Blockchain Service Offerings for High Tech Industry

HiTech

The high tech and professional services industry, which has always been at the forefront of innovation, is beginning to experiment with and invest in blockchain – the disruptive distributed ledger technology. Aiming to ensure accountability, immutability, and auditability of data to nurture trustworthy business ecosystems, high tech companies are looking to tap into the immense possibilities blockchain offers. The technology could potentially unlock significant value for the industry with regard to supply chain traceability, loyalty programs, vendor management, digital identity and rights management, audit trails, and records reconciliation.

Tata Consultancy Services' (TCS') offerings enable high tech companies to confidently embark on blokchain-driven transformations by fostering a structured, design thinking led approach that is complemented by a range of proofs of concept and proofs of technology. TCS helps organizations select the right use cases, navigate the complex technology ecosystem, and determine key considerations for pilot projects and large scale adoption.

Overview

High tech companies are exploring new frontiers of innovation by venturing into areas previously unexplored, leveraging ecosystems, and challenging deeply held assumptions about the industry. Today's transaction value chains involve multiple external stakeholders, span different geographies, are highly centralized, and often suffer from an inherent trust deficit. The new–age, 'everything as a service' economy needs decentralized platforms that can automate trust, eliminate disputes, and enhance the overall visibility across business networks. Such a setup should also facilitate automated execution of the terms and conditions of a transaction, and direct exchange of value without relying on intermediaries.

Blockchain is slowly but surely evolving into a disruptive technology, with its features of immutability, consensus based protocols, smart contracts, and peer-to-peer, disintermediated interactions. TCS offers a suite of solutions and services to help high tech companies:
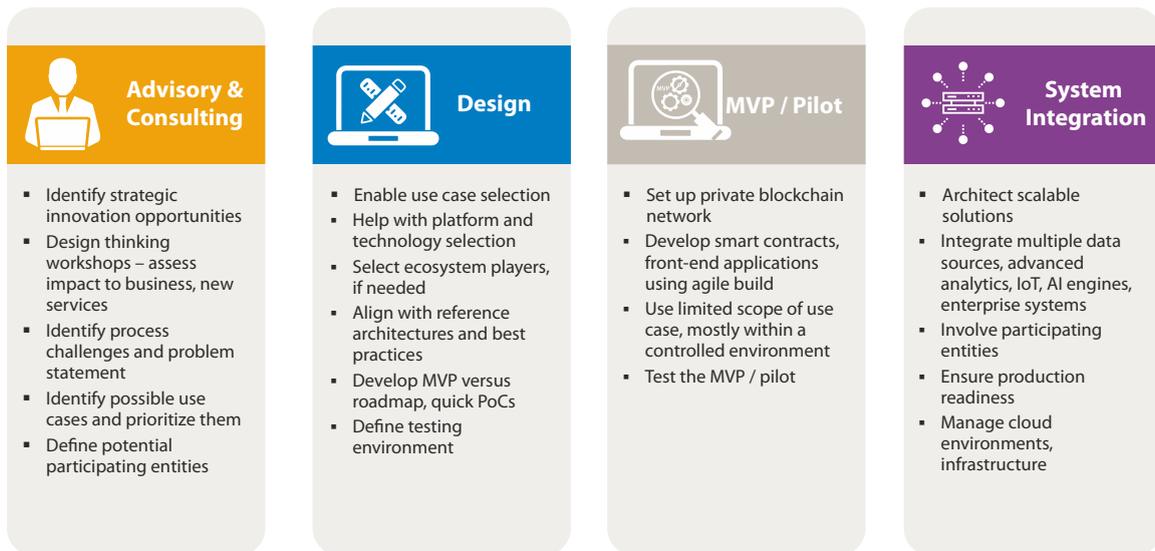
- Develop the right enterprise strategy for blockchain adoption

- Explore and experiment with leading blockchain platforms

- Define and prioritize business use cases

- Conduct rapid prototyping for select use cases

- Test the compatibility with existing applications

Our Solution

TCS offers a range of solutions and services to help high tech companies comprehend the art-of-the possible with regard to applying blockchain to various industry scenarios. We offer:

- **Advisory services:** Assess an organization's business requirements and technology maturity to formulate blockchain adoption strategy and use cases. Evaluate the impact on business processes, conduct executive briefings and workshops, identify stakeholders, and outline the implementation roadmap.

- **Pilot programs:** Develop and validate prototypes or minimum viable products (MVP) in controlled environments by leveraging right-fit blockchain platform and ready-to-use reference architectures and decentralized applications.

- **System integration:** Architect production ready, scalable systems and integrate them with multiple data sources, enterprise applications, and analytical engines.

An Overview of TCS' Blockchain Service Offerings for the High Tech Industry

Advisory & Consulting

- Identify strategic innovation opportunities
- Design thinking workshops – assess impact to business, new services
- Identify process challenges and problem statement
- Identify possible use cases and prioritize them
- Define potential participating entities

Design

- Enable use case selection
- Help with platform and technology selection
- Select ecosystem players, if needed
- Align with reference architectures and best practices
- Develop MVP versus roadmap, quick PoCs
- Define testing environment

MVP / Pilot

- Set up private blockchain network
- Develop smart contracts, front-end applications using agile build
- Use limited scope of use case, mostly within a controlled environment
- Test the MVP / pilot

System Integration

- Architect scalable solutions
- Integrate multiple data sources, advanced analytics, IoT, AI engines, enterprise systems
- Involve participating entities
- Ensure production readiness
- Manage cloud environments, infrastructure

Benefits

With TCS' solutions and services, high tech and professional services companies can embark on blockchain-driven transformative programs to realize multi-faceted growth. We help you:

Reimagine value chains, business models, partner ecosystems, and compliance management through industry specific use cases

Reduce the complexity in validating and implementing blockchain solutions

Accelerate the time-to-market through our reference frameworks, technology architectures, and rapid deployment services

Minimize the total cost of ownership (TCO) through innovative service delivery models

The TCS Advantage

Benefit from TCS' deep domain knowledge across various segments including computer platforms, software products, recruitment industry, tax and advisory firms, electronic distributors, real estate companies, and new-age software companies. TCS brings the following differentiators to an engagement:

- **Dedicated centers of excellence (CoEs):** Recognizing the need to stay abreast of technological advances, TCS invests heavily in R&D as evidenced by our global network of innovation labs and CoEs. TCS has a strong base of blockchain functional and technology experts who are well-versed with the different business processes and leading technologies. We have developed a range of deployment accelerators and frameworks to help global organizations execute distributed digital ledgers quickly and effectively.

- **Industry specific solutions:** TCS' investments in early MVPs and use cases like audit trails, supply chain traceability, loyalty networks, commercial real estate, procurement automation, candidate background checks, secured digital files have helped accelerate the blockchain exploration and implementation journey for clients across High Tech and professional services industries.

- **Platform-agnostic approach:** Our capabilities across Hyperledger, Ethereum, blockchain as a service (BaaS), decentralized applications, front-end technologies, and full stack technology expertise have helped us address the diverse needs of our clients.

- **Rich partner network:** TCS has forged alliances with leading global blockchain players including IBM, Microsoft, and SAP. This helps us gain early access to technology advancements, further strengthening our industry position.

TATA CONSULTANCY SERVICES

Experience certainty.

Awards & Recognition

To know more
Visit the **HiTech** page on **tcs.com**
Email: **hitech.marketing@tcs.com**

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model^{TM}, recognized as the benchmark of excellence in software development. A part of the Tata Group, India's largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

For more information, visit us at **www.tcs.com**

IT Services
Business Solutions
Consulting