

Powering the Future
of Healthcare ▶

 **CitiusTech**

Medical Technology

Leveraging digital innovation and
product engineering expertise for
better and faster patient outcomes



MedTech: Overview

MedTech companies worldwide are shifting their focus from products to connected care and integrated solutions.

With a dynamic regulatory environment and the rapid adoption of value-based care models, MedTech companies need to digitally transform their legacy technologies, enhance patient engagement and physician empowerment.

CitiusTech is uniquely positioned to address complex industry challenges and accelerate digital innovation for MedTech companies.

CitiusTech is a leading provider of healthcare technology solutions and consulting services to healthcare organizations and MedTech companies. With one of the largest healthcare engineering workforces worldwide, we help the world's leading MedTech companies leverage digital innovation and product engineering expertise for better and faster patient outcomes.

With a 2,800+ strong engineering team we offer best-in-class technology expertise, 200+ pre-built accelerators and specialized solutions across complex industry needs – such as connected health, patient/physician engagement, AI-assisted health, predictive analytics, SaMD/digital therapeutics and process transformation.

As your trusted partner, we help you leverage our deep domain knowledge and product engineering expertise to drive transformational initiatives across the value chain.

Leveraged by **10 of the world's top 20** medical technology companies and **5 of the world's top 10 life sciences companies.**



As a strategic partner to some of the world's largest health systems, medical technology companies and life sciences organizations, we play a deep and meaningful role in accelerating digital innovation, driving sustainable value and helping improve outcomes across the healthcare ecosystem.

2,800+

Engineering & QA professionals

30+

Healthcare technology clients

300+

Medical imaging experts

4.5/5

Client satisfaction score



Leveraging Next-gen Technology to Address Business Challenges & Needs

Connected Health

360° patient / consumer view & multivariate analytics

- 360° patient view
- Population health management
- Diagnosis effectiveness
- Post-discharge monitoring
- Medication adherence

Imaging & AI-Assisted Health

Patient access, CDS, next-gen imaging, device & risk management

- Integrating imaging modalities
- Imaging analytics & AI
- Care co-ordination
- Scheduling & utilization mgmt.
- Diagnosis & treatment planning
- Billing & claims workflows

Patient Engagement

Seamless, digital touchpoints across the patient journey

- Patient / physician portals
- Patient access and engagement
- Physician empowerment
- Virtual care
- Wellness & remote monitoring

Predictive Analytics

Enterprise healthcare platform implementation & sustenance

- Diagnosis & disease prevention
- Patient risk & readmissions
- Disease probability & mortality
- Preventive maintenance of medical devices
- Load & utilization analytics

SaMD / Digital Therapeutics

Modernizing medical devices to improve patient outcomes

- Remote patient monitoring
- Preventive care & personalized Rx
- Disease detection & diagnosis
- Device / EMR interoperability & workflow integration
- Digital patient engagement

Digital RCM

Optimize RCM processes through digital technology

- Develop RCM solutions
- EDI integration
- AI/ML & NLP based billing, procedure mapping, claims analysis
- Process optimization using RPA
- RAC audit compliance

Digital Transformation

Digital Health approach aligned to patient-centric care models

- Tech. adoption – Cloud, AI/ML, API, Microservices, Edge Computing
- Health record digitization
- Legacy system modernization
- Integration of new data sources, i.e., SDoH, wearables, IoT

Interoperability

Accelerate FHIR adoption & comply with 21st Century Cures

- Data enrichment & EDW
- FHIR analytics & Data Science use cases
- NLP for supplemental data extraction
- Real-time streaming
- CMS compliance modules

Modern Data Engineering

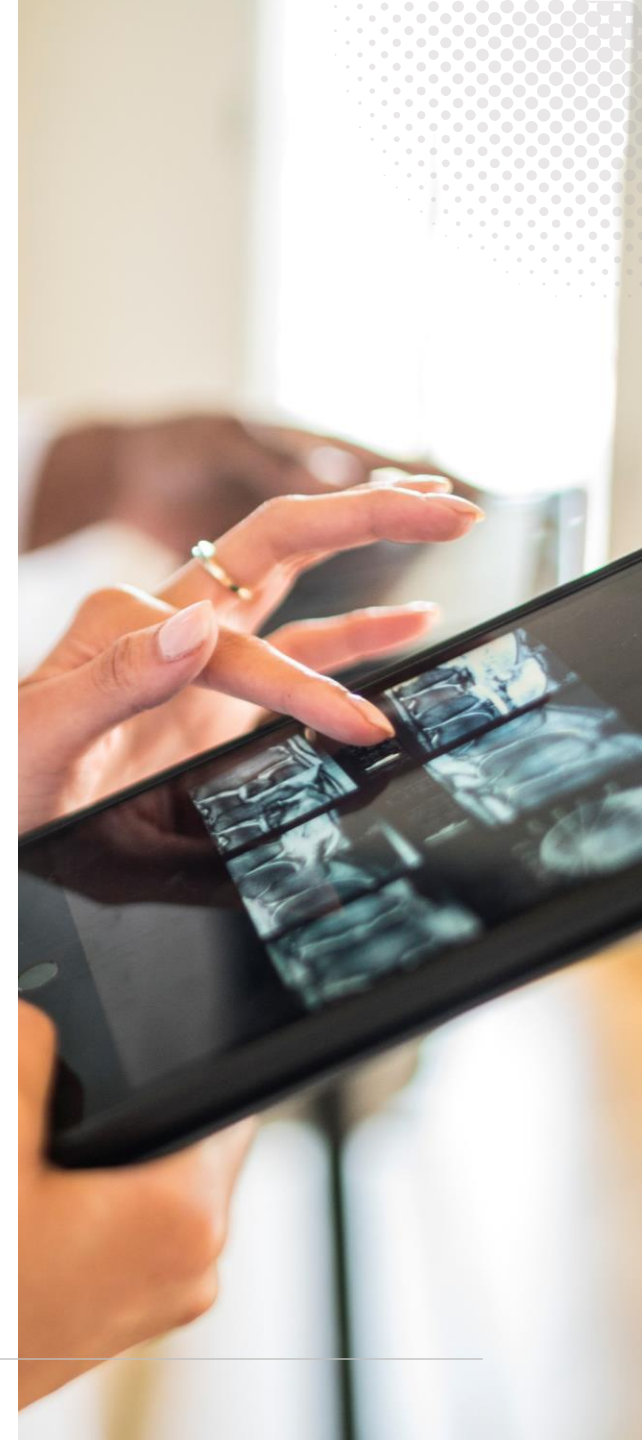
End-to-end data strategy, management & governance

- Data modernization & single source of truth (EDW, Data Lakes)
- Resilient data warehouses
- Data lakes with underlying Big Data technologies
- Data quality & security

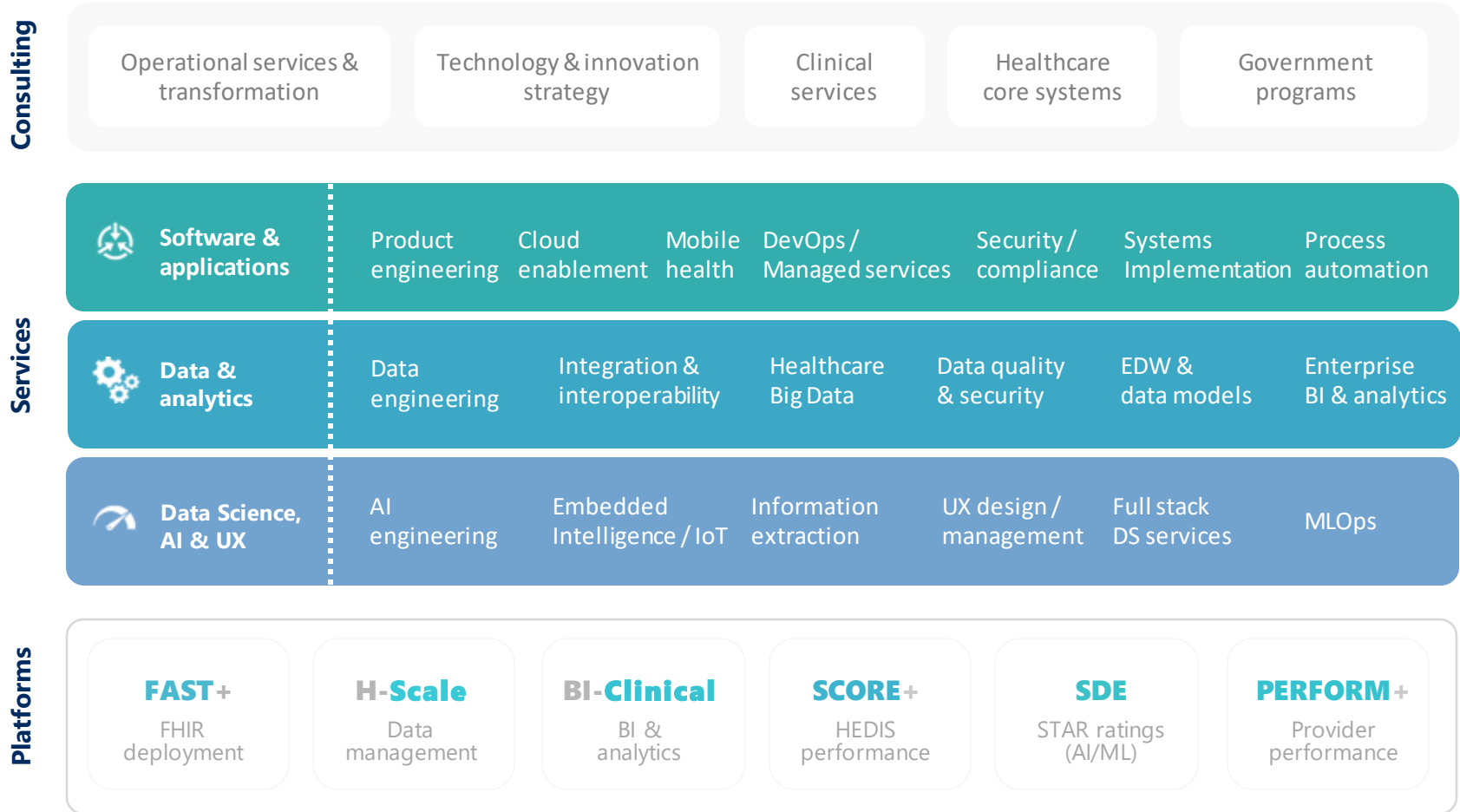
Sustenance Engineering

End-to-end managed services across the product lifecycle

- Product Engineering support
- Implementation services
- Infrastructure & EDW managed services
- Cloud migration & support
- Intelligent automation



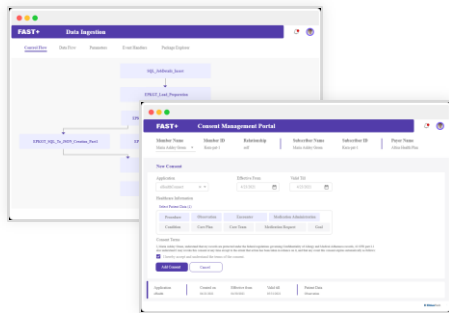
Enabled by Key Technology Offerings & Platforms





Accelerating Digital Innovation with Scalable Platforms

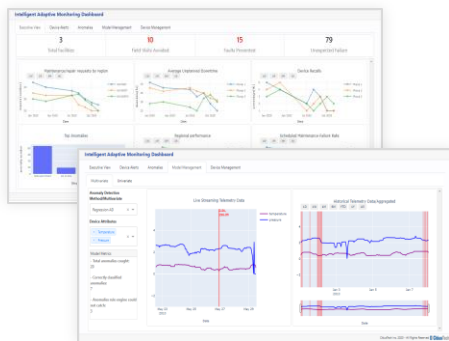
CitiusTech offers specialized healthcare platforms that combine our deep understanding of healthcare business drivers (workflows, data structures/sources, user groups and interoperability standards) with a pre-built, repeatable and scalable approach to technology deployment.



FAST+

Healthcare Interoperability Platform

FAST+ is a unified platform to accelerate the adoption of FHIR and comply with the 21st Century Cures Act. It includes pre-built features for rapid implementation, identity access management & consent management.



IAM

Device Predictive Maintenance Platform

A collection of intelligent algorithms that can complement traditional rules-based device monitoring to effectively detect and flag anomalies. The IoMT enabled solution enables medical device companies to augment their remote device management solutions.

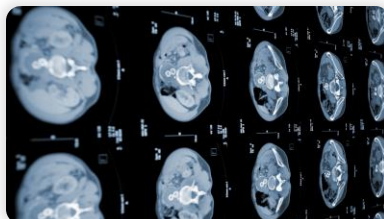
Success Stories: Long-term, High Value Relationships with Leading MedTech & Life Sciences Organizations



Global Leader in Medical Imaging Solutions

9+ year relationship

- **Preferred global partner**
- **Product engineering** - medical imaging, mobile, dose management and patient data analysis (AI/ML)
- **Multiple models - End-to-end** program management, blended teams, strategic staffing
- Product **integration & migration**



Leading Provider of Renal Care Solutions

11+ year relationship

- **Digital transformation /** application modernization, development & QA
- **Next-gen application development** and long-term support
- **Enterprise data warehousing** for eligibility, claims, referral data, etc.
- Set up QA center of excellence



One of the World's Largest Biotech Companies

3+ year relationship

- **AI Engineering** - Custom AI/ML scientific collaboration platform to create, share and refine healthcare data models
- **Cloud-native** platform – leveraging AWS infrastructure
- Actively used by 2000+ **data scientists** for AI/ML model development in areas like medical oncology

Suite of Accelerators for Clinical & Operational Excellence



Interoperability

FAST+: FHIR-based solution to comply with CMS' interoperability rule and accelerate FHIR adoption

FHIR Adapters: Transformation tool for generic conversions between EDI / HL7 to FHIR and vice-versa

H-IQM: Data quality and monitoring through seamless integration with existing systems, prebuilt KPIs and integrated dashboards



Data Engineering

H-Scale: Aggregate, process and standardize structured & unstructured datasets

Healthcare Data Models: For clinical, claims, operations and managed care

Data Quality Rules Library: Library of 1,500+ rules

IoT Device Platform Framework: Data ingestion, enrichment & processing



Cloud Engineering

Microservice Starter Kit: Rapid development and deployment of microservices

Azure FHIR Starter Kit: Quick setup of the FHIR platform – data ingestion & transformation pipeline

Terraform IaC Library: Ready-to-use templates across all major cloud providers

Auto ML Environment: Auto spin up machine learning training infra



Data Science

CIX: Extract and standardize clinical information from varied data type

Smart Data De-identifier: PHI de-identification, intelligent search, etc.

MLOps: Integrate models with existing processes

IAM: AI-based remote monitoring technology for patients & devices



DevOps & RPA

Core Resource Dashboard: Monitor key metrics in real time and alerts in case of breaches

Advance DevOps Framework: Automation of the entire application deployment life cycle

SMART RPA Framework: Enable standardization in RPA development lifecycle

About CitiusTech

CitiusTech (www.citiustech.com) is a leading provider of healthcare technology services, solutions and platforms to over 130 organizations across the payer, provider, medical technology and life sciences markets. With over 5,000 technology professionals worldwide, CitiusTech powers healthcare digital transformation through next-generation technologies, solutions and accelerators. Key focus areas include healthcare interoperability & data management, quality & performance analytics, value-based care, omni-channel member experience, connected health, virtual care coordination & delivery, personalized medicine and population health management.

CitiusTech has two subsidiaries, FluidEdge Consulting (www.fluidedgeconsulting.com) and SDLC Partners (www.sdldapartners.com), with deep expertise in healthcare consulting and payer technologies, respectively. CitiusTech's cutting-edge technology expertise, deep healthcare domain expertise and a strong focus on digital transformation enables healthcare organizations to reinvent themselves to deliver better outcomes, accelerate growth, drive efficiencies, and ultimately make a meaningful impact to patients.

130+
healthcare clients

\$300M+
worldwide revenue

5,000+
healthcare IT professionals

40M+
lives touched

80+
NPS - highest in the industry!

CitiusTech Key Contacts



Dhaval Shah

Sr. Vice President
Healthcare Technology
CitiusTech

20+ years of experience in healthcare technology, spanning various domains including healthcare interoperability and enterprise application architecture. At CitiusTech, Dhaval heads strategic partnership management for large healthcare organizations.

Prior to CitiusTech, Dhaval worked with leading healthcare organizations and contributed in different roles such as Research Engineer, Lead Engineer and Chief Architect.

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Vinil Menon

Sr. Vice President
& CTO
CitiusTech

20+ years of product engineering experience. Heads the Technology Leadership Organization at CitiusTech and is also the Business lead for Enterprise Applications proficiency at CitiusTech. Responsible for Product Engineering, QA, Cloud, DevOps and Mobile practices.

Prior to CitiusTech, was a Program Manager at Microsoft.

Holds a Management development program from Indian Institute of Management (IIM)

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Sridhar Turaga

Sr. Vice President
Data Science & AI
CitiusTech

25+ years experience in building globally innovative businesses out of India (services and products) and management consulting (Deloitte Consulting, NY)

Earlier was with Mu Sigma where he was a part of the Data Science leadership

Holds an MBA degree from the Indian Institute of Management (IIM) and a Bachelors Degree in Technology from the Indian Institute of Technology (IIT)

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