



ENABLING THE ENTERPRISE AGENT ECOSYSTEM OF THE FUTURE: AN INFOSYS AND GOOGLE PERSPECTIVE ON GEMINI CLI

Executive Summary

The future of enterprise engineering lies in agent ecosystems that can reason, act, and collaborate across domains. Infosys and Google are enabling this shift through Gemini CLI, bringing multi-step agentic capabilities directly into the terminal to accelerate real-world solution delivery.

Enterprise software delivery is entering a new era. The shift is from building applications in linear cycles to continuously evolving intelligent, agent-driven systems. As this transformation accelerates, the developer environment becomes the command center for enterprise automation. For enterprises, this shift is not just an engineering evolution — it directly influences how quickly ideas can become working solutions, how consistently teams can scale innovation across domains, and how efficiently real business value can be realized.

Embedding AI-driven agents directly into that environment is the next logical step, and the terminal — the most universal interface for engineers — naturally emerges as the fastest path from intent to execution. This shift sets the stage for the next generation of developer tools.

Gemini CLI embodies this evolution. It brings the power of Gemini models into the command line, enabling developers to plan, act, and complete multi-step tasks through natural, tool-driven workflows. What begins in the terminal with Gemini CLI can serve as a strong starting point for scaling agentic capabilities across the enterprise.

Infosys and Google are aligned on this trajectory: agent ecosystems will become the enterprise platform layer of the future. These ecosystems will orchestrate work across engineering, operations, data, and business functions, unlocking new levels of speed, resilience, and value. Together, Infosys and Google are enabling enterprises to advance from isolated AI experiments to scalable, repeatable agentic delivery.



Why Gemini CLI Matters for Enterprises

Gemini CLI is not simply an assistant that answers questions. It is an AI agent capable of reasoning and acting through tools, enabling it to execute work directly in the environments where software is built and operated. Designed for enterprise-grade engineering, it supports complex tasks such as building features, fixing issues, improving coverage, and integrating with both built-in tools and local or remote MCP servers for broader workflows. Its ability to autonomously generate, refine, and debug multi-agent solutions across diverse use cases within a single, unified workflow makes Gemini CLI particularly well-suited for enterprise-scale agentic development.

This matters because enterprises operate in conditions defined by scale and complexity — large codebases, interconnected systems, rapid release cycles, and uncompromising expectations of reliability. Gemini CLI helps teams meet these realities through an intent-driven, multi-step execution model that keeps work inside core developer workflows, eliminating unnecessary context switching. Furthermore, enterprise software engineering teams can standardize these agentic workflows by embedding context directly into the codebase. By utilizing project-specific GEMINI.md files, teams can drive the Gemini CLI with tailored enterprise guidelines, architectural standards, and operational playbooks, ensuring the agent acts predictably and aligns with organizational best practices.

Gemini CLI is a key enabler in Google's broader agentic strategy, evidenced by the fact that Gemini Code Assist's agent mode in VS Code is powered by the CLI. This underscores that the CLI is not peripheral — it is the engine behind agentic experiences across environments. More broadly, Google is standardizing agentic experiences across contexts, from developer workflows to enterprise deployment and governance. Gemini Enterprise centralizes visibility and control for organizational agents, while Vertex AI provides the foundation to build, deploy, and scale production-grade agents.



The Infosys and Google Story: Accelerating Agent Ecosystems from Concept to Working Solutions

Infosys and Google jointly demonstrated what enterprise agent development can achieve when engineering intent, architecture, and execution come together in a single streamlined flow.

Infosys leveraged the power of Gemini to build multi-agent solutions using Gemini CLI and Vertex AI Studio. The process significantly compressed time to value—moving from a high-level use case to a blueprint, a generated codebase, and an executive-ready value narrative in less than eight hours. One of the most promising aspects of Gemini CLI was the debugging phase: traditionally, the most time-intensive part of engineering, yet completed entirely through Gemini CLI without manual intervention. This demonstrated the CLI's ability to autonomously diagnose and correct complex implementation issues.

Infosys collaborated with Google to conduct an eight-hour, hands-on technical workshop designed specifically to validate rapid agent development. During the workshop, Infosys used Gemini CLI to build multi-agent solutions across retail, CPG, logistics, IT operations, and data management. Use cases spanned trend intelligence, automated bill of lading generation, smart ticket resolution, sellout data validation, digital shelf compliance, and intelligent data syndication—showcasing consistent cross-domain applicability for multi-agent architectures. Beyond software generation, this ecosystem accelerates end-to-end cloud operations. Gemini CLI can autonomously orchestrate

downstream infrastructure tasks, allowing engineers to use natural language intents to configure image pipelines with Cloud Build, deploy the resulting containers to scalable environments like Cloud Run, or manage and connect to relational data structures in AlloyDB—all without leaving their unified workflow. Gemini CLI is not limited to Google Cloud infrastructure operations; it can also be effectively used for AWS, Azure, on-prem, or hybrid infrastructure. This combined approach illustrates the emerging future of enterprise software engineering and operations.

Vertex AI Studio accelerates problem framing and leadership-ready articulation. Gemini CLI drives rapid blueprinting and multi-agent implementation. Infosys contributes delivery rigor, deep industry context, and scaling models that convert these capabilities into a repeatable, enterprise-grade engineering motion.

Google's focus is on the rapid rollout of agent deployments in client environments. Infosys supports this ambition by building multi-agent solutions that demonstrate quick, early wins—helping clients realize value faster and improving confidence in AI program outcomes.

Ultimately, Gemini CLI compresses delivery cycles and enables clients to move from traditional project execution toward AI-powered delivery platforms.



The Shift Toward Enterprise-Scale Agent Ecosystems

Most enterprises still approach AI as a set of isolated projects, but the future lies in ecosystems. An enterprise agent ecosystem is not a single agent; it is a network of specialized agents that collaborate across tasks, tools, and contexts—including agents that interpret intent, interact with data, generate artifacts, validate outputs, and support operational execution. This evolution marks the shift from experimental AI pilots to agentic executions that deliver quick, early success, enabling organizations to demonstrate tangible value far sooner in the adoption journey.

Gemini CLI accelerates this shift by making agent development and iteration far more natural and intuitive for engineering teams. It provides direct access to Gemini in the terminal and supports a reason-and-act approach with tool integrations, which is essential for orchestrating multi-step agent workflows.

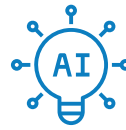
Infosys enables this transformation by industrializing agent development with enterprise-ready patterns—reusable agent blueprints, domain-grounded prompts and workflows, engineering standards embedded into SDLC processes, and operating models designed to scale adoption across teams and portfolios.

This is where the partnership becomes decisive: Google provides the platform capability, while Infosys delivers the enterprise adoption engine that brings agentic solutions to scale.



What Clients Can Expect Next

As enterprises adopt Gemini CLI-driven agentic development, several outcomes become achievable at scale.



Significantly faster idea-to-implementation cycles

Agentic development reduces the time between intent and working prototypes, enabling rapid iteration on real solutions and compressing traditional delivery timelines.



Broader participation across roles and disciplines

Domain experts and engineers collaborate more effectively as natural-language intent is translated into structured execution, increasing shared ownership and accelerating solution shaping.



More consistent and reusable engineering leverage

Teams can standardize and reuse agent-creation prompts and workflows, improving repeatability across portfolios and boosting overall engineering productivity.



Frictionless infrastructure integration

The CLI bridges the gap between local workspaces and remote enterprise infrastructure. It simplifies complex integrations, such as seamlessly enabling the Developer Connect API in Cloud Code to securely link local development environments directly to Google Cloud resources, fundamentally reducing the friction of building hybrid or cloud-native solutions.



A seamless bridge from technical output to executive conviction

Vertex AI Studio enables rapid translation of technical outcomes into business-value narratives, helping leadership teams evaluate solutions faster and make confident adoption decisions.

The Joint Commitment

Infosys and Google are committed to helping enterprises build the next platform layer: scalable agent ecosystems that deliver measurable outcomes. Gemini CLI stands out as an open-source agent foundation in the terminal—designed for multi-step work, tool use, and extensibility—while also serving as the core engine behind agent-mode experiences in modern development environments.

The future belongs to enterprises that can industrialize agentic delivery with speed, confidence, and strategic clarity. Together, Infosys and Google are enabling that future. This joint validation reinforces that enterprises can begin by anchoring on a high-value use case and rapidly translating intent into working agentic solutions using the combined capabilities of Gemini CLI and Vertex AI Studio.

This viewpoint has been created and published by Infosys, with inputs from Google Cloud.

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