

# Cognitive Infrastructure Services

Enabling Generative AI  
adoption at scale



AI and GenAI have been nothing short of a revolution for businesses across industries. However, to unlock the boundless creativity GenAI offers, you must have a resilient, agile and scalable digital foundation along and access to the ever-increasing ecosystem in this space.

So, whether you're looking for use cases like natural language processing, chatbots or document summarization - or your developers are considering SDLC productivity or code generation use cases, a robust digital foundation backed by GenAI models can transform business at a scale never imagined before.

## Market view

**\$19.9 T**

Estimated contribution of AI to the global economy through 2030, accounting for 3.5% of global GDP in that year

**\$200 Bn**

Expected AI infrastructure spending by 2028, reflecting rapid investment in foundational technologies

Source: IDC

Source: IDC

**50%**

By 2027, half of all generative AI models used by enterprises will be tailored to specific industries or business functions

**75%**

Businesses will use generative AI to create synthetic customer data, by 2026

Source: Gartner

Source: Gartner

## Key drivers for GenAI adoption

Agile innovation



Faster time-to-market and staying relevant



Data monetization



Process and operation optimization



Collaboration



Customer experience



# Challenges in scaling GenAI adoption

- Infrastructure complexities
- Sustainability considerations
- Buy vs. build dilemma
- Governance and compliance
- Skills and expertise
- Deployment model choice
- Cultural transformation
- Data quality and security



## HCLTech Cognitive Infrastructure Services

HCLTech Cognitive Infrastructure Services, a part of HCLTech AI Foundry, offers a holistic and meticulously crafted approach to enhance AI and Generative AI capabilities. This hybrid offering spans consulting, assessment, building and management of AI workloads across private, hybrid and multicloud environments. It is tailored to meet the diverse needs of enterprises, ensuring seamless integration and efficient operation of AI technologies.

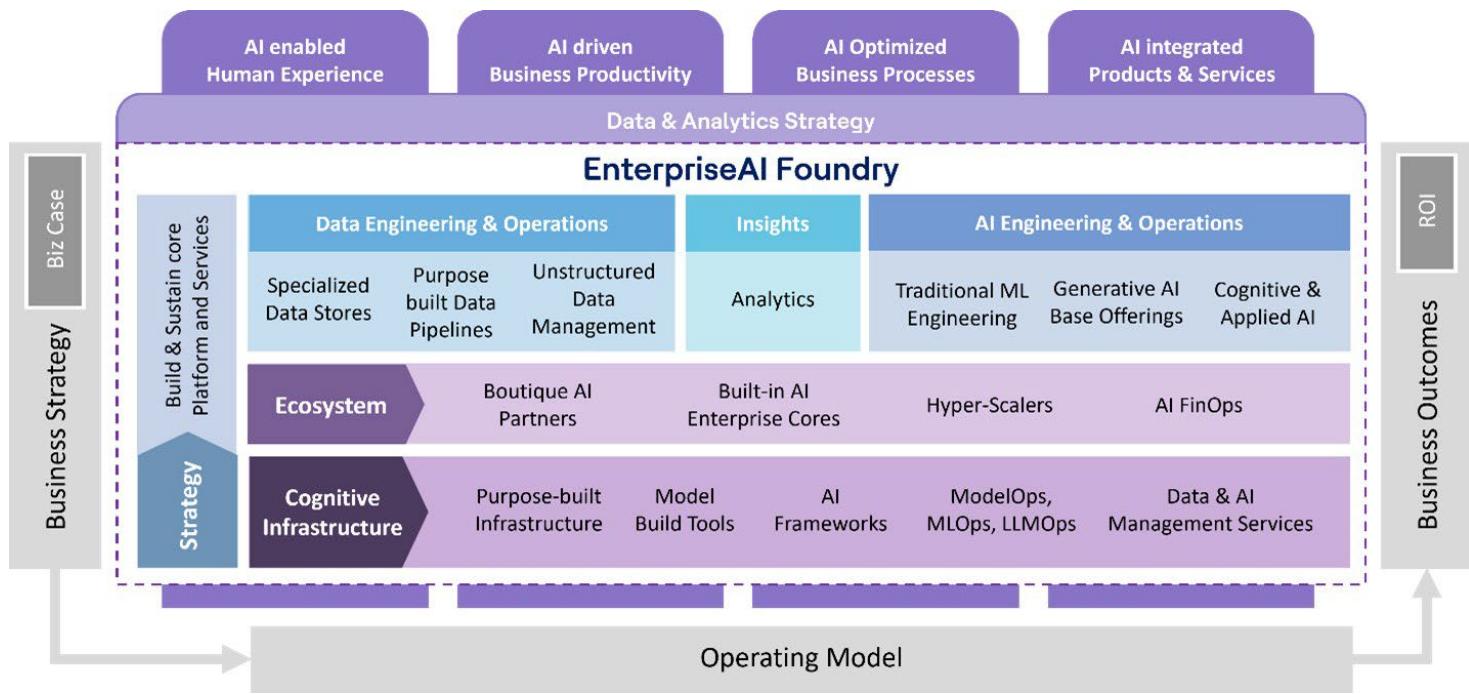
### **Powering GenAI with HCLTech Enterprise AI Foundry**

Our cognitive infrastructure is built on a robust full-stack foundation enabled by the HCLTech AI Foundry, facilitating smooth and scalable adoption of Generative AI across the enterprise. This end-to-end framework empowers organizations to deploy GenAI solutions effortlessly, whether the goal is to innovate, automate or optimize operations.

### **The HCLTech AI Foundry is engineered to:**

<ul style="list-style-type: none"><li>▪ <b>Transform customer experiences</b></li><li>▪ <b>Streamline business operations</b></li></ul>	<ul style="list-style-type: none"><li>▪ <b>Enable intelligent decision-making</b></li><li>▪ <b>Accelerate measurable business outcomes</b></li></ul>
---	--

It supports the creation of comprehensive AI estates while minimizing technical debt, helping enterprises evolve from experimentation to full-scale production. With a strong emphasis on responsible and sustainable AI adoption, the Foundry ensures long-term value and impact.



## Cognitive Infrastructure Service offering portfolio includes:



### AI advisory services

- Workshops to understand your use cases and suggest the best approach and methodology
- Infrastructure assessment to understand existing capabilities and craft a transformation roadmap for cognitive IT infrastructure
- Tools and platform selection
- Cognitive infra deployment approaches
- Buy vs. build decisions



### Platform and infrastructure build

- Building greenfield or scaling the cognitive IT infrastructure landscape, as per use cases and demands
- Building and deploying GenAI platform of choice, enabling customers to embrace GenAI at scale



### Operate and manage services

- Onsite/offsite support for cognitive infrastructure lifecycle management
- GenAI platform management
- Availability and performance monitoring
- MLOPS and observability
- Unified IT infrastructure and cloud monitoring and observability

Additionally, our services include fine tuning the build and run components for the following infra and platform use cases:

- **Script and runbook creation**
- **Enterprise knowledge search, recommendation and assistance**
- **Migration support bot**
- **Code generation**
- **Real-time analysis and summarization of queries**

## Benefits of HCLTech Cognitive Infrastructure Services

- Access to a diverse partner ecosystem, including Dell Technologies, HPE, NVIDIA, IBM, Rubrik, Commvault and hyper-scalers such as Microsoft, AWS, Google
- Reference architectures and frameworks to support adoption of GenAI vertical and horizontal use cases
- HCLTech IPs and accelerators for managing cognitive infra landscape
- Business case and TCO analysis
- Consulting services to support scale adoption of GenAI



## Our Accelerators and IPs

### ePACE

Accelerator to build a cognitive platform on public cloud

### AEX

Provides end-to-end automated service management

### HCL MyCloud

Hybrid cloud lifecycle management

### HCL MyXalytics FinOps

AI-driven hybrid cloud FinOps visibility and insights

### HCL BigFix

Hybrid endpoint management platform

# Why HCLTech

- HCLTech is positioned as Leader in the 2024 Gartner Magic Quadrant for Public Cloud IT Transformation Services (PCITTS)
- HCLTech is rated as Leader in ISG Provider Lens™ - Generative AI Services, Global 2024
- HCLTech is recognized with a Customers' Choice distinction in the 2024 Gartner Voice of the Customer report for Data Center Outsourcing and Hybrid Infrastructure Managed Services(DCO/HIMS) and Public Cloud IT Transformation Services (PCITTS)
- 100+ GenAI use cases
- Faster time-to-market through cloud native GenAI labs, IPs and frameworks
- Pool of AI engineers, data scientists and infra platform SMEs



## Partner ecosystem


# HCLTech | Supercharging Progress™

[hcltech.com](https://hcltech.com)

HCLTech is a global technology company, home to more than 223,000 people across 60 countries, delivering industry-leading capabilities centered around digital, engineering, cloud and AI, 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, and Public Services. Consolidated revenues as of 12 months ending June 2025 totaled \$14 billion. To learn how we can supercharge progress for you, visit [hcltech.com](https://hcltech.com).

