

HCLTech | Supercharging
Progress™

Supercharging 5G and beyond



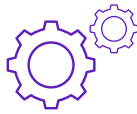
5G is no longer a technology for the future. 5G is here and is disrupting industries like never before. Advancements in 5G technology are unlocking new possibilities for creating value across multiple industry verticals and market segments.

To realize this potential, enterprises are increasingly investing in 5G innovation and research to address business challenges. At HCLTech, we are at the forefront of this 5G revolution with our solution-driven approach, technology depth and domain expertise.

We are accelerating the 5G revolution by converting today's most pressing 5G challenges into opportunities, and creating new monetization avenues for telecom and cloud service providers, and enterprises across industries.

Supercharging 5G revolution with HCLTech

We have a unique, ecosystem-driven 5G Engineering strategy that helps capture new revenue streams, deliver mission-critical solutions, and create immersive experiences, for the entire 5G ecosystem that includes: Telecom Service Providers (TSPs), OEMs, Hyperscalers, Semiconductor & Device Manufacturers, and Enterprises.



Product Engineering services

vRAN, 5GC design and development

Hardware Engineering (Embedded/ FPGA / RF)

RF board /Antenna design & development

Professional Services for Vendors, TSPs, Hyperscalers

Converged Network Elements (SDN, Converged Access) Development

Engineering Labs



Private networks & Enterprise 5G

Consultancy Services

Network design to deployment services

Managed services for enterprises

Use Case development and System Integration



Solution Engineering & SI services

5G System Integration Framework (5G SF)

CI/CD/CT

xNF Onboarding & Certification

Device Certification & Onboarding

Predictive Analytics & Service Assurance

Slice Management Solution

Day-0, Day-1, Day-2 Automation



Open RAN

(Open-Source Community Contribution)

Non-RT RIC / SMO / ONAP integration and Hardening

Nr RT RIC OSC contribution, hardening and integration

xAPP / rApp development



Multi-vendor, Multi-domain experience



Investments in 5G labs with 10+ Partners



CoE with practitioners to scale for 5G



Investments in products (SON), Open source

Our 5G Solutions – Accelerating the 5G revolution

Our portfolio of transformative 5G solutions and accelerators are tailored to leverage the full benefits of 5G and play a crucial role in the entire lifecycle of industry transformation.

5G SF (System Integration Framework)

Automate and accelerate Network Function onboarding, testing and validation, network abstraction, slice management, Service assurance and analytics

5G NOX

Support onboarding, Interoperability testing/ validation and certification of multi-vendor 5G Network Functions & 5G Devices

5G service assurance & analytics solution

Enables operators and enterprises to improve network service quality and user experience

TURBO

Intelligent 5G Test automation and orchestration platform, to manage, schedule, and monitor test case execution

Augmented Network Automation (ANA)

Self-Organizing Networks (SON) that leverages ML and Analytics across multiple layers to automate mobile networks, and reduce costs

5G Network in a box

Managed service solution for use case design, development, deployment, operation, management of Enterprise 5G solutions

Creating impact across industries and value chains

For a leading Hi-Tech OEM



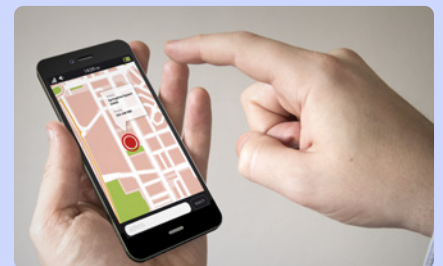
- Performed Open RAN interoperability testing, validation and re-certification services
- Successfully executed Radio Integration & System Testing, Radio Conformance Testing

For a Tier-1 Telecom Operator



- Designed and implemented Multi-cloud based MEC orchestrator to orchestrate xNF ordering and deployment
- Enhanced end-customer experience by developing an SD-WAN/SASE monitoring function for vendor systems

For a Tier-1 Electronic Manufacturer



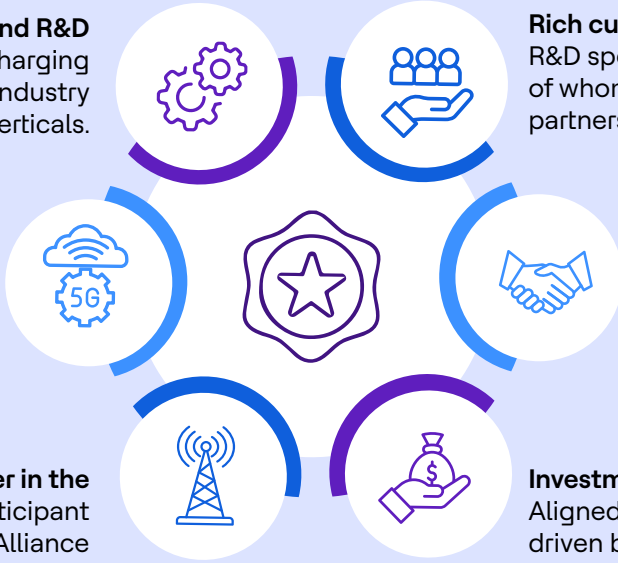
- Implemented a 5GC Location Management Function (LMF) to monitor personnel movement and provide real-time alerts
- Mission critical Enterprise 5G application for human safety, ensuring 99% safety compliance

Our Credentials

45+ years of Engineering and R&D service expertise: Supercharging Progress across 10+ industry verticals.

Investments in 5G Labs: State-of-the-art network centric and use-case specific Labs for testing, integration & PoC development

A uniquely positioned partner in the Open RAN space: Active participant and Key contributor in O-RAN Alliance & Telecom Infra Project (TIP) communities



Rich customer base: 63 out of 100 Top R&D spenders are our customers, many of whom have been our strategic partners for over a decade

Partnership-driven approach towards 5G: Collaborating with 20+ partners in a myriad of ways to co-create and develop services tailored to meet diverse industry and enterprise needs

Investment across entire value-chain: Aligned to customer imperatives and driven by automation, optimization, cloudification, and containerization

Analyst Recognitions



Everest Group

Leader in
5G Engineering Services
PEAK Matrix® Assessment
2021

Zinnov

Leader in
Zinnov Zones For
Digital Engineering Services
2022

Everest Group

Leader in
Digital Product Engineering Services
PEAK Matrix® Assessment
2022

ISG

Leader in
ISG Provider Lens™ Digital Engineering Services
Connected and Intelligent Operations
Discrete Industries, U.S.
2022

hcltech.com



HCLTech is a global technology company, home to 222,000+ people across 60 countries, delivering industry-leading capabilities centered around Digital, Engineering and Cloud powered by a broad portfolio of technology services and software. The company generated consolidated revenues of \$12.3 billion over the 12 months ended December 2022. To learn how we can supercharge progress for you, visit hcltech.com.