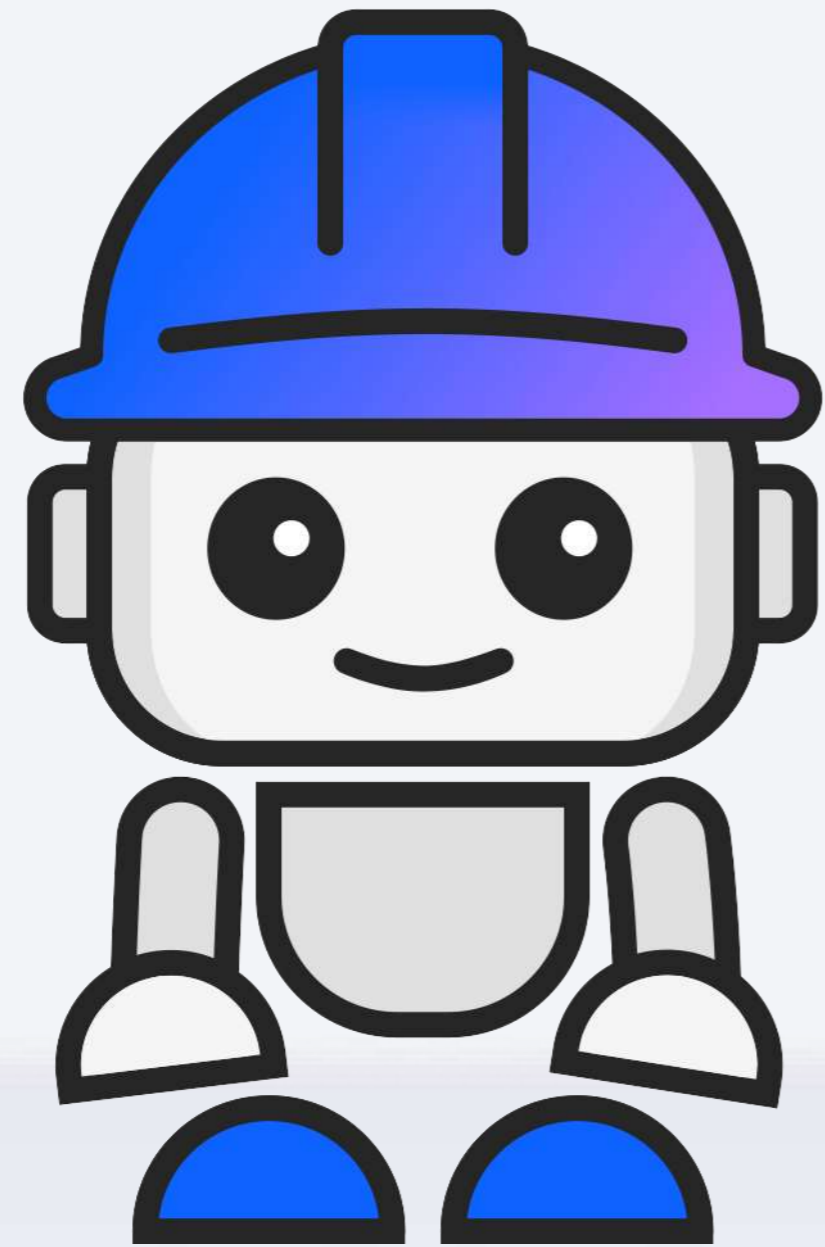


IBM Bob

Your AI Development partner



Hi, I'm Bob!

I can help you to

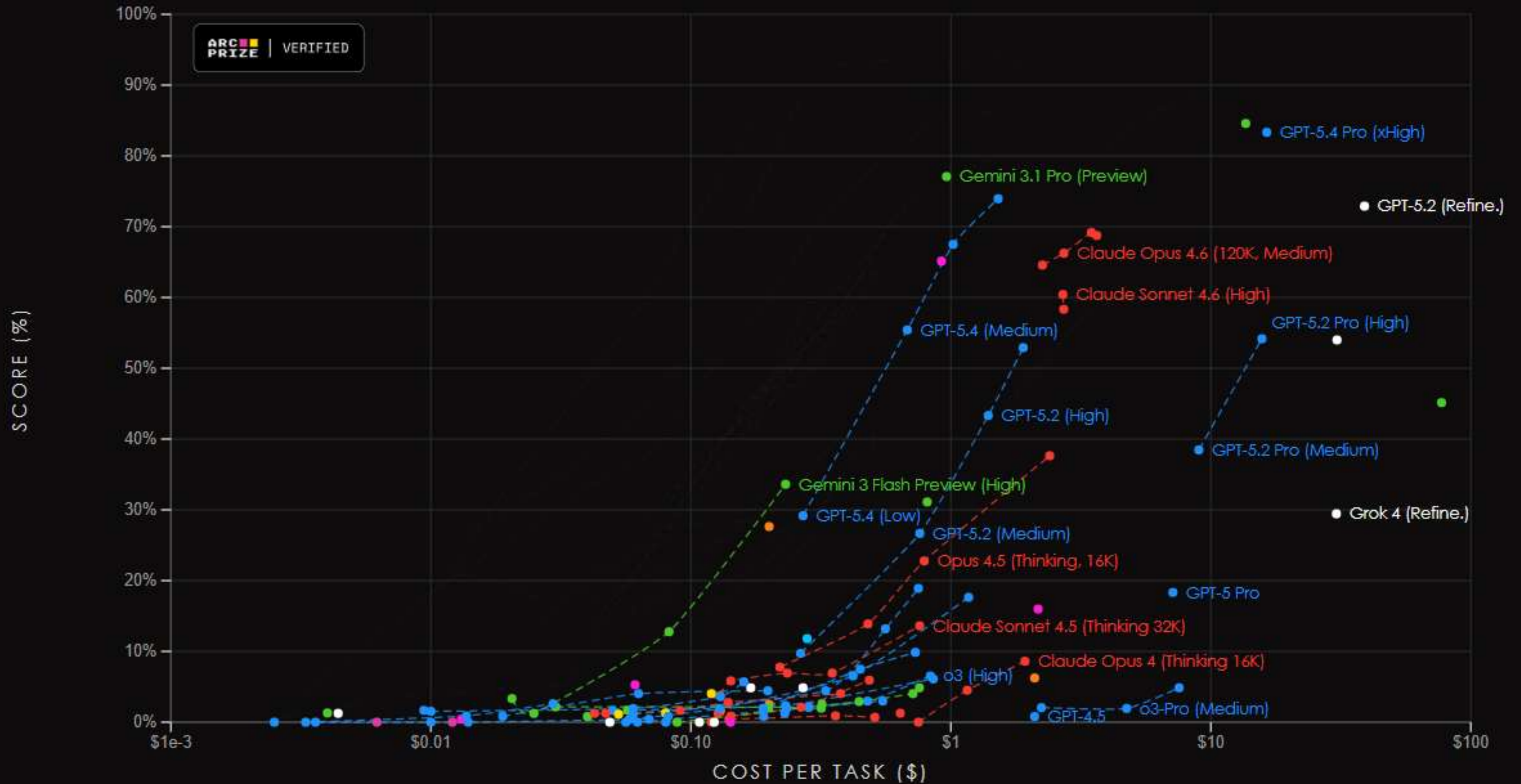
Ludovic Gasc

AI and Open Source Architect for IBM Infrastructure

With AI, **Intelligence** is now a commodity

Available by subscription like
Electricity, Water, Movies...

ARC-AGI-2 Leaderboard



1B

new applications are expected by 2028¹ ...and enterprises are drowning in complexity.

...modernization for mission critical applications can further increase complexity.

...and these challenges will only intensify as enterprises strive to remain competitive in the AI era.

Nearly all enterprise pilots are stuck at the starting line

with only...

50%

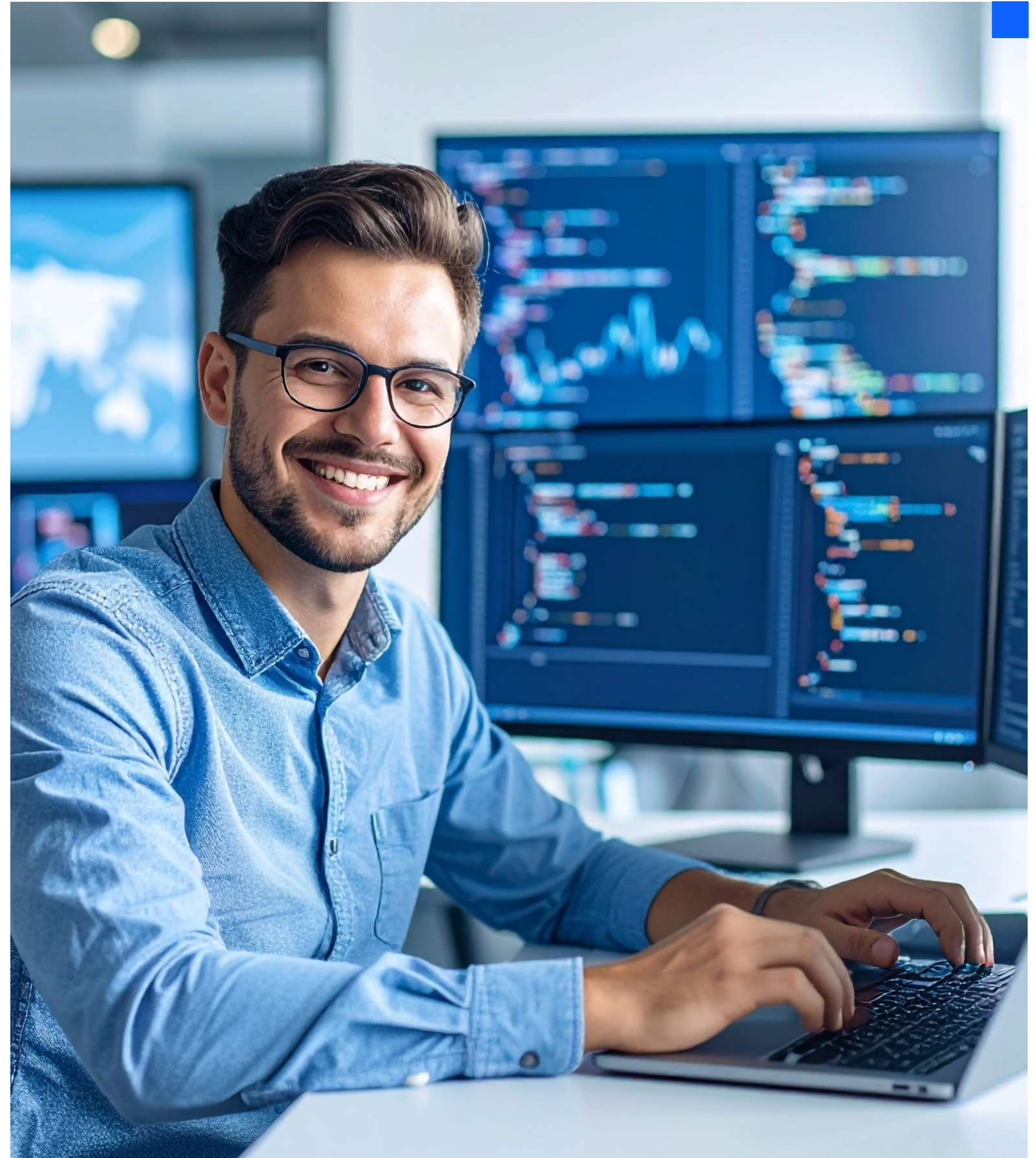
...see ROI from AI.

But what if the problem
isn't the tool...

What if it's our mindset ?

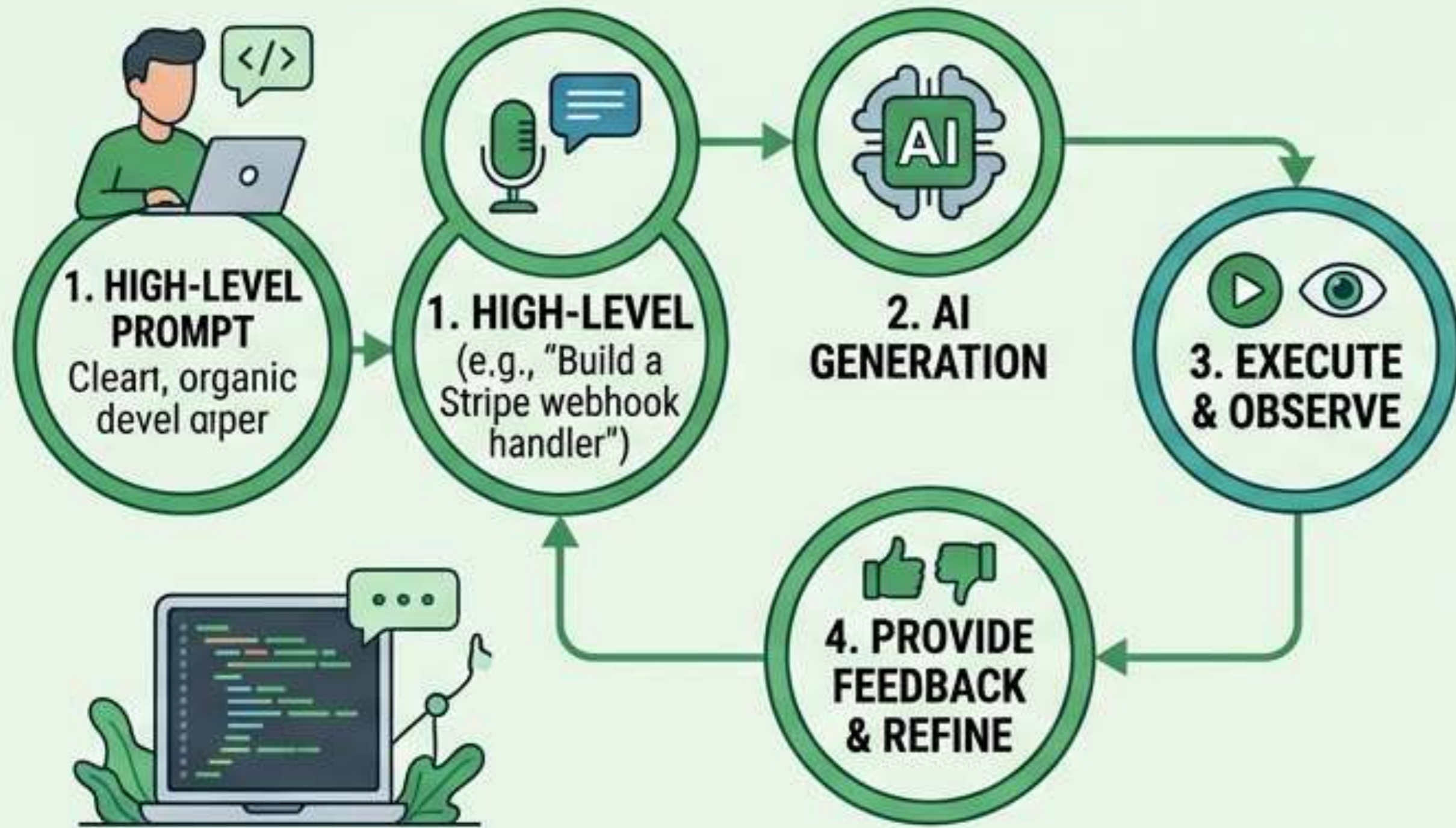
Reboot & Rebuild:

The right AI mindset to develop with ROI



COMPARING VIBE CODING AND SPEC-DRIVEN DEVELOPMENT (SDD)

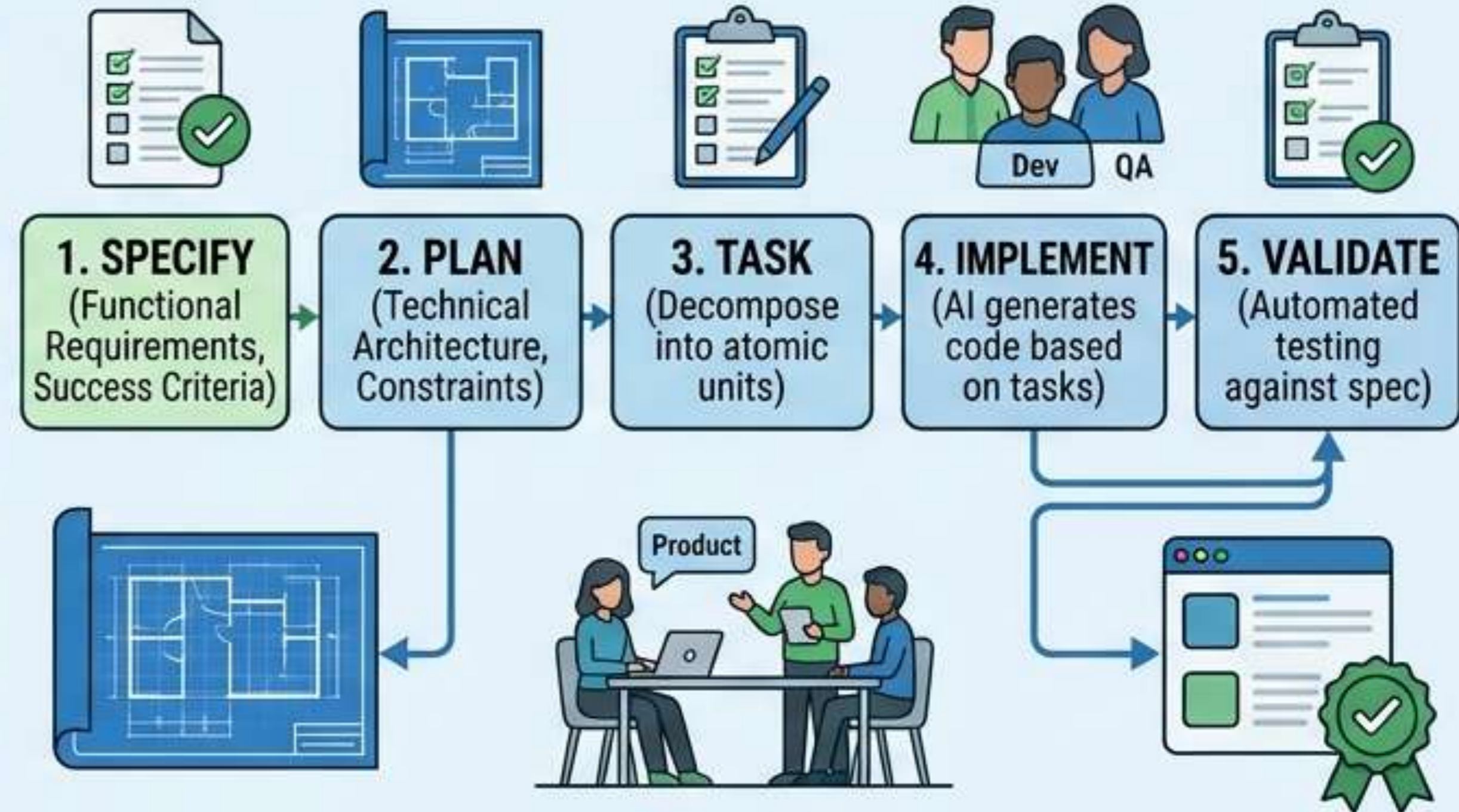
VIBE CODING



- **CORE PHILOSOPHY:** Intuitive, "Code First", iterative trial-and-error
- **UPFRONT EFFORT:** Minimal planning, quick start
- **ROLE OF AI:** Creative collaborator, guessing intent
- **KEY ARTIFACT:** Working code (often unmaintainable)
- **BEST FOR:** Prototyping, MVPs, one-off scripts, exploration



SPEC-DRIVEN DEVELOPMENT (SDD)



- **CORE PHILOSOPHY:** Structured, "Spec First", formal phases
- **UPFRONT EFFORT:** Significant. Detailed specification
- **ROLE OF AI:** Implementation tool, executing the spec contract
- **KEY ARTIFACT:** The Specification (Single Source of Truth)
- **BEST FOR:** Enterprise apps, complex systems, long-term maintenance

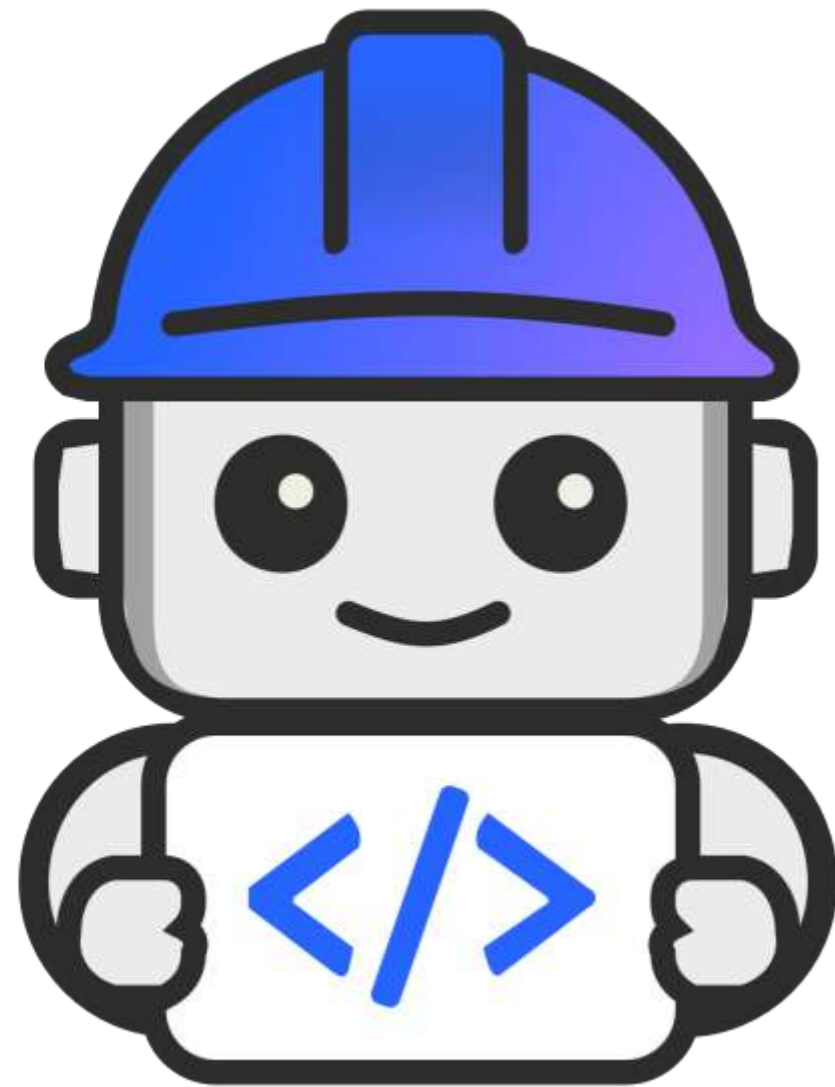


Let's present Bob!

Bob = AI turn-key solution
for IBM & RedHat
technologies



Why Bob?



Multi-LLM Orchestration

Automatically routes tasks to the best model for accuracy, performance, and cost

Enterprise Depth

Deep expertise in Java, COBOL, RPG, IBM i, mainframe—handles millions of lines of legacy code

Security-First Architecture

Built-in vulnerability detection, secrets scanning, policy enforcement across IDE
→ PR → CI/CD

Hybrid Deployment

IBM Cloud today, on-premises Q3 2026, Sovereign cloud TBD, Air-gapped,...

Proven at Scale

80K+ IBM developers onboarded, first feedbacks from EY, Wells Fargo, BNP Paribas, and 50+ other enterprises

Your Entire SDLC with IBM Bob at the core



Bob aids [Developers](#) in application development and modernization

Plan, Code, Debug, Compile, Document, Test, Understand

Bob aids [DevOps](#) in adopting modern DevOps processes

Deploy, CI/CD, Test, PR Reviews, Monitor

Bob aids [Architects](#) in creating business logic and documentation

Business Logic Extraction, Data Driven Insights, Documentation, System Dependencies, Compliance Gaps

Bob aids [CTOs](#) in enabling faster innovation

Reduced Technical Debt, Faster Time to Value, Higher Code Quality, Improved Workforce Stability, Lower Operational Risk

Why teams choose IBM Bob

- Architect Mode (Spec Driven Development):

Generates modernization blueprints, dependency maps, security and service extraction plans for monoliths

- Accelerates** development cycles and **reduces** technical debt

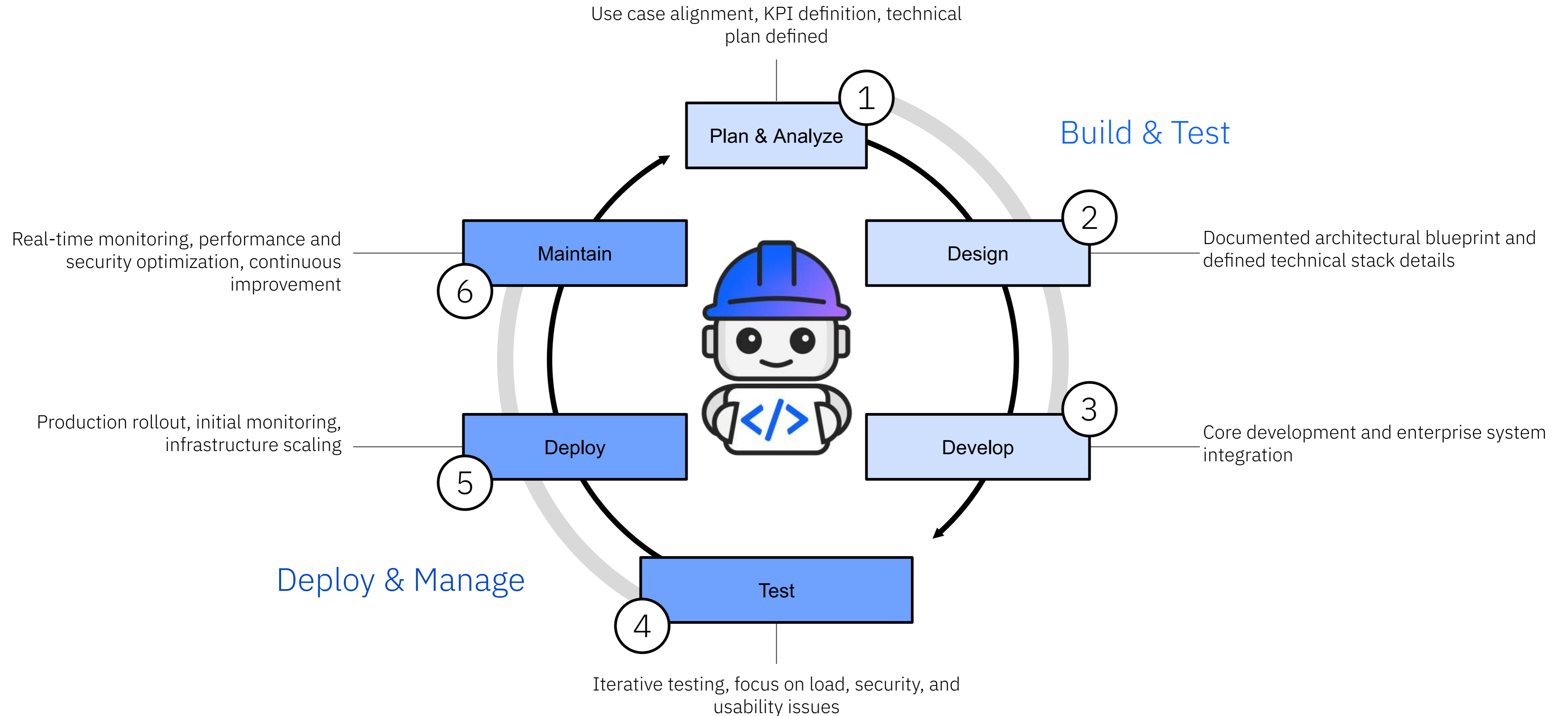
- Empowers developers of **all experience levels**

- Ensures **consistent code** quality across projects

“IBM Bob isn’t a cost. It’s the technical debt-reduction tool.”

Introducing IBM Bob, the AI partner across the SDLC

Delivering AI across the SDLC requires a different architecture. Bob is built for that.



IBM Client 0 with Bob

IBM Bob began as an internal initiative to modernize complex enterprise software faster, safer, and cheaper.

Rapid organic adoption across IBM demonstrates its ability to scale, while keeping costs and governance in check.

Market Challenges

- Average of 60–70% of engineering spend tied up in modernization vs. new innovation
- Teams struggled with multi-repo, multi-language, and interdependent systems
- Existing assistants couldn't handle system-level changes, governance, or security at scale



Our Approach

- Built around real internal enterprise workflows, not isolated tasks
- Structured, multi-step execution across code, tests, pipelines, and security
- 40% of Bob was built by Bob itself
- Product-led adoption driven by quality and outcomes, not mandates



"Bob is more than just a technical partner. Bob is the very partner for your product development."

Casey Golan,
Senior Engineering Manager IBM Software



80k

IBM developers onboard organically
(and growing)

95%

of IBMers use Bob across the SDLC, not
just code generation

45%

Average productivity gains measured

Where we see the fastest time-to-value with Bob



Legacy modernization & Code migration

Accelerate modernization of Java, COBOL, RPG, and enterprise systems while preserving business logic.



Secure development and compliance workflows

Shift security left with embedded scans, approvals, and auditability.



Knowledge transfer, onboarding and collaboration

Preserve institutional knowledge and accelerate onboarding through AI-generated documentation and context.



Complex changes across enterprise software systems

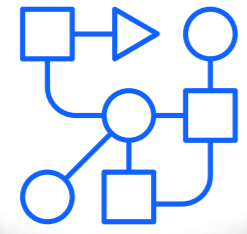
Safely coordinate multi-file changes across complex repositories.



AI application integration and other AI initiatives

Lower the barrier to building, integrating, and operating AI-powered functionality

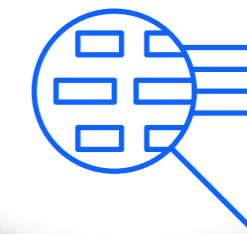
IBM Infrastructure use-cases



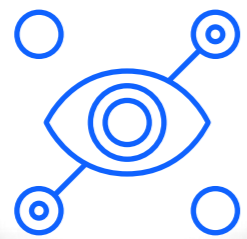
Sysadmin management /
troubleshooting on: IBM i, AIX, Linux,
OpenShift and IBM Cloud



Application Deployments



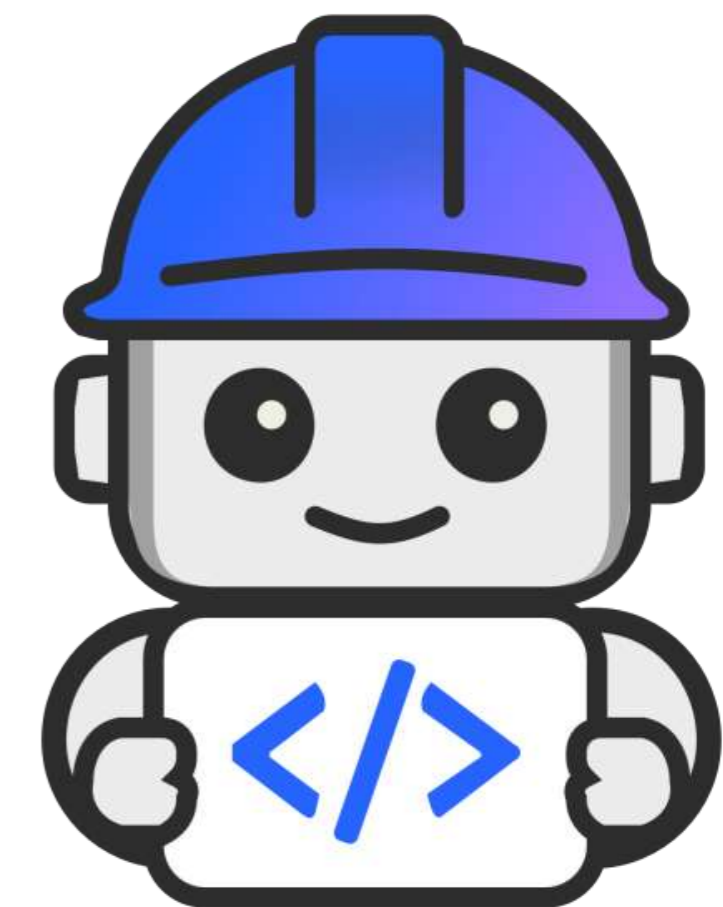
Databases management



Ansible playbooks /
Terraform configs



Convert SpringBoot application
(Broadcom) to Quarkus (RedHat)



Java Upgrades

Java Modernization workflow choreographs the upgrade flow from **Analysis through AI-Driven** upgrades to validations.

I provide a detailed summary plus a mermaid diagram visualizing **cost, time and token counts**.

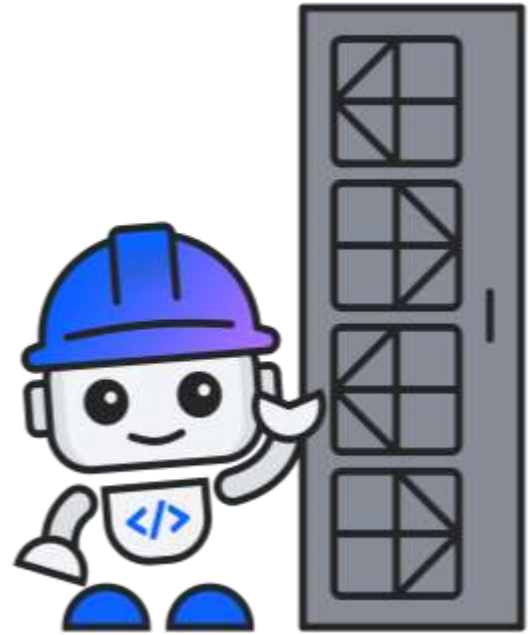
Powered by Application Modernization Accelerator (AMA), I streamline **Liberty migration**, reducing cost & complexity.

UI Modernization

I can modernize legacy UI frameworks like JSF, Struts to sleek ReactJS library, instantly elevating the **User Experience**.

Want to lift a **JEE app to Quarkus**? I handle the migration end-to-end, delivering a clean, production-ready codebase.

Bob premium packages



Bob for Z: Mainframe application modernization, hybrid SaaS + on-prem deployment. Requires the on-prem software component, critical point for sovereign/regulated clients.



Java Modernization: Re-platform legacy JEE apps to Liberty, modernization of legacy UI frameworks. Our go-to add-on for WebSphere/JEE customers.



IBM i: RPG & COBOL modernization, on-system development, native IBM i RAG, and customized prompts & commands. Direct connection to the IBM i environment, copybooks and dependencies resolved automatically.

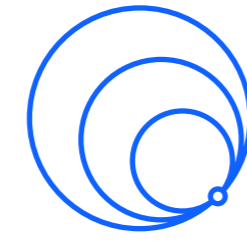


DevSecOps: Intent-driven ops model, proactive security & compliance, platform engineering convergence, integrations with secure pipelines. For teams wanting shift-left natively embedded in Bob

Extensible by design through MCP and the Bob Marketplace

No two enterprises build software the same way.

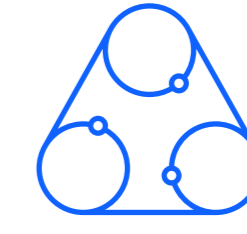
Through MCP and the Bob Marketplace, Bob can safely connect to enterprise tools, systems, and workflows, while allowing teams to extend behavior through reusable modes and shared workflows.




Standardized integration via MCP



Purpose-built modes and workflows with the Bob Marketplace



Enterprise-safe customization at scale

What users
love 

• 93%

- of the users surveyed report time saved when using Bob
-

• 4.2/5

- Rating on demonstrated clear value delivery
-

• 4.9/5

- Rating on onboarding and smooth first-time use

From AI curiosity to deployable outcomes

IBM Client Engineering: Bob Technical Accelerator (BTA)



The Bob Technical Accelerator (BTA) is IBM Client Engineering's structured engagement model designed to:

- Move clients from AI curiosity to deployable outcomes
- Use Project Bob (IDE + CLI) as the AI-assisted engineering layer
- Enable faster time-to-pilot through guided co-creation, reusable accelerators, and AI-embedded workflows across hybrid environments

01. Agentic SDLC Workshop

2-4 hours

Transforming SDLC with Agentic AI

- Reframe traditional SDLC through an agentic AI lens
- Map current SDLC (tools, artifacts, bottlenecks)
- Identify friction points and manual effort hotspots
- Highlight candidate areas for agentic augmentation
- Select 1–2 realistic pilot use cases

Outcome

- Shared understanding of agentic SDLC
- Identified pilot use cases
- Alignment across stakeholders
- Foundation for an Agentic SDLC roadmap

02. Bob-a-thon

1 day (hands-on)

Co-Create the Possible in a Day

- Structured co-creation sprint using Bob
- Build prototypes, agents, integrations, API connections
- Use CE accelerators pre-integrated with Bob
- Validate architecture fit, feasibility, and guardrails
- Capture prompts, code artifacts, and patterns

Outcome

- Working prototype built in 1 day
- Validation of what is deployable vs experimental
- Decision for next step (mini-pilot)

03. Mini-Pilot

7 days (focused sprint)

From Prototype to Deployable

- Dedicated CE engineers and architects
- Bob-assisted development with real code and integrations
- Architecture hardening: security, performance, deployment
- Platform alignment (OpenShift / APIs / automation)
- Governance checks on AI outputs

Outcome

- Production-ready pilot candidate
- Validated Bob usage in client environment
- Reusable blueprint for scale
- Clear ROI story

IBM Bob Expert Labs Services

Contact an Expert Labs Solution Architect to plan and size initial engagements.



Assess

Spot opportunities for Bob to improve productivity and identify needed guardrails.

AI-Driven SDLC Transformation Assessment

- Evaluates how Bob can streamline client's SDLC using: *Plan* → *Execute* → *Validate* → *Govern* loop
- Identify high-ROI modernization, DevSecOps, and onboarding use cases
- Establish baseline productivity and modernization forecast
- Create directional Bob-enabled SDLC blueprint

Install*

Establish dedicated or on-prem instances of Bob for government and regulated clients.

* Availability follows on-prem software GA.

Scale

Govern AI-SDLC use, control cost & quality, across the Enterprise.

Custom Modes, Rule Packs & Enterprise Integration

- Enterprise-wide rule packs, coding standards, documentation rules, PR policies
- Custom modes (Security Review, Documentation Mode, Migration Mode)
- Cross-surface automation: IDE + CLI + CI/CD + GitHub, MCP integrations

Enterprise AI Governance & Budget Optimization

- Semantic routing + cost transparency (Bobalytics)
- Budget enforcement, model/performance routing guidance
- Governance for AI usage, policy creation, auditability

Adopt & Enable

Build teams that are productive and proficient using Bob. For architects, developers, designers, testers, SREs, and more.

Onboard Teams

- Workspace setup, Bob IDE modes, rule packs,
- Foundational BobShell enablement; safe-by-default automation

Onboard & Analyze Codebases

- Architecture extraction, multi-repo mapping, dependency analysis
- AI-generated architecture explainers & diagrams; rapid onboarding.

AI-Driven DevSecOps Activation

- Inline SAST, secrets detection, PR governance, shift-left CI/CD gates
- Security rule packs, automated PR templates, CI integration via BobShell

DevOps & Infrastructure Acceleration

- IaC generation pipelines, deployment validation, repeatable DevOps "recipes"
- Automate remediation, CI/CD automation

IBM i meets IBM Bob: Modernize Your Applications and Operations (Dev & Sysadmin), an IBM TechXchange Workshop

May 20th, 2026
12:30 – 17:00

IBM Brussels Leopold Square
Avenue du Bourget/Bourgetlaan 42
Brussels

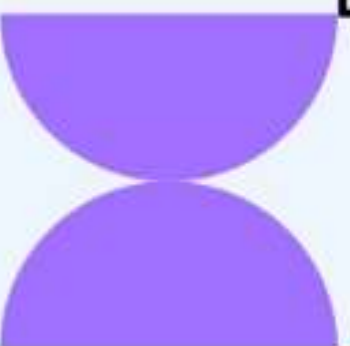
Register



If you have any questions regarding the event, please send
ludovic.gasc@be.ibm.com



IBM i meets IBM Bob: Modernize Your Applications and Operations (Dev & Sysadmin), an IBM TechXchange Workshop



<https://www.ibm.com/events/reg/flow/ibm/B1Z7E2MB/landing/page/landing>

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[Application Modernization on IBM i](#) →

