed periods: invest \$10 today, earn \$20 in a year. AI doesn't follow that arc. Gains might be minimal at first but grow exponentially as the system adapts. Capturing that nonlinearity in a conventional financial model is exceedingly difficult.

## Rethinking AI's value

None of this means we should abandon financial discipline. But it does suggest we need to evolve the way we measure value. More forward-looking CFOs are beginning to blend traditional ROI with broader strategic assessments — factoring in intangibles, uncertainty, potential upside, scalability, and long-term learning curves.

Some are adapting frameworks from venture capital or innovation finance, which tolerate early ambiguity in pursuit of long-term gains. Others are developing new internal metrics: "AI-adjusted ROI," for example, or performance dashboards that reflect learning progression, accuracy improvements, and decision velocity.

These tools are more aligned with the nature of AI — and ultimately, more honest about what success looks like.

As AI continues its trajectory toward becoming a general-purpose technology — akin to electricity or the internet — CFOs must transition from financial gatekeepers to strategic enablers. We must view AI not simply as a cost, but as a capability: one that unfolds over time, compounds with use, and resists simple quantification.

The better we become at evaluating AI on its own terms, the faster we can unlock its real value. This shift requires more than new models — it demands a new mindset.

There's a well-known anecdote in executive circles: a CFO asks, "What if we invest in our people and they leave?" The CEO responds, "What if we don't — and they stay?"

I believe AI now requires that same reframing. Yes, we should ask, "What does this cost?" But we must also ask, "What is the cost of waiting?"

In a world where AI is rapidly reshaping competitive advantage, the greatest risk may not lie in making the investment — but in missing it.

*Editor's note: This article is the first in a two-part series. It originally appeared on [CFO Dive](#) on July 8, 2025.*

## About Keystone.AI's Foundation Forecasting

Keystone's next-generation forecasting system combines neural-network forecasting, advanced time-series methods, probabilistic modeling, hierarchical reconciliation, and granular event data.

The result is a fast, integrated application that lets teams build and deploy forecasts instantly—across any horizon, product, customer, or region—directly into existing systems like ERP, S&OP, and WMS.

## Continued: Foundation Forecasting

Built specifically for discrete manufacturers with multi-echelon supply chain, Keystone's forecasting system excels in scenarios with:

- Large SKU portfolios
- Service-level requirements (95-99% OTIF)
- Lumpy, intermittent / periodic demand
- Long lead times or costly changeovers
- High variability in order size and timing
- Need for end-to-end integration (market → supply → finance)

Foundation Forecasting™ replaces disconnected forecasting tools – such as monthly collaborative planning sessions, one off production forecasts, promotional uplift models, S&OP spreadsheets, SKU-by-SKU statistical models – as a single Forecasting system of record that delivers real-time, probabilistic forecasts at every level:

- Fine-grain SKU × Ship-to order forecasts
- Event-level renewal forecasts
- Production and capacity forecasts
- Brand and customer-level demand forecasts
- Long range revenue forecasts

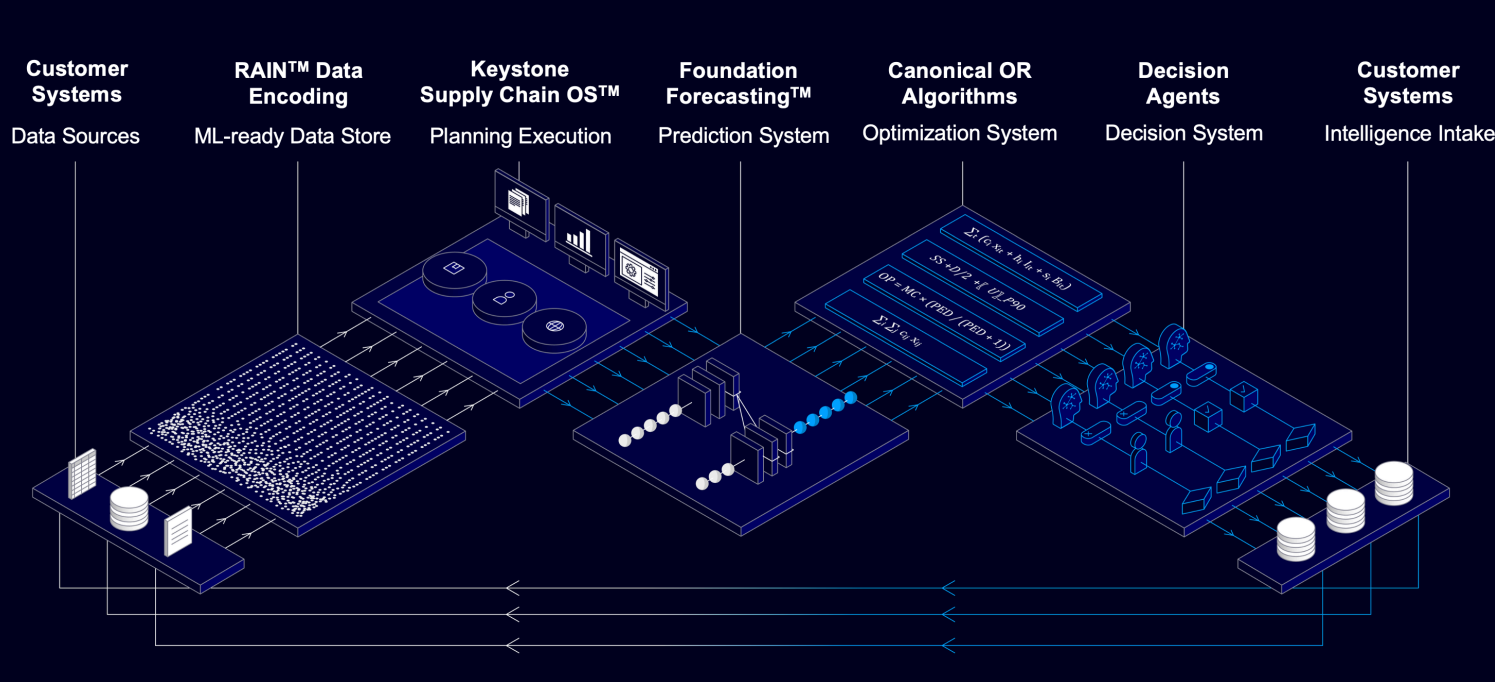
## Delivering Immediate Impact

- Shorten planning cycles and production runs
- Reduce supply chain waste
- unlock working capital
- Improve service levels

# Deep Enterprise™ AI Platform

Keystone's Deep Enterprise™ AI Platform provides the unified data, forecasting, and decision-optimization foundation that manufacturers have historically lacked – transforming fragmented ERP signals, line-item events, and supply chain workflows into a consistent, machine-readable fabric that powers real-time predictive intelligence and decision optimization and automation across the enterprise.

By operating inside our customers cloud perimeter and plugging seamlessly into existing ERP/APS systems rather than replacing them, our platform becomes the enterprise's system of intelligence – continuously updating forecasts, optimizing and orchestrating agent-driven decisions that reduce working capital, increase OTIF, stabilize operations and accelerate planning velocity.



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