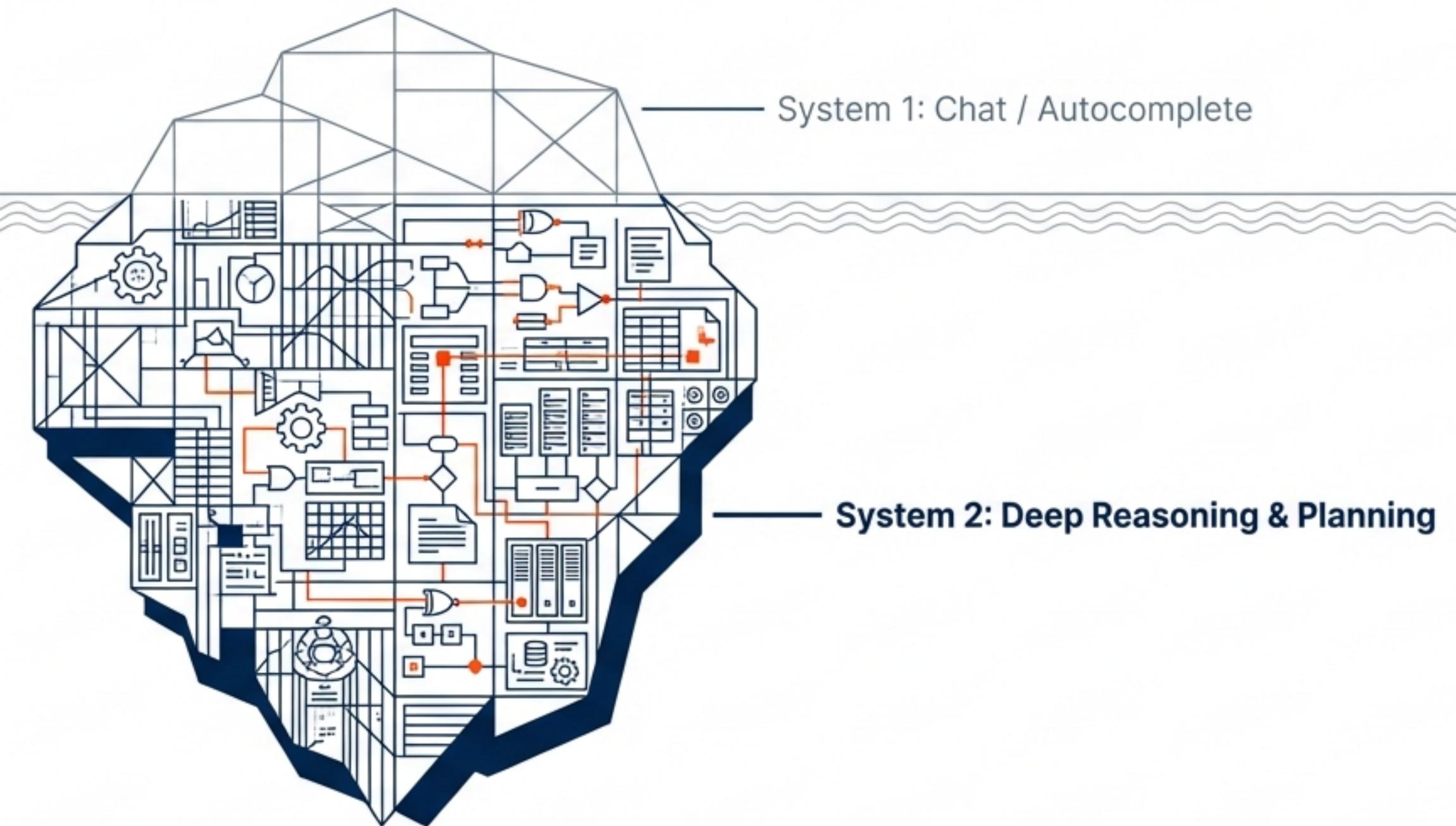


Blitzy: The Dawn of System 2 AI Engineering

Autonomous Software Development through Inference-Time Reasoning



Blitzy represents the first enterprise platform engineered specifically for 'Inference-Time Scaling'—moving beyond the constraints of real-time copilots to solve immense architectural challenges.

EXECUTIVE SNAPSHOT

Blitzy

FOUNDING DNA	BACKING & CAPITAL	MARKET SIGNAL	
<ul style="list-style-type: none">Sid Pardeshi (Ex-NVIDIA, 25+ GenAI patents, Cloud Gaming Inventor)Brian Elliott (Serial Entrepreneur, West Point Systems Engineer)	<p>\$4.4M SEED ROUND</p> <ul style="list-style-type: none">Link VenturesBessemerFlybridgeNFX	<p>The “Why Now”</p> <p>“Compress 6-month projects into 6-day deliverables.”</p>	<p>86.8%</p> <p>SWE-bench Verified Score</p> <p>Industry Leader (Previous SOTA: ~73%)</p>

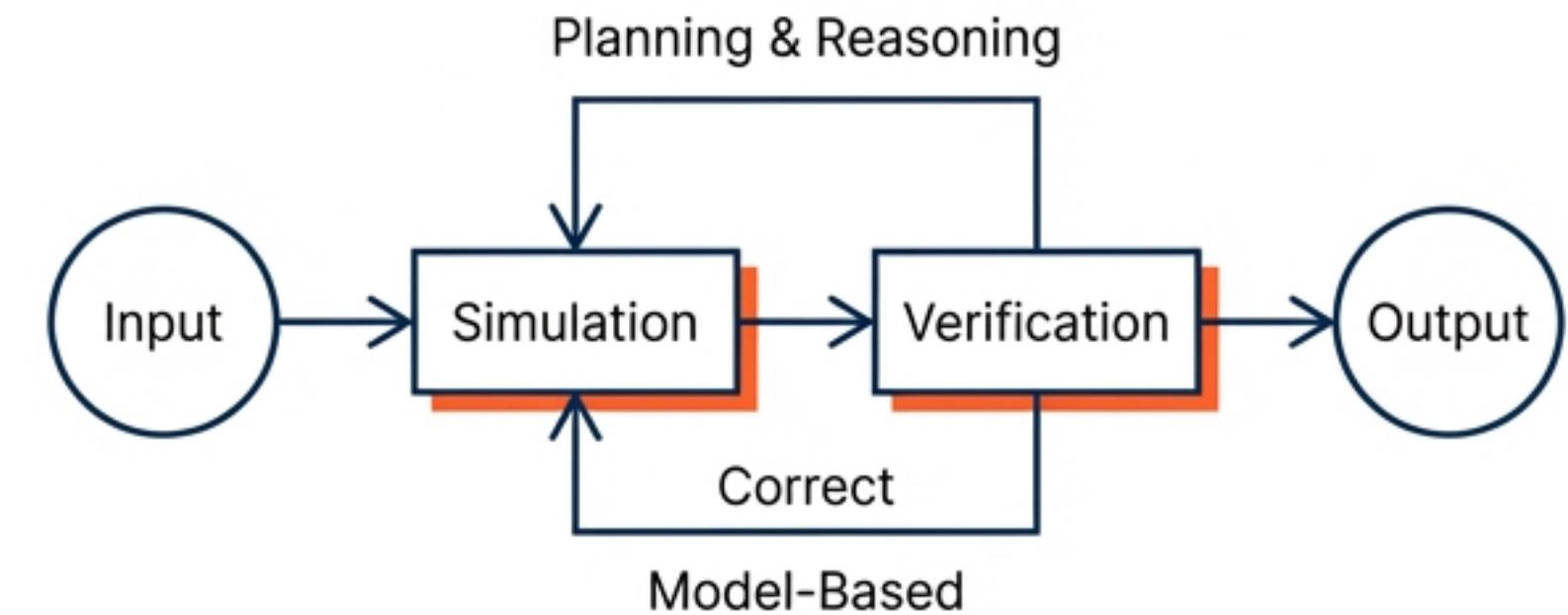
The Cognitive Limit: Why 'Fast Thinking' Fails at Scale

System 1 (Current AI)



Fast, Intuitive, Automatic.
Used by Copilots/Cursor.
Prone to hallucination.
Zero planning time.

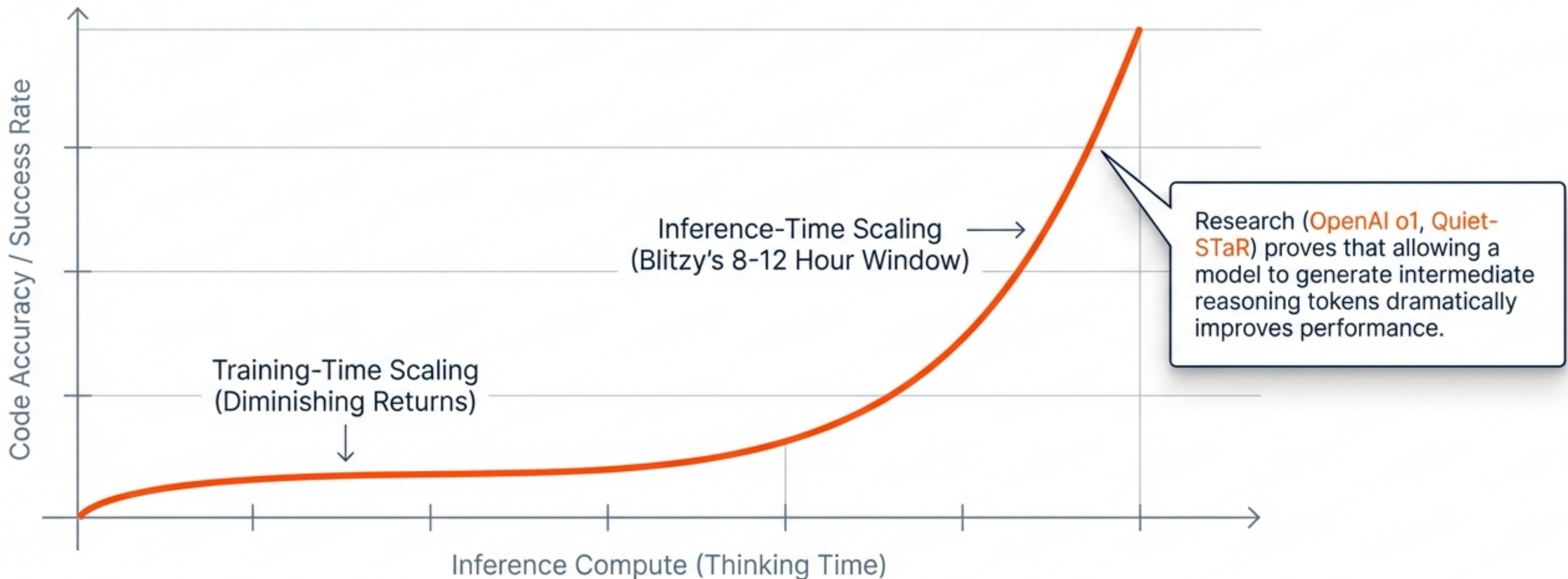
System 2 (Blitzy Paradigm)



Slow, Deliberate, Conscious.
Required for complex architecture.
Uses simulation and verification before
outputting code.

The Gap: Current LLMs operate on a predetermined track. They lack the luxury of time to simulate, verify, and correct.

The Physics of Intelligence: Inference-Time Scaling



Blitz's Bet: Unlike a chatbot that must reply in seconds, Blitz takes 8-12 hours to explore solution paths, self-correct, and verify against the entire codebase.

The Solution: Autonomous Batch Building

Don't guess in 2 seconds. Reason for 12 hours.



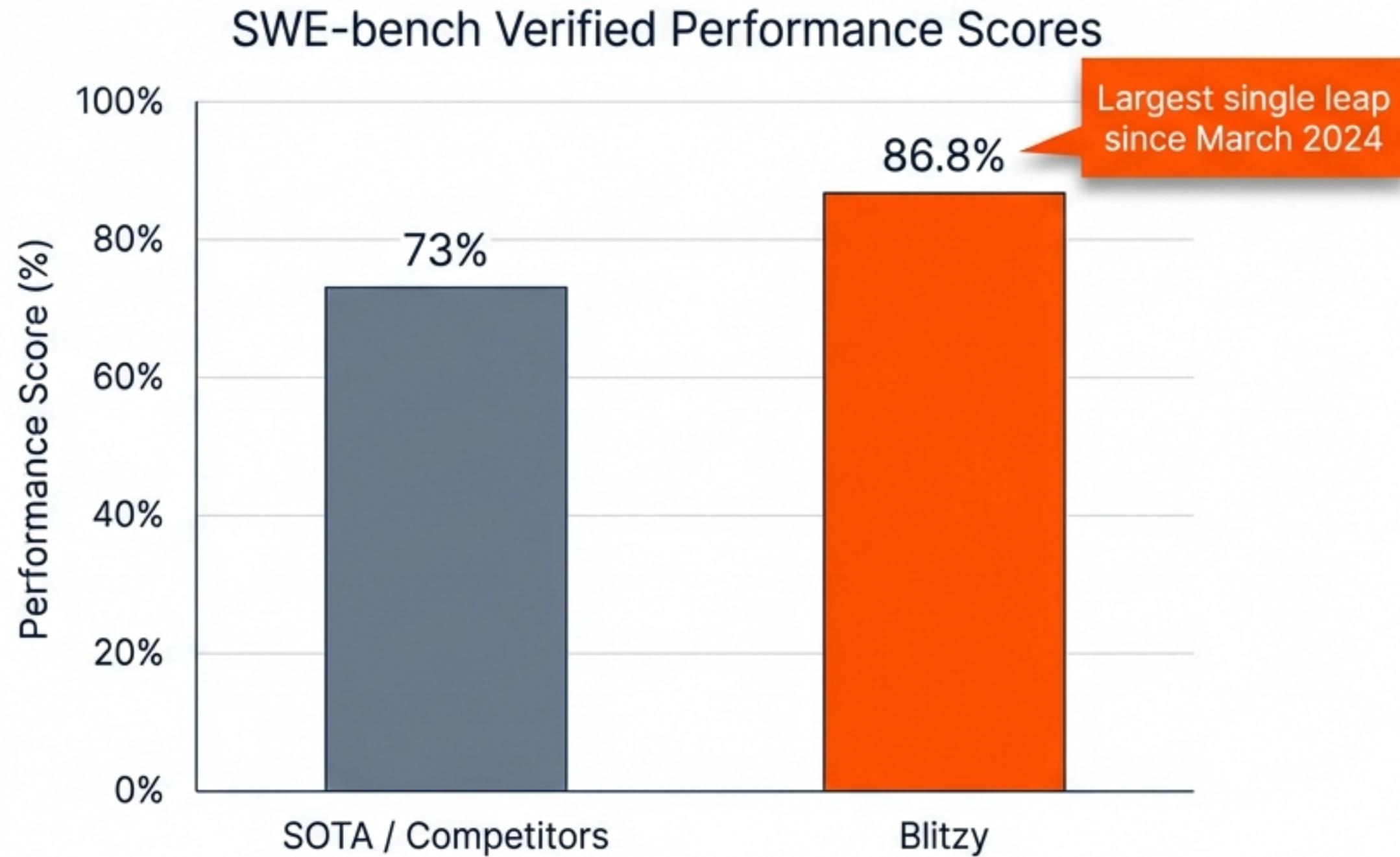
PRDs, Technical Specs,
Repo Access

8-12 Hours. Asynchronous,
Multi-Agent Work.
"While you sleep".

Pull Request.
80% Complete.
Pre-compiled & Pre-tested.

Differentiation: Unlike inline suggestions, Blitzy creates entire features, refactors architectures, and writes documentation.

Validating the Thesis: The SWE-bench Breakthrough

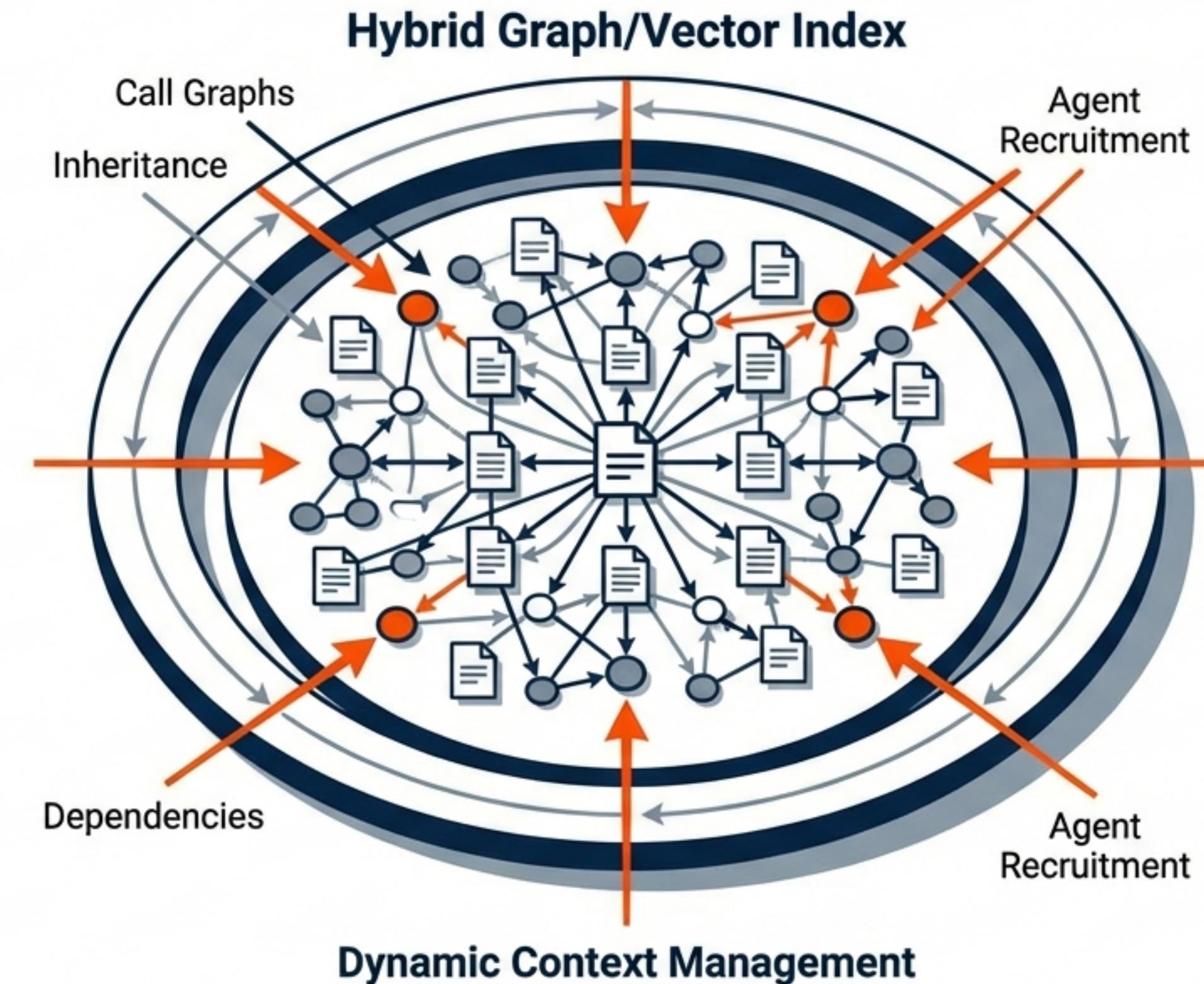


Context & Methodology

- Solved 30 of 74 historically unsolved tasks.
- Achieved via single-shot patching without 'best-of-k' scaffolding.
- Mirrors real production constraints (no training set leakage).

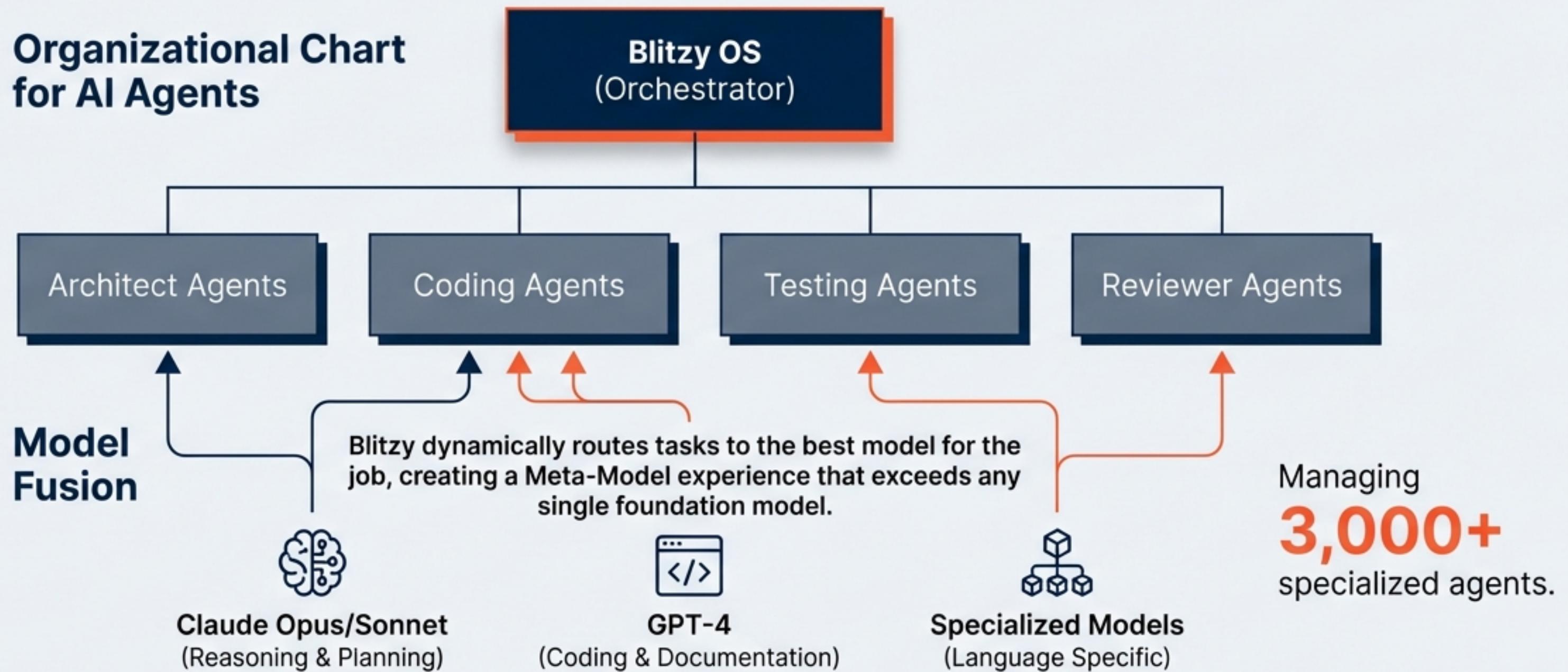
Under the Hood: Infinite Code Context

The Problem:
Standard LLMs choke on large context windows, forgetting logic buried in distant files.

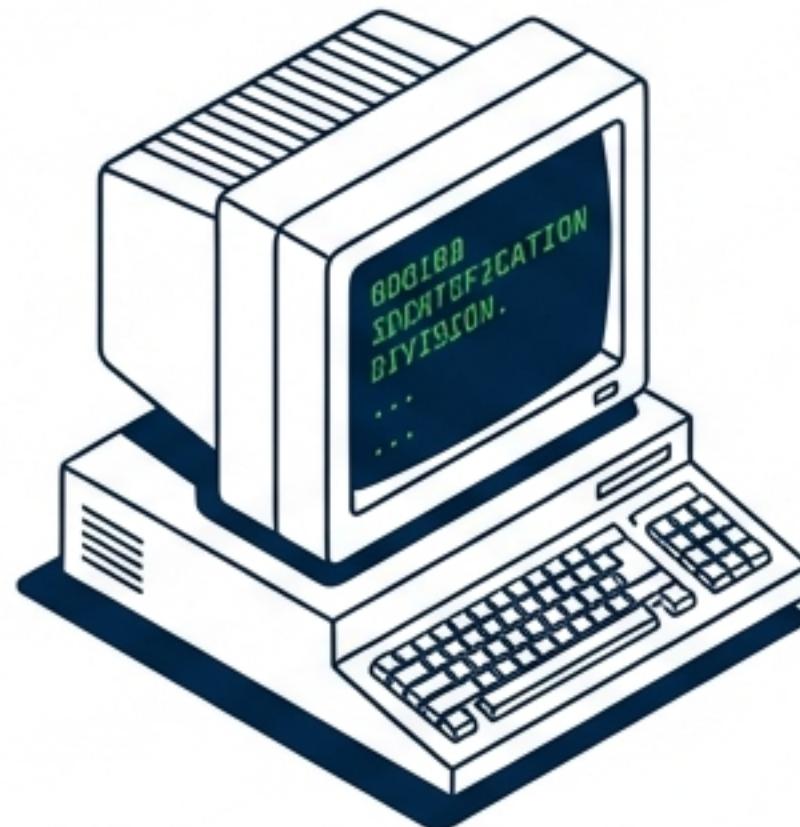


The Solution:
Virtualizes the Abstract Syntax Tree (AST).
Effectively handles **10M to 100M+ line codebases** by recruiting only relevant context.

The Workforce: Multi-Agent Orchestration & Model Fusion



Primary Use Case: Legacy Modernization



Legacy
(COBOL)

Autonomous Translation



Modern
(Java 21)

Case Study: Credit Card Processing System

- Timeline: 8.5 Hours Autonomous Processing
- Output: 660 commits across 328 files
- Result: 95% Completion Rate
- Logic: Mathematically equivalent, infrastructure modernized.

Solving the “COBOL Cliff”: Financial systems run on dying languages.
Blitz preserves business logic while moving to modern infrastructure.

The Architect's Janitor: Tech Debt & Security

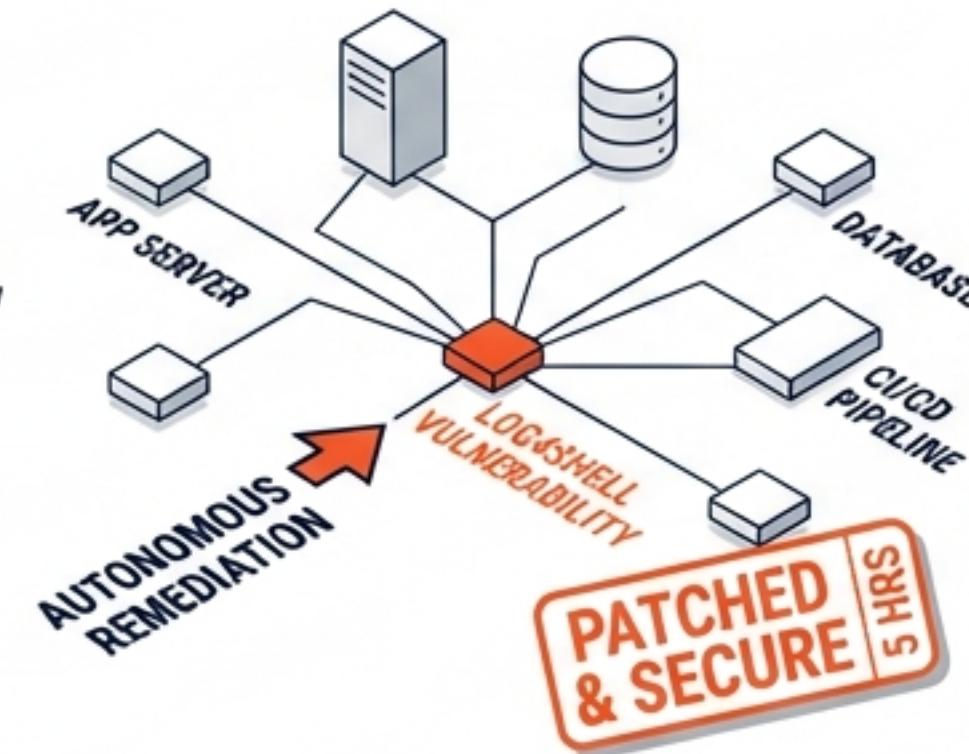
Automating the work humans hate but businesses require.

Case Study: Log4Shell Remediation

- **Severity:** 10/10 Critical
- **Human Estimate:** Weeks of manual panic
- **Blitz Actual:** Fixed in 5 hours autonomously

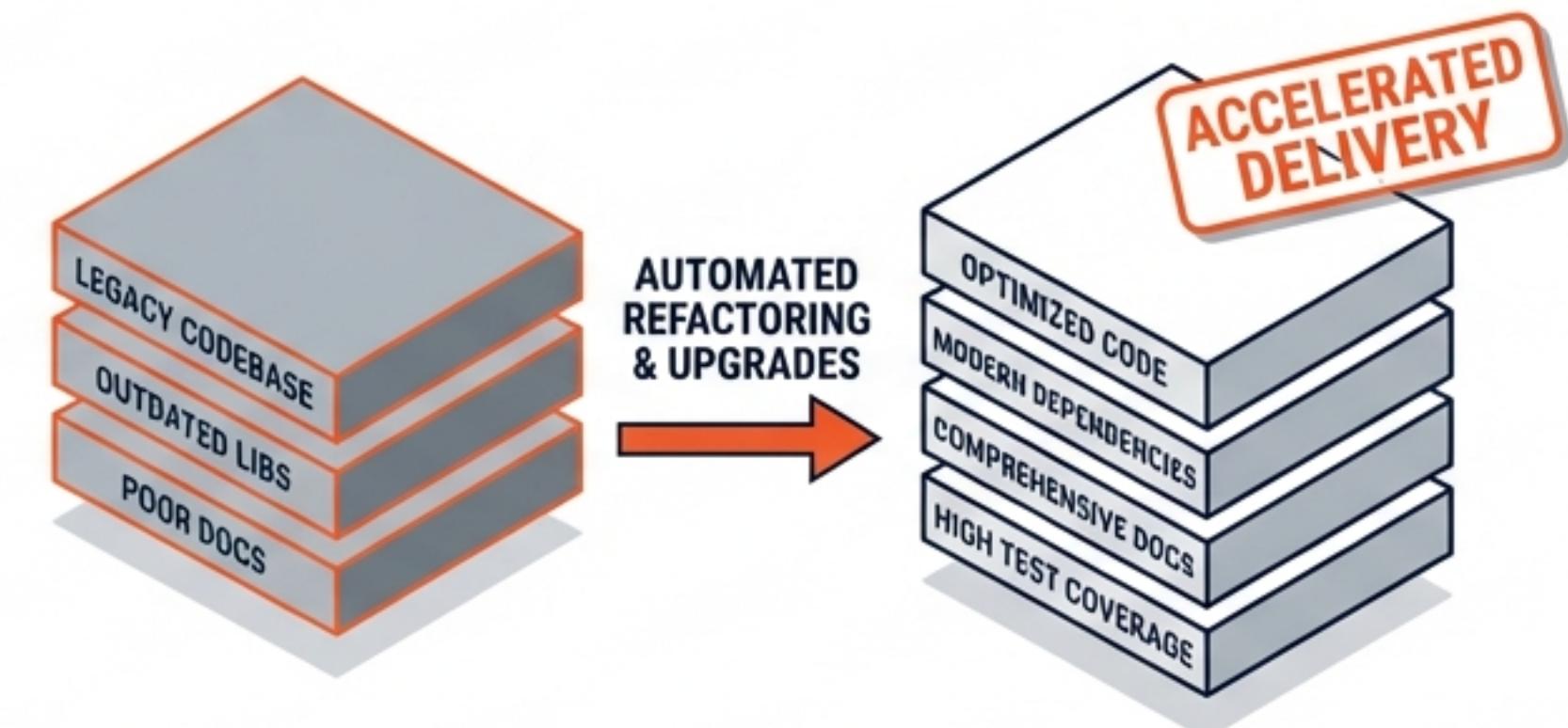
Action:

- Analyzed code, implemented patch, generated tests, documented changes.

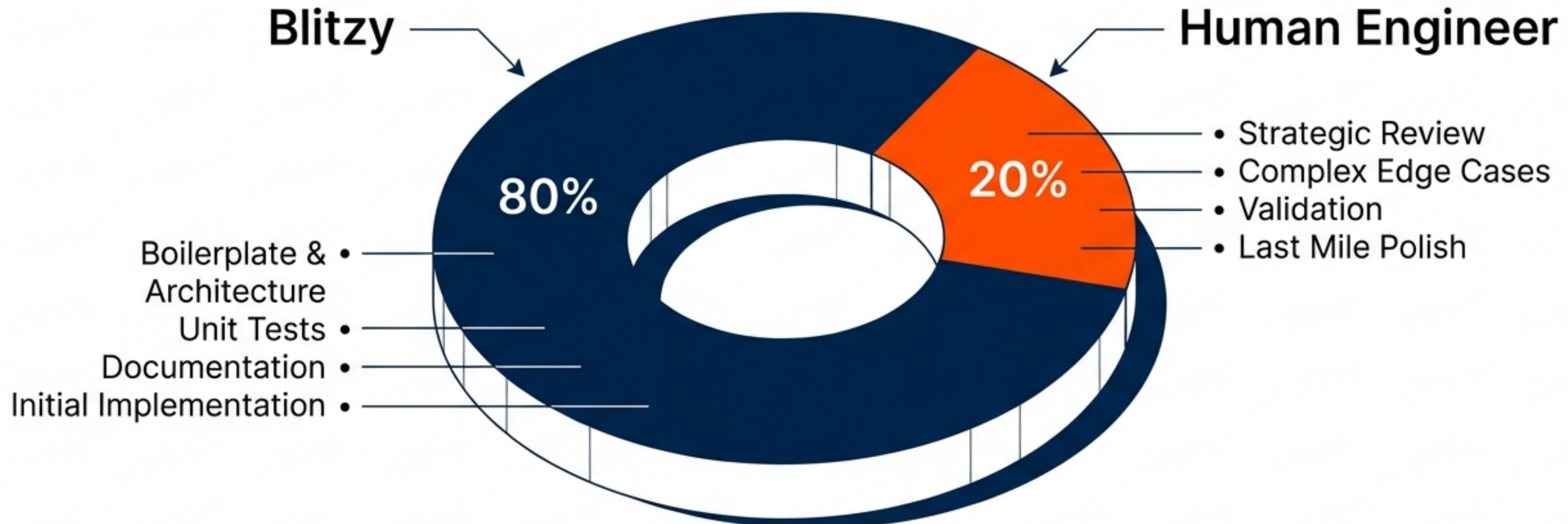


Tech Debt Reduction

- **Capabilities:** Dependency upgrades, documentation generation, test coverage expansion.
- **Impact:** Compresses 3-5 year backlogs into 12-24 months.



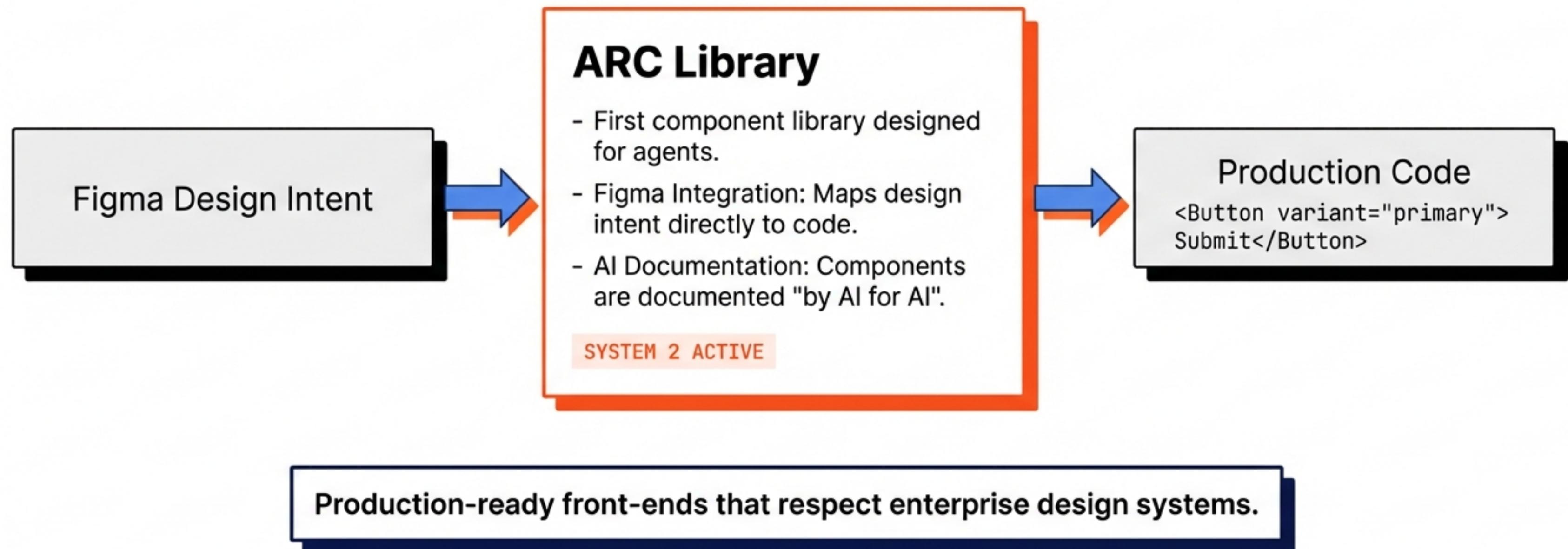
The New Workflow: The 80/20 Rule



"The Shift: From 'Writing Code' to 'Managing Agents'. Engineers start with a substantially complete codebase rather than a blank file."

Solving the UI Gap: Agent Ready Components (ARC)

The Challenge: AI typically struggles to generate consistent, brand-compliant UIs.



Strategic Positioning: Complementary, Not Competitive

System 1 (Real-Time Copilots)

- Examples: GitHub Copilot, Cursor
- Use Case: Inline suggestions, syntax help, small functions
- Role: The Assistant
- Cost: ~\$10/month

System 2 (Autonomous Platforms)

- Example: [Blitzy](#)
- Use Case: Legacy modernization, tech debt, new features
- Role: The Batch Builder
- Cost: \$100k - \$500k/year

Synergy: Use Blitzy for the heavy batch build, use Copilot for the 20% refinement.
Validated by Galatea Associates in regulated financial environments.

Enterprise Readiness & Considerations



Security

SOC 2 Type I certified.
Air-gapped deployment
options available for
Finance/Defense.



Cost Reality

High compute cost due to
inference hours. Value
must be measured against
engineering time saved.



Human-in-the-Loop

Not “fire and forget”.
Requires senior engineers
to review AI-generated
architecture.

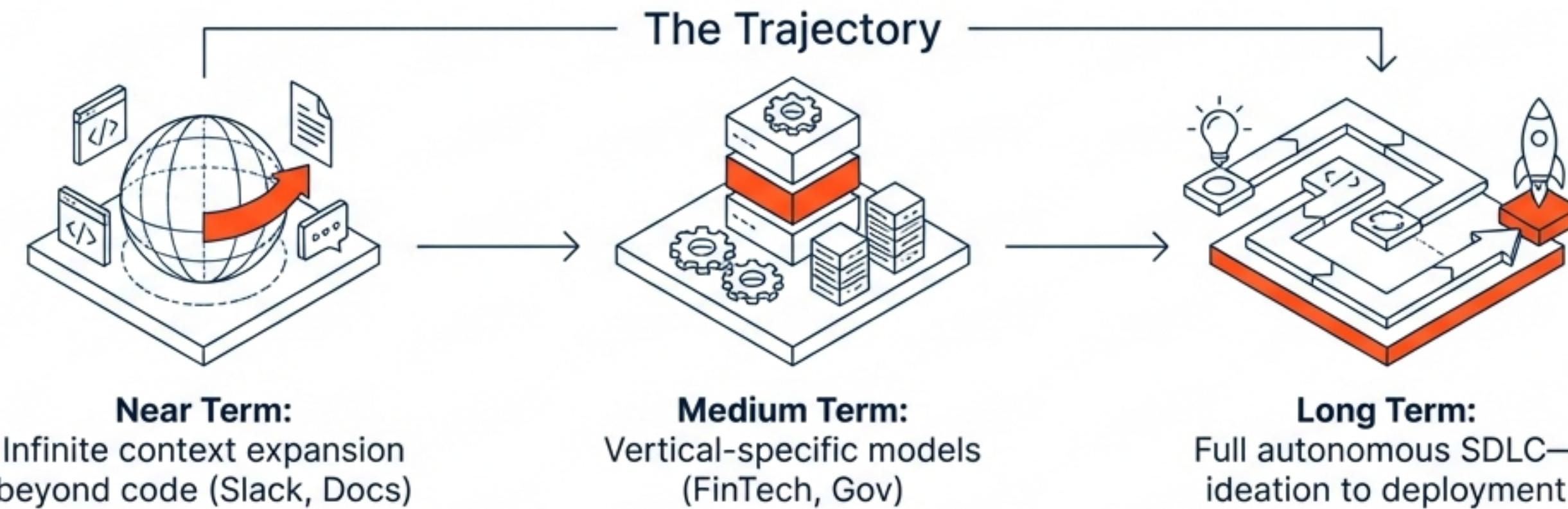


Latency

Asynchronous batch
processing. Not designed
for real-time iteration
loops.

The Future of Engineering

Relentless automation in the AI software development lifecycle.



Moving from the Era of the Tool User to the Era of the Agent Manager.