



THE PROBLEM: ENTERPRISE SOFTWARE DELIVERY IS BROKEN

Enterprise IT organizations are drowning in complexity. Development cycles stretch across months, QA and testing consume up to 40% of project budgets, and legacy code carries unknown security and compliance risk. Point-tool AI coding assistants accelerate typing — but they don't audit for vulnerabilities, don't validate system-level behavior, don't produce compliance artifacts, and offer no governance over what autonomous AI agents are permitted to touch. The result: fragmented toolchains, rising SaaS spend, growing technical debt, and CIOs who cannot get regulators, boards, or sovereign data-residency mandates satisfied by a chatbot bolted onto an IDE.

OUR SOLUTION: MINSKY™ AiFACTORY

Minsky™ AiFactory is an integrated, AI-native platform that unifies the entire software delivery lifecycle — generation, auditing, and testing — into a single governed system. It replaces a patchwork of point tools with one auditable pipeline, deployable in the cloud, fully on-premises, or inside a sovereign AI environment, giving enterprises and governments a faster, safer, and fully traceable path from requirements to production.

Minsky™ CodeGen

AI-Powered Full-Stack Software Development

- Full-stack code generation from idea to production-ready application
- Automated test-case generation and optimization
- Native CI/CD, Docker, Kubernetes and version-control integration
- Accelerates development cycles and reduces build costs

⚡ **On-Prem / Sovereign AI:** Deploys fully on-prem or air-gapped; routes to self-hosted models (e.g. DeepSeek, ALLaM) with zero code leaving sovereign infrastructure.

Minsky™ CodeAudit

AI-Driven Legacy Code Migration & Governance

- Auto-generates documentation from legacy code
- Validates code against technical scope and requirements
- Detects vulnerabilities (OWASP, CVEs) and misconfigurations
- Generates remediation plans and produces compliance artifacts (SBOM, traceability)

⚡ **On-Prem / Sovereign AI:** PDPL / SDAIA / SAMA-aligned compliance workflows; audit data and findings never leave the customer's sovereign boundary.

Minsky™ CodeTest

Autonomous Code Testing & Validation

- AI-driven system-level validation beyond UI testing
- Validates APIs, business logic and database interactions
- Generates intelligent test scenarios, including edge cases
- Ensures scalability, reliability and security at scale

⚡ **On-Prem / Sovereign AI:** Runs entirely inside customer VPC / on-prem cluster; supports Strix Halo and Huawei Cloud Riyadh sovereign hardware tiers.

DEPLOYMENT FLEXIBILITY: CLOUD, ON-PREM & SOVEREIGN AI

- Model-agnostic, task-matched routing across commercial and open-source LLMs — including self-hosted DeepSeek V4-Flash and ALLaM for Arabic-enabled sovereign deployments
- Full on-premises and air-gapped installation for regulated industries and government agencies (PDPL, SDAIA, SAMA-aligned)
- Human-in-the-loop governance model — “augment, not replace” — with a target 10:1 productivity ratio and full audit trail on every AI action
- Hardware-flexible: from public cloud to on-prem GPU clusters (e.g. Strix Halo tiers, Huawei Cloud Riyadh) for sovereign compute requirements

10x

Faster software delivery lifecycle

90%

Cut in development time

80%

Reduction in QA & testing costs

60%

Lower overall project cost



HOW MINSKY™ AiFACTORY COMPARES

Cursor and Claude Code are excellent AI coding assistants for individual developers inside an IDE. Minsky™ AiFactory operates at a different layer: it is a governed, end-to-end enterprise delivery platform that spans generation, audit and testing across the full application lifecycle.

Capability	Minsky™ AiFactory	Cursor	Claude Code
Scope	Full SDLC: generation, audit & testing	IDE coding assistant	CLI / agentic coding assistant
Legacy code audit & SBOM	✓ Built-in	X	X
Vulnerability detection (OWASP/CVE)	✓ Built-in	Limited	Limited
Autonomous system-level testing	✓ Built-in	X	X
Compliance artifacts & traceability	✓ Generated automatically	X	X
On-prem / sovereign / air-gapped	✓ Native	Cloud-first	Cloud-first
Governance / HITL controls	✓ Enterprise-grade	Basic	Basic
Multi-tenant enterprise architecture	✓ Yes	X	X
Best fit	Enterprise & government software delivery	Individual developer productivity	Individual developer / agentic tasks

REPLACING UP TO 90% OF TRADITIONAL CORPORATE IT DELIVERY FUNCTIONS

Most corporate IT department headcount and spend sits inside software delivery: application development, QA, security/compliance auditing, legacy modernization, documentation and DevOps operations. **Minsky™ AiFactory** automates these functions end-to-end, allowing a small governance team to oversee what previously required large, siloed departments:

Traditional IT Function	Replaced / Automated By
Application development teams	Minsky™ CodeGen — full-stack generation from requirements to deployment
Manual QA & test engineering	Minsky™ CodeTest — autonomous, system-level test generation and execution
Security & compliance auditors	Minsky™ CodeAudit — automated vulnerability detection, remediation & SBOM generation
Legacy code / documentation teams	Minsky™ CodeAudit — auto-generated documentation and modernization plans
DevOps / release engineering	Native CI/CD, Docker & Kubernetes integration across all three modules

Core network/infrastructure operations, end-user helpdesk and executive IT strategy remain human-led; Minsky™ AiFactory targets the software delivery, testing and audit functions that make up the majority of typical enterprise IT development spend.

Ready to Replace Fragmented Tools with One Governed AI Delivery Platform?

Schedule a demo of Minsky™ AiFactory — cloud, on-prem, or fully sovereign.

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