

Beyond the Pilot: How Organizations Can Measure AI Value at Scale

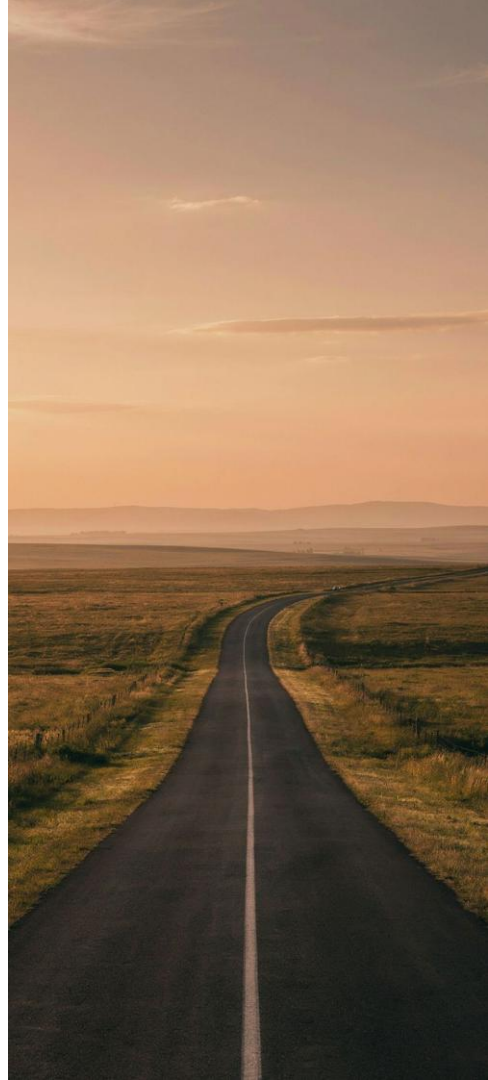
Artificial intelligence is moving rapidly from experimentation to enterprise adoption. But scaling AI successfully requires more than proving that a model, copilot, or agent can perform a task. Organizations need to determine whether those capabilities are creating **measurable, sustainable business value** across productivity, financial performance, quality, adoption, risk, and operational capacity.

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ENTERPRISE AI VALUE

EXECUTIVE BRIEFING

#AI #ArtificialIntelligence #AITransformation #EnterpriseAI #AIValue #AIROI #AgenticAI
#ProgramManagement #ProjectManagement #PMO #PMOLeadership #AIGovernance
#BenefitsRealization #DigitalTransformation #AILEadership #ManagingProjectsTheAgileWay



The Measurement Challenge Changes After the Pilot

Pilots Are Controlled

- Limited number of users
- Clearly defined use cases
- Short measurement periods
- Highly engaged participants
- Close implementation support
- Manageable technology costs

Enterprise AI Is Fundamentally Different

An AI capability may eventually affect hundreds or thousands of employees, multiple business processes, customer interactions, operational decisions, compliance requirements, and technology platforms. A generative AI assistant that initially helps 100 employees may eventually support 10,000.

An AI agent that automates one workflow may eventually interact with multiple systems, trigger downstream processes, make decisions, and escalate exceptions. At that point, measuring only hours saved, prompts generated, or tasks automated provides an **incomplete picture**.

1. Productivity and Capacity

Productivity is one of AI's most visible benefits — but organizations must move beyond asking *how many hours did AI save?* and connect capacity to **measurable business outcomes**.

Measure What AI Enables

Faster completion, greater volume, reduced admin work, shorter cycle times, fewer bottlenecks, and more time on strategic activities.

Ask What Capacity Was Used For

Did employees serve more customers, resolve risks earlier, accelerate product development, or reduce work previously outsourced?

Connect to Business Outcomes

Instead of "AI saved 10,000 hours," report: "AI created 10,000 hours of capacity, enabling an 18% increase in transaction volume without adding headcount."



2. Financial Impact

Value Measures

- Operating cost reduction
- Cost avoidance
- Revenue growth
- Margin improvement
- Reduced outsourcing and contractor expenses
- Lower cost per transaction
- Reduced rework and downtime

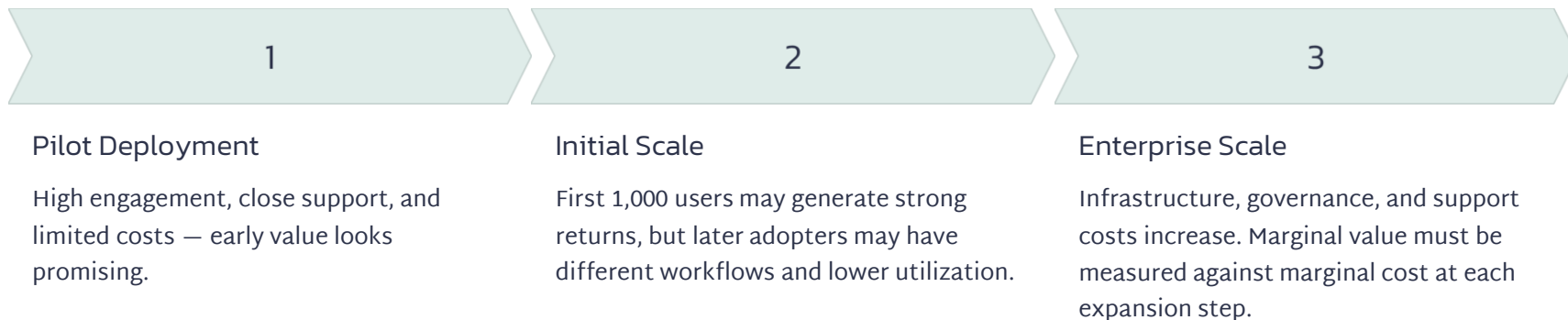
Full Cost of Operating at Scale

Pilots appear inexpensive because enterprise costs haven't materialized. Production introduces platforms, API consumption, cloud infrastructure, data preparation, integration, cybersecurity, governance, monitoring, testing, training, change management, and vendor management.

- ❑ The right question is not *how much value did AI generate?*
It is: **How much net value did AI generate after accounting for the full cost of operating it at scale?**

3. Understand the Economics of Scaling

AI value and AI cost may not scale at the same rate. Organizations cannot assume that pilot economics automatically translate into enterprise economics.



Organizations should continuously ask: **What additional value do we receive from the next level of AI adoption compared with the additional cost required to support it?** Network effects or organizational learning may accelerate value — or the opposite may occur. Either way, measure it.

4. Quality and Performance

Faster does not automatically mean better. If AI reduces processing time but increases errors, rework, or customer complaints, the productivity improvement may not represent real value. The goal is: **Faster + Better + Sustainable.**

Operational Quality Metrics

- Error and defect rates
- Rework and first-pass resolution
- Service-level performance
- Decision consistency
- Customer satisfaction
- Escalation rates

Generative AI-Specific Metrics

- Factual accuracy and relevance
- Hallucination rates
- Human override and acceptance rates
- Failed or incomplete responses
- Output escalations



5. Adoption and Behavior Change

An AI solution cannot generate enterprise value if employees don't use it — or if usage doesn't translate into changed behavior and improved outcomes. Pilot participants are often enthusiastic early adopters; enterprise deployment introduces a much broader population with varying levels of trust and readiness.

Measure Real Adoption

Track active users, frequency of use, adoption by team and business unit, workflow penetration, abandonment rates, and repeat usage — not just license activations.

Avoid Vanity Metrics

"8,000 employees used our AI platform" does not prove value. Ask instead: Are employees using AI achieving better outcomes than comparable workflows without it?

Close the Value Chain

Adoption → Behavior Change → Process Improvement → Business Outcome. If that chain breaks anywhere, value disappears.

6. Risk and Governance

Some of AI's most important value comes from **preventing negative outcomes**. Governance should not be viewed only as a cost or barrier to innovation — effective governance protects the value organizations are working to create.

Monitor Continuously

Compliance exceptions, security incidents, privacy violations, model drift, bias concerns, audit findings, and unauthorized AI usage.

Quantify Risk Reduction

Preventing a compliance violation, detecting fraud earlier, or avoiding an incorrect business decision may create significant economic value — even if it never appears as revenue.

Track Human Oversight

Human intervention rates, model performance issues, and policy violations are leading indicators of where AI governance needs reinforcement.



7. Agentic AI Requires a New Measurement Model

Traditional generative AI helps a person perform work. Agentic AI can increasingly **perform portions of the work itself** — changing the metrics organizations need to track.

Key Agent Metrics

- Tasks completed autonomously
- % of workflow completed without intervention
- Successful task completion rate
- Exception and escalation rate
- Human review requirements
- Cost per completed transaction
- Average processing time
- Failed actions and rework generated

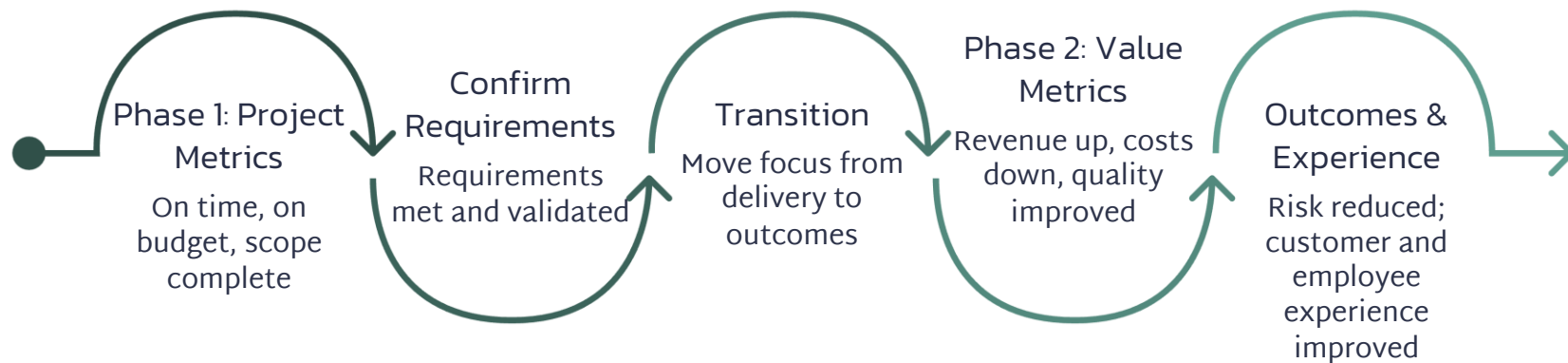
From Activity to Business Performance

Saying "Our AI agent completed 100,000 tasks" tells leadership very little. A stronger measurement connects directly to outcomes:

The AI agent successfully completed **74% of eligible transactions** without human intervention, reduced average handling time by **61%**, and lowered cost per transaction by **23%** while maintaining established quality thresholds.

As organizations deploy more agents, measuring **autonomy with quality and control** becomes critical.

Move From Project Metrics to Value Metrics



Traditional project measures confirm successful delivery. But they do not confirm whether the solution *delivered value*. After implementation, leadership should ask whether business outcomes — revenue, cost, quality, cycle time, risk, customer and employee experience, and organizational capacity — actually improved. That is the difference between measuring AI delivery and measuring AI value.

Establish a Baseline Before Scaling

Meaningful measurement requires comparison. Before expanding any AI solution, capture the performance of the existing process. Without a credible baseline, organizations may know performance changed — but struggle to prove how much value AI actually created.

Measure	Current Baseline	AI Target
Average processing time	45 minutes	20 minutes
Error rate	12%	5%
Cost per transaction	\$18	\$11
First-pass resolution	68%	85%
Weekly employee capacity	100 transactions	140 transactions
Customer satisfaction	82%	90%

When the existing process is inconsistent, use historical ranges, segment by team or workflow type, and document known variation. The objective is not a perfect baseline — it is a **credible baseline**.

Watch for Value Leakage

One of the biggest risks after scaling: the AI solution delivers the expected capability, but portions of the expected business benefit disappear between implementation and operations. The technology may be working — **but the value chain is not.**

Parallel Processing

AI saves employees time — but employees continue performing the old manual process alongside the AI output.

Ignored Recommendations

AI generates recommendations — but managers rarely act on them, so no business improvement materializes.

Exception Overload

An AI agent automates 80% of a workflow — but exceptions require so much manual effort that expected savings disappear.

Downstream Bottlenecks

The model performs well — but downstream systems prevent the organization from acting on results quickly enough to capture the value.

Assign a Benefits Owner

Every major AI initiative should have someone clearly accountable for the business outcome — not the technology, but the **benefit**. Benefits should not become everyone's responsibility, and therefore no one's responsibility.



Technology Owner

Accountable for whether the AI platform operates reliably, securely, and at scale.



Product Owner

Accountable for whether the capability meets user needs and is fit for purpose.



Business Owner

Accountable for whether the underlying process actually improves as intended.

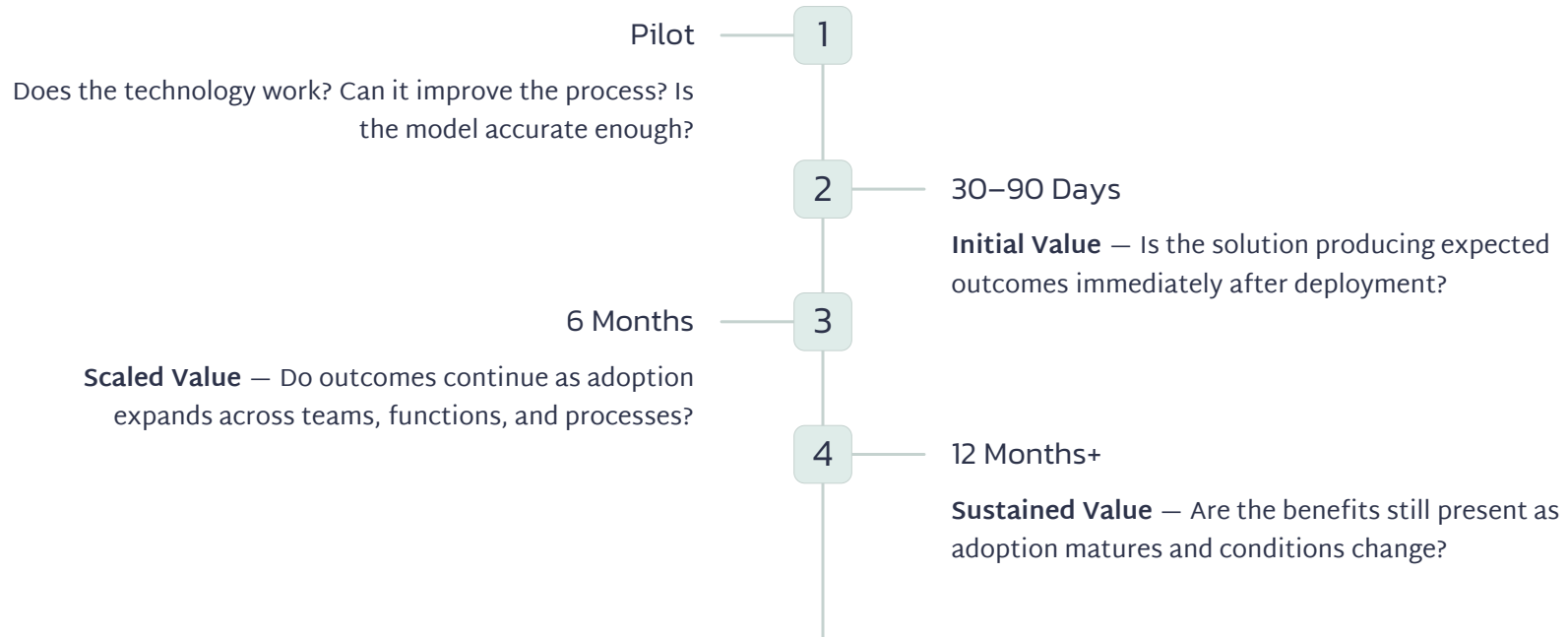


Benefits Owner

Accountable for whether the expected business value is realized — and for proving it with evidence.

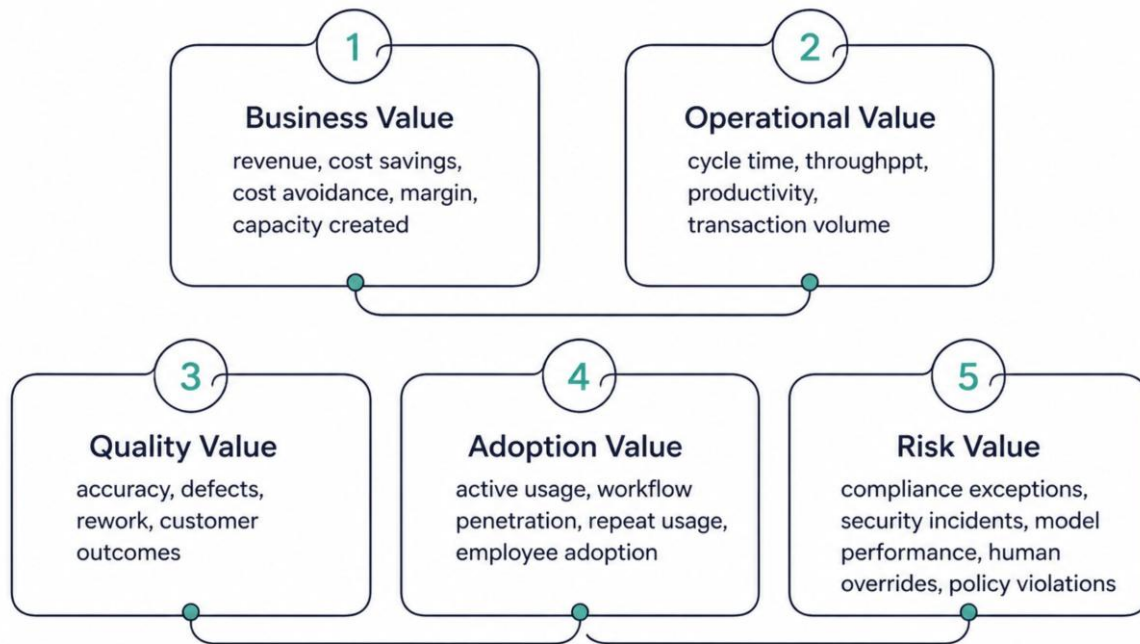
Measure Value Over Time

AI value should never be measured once. Models change, data changes, employees change how they work, and costs evolve. Organizations should measure across three stages to turn AI measurement into an **ongoing management discipline**.



Create an Enterprise AI Value Scorecard

Executives should not review dozens of technical metrics to determine whether an AI investment is working. A practical scorecard brings the most important measures together — tied directly to the business case that justified the investment.



Move From AI Project Management to AI Portfolio Management

Once an organization has dozens of AI initiatives, measuring each independently is no longer enough. Leadership needs a **portfolio view** — allocating investment based on realized value, not just delivery status.

Initiative A

High value, high adoption, low risk →
Scale aggressively

Initiative B

High potential, low adoption → **Improve
change management**

Initiative C

Moderate value, rising costs → **Redesign
operating model**

Initiative D

Low value, high risk → **Stop or restructure**

Initiative E

Strong pilot, declining scale benefits → **Investigate value
leakage**

The strategic question is not *Which AI projects are green?* It is: **Where should the next dollar of AI investment go?**



Know When to Scale — and When to Stop

The most important reason to measure AI value is not to prove that every initiative succeeded. It is to make **better investment decisions**.

Scale

Initiatives demonstrating strong, sustainable value with proven unit economics across a growing user base.

Improve

Initiatives showing potential but missing specific targets — address adoption gaps, workflow redesign, or governance shortfalls.

Redesign

Solutions where workflows, adoption patterns, quality results, or operating models are limiting the ability to capture value.

Stop

Initiatives that cannot demonstrate sufficient business value. Continuing to fund poor performers because of sunk cost is far more expensive than stopping.

The PMO Has an Important Role in AI Value Realization

AI teams understand models. Technology teams understand platforms. Finance understands financial performance. Business leaders understand operational outcomes. The PMO has a unique opportunity — and responsibility — to **connect them all**.

From Delivery Oversight

Are our AI projects on schedule and on budget? Did we complete the scope and meet the technical requirements?

To Enterprise Value Management

The PMO can help establish standard value frameworks, baseline requirements, benefits owners, measurement cadences, executive scorecards, portfolio comparisons, benefits realization reviews, and scale/stop decisions — answering the more important question:

Are our AI investments producing the business outcomes we expected?

The Leadership Question Has Changed

During the experimentation phase, organizations asked: *"Can we use AI here?"* As AI matures, the questions that matter are fundamentally different.



Where is the value?

What measurable business value are we receiving — and is it increasing or decreasing as we scale?



Should we continue?

Should we continue investing in AI here — or redirect resources toward higher-value initiatives?



Where do we invest next?

Which AI investments deserve the next dollar — based on realized outcomes, not deployment activity?

The goal is not to deploy more AI, purchase more copilots, build more agents, or automate more tasks. The goal is to **create more business value — and be able to prove it**. That is the difference between experimenting with AI and truly operating AI at enterprise scale.

BEYOND THE PILOT: HOW ORGANIZATIONS CAN MEASURE AI VALUE AT SCALE

Pilots prove AI can work.
Value at scale proves it drives
real business impact.



DEFINE VALUE
Connect AI outcomes
to business goals
and key metrics.



ESTABLISH BASELINE
Capture current
performance to
measure true impact.



TRACK & MEASURE
Monitor performance
across multiple
dimensions over time.



OPTIMIZE & SCALE
Use insights to improve,
invest, or pivot with
confidence.



AI VALUE SCORECARD



PRODUCTIVITY
+38%
Cycle Time
Improvement



FINANCIAL IMPACT
\$2.4M
Annual
Cost Savings



QUALITY
-47%
Error Rate
Reduction



ADOPTION
82%
Active User
Adoption



RISK REDUCTION
-60%
Compliance
Exceptions

MEASURE ACROSS WHAT MATTERS



Productivity



Financial



Quality



Adoption



Risk

THE SHIFT



FROM
Did the AI
pilot work?



TO
Is AI creating
sustainable
business value
at scale?



START WITH BUSINESS GOALS
Align metrics to the outcomes
that matter most.



USE A BASELINE
Measure against current state
for meaningful results.



TRACK CONTINUOUSLY
Monitor value over time—
not just at go-live.



MAKE SMART DECISIONS
Scale what works, improve
what can, and stop what
doesn't deliver value.



TURN INSIGHTS INTO IMPACT
Connect AI performance to
real business outcomes.



Kimberly Wiethoff, MBA, PMP, PMI-ACP
Senior Program Manager | AI-Enabled Delivery Leader
Managing Projects the Agile Way



What gets measured gets managed.
What gets managed delivers value.

Measure AI. Prove value. Drive results.



Read the full article in my
latest newsletter.
Managing Projects the Agile Way