Legacy is Killing the Software Industry! - Is Agentic AI the Real Way Out?

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AIM HIGHER WITH YOUR SOFTWARE ENGINEERING

THE WORLD OF SOFTWARE ENGINEERING IS CHANGING

Software is becoming a commodity, what happens next will be an opportunity of a lifetime

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AI TRANSFORMATION CURVE

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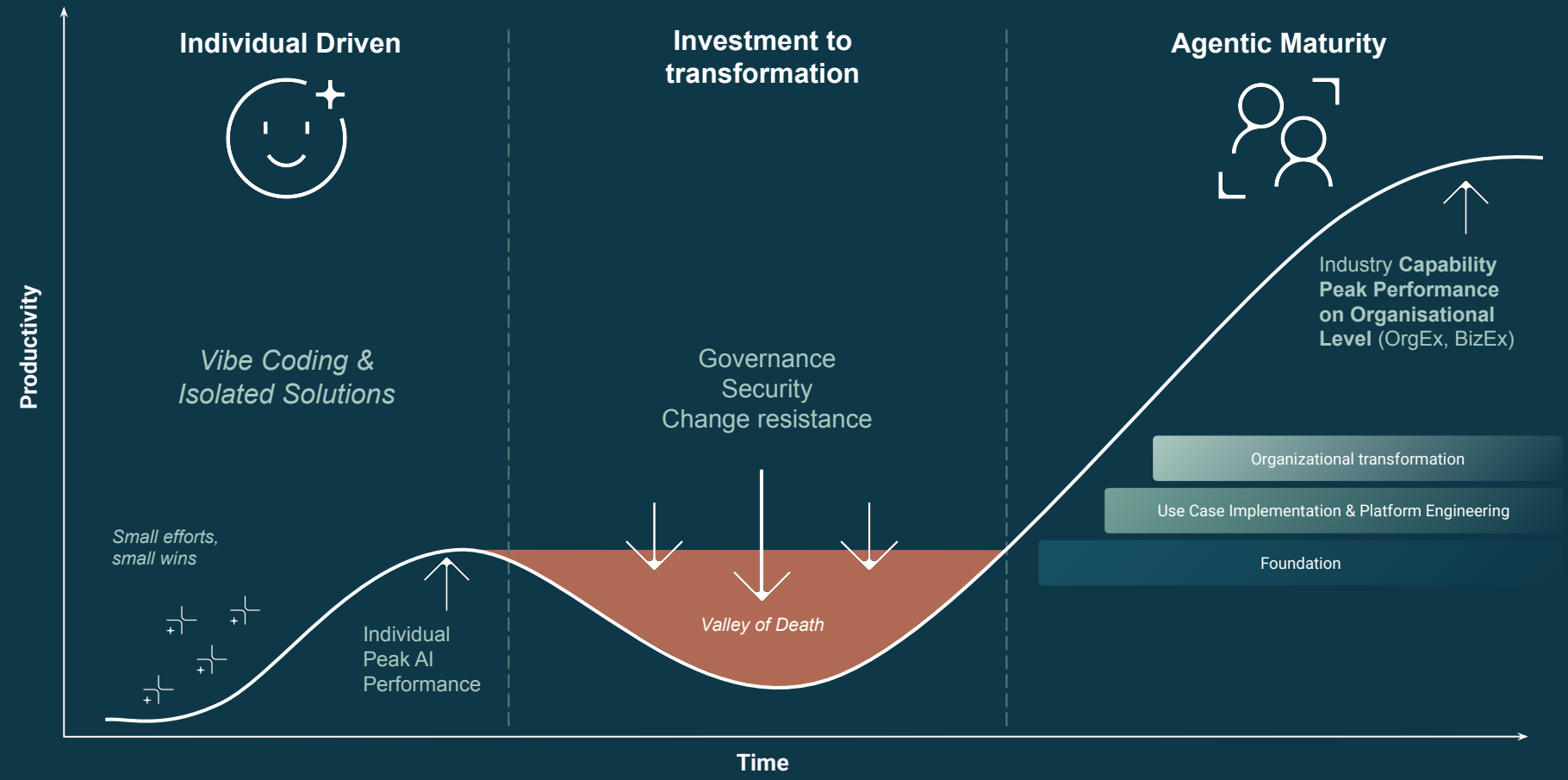
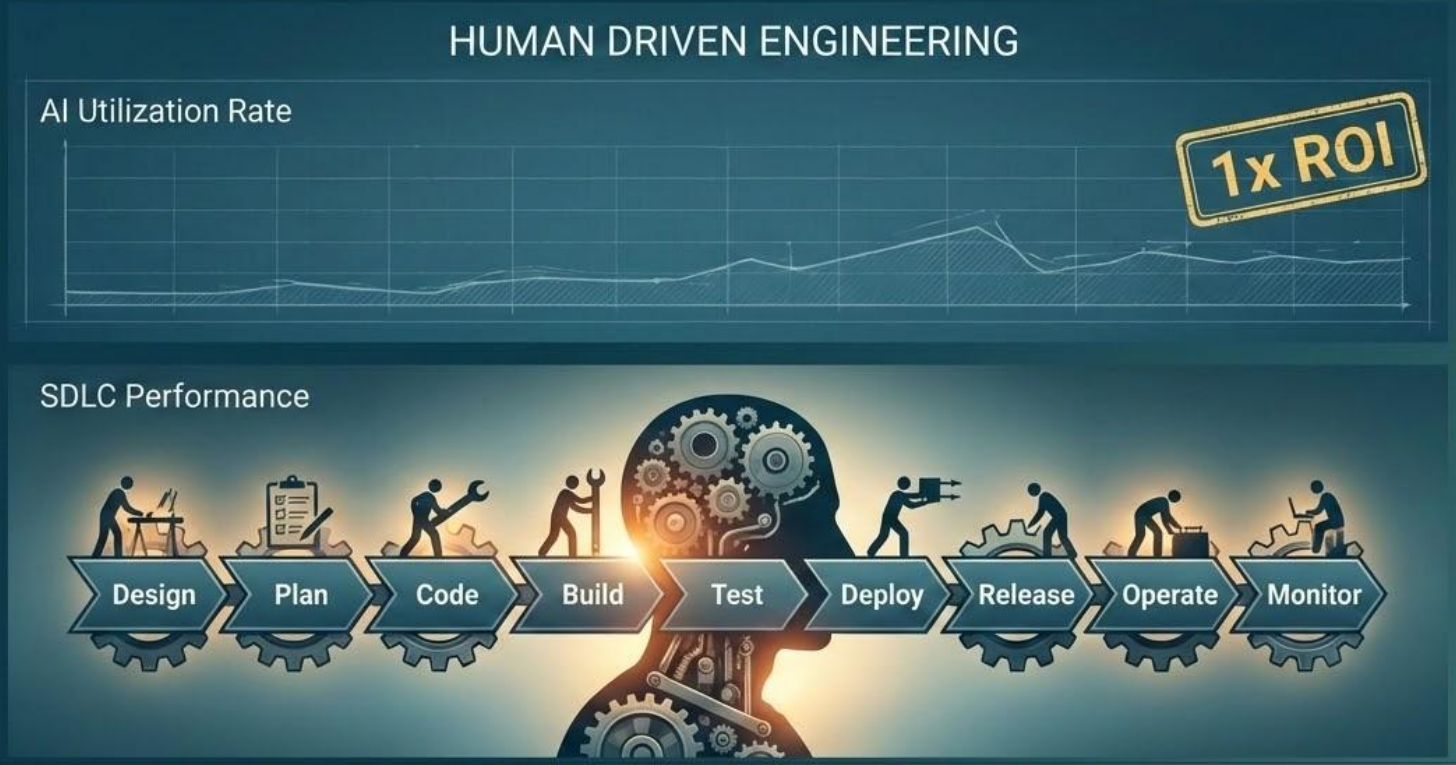


MOVING THE BOTTLENECK WITH AI ADOPTION



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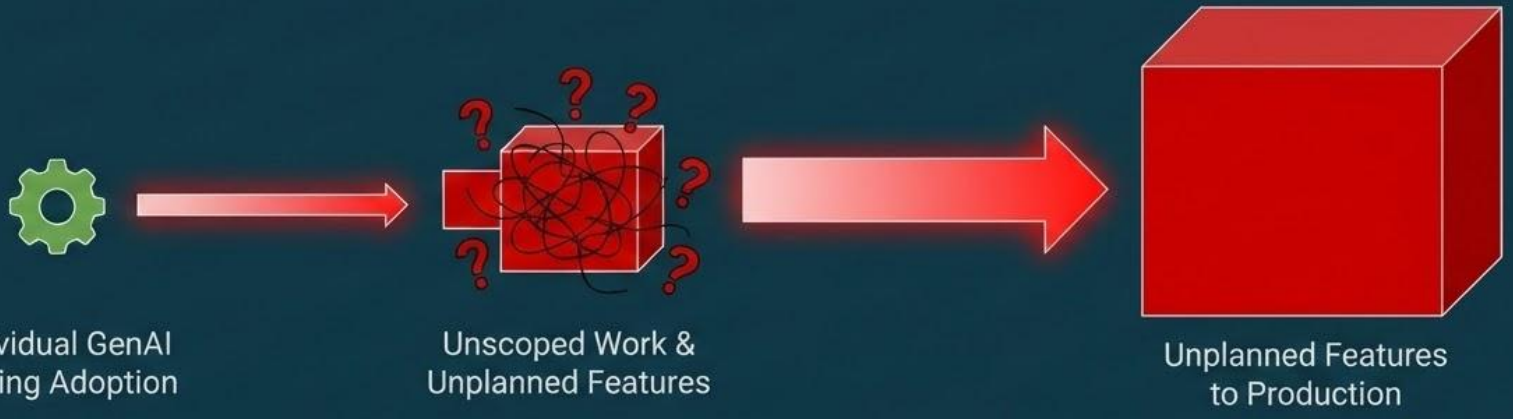

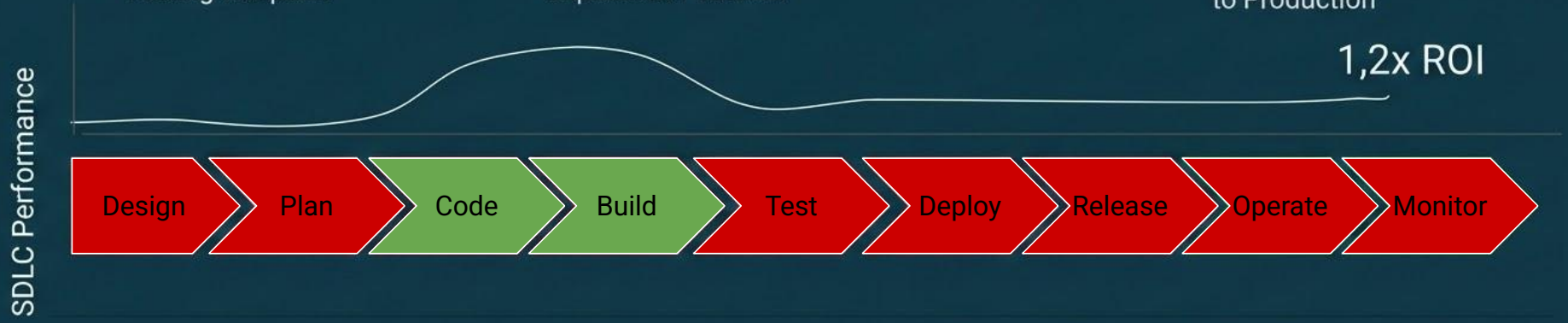

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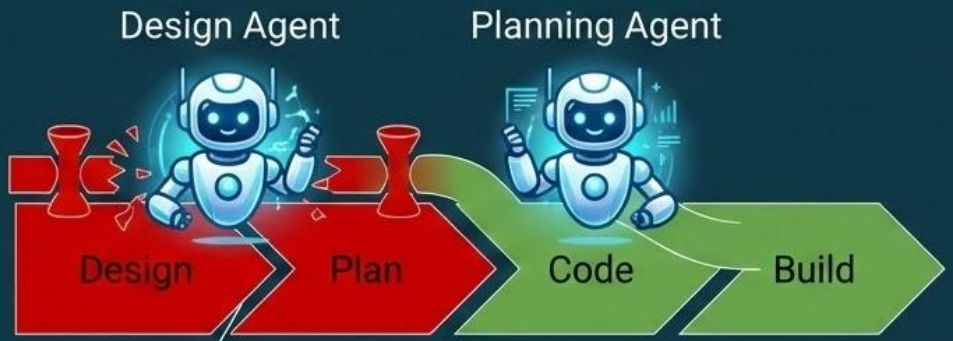

AI Agents streamline Design & Plan phases, removing bottlenecks to enable focused, scoped work in Code & Build.

SDLC Performance

Design → Plan → Code → Build → Test → Deploy → Release → Operate → Monitor

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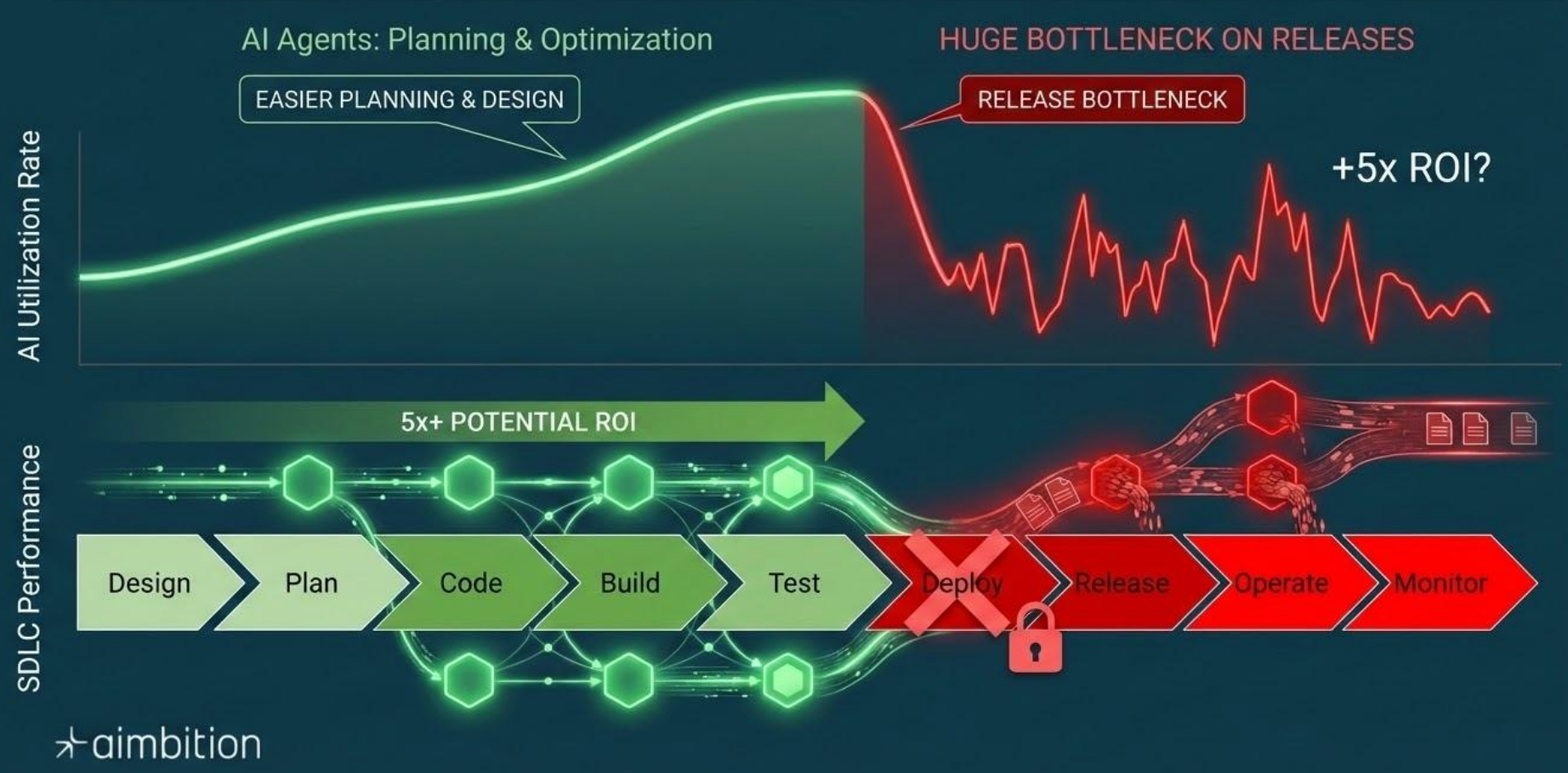

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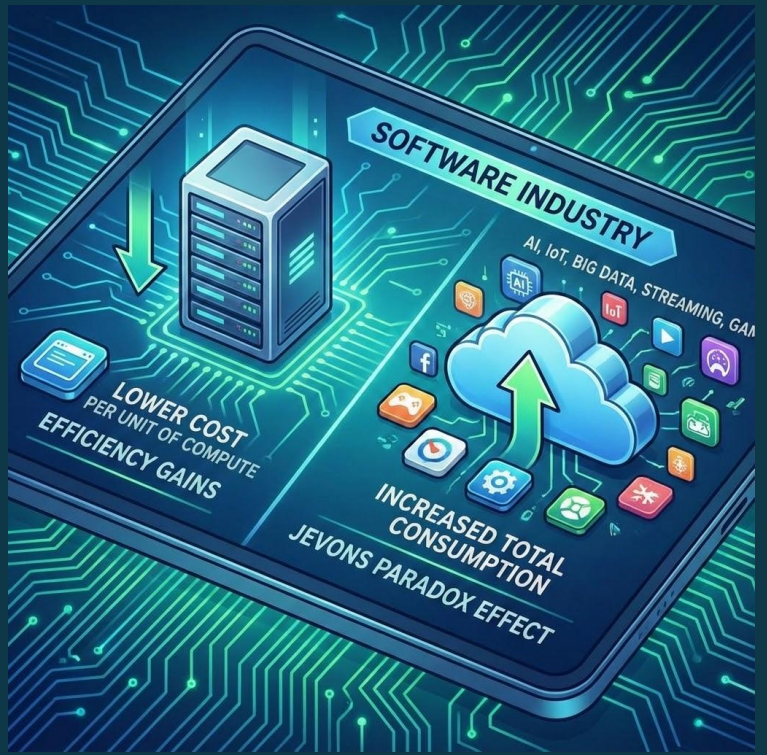
SUMMARY USING JEVONS PARADOX

- Jevons Paradox shows that efficiency increases consumption
- Increased coding efficiency will lead to more software
- AI-driven speed creates unanticipated software sprawl
- Focus on investing agentic AI on modernization to avoid sprawl



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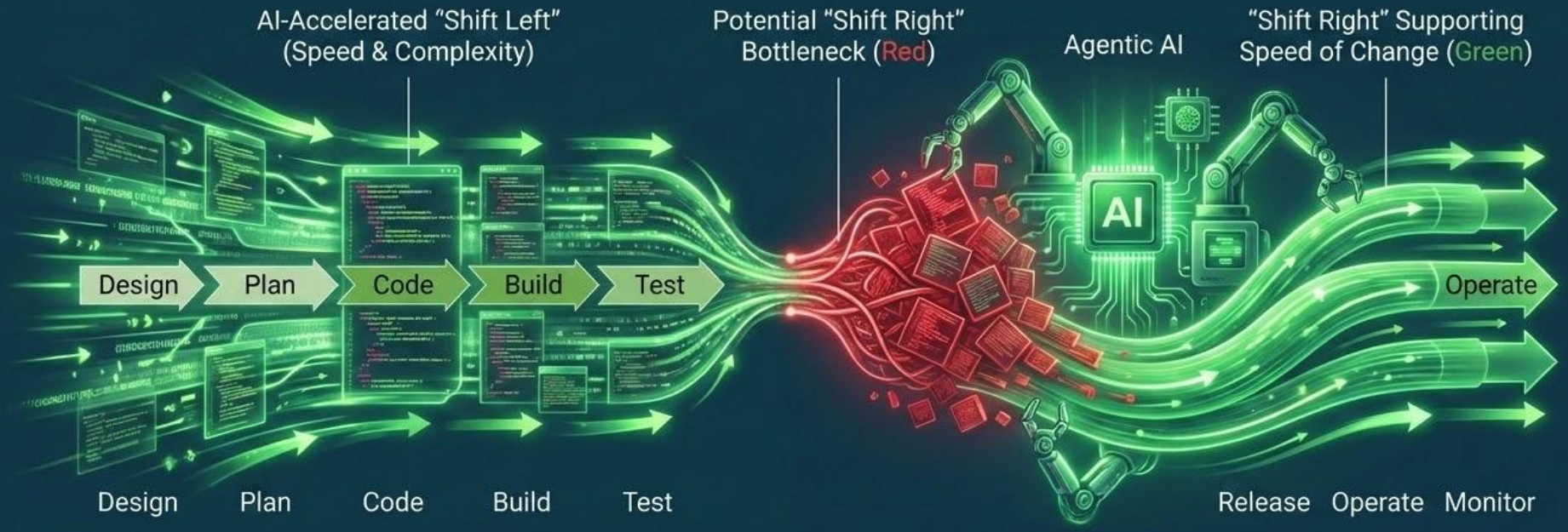

Agentic AI Solutions for Modernization & Technical Debt Removal Clear the Path

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AGENTIC REFACTORING & MIGRATION

Through Customer Case

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REFACTORING CUSTOMER CASE

Background:

- Customer had ~9000 repositories with multiple different languages
- Customer had 2000 own developers and 1000 externals
- Customer had ~hundreds of migration and refactoring items
- Customer directors realized the benefits of using GenAI especially in technical debt work

Problem:

- How to coordinate Technological Debt “Cross ORGanisational Items” (CORGIs) effectively?
- Adopting assistative GenAI tooling to development teams is not just enough to accelerate modernization enough
- Solution needed to have a holistic capability

CORGI PRIMER REQUIREMENTS

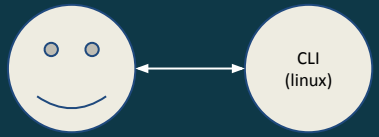
Requirements

- Refactoring system needs to be deployed for anyone in Engineering
- Use of Platform Engineering
- Minimum cross team collaboration before the work
- Multiple LLM and Agentic Development Tool support through SDK utilisation

System needed to support CODIFIED culture & process

CORGI PRIMER FUNCTIONALITY

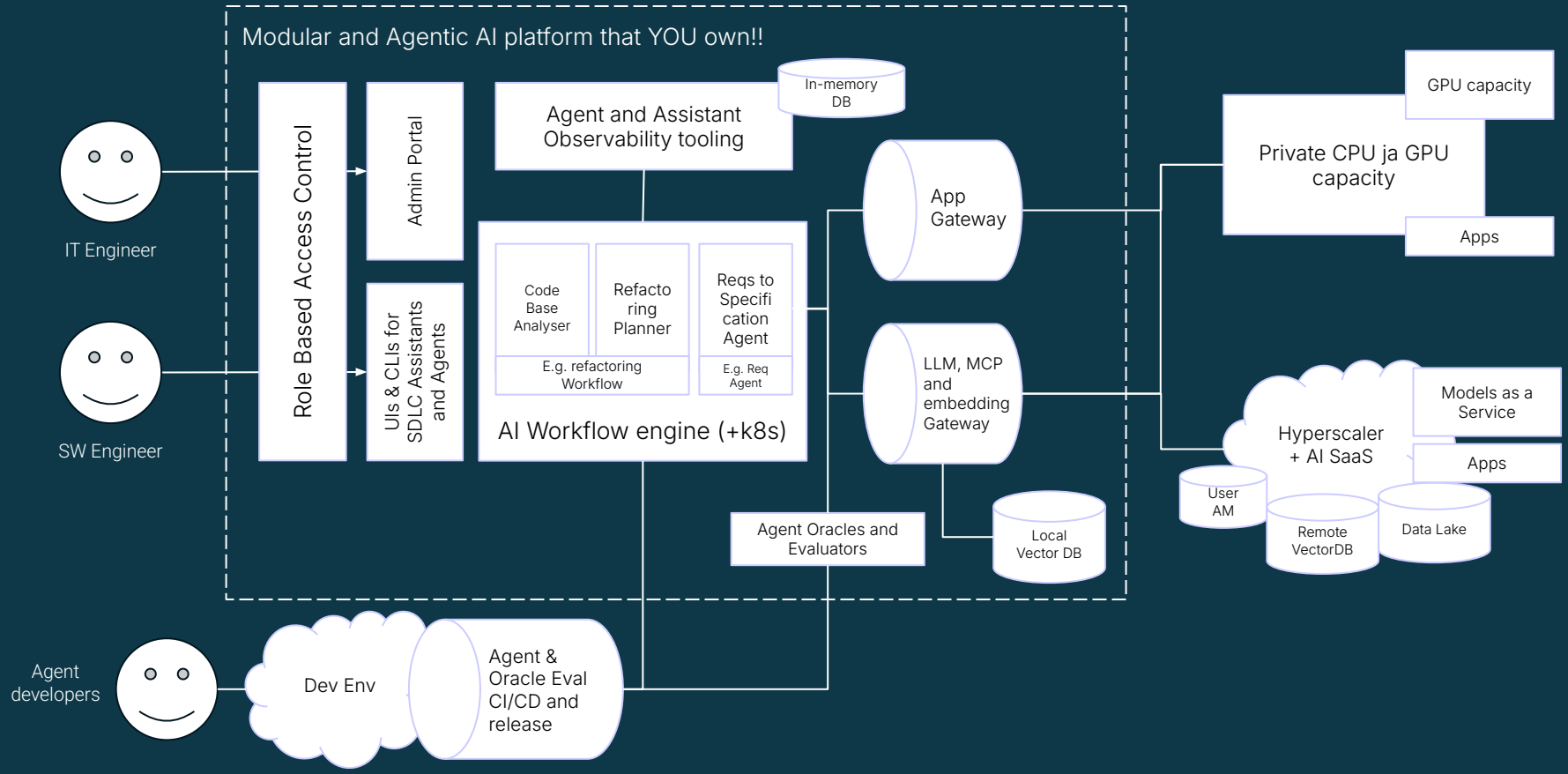
As a result we implemented an UNIX principled CLI program that:



1. ANALYSE the repositories for migration capability -> List of prioritized repositories
2. IMPLEMENT the changes with tens of agents -> Work with arch and dev roles until success
3. ENHANCE QA suite (optional) -> Create new test cases and tool integrations
4. Finish and HANDOVER to teams -> Merge Request to GitLab and Slack message to code responsible

CORGI Primer used CLAUDE CODE or SOURCEGRAPH AMP in Test Driven Development loop for best possible results.
Other tools tested: Aider and GitHub Copilot with GPT4o

SCALABLE AND MODULAR AGENTIC AI ARCHITECTURE



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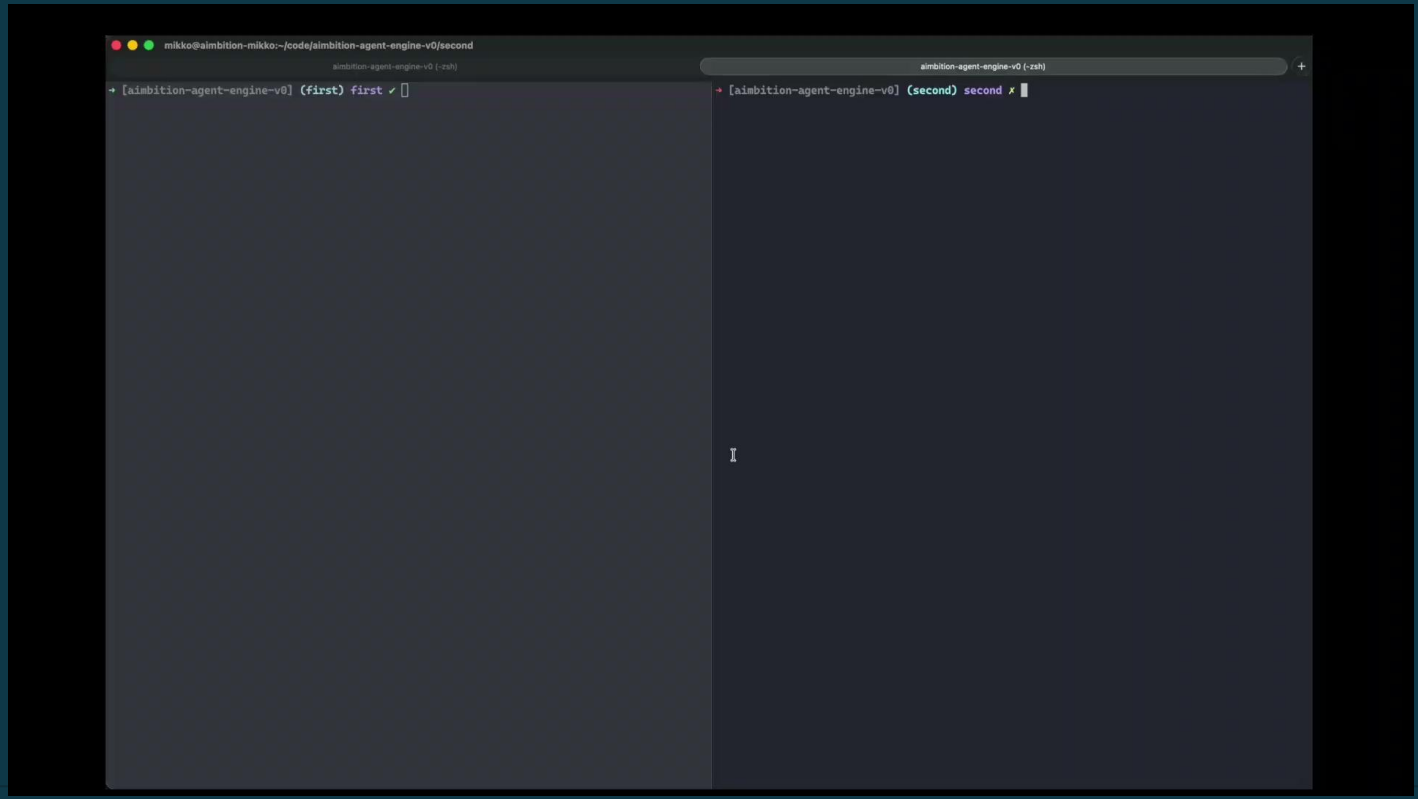
DEMO



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Thank You!

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