

Technology Landscape for Lifesciences & Healthcare Building the Right Eco-System for Scale



OUR VISION Think Digital. Think India

When the world thinks Digital, the World will think India.

OUR MISSION

To help the technology products and services industry in India to be Trustworthy and Innovative across the globe

STRATEGIC IMPERATIVES



Build the Industry Narrative with focus on **Talent**, **Trust** and **Innovation**



Reskill and Upskill India's workforce to ensure TALENT is Future Ready in terms of New Age Skills and Jobs



Champion Equal Opportunity and Diversity in everything we do



Strengthen India's Innovation Quotient and Impact



Create new Market Access in India and across the Globe



Drive **policy advocacy** to advance Trust, Innovation and Ease of Doing Business



WHAT SUCCESS WILL LOOK LIKE IN 5 YEARS

4 Million Citizens Trained for New Age Skills and Jobs under NASSCOM Future Skills

India established as one of the Leading Innovation Hubs for AI implementation, IOT and Cybersecurity

Win-win engagements across the globe for Indian IT cutting across segments – higher diversified country portfolio

Regulatory Framework to maximize innovation and security

Indian IT positioned globally as an **industry that fuels cutting edge Innovation with Trust and Talent**



- ✓ USD 300-350+ Billion Tech Product and Services Industry
- Add 1% incremental growth to Indian GDP

NASSCOM IS WELL STRUCTURED TO ACHIEVE THESE GOALS





OUR FOOTPRINT



Delhi



Kolkata





Thiruvananthapuram



Mumbai



Kochi



Chennai



Pune



Hyderabad

Innovation does not take place in Isolation



Extraordinary Innovations take place at the Intersection of Diverse eco-system

Enterprise Innovation Models



Internal Innovation Entirely within Internal teams No Dependency Incremental Innovation Long gestation periods



Absorb External Innovation

Entirely External External Teams Entirely new ideas Shorter Innovation Cycles No talent within the organization



Collaborative Innovation Best of both worlds Internal/External teams Revolutionary Products/services Quicker Adoption Needs Strong Governance

THE KEY PLAYERS

Driving the Culture of Collaborative Innovation







LHIF – Lifesciences & Healthcare Innovation Forum is a neutral platform for collaboration & open-innovation

- Catalyse the digital transformation for the Lifesciences & Healthcare industry
- Play an active role in bringing affordable, sustainable and scalable healthcare delivery for the citizens, and bridge the gap between demand and supply.
- Provide a collaborative platform for the participating enterprises to adopt innovative tech solutions within their organizations
- Publications & Research Papers on Technology Trends & Adoption Indices in Lifesciences & Healthcare
- Work on Policy advocacy in collaboration with industry partners and associations
- Actively promote deep tech innovation in healthcare through startups and technology companies









Our Goals

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Improve Healthcare Delivery in India (Public/Private)



Catalyse HealthTech Innovation & Biz Opportunities Facilitate Faster Tech Adoption in Healthcare Delivery



Promote Healthcare awareness and preventive health

Make India an Innovation Hub for Healthcare & Lifesciences

There are multiple areas where we together can play a major role IoT/AI | Big-Data & Analytics | m-Health & e-Health platforms | Electronic Health Records Low Cost Medical Devices | Open Architecture | Data Security & Privacy | Standards Healthcare Awareness | Digital Wellness Centres | Patient Life-Cycle Management Preventive & Predictive Health | Remote Healthcare Delivery | Health Insurance

A three-pronged approach to create impact



What the Platform offers?

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- Neutral Collaborative Platform to work on diverse topics around Healthcare
- Connect healthcare eco-system across the country to leverage each others expertise
- Unique Healthcare Innovation Centre planned to be set up either in Delhi or in Bangalore
- Opportunity to set up Experience Zones/Living Labs at the Innovation Centre
- Build solutions collaboratively to address huge challenges in the healthcare delivery

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Universal Healthcare The Indian Context

Indian Healthcare statistics ... Still a long way to catch-up with WHO guidelines



The Big Challenges – beyond the obvious



Healthcare Spends – Indian Context



- India's healthcare spend is one of the lowest in the developing nations.
- Of 4.25% of India's GDP spend on Healthcare Govt spend is 1.5%, as against WHO guideline of 6.4%
- Governments target healthcare spend of 2.5% of GDP by 2025 may not considerably increase the per capita spend, mainly due to population growth, especially the ageing population.

68%

of Government spend is towards sustaining and modernizing public health infrastructure, which is either under-staffed or under-utilized. But more Government Spend need not lead to better healthcare – unless the country adopts a balanced approach



A. Care Process. B. Accessibility C. Administrative efficiency D. Spend

Developed Nations are struggling with high mortality rates, avoidable hospital admissions and lack of focus on preventive health.

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The Big 4 Influencers

Mobile Penetration as % of Population	26%	30%	36%
Data costs in Rupees per GB	7 9	₹ 19	₹ 11
Internet Users in Millions	295	438	483
Heath-Tech Start-ups & SMEs	- 900	~ 1050	~ 1200
	2016	2017	2018

- Personal Healthcare Data Consumption is increasing
- Digital India Initiatives are helping the tech adoption
- Use of wearables on the rise

Technology Adoption Vs. Maturity Use of AI in healthcare is raising steadily



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Technologies that are revolutionizing Healthcare Industry



- 3D Printing
- 3D printed artificial limbs like prosthetic arms and legs
 - Artificial organs such as artificial hearts, kidneys and liver etc. soon making an entry
 - 3D printed medicinal strips for optimized drug dosage based on personalized medicine

The technologies are proven, but the need of the hour is scaling up the adoption

Tech adoption in healthcare industry is one of the lowest



Insufficient Funds



Privacy & Security

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Resistance to Change



Lack of trust



NASSSCOM Centre of Excellence for IoT & Al Your Partner in Digital Transformation Journey