HCLTech | Supercharging Progress™

AI Force.Software

Driving enterprise efficiency across the software development lifecycle through GenAI and Agentic AI



Overview

AI Force.Software accelerates delivery and drives modernization across the entire software development lifecycle using Gen AI and Agentic AI. Built on HCLTech's AI Force 2.0 platform, it enables teams to move from idea to production faster while improving quality, reliability, and governance.

By intelligently automating end-to-end software engineering activities, AI Force.Software reduces manual effort, shortens cycle times, and improves consistency, helping product, engineering, QA, architecture, and DevOps teams address requirements churn, technical debt, long testing cycles, and legacy complexity.

With built in Responsible AI, security, and governance guardrails, AI Force.Software generates requirements, code, tests, and modernization outputs to improve collaboration and workflow continuity. Integrated with existing toolchains and supporting multiple LLMs, it enables organizations to scale AI adoption with confidence, managing risk, standardizing controls, and delivering faster, safer outcomes with measurable productivity gains and ROI.

Impact delivered

Accelerate software development by up to
30%

Speed up legacy application modernization by up to
60%

Improve testing efficiency by up to
45%

Faster requirements gathering by
20–25%

Acceleration in DevOps by
15–20%



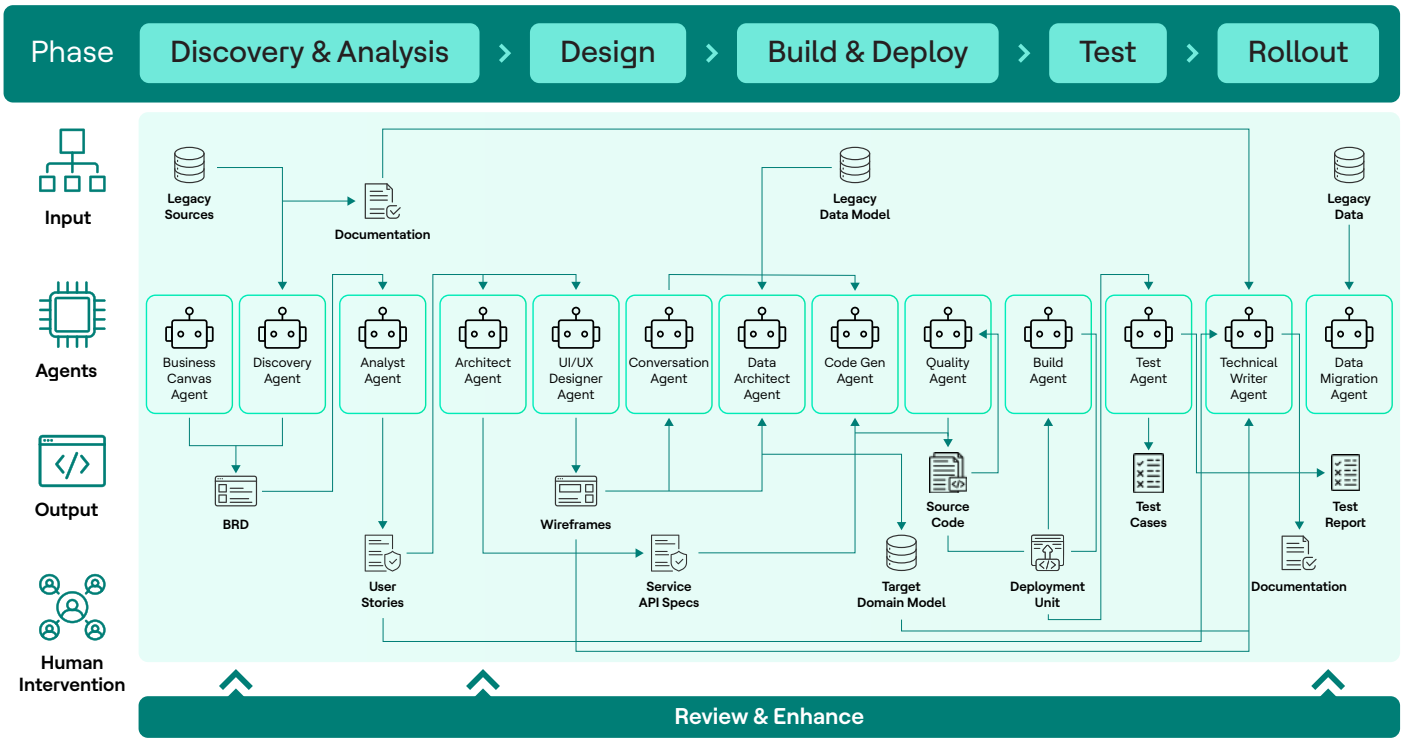
Customer challenges addressed

Challenge	AI Force. Software capability
Disconnected SDLC tools, manual handoffs and fragmented workflows	Unified, governed SDLC platform that connects tools, data, personas and workflows end-to-end
Siloed context across requirements, design, code, tests and Ops	Context-aware SDLC automation with a single source of truth
Requirements churn leading to rework, delays and ambiguity	Automatically generated, impact-aware requirements and user stories with full traceability
Manual architecture documentation with inconsistencies and gaps	AI-generated HLD/LLD, API specs and architecture views aligned to standards and business intent
Slow development cycles with code inconsistencies and errors	AI-assisted code creation, refactoring, hardening and inline guidance in the IDE of choice
Manual, repetitive, low-coverage test creation	Auto-generated test cases and scripts with optimization, prioritization and change-impact analysis
Heavy reliance on legacy code and slow modernization pathways	Agentic modernization with automated discovery, code conversion and remediation
Delayed deployments and bottlenecked DevOps pipelines	Faster release cycles with AI-powered automation and consistent downstream flow
Persona silos (PO, Dev, QA, DevOps, SRE) causing misalignment	Seamless collaboration with shared context across all SDLC roles
Limited oversight, governance and quality control	Built-in governance, compliance, telemetry and Responsible AI controls
Slow, manual troubleshooting across environments	AI-powered insights, code intelligence and traceability for faster issue resolution



How it works?

Specialized AI agents orchestrate the entire software development lifecycle from discovery and design to build, test, and rollout. Each agent autonomously generates and reflectively validates artifacts such as requirements, designs, code, test cases, and documentation to meet the correctness and comleteness rules specified. Human intervention is applied at every phase of the life cycle for review and enhancement, enabling faster delivery, higher quality, and scalable development and modernization. In the process, the agents also create and incrementally enrich the knowledge context as more and more modules are developed or modernized. This helps to achieve reusability of generated compoents and establish bidirectional traceability between requirements, code and test artifacts through the conversational agents.



Key features

Prebuilt SKUs with templates, AI agents, recipes and use cases across Software Development Life Cycle (SDLC) stages:

- **Ideate:** Turns business ideas into structured, actionable epics and user stories while syncing them seamlessly to customer systems such as Jira and Confluence for downstream execution
- **Specs:** Generates actionable requirements and user stories by drawing context from customer systems and re-integrates completed output for true bidirectional flow, supported by change-impact analysis and full SDLC traceability
- **Design:** Generates a fully traceable architecture package across logical, physical, data and deployment views, thoughtfully designed for scalability, security and aligned with business intent to speed up engineering
- **Dev:** Understands project context through requirements, architecture and coding standards while accelerating secure development with AI-assisted code, hardening and unit-level validation right inside the IDE of choice
- **Mod:** Orchestrates end-to-end legacy modernization across languages, frameworks and databases, guided by automated discovery and engineering
- **Test:** Boosts test velocity and coverage with automated test case and script generation, smart optimization and prioritization, built-in change-impact analysis and smooth handoff to the test-execution engine

Build your own use cases, AI agents and prompts for customer specific requirements

Inbuilt observability and analytics with the ability to track token usage, monitor system performance and gain insights into user engagement

Seamlessly integrate with existing customer tools and systems, managing connections for end-to-end automation

Connect and switch between multiple LLMs based on requirements for flexibility and control

Built-in guardrails for secure, compliant and Responsible AI adoption

Multi-tenancy and role-based access support for collaborative enterprise environments

Discover and map relationships between different data sets, such as requirements, code, test artifacts and defects, creating a comprehensive view of the software engineering process



AI Force.Software user personas

AI Force 2.0 offers a suite of modules built on top of a strong foundation platform, enabling and scaling AI across diverse enterprise workflows and user personas to achieve agility, efficiency, productivity and collaboration.

Personas	
Product Owner	Software Engineer
Product Manager	QA Engineer
Program Manager	DevOps Engineer
Business Analyst	Doc Writer
Application Architect	Site Reliability Engineer
UI/UX Designer	



Differentiators

End-to-end SDLC coverage by accelerating ideation, requirements, design, development, testing and modernization through specialized SKUs

Build your own use cases and AI agents, enabling enterprises to create custom SDLC automations using low-code/no-code templates

Prebuilt use cases and AI agents enabling quick adoption, for each phase of the SDLC

Flexible deployment options and secure embedded SDLC governance through Responsible AI guardrails, quality checks and governance controls

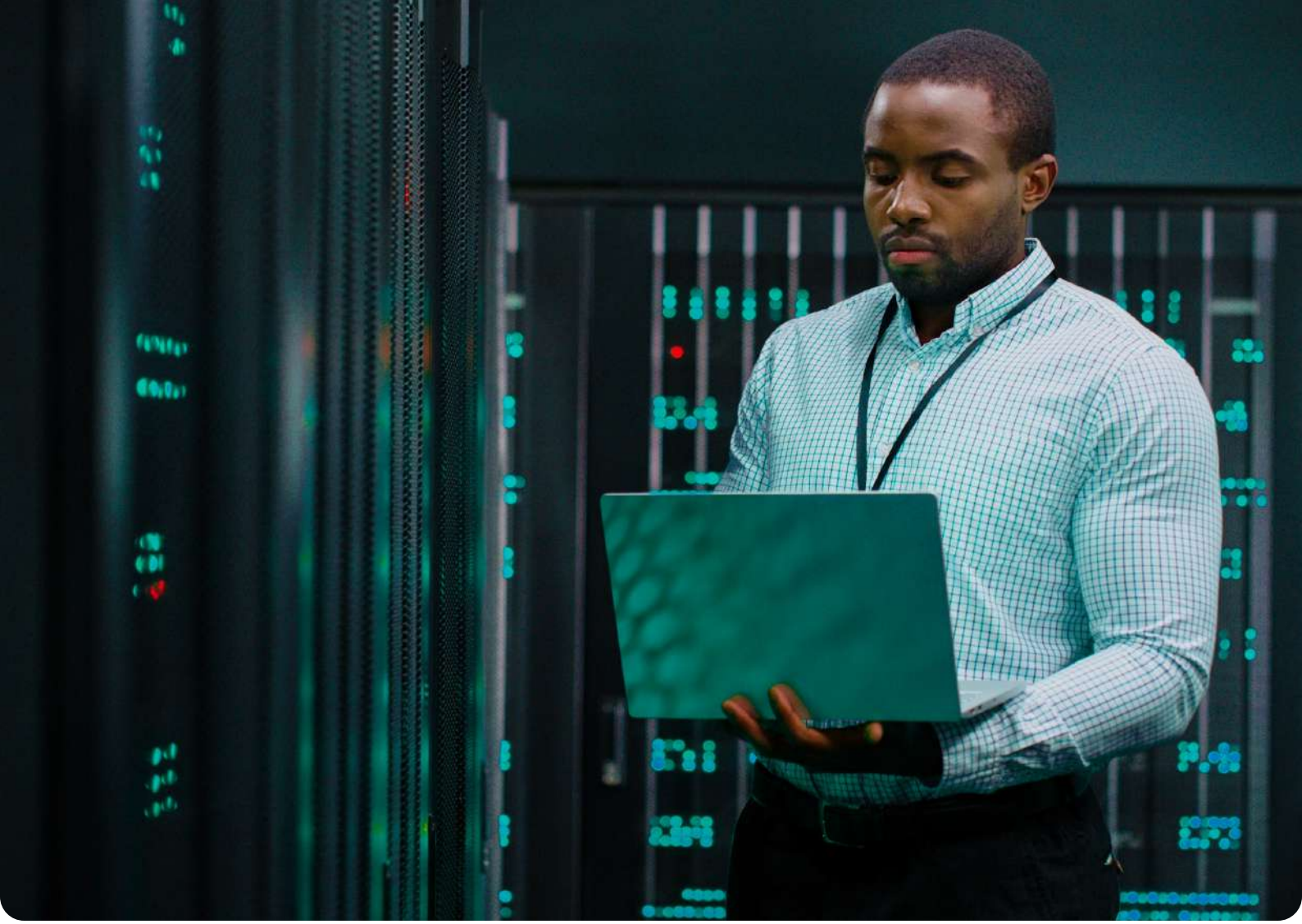
Seamless integration with multiple customer tools and data sources, enabling bidirectional integration to pull the context and push outputs back for accelerated downstream delivery

FinOps reporting dashboards provide analytics for productivity gains, modernization accelerators, test efficiency, code quality and AI ROI

Ontology and relationship discovery enabling semantic traceability by discovering relationships between requirements, code, tests, defects and APIs

LLM-agnostic enables flexibility to choose any commercial, open-source or proprietary model for powerful generative and predictive capabilities





AI Force.Software in action

Accelerating testing automation for networking and telecom OEM using GenAI

The challenge

Manual test script development and debugging relied heavily on human expertise, resulting in inefficiencies, high review effort, complex customization and increased dependency on specialized resources.

The solution

HCLTech deployed AI Force to automate test script generation using GenAI, orchestrating model instructions, generating readable script summaries and enabling secure integration with cloud and local AI models.

The impact

~39% reduction in bandwidth usage in testing services with higher-quality test scripts that had precise comments and descriptions. It also accelerated testing delivery across networking and telecom environments.

Reimagining software engineering lifecycle for a leading financial services company

The challenge

Core engineering activities—unit testing, code reviews and security checks—depended heavily on manual execution, consuming developer time and slowing delivery while demanding uncompromising quality and security.

The solution

HCLTech partnered with the client to integrate AI Force with OpenAI and MistralAI LLMs, automating unit test generation, code reviews and security assessments across Java and ReactJS codebases.

The impact

40–45% reduction in overall development effort, resulting in significant time savings across testing, review and security tasks and faster release cycles with consistent quality enforcement.





Mainframe exit through accelerated modernization leveraging GenAI for a leading health insurance provider

The challenge

The company migrated most of the mainframe apps to other target systems and only four applications were left on mainframe and had to incur very high TCO (infra, software and tools costs) to support the business.

The solution

HCLTech adapted AI Force powered modules for accelerated inventory analysis, modernization of mainframe applications to Java technology on Azure stack and test automation.

The impact

Reduction of modernization effort by **60%,** cutting modernization time in half. There were near-term and long-term cost savings coupled with effective visibility and control of costs.

Transform your enterprise landscape with confidence.
Contact us to book a live demo and see how **AI Force.Software** can drive enetrprise effeciency.

For more details visit our webpage - AI Force | HCLTech

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About HCLTech

HCLTech is a global technology company, home to more than 226,300 people across 60 countries, delivering industry-leading capabilities centered around AI, digital, engineering, cloud and software, powered by a broad portfolio of technology services and products. We work with clients across all major verticals, providing industry solutions for Financial Services, Manufacturing, Life Sciences and Healthcare, High Tech, Semiconductor, Telecom and Media, Retail and CPG, Mobility and Public Services. Consolidated revenues as of 12 months ending December 2025 totaled $14.5 billion. To learn how we can supercharge progress for you, visit hcltech.com.

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