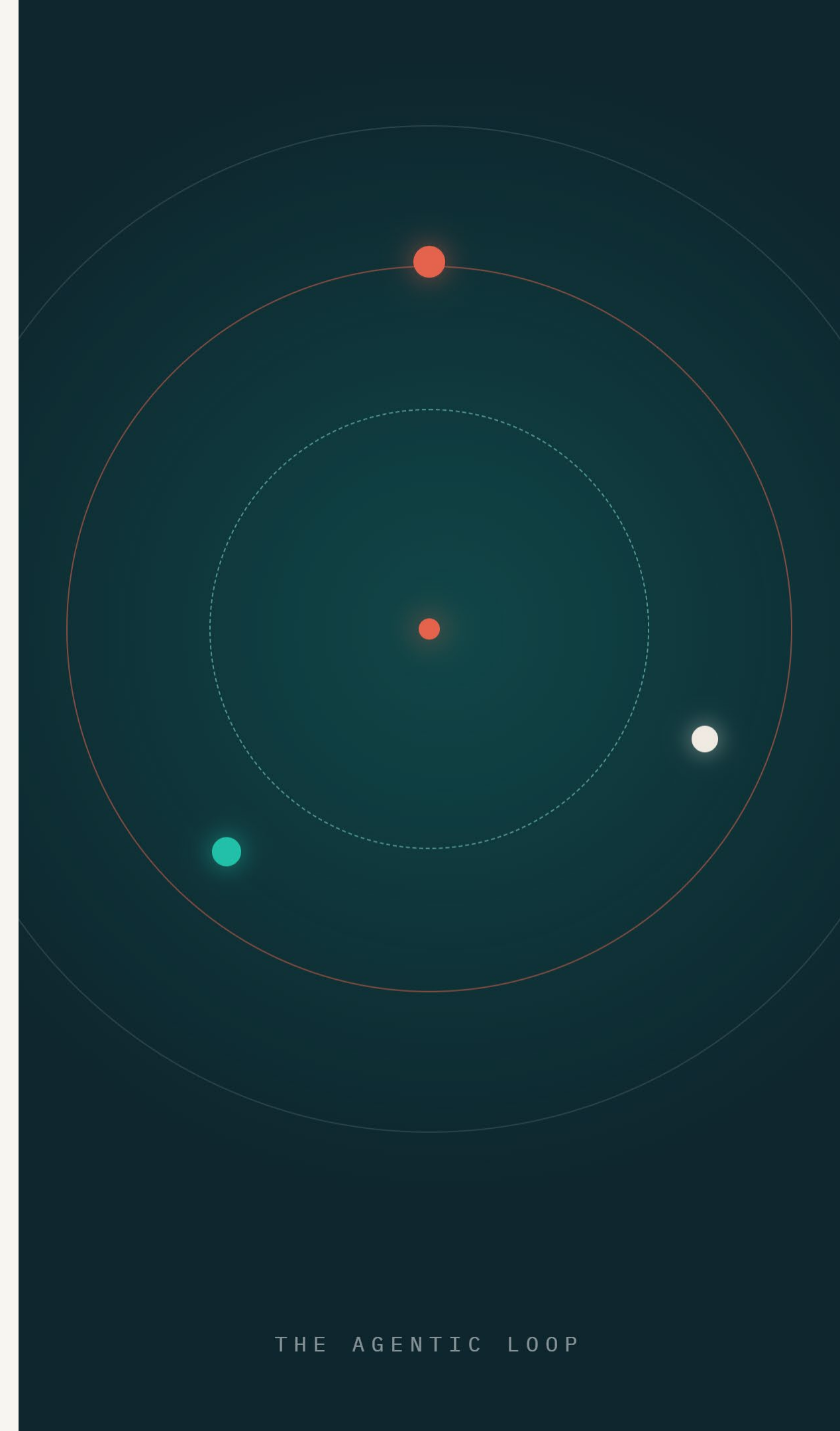


— TECHNICAL BRIEFING

Agentic SDLC

Build the capability once. Accelerate every project thereafter.





01

Current SDLC Challenges

Despite Agile and DevOps adoption, software teams continue to face challenges in speed, quality, scalability and cost efficiency.

SDLC CHALLENGES THE IMPACT THE SHIFT

Current SDLC — Challenges And Friction Areas.

Reviewing the structural gaps that prevent today's manual, effort-dependent SDLC from scaling effectively.



Accelerating delivery Demands

Every quarter asks more of the same team, while cloud, integration and security complexity compounds the load.



Repetitive work dominates sprints

Boilerplate coding, testing, reviews and documentation crowd out design and judgment.



Knowledge locked in a few heads

SME dependencies and silos become delivery bottlenecks — and key-person risk.



Rising development cost and technical debt

Every new enhancement becomes slower, riskier, more expensive and takes longer to deliver.



Defects surface late — where they cost most

Problems appear in testing or production, the most expensive place to fix them, while technical debt keeps piling up.



InfoWorld / IDC

16–24%

of developer time is spent on writing code



LinearB

4+ days

average wait for a pull-request review



SonarSource

35%

of engineering effort goes to maintenance, testing and security fixes



IT Pro

81%

of developers report growing code-review workloads

AI is already Delivering Measurable Impact - but disjointed



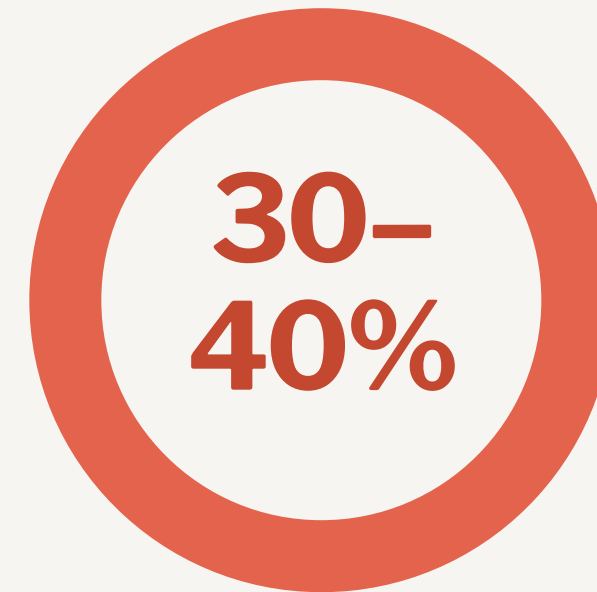
faster on controlled coding tasks

GitHub / MIT • 95 devs



of developers using or planning to use AI

Stack Overflow 2025



less time on tests, debugging and repetitive code

Copilot field study

9.6 → 2.4 days

to open a pull request, with AI assistance

GitHub enterprise data

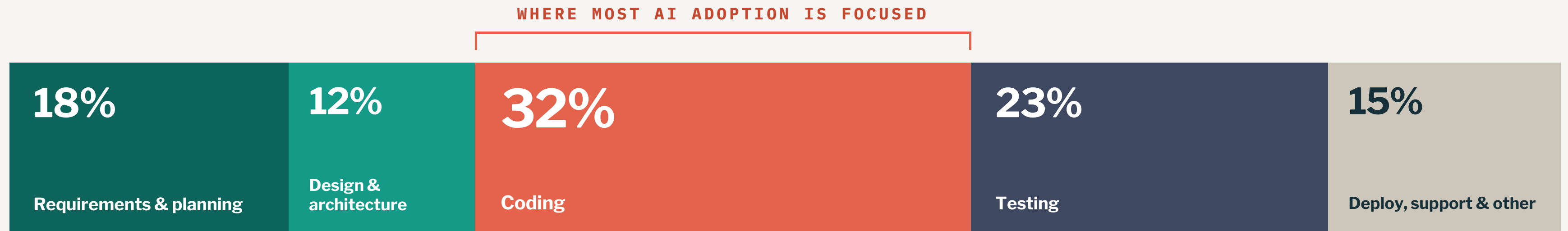
6 hrs / week

average time saved per developer using AI

McKinsey 2025 survey

AI adoption is real & growing—**but remains disjointed**, delivering isolated productivity gains through tools such as AI coding assistants rather than accelerating the entire SDLC.

Coding is only one-third of delivery. **Most AI adoption stops there.**



~70%

of the lifecycle is untouched by coding assistants — the larger prize is augmenting the rest. **The next competitive advantage won't be better developers: it will be agent-accelerated software engineering** across requirements, design, testing, deployment and support.

AI Opportunity is beyond Coding. Every stage contains repeatable, organization-specific work that can be accelerated through AI agents.



02

Agentic SDLC

Human controlled agentic software factory. Built once, reused by every project at scale and speed.

BEYOND CODING THE AGENT CHAIN MONTHS → WEEKS

Agentic SDLC — Automation at scale

Agentic SDLC uses **interconnected AI agents** to augment every stage of software delivery—from business requirements to production operations—creating a continuous, context-aware process with **human-in-loop** approach.

Agentic SDLC — Human-in-Loop System

 **Agentic platform**
Built once · Powers every agent

Organizational knowledge
Domain · Decisions · History

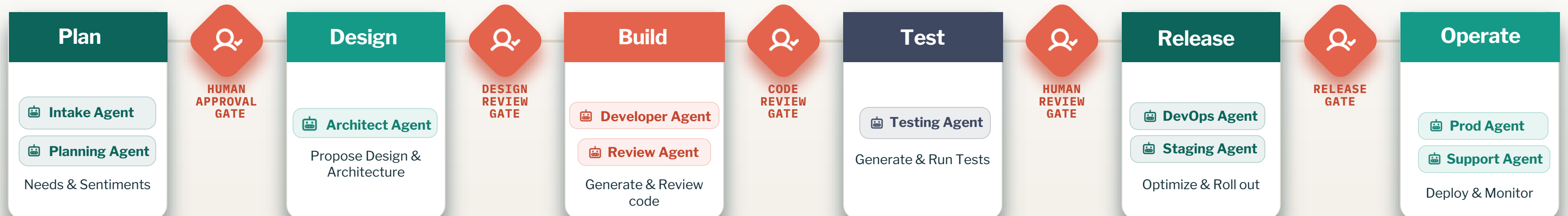
Engineering standards
Patterns · Quality bars

Toolchain & data
Systems · Pipelines · Context

Governance & guardrails
Policy · Audit · Controls


COMPOUNDS

▼ PLATFORM POWERS EVERY SDLC AGENT ▼



 **Human-in-the-loop gate** | A human approves at every stage boundary — agents only proceed on human sign-off, with a full audit trail.

Agents learn how you build software.

01

Discovery

Analyze repositories, platforms and processes; interview architects, developers, QA and DevOps.



02

Knowledge consolidation

Capture reusable standards, patterns, frameworks and best practice; identify high-value skills.



03

Tool integration

Connect source control, CI/CD, testing, observability and data — with secure, governed agent access.



04

Composition & validation

Build requirements, architecture, development, testing and DevOps agents; benchmark against your quality bar.



Preparation & Hypotheses

Agent Definition & Architecture

Implementation

Agent Activation

Scope Framing & Problem Definition

Simulation & Proof of Value

Testing & Validation

Learning, Governance & Evals

Intelligent Orchestration

End-to-End Visibility

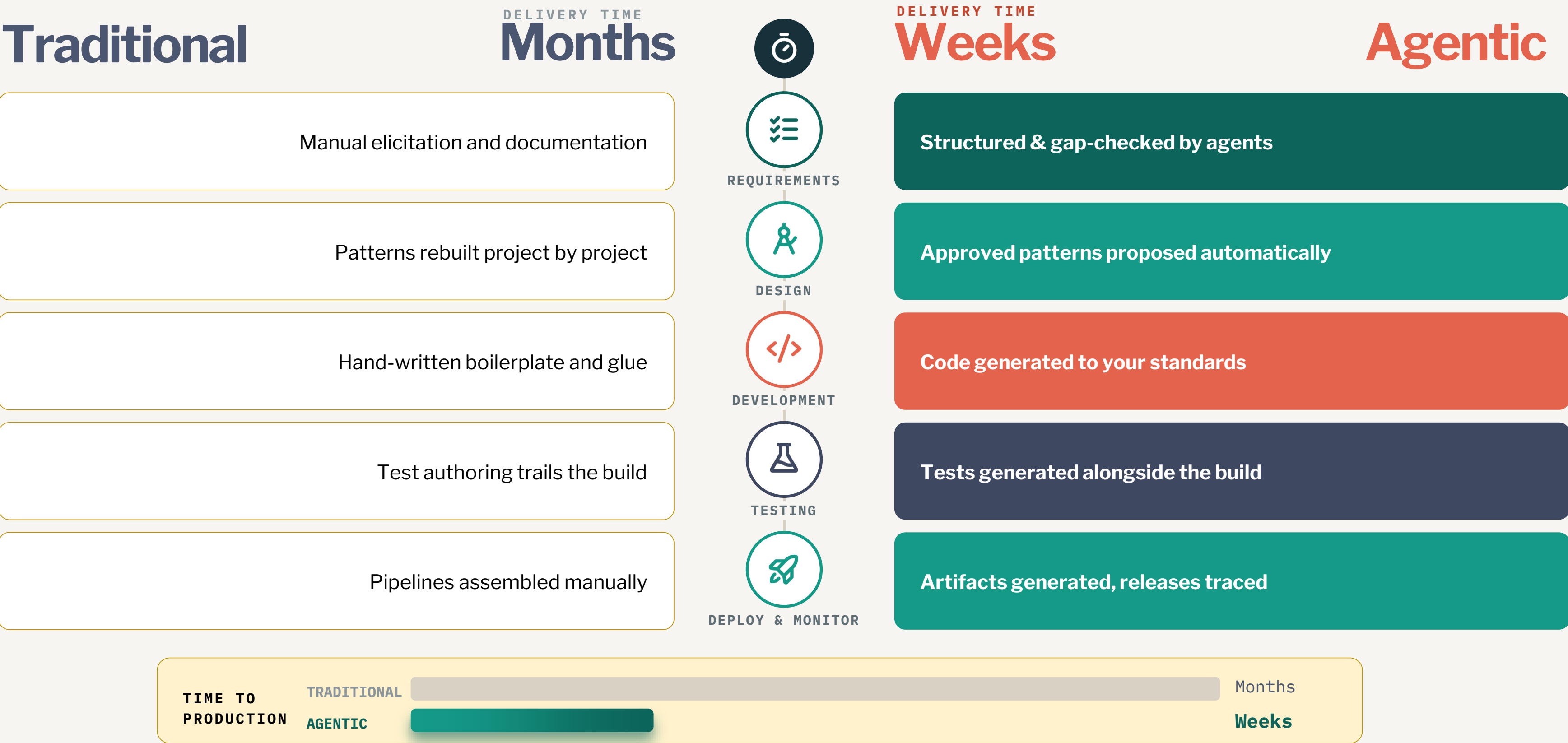
Human-in-the-Loop Governance

3 Pillars



The result is a reusable organizational capability that keeps learning — **compounding benefits** for every future project.

Agentic SDLC — Faster. Secure. Reusable.





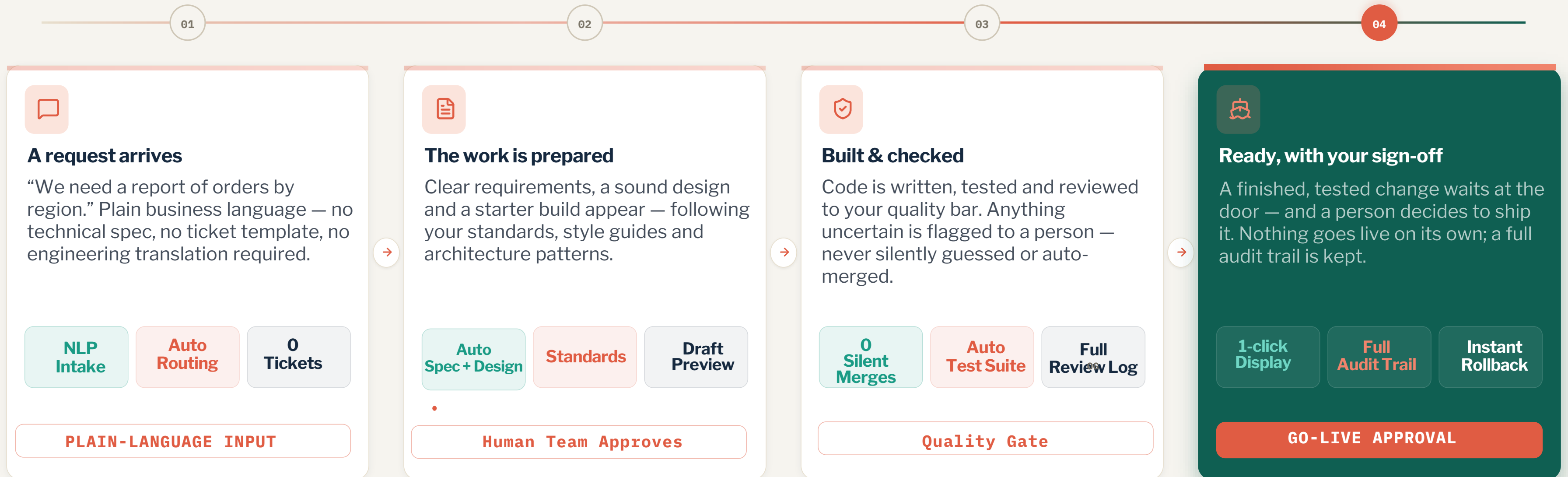
03

Agentic SDLC in Action

AI agents collaborate seamlessly across the entire lifecycle—from the initial request through production deployment.

SDLC ACTION THE AGENT CHAIN MONTHS → WEEKS

Request workflow in Agentic SDLC — **human review at every gate.**



The platform speeds the work *between* decisions. **The decisions remain yours.**

Every gate is a deliberate human checkpoint — not a formality. Control stays with your team at each stage of the pipeline.



04

Agentic SDLC - The Value

Measured in your KPIs — velocity, capacity, quality, throughput. And unlike tooling, this asset appreciates.

THE CIO SCORECARD THE COMPOUNDING ASSET

Immediate project **benefits** you can put on a **scorecard**.

TIME TO MARKET

#1 PRIORITY



Months → Weeks

30–60% faster — BRD to production.

REVENUE IMPACT



Revenue, sooner

Faster launches pull revenue forward — every week earlier compounds.

COST PER RELEASE



25–50% lower

per release & iteration, as the platform is reused

DELIVERY THROUGHPUT



30–50% higher

more shipped with the same team

QUALITY & GOVERNANCE

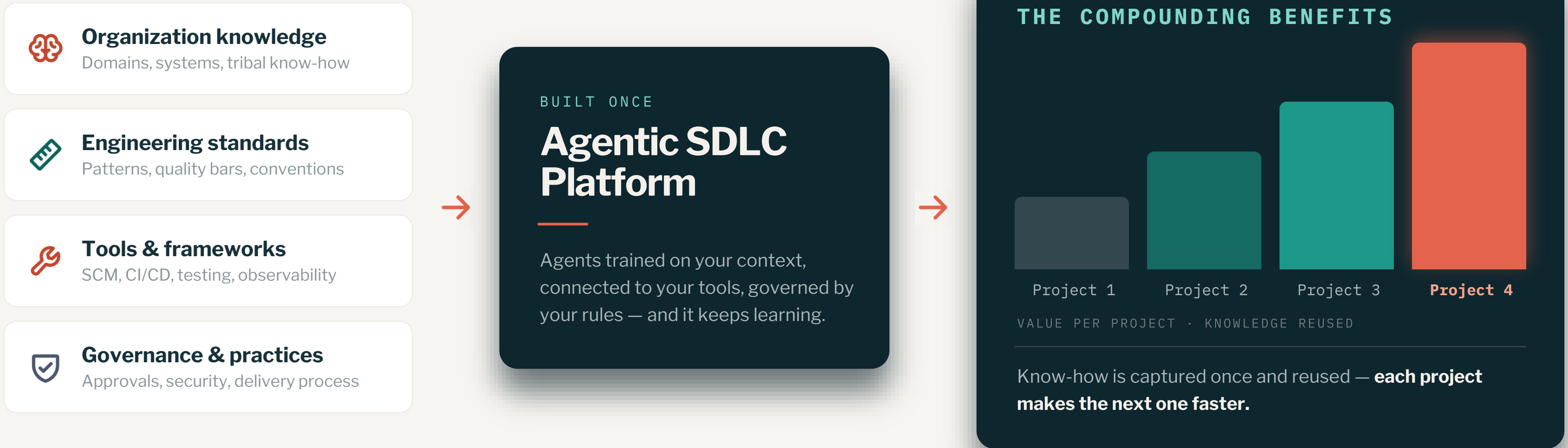
100%

traceable

- ✓ Quality gates
- ✓ Decision logs

- ✓ Generated docs
- ✓ Full audit trail

Compounding benefits from the **platform**.



Generic agents lack your organizational context. Value **compounds** when agents are trained on your standards and consistently deliver outputs with minimal rework.

Long term **Institutional Advantages.**

KNOWLEDGE

Institutionalized Knowledge

Knowhow compounds in the platform instead of leaving with people

GOVERNANCE

Human-in-Loop

Human oversight turns institutional knowledge and standards into continuously improving, governed reusable agent capabilities.

PEOPLE

People Amplified

Engineers move from boilerplate to architecture and judgement - higher value work

ONBOARDING

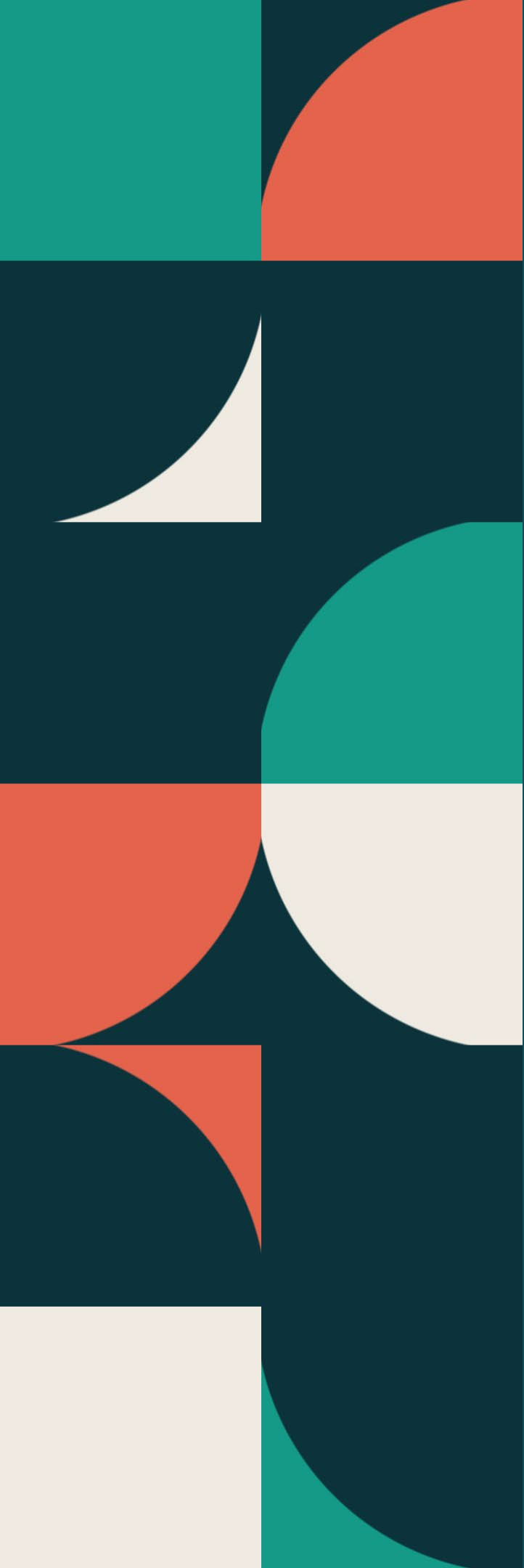
Faster Ramp-up

People and Agents onboard on your encoded context - Scaling a team stops being a linear cost

READINESS

Future Ready Org

A compounding capability absorbs new tools and models, so the org keeps its lead.



05

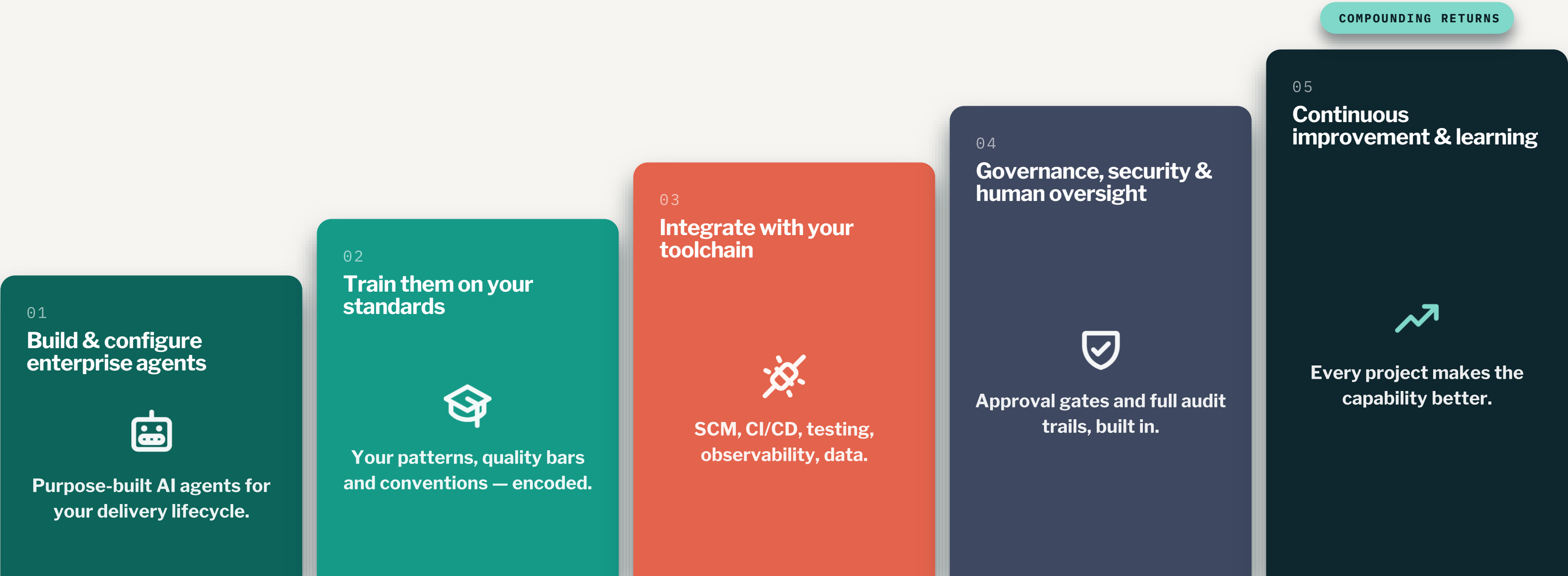
Why CoreAI?

The team behind the capability — how we deliver it, and the enterprises that already trust us with it.

THE DELIVERY MODEL THE TRACK RECORD

Core AI delivers —end-to-end Agentic SDLC deployment.

A secure, governed, reusable AI engineering capability for your organization — beyond simply deploying AI tools.



PILOT

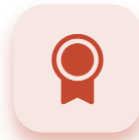


SCALE

Start anywhere on the curve — we join at strategy, build, or full-scale rollout.

Why CoreAI?

AI-driven engineering, business-focused outcomes.



Proven competency

Demonstrated across business domains, technologies and complex use cases.



Technology depth

Specialization in leading-edge technology, delivered with quality.



Agentic-AI efficiency

We use agentic delivery ourselves — faster, higher-quality outcomes.



Outcome-driven

Real business problems, end-to-end solutions, measurable results.



Trusted strategic partner • Beyond delivery — helping clients decide well and succeed long-term. When you need us, we are there.

200+

Successful engagements across industries

F500

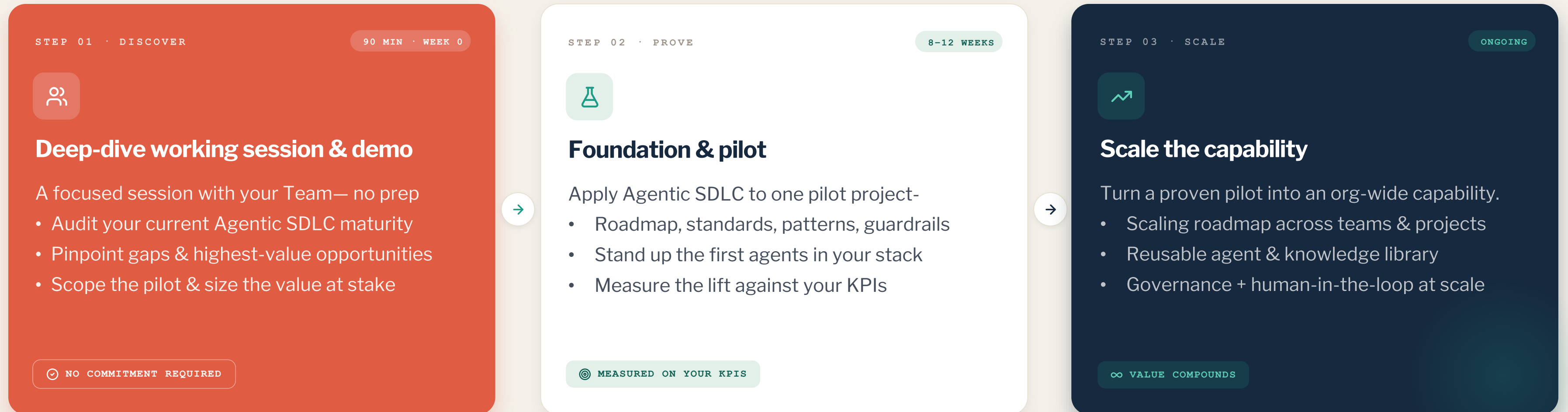
Trusted by Fortune 500 clients across sectors

20+

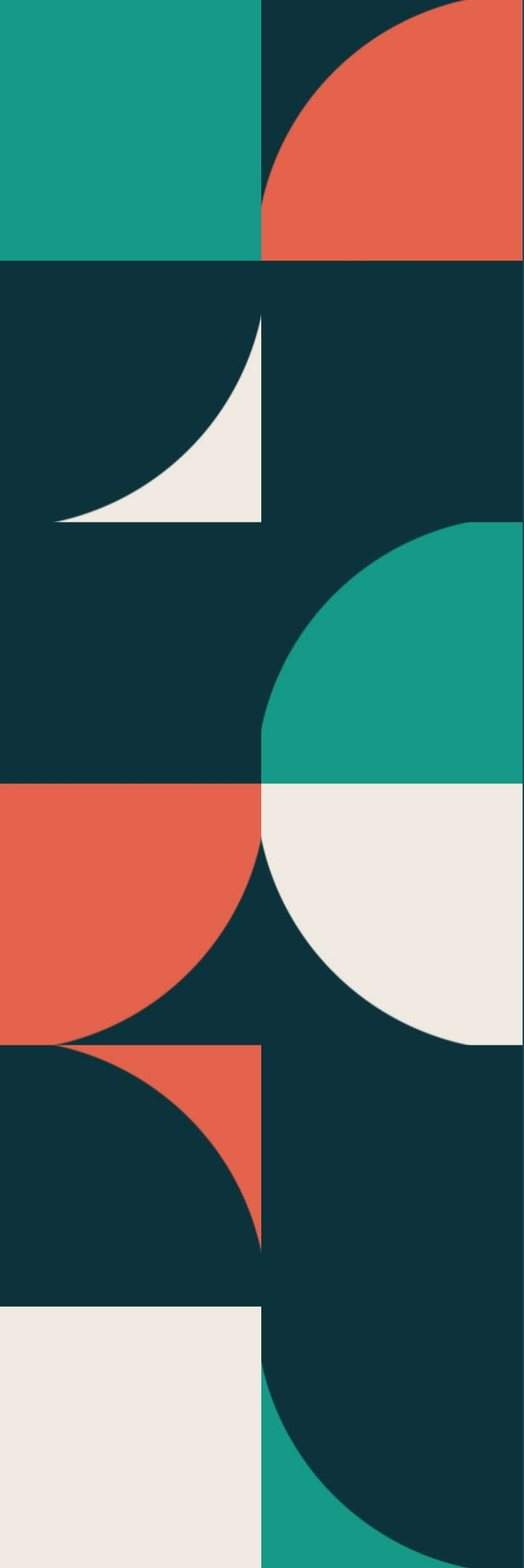
Agentic SDLC Implementations

Review Demo. Conduct Pilot. **Then scale.**

Three moves from first conversation to a compounding capability — low risk to start, value that grows with every project.



YOUR NEXT STEP
Start with the 90-minute working session & demo



**Build Agentic Capability Once.
Accelerate Every Software
Project Thereafter.**

Watch Agentic SDLC in Action – Schedule Demo

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602-334-9964