



Healthcare Innovation Challenge

Inspiring Digital Adoption in Healthcare Institutions

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Healthcare Sector is under immense stress due to increased costs, reduced utilization and regulatory restrictions. Due to the COVID-19 pandemic, regular patient footfall into the hospitals has been adversely impacted. These changing dynamics are compelling Healthcare delivery organizations to look for newer delivery models.

To support the Hospitals in achieving these objectives, NASSCOM CoE has launched first of its kind program called Healthcare Innovation Challenge (HIC). The program is to be executed over several challenges, addressing different digital technology challenges of various stakeholders engaged in Healthcare services.

The key objectives of Healthcare Innovation Challenge (HIC) are:

- ✓ Driving operational excellence enhancements for Healthcare Service Providers by enabling automation of key processes and digitization of clinical workflows through Collaborative & Frugal Innovation
- ✓ Enabling Healthcare Service Providers to nominate Use Cases as per their digital solution needs
- ✓ Driving the program that enables the curation, evaluation & deployment of Technology led Innovative solutions that address the nominated Use Cases

NOMINATED USE CASES

OPD Automation

Sakra World Hospital, Bengaluru

IPD Automation

Zydus Hospital, Ahmedabad

Prescription Digitisation

Rajiv Gandhi Cancer Institute, New Delhi

Digitising Pathology Slides

Dr Mehta's Multispecialty Hospital, Chennai

Integration of Diagnostic
equipment with EMR

Aravind Eye Care System, Madurai

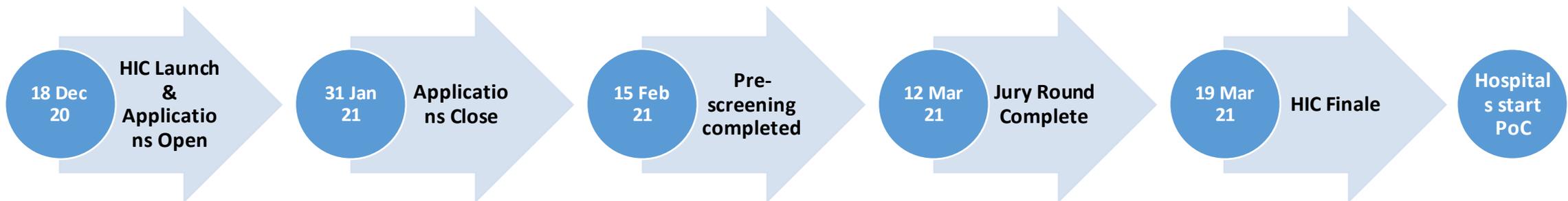
AI based Respiratory
Syndrome Diagnosis

IMS & SUM Hospital, Bhubaneswar

HIC TIMELINE & PROCESS

The program was launched on 18th December 2020. Post the launch applications were invited for the six nominated use cases. Over 125 applications received from various solution providers pan India were then prescreened by the CoE team. 23 pre-screened applications were presented to the Jury Panel. The jury consisted of technocrats from partner hospitals, corporates and other interested hospitals, who evaluated the solution providers on Solution Fitment, Ease of Use, Solution Pricing, Team's expertise, Deployment Model, Data Security, and Integration Capabilities with the existing software & devices in Hospitals.

Winners and runners up were announced during the Finale by partner hospitals who had played key role in the jury panels. **This has been followed by the initiation of deployments by the Hospitals along with the winning solution providers.**



JURY PANELS

PANEL 1

Use Case - OPD Automation & IPD Automation | Use Case Code - OPDA & IPDA



Dr. Pinky Yadav
COO cum Medical
Superintendent, RGCIRC



Bhoopendra Solanki
Head - IT, Sakra World Hospital,
Bengaluru



Saravanan Sankaran
CIO, Aravind Eye
Care System, Madurai



Dr. Sameer Mehta
Vice Chairman, Dr Mehta's
Multispeciality Hospital, Chennai



Ganapathy Shankar
CTO, Dr Mehta's Multispeciality
Hospital, Chennai



Deepak Arora
Director - Market Access and
Commercial Strategy, AstraZeneca



Gita Babaria
India CTIO, Medical Practice,
Capgemini



Kedar Medhi
Director, Philips Innovation
Campus, Bengaluru



Manishkumar Rai
IT Head, Zydus Hospital



Naveen Kumar
General Manager
IT, KIMS Hospital, Hyderabad



Shyamnath Harinath
GM, Innovation Management &
Digital Business, Siemens Healthineers



Joy Chakraborty
COO, Hinduja Hospital,
Mumbai

PANEL 2 Use Case - AI based Respiratory Syndrome Diagnosis and Prescription Digitisation | Use Case Code - AI_RESP & ERx



Renuka Bodla
Head -
Novartis Biome India



Dr. Anil Kukreja
Vice President -
Medical Affairs & Regulatory,
AstraZeneca



Kedar Medhi
Director -
Philips Innovation Campus,
Bengaluru



Srinivasan S
Head -
Commercial Excellence,
Siemens Healthineers



Dr. Vidur Mahajan
Associate Director -
Mahajan Imaging



J. P. Dwivedi
CIO -
Rajiv Gandhi Cancer
Institute, New Delhi



Dr. Jayashankar Das
Director - Research,
Institute of Medical Sciences &
SUM Hospital, Bhubaneswar



Manoj Kapoor
Vice President and Head
Product Engineering & Product
Management, Optum Global Solutions

PANEL 3

Use Case: Digitizing Pathology Slides and Integration of Diagnostic equipment with EMR | Use Case Code: SLID_DIG & DIAG_EMR



Deepthi Nath
General Manager
Strategic Initiatives,
Sakra World Hospital



Ayan Choudhury
Vice President
Imaging System Software,
GE Healthcare



Chandra Mouli
Chief Information &
Technology Officer,
Sankara Nethralaya, Chennai



Dr. Anil Kukreja
Vice President
Medical Affairs & Regulatory,
AstraZeneca



**Dr. Mohiudeen
Azhar**
Medical Device - R & D Division,
Siemens Healthineers



Dr. Sameer Mehta
Vice Chairman
Dr. Mehta's Multispeciality
Hospital, Chennai



**Srinivasan
Sundararajan**
VP Technologies
GAVS Technologies



Ganapathy Shankar
CTO
Dr Mehta's Multispeciality
Hospital, Chennai



Joji George
Senior Director
Clinical Care Solutions Digital,
GE Healthcare



Saravanan Sankaran
CIO - Aravind Eye
Care System, Madurai



Shyamnath Harinath
GM, Innovation Management &
Digital Business, Siemens Healthineers



Dr. Vidur Mahajan
Associate Director
Mahajan Imaging



Kedar Medhi
Director
Philips Innovation Campus,
Bengaluru

HIC FINALE

19th March 2021

Thought Leadership sessions, Panel Discussions & Announcement of HIC
Winners



Technology can be used for bringing efficiencies in the healthcare sector and HIC partner hospitals will give startups the opportunity to work with them on co-creating the solutions and provide help in scaling these solutions

Jyoti Arora, IAS, Special Secretary, MeitY

COVID has played the role of a key disruptor and accelerator of digitization and growth of healthcare sector. Technologies like AI can take over a lot of routine jobs, leaving the healthcare providers with the time to focus on the actual patient care.

Debjani Ghosh, President, NASSCOM

Inviting and adopting new ideas and innovation is a must to push the healthcare industry towards absolute digital transformation. Hence, working with startups is extremely important and we value our partnership with NASSCOM CoE.

Juergon Simon, Head - Siemens Healthineers Technology Accelerator

A patient looks for standardization of treatment, experience and affordability. We are using digital technologies like AI to ensure personalized, cost-effective, and connected healthcare to each one

Dr Vineet Talwar, , Director Medical Oncology, Rajiv Gandhi Cancer Institute & Research Centre

The COVID 19 pandemic has brought in an interesting change as the entire ecosystem is compelled to switch to digital; thereby using digital solutions to deliver care and address challenges like healthcare data interoperability. Creating a strong backend system that can easily collect and analyse clinical data is important to make informed decisions.

Jeyaseelan Jeyaraj, President, HIMSS India Chapter



The most important thing in the healthcare transformation is empowering the doctors. Startups and Enterprises are involved in various stages of healthcare transformation and working with hospitals for deployments.

Srinivasan Sundararajan, VP Technology, GAVS Technologies

Robotic surgery helps hospitals carry out complex operations, reducing patients' recovery time., apart from enabling less invasive surgeries and enhances patients' experience. At SS Innovations, our ultimate goal is to create a global impact in the healthcare industry using technology

Dr. Sudhir Srivastava, Founder & CEO, SS Innovations

The industry neglected the significance of supply chain management system for quite a long time. In the past few years an outright digital transformation has revolutionized the healthcare system. Through Medikabazaar we intend to make sure that there is no dearth of medical supplies by educating both operational and clinical leaders understand the importance of digital supply chain.

Vivek Tiwari, Founder & CEO, MedikaBazaar

The four key themes that are further driving digital adoption in this sector can be summed up under: Focus on patient and clinical experience. Adoption of data, analytics and AI/ ML services, Migration to cloud and Remote medical care / Telehealth adoption. The technology providers appear to be the focal point that is stimulating the transformation of all the stakeholders.

Praveen Gulabarni, Global Head of Enterprise Transformation, WIPRO

Panel discussion: DIGITAL TRANSFORMATION OF HEALTHCARE PROVIDERS



Gita Babaria

India CTIO,
Medical Practice, Capgemini



Alok Garg

VP, KareXpert Technologies



Bharat Gera

Head of Digital Transformation
BestDoc



Vivek Tiwari

Founder & CEO,
Medikabazaar



Dr. Sudhir Srivastava

Founder, Chairman & CEO,
SS Innovations



Arjun P Gupta

Founder & CEO,
Smart Joules



Shelley Saxena

Founder, Sevamob



Vishal Gandhi

Founder & CEO,
BIORx Venture Advisors (Moderator)

HOSPITAL PANEL



Ishaq Quadri [Moderator]
Secretary, HIMSS India Chapter



J P Dwivedi
CIO, Rajiv Gandhi Cancer
Institute & Research Centre



Dr Sameer Mehta
Vice Chairman, Dr Mehta's
Multispecialty Hospital



Saravanan Sankaran
CIO, Aravind Eye Care System



Dr Jayashankar Das
Director – Research, Institute of
Medical Sciences & SUM
Hospital



Anjali Ajaikumar
VP Strategy, HCG Hospitals



Bhoopendra Solanki
Head – IT, Sakra World Hospital



Naveen Kumar
General Manager – IT, KIMS
Hospital



Manishkumar Rai
Head – IT, Zydus Hospital



Rajiv Gandhi Cancer Institute
and Research Centre



WINNERS OF HEALTHCARE INNOVATION CHALLENGE

OPD AUTOMATION

A solution that automates the Hospitals' OPD including Patient Registration via Aadhar or Government ID with self/OTP consent, Online Appointment booking, Payment integration for services rendered / to be rendered, Queue Management solution (to reduce patient waiting time) and deliver medication alerts, follow-up reminders and lab reports via the Patient App

Announced by: Mr Bhoopendra Solanki, Head – IT, Sakra World Hospital



<https://www.bestdocapp.com/>

WINNER



<https://www.karexpert.com/>

RUNNER-UP

IPD AUTOMATION

A patient room solution which allows complete nursing care by having a touch panel on Hospital bedside for publishing updates to HIS and placing departmental requests over voice. An IoT device allowing the nurse to set reminders for IV fluid completion & alerts when it goes below a certain level. Connect medical equipment like Vital Monitors, Syringe pumps, Ventilators, through IoT device to capture vitals

Announced by: Mr Manishkumar Rai, Head – IT, Zydus Hospital and Mr Naveen Kumar, General Manager – IT, KIMS Hospital



evelabs

<https://www.evelabs.co/>

WINNER



<https://stasislabs.com/>

RUNNER-UP

PRESCRIPTION DIGITISATION

A solution to automate the doctor's IP visit notes either by Handwriting or Voice recognition. The doctor should be able to scribble on a tablet or register voice notes which need to be converted into ePrescription and be capable to be integrated with the Hospital's HIMS system. The solution should have the provision for manual edit & review and the algorithm should be able to learn from doctors inputs.

Announced by: Mr J P Dwivedi, CIO, Rajiv Gandhi Cancer Institute & Research Centre



<https://simbo.ai/>

WINNER



<https://augnito.ai/>

RUNNER-UP

DIGITISING PATHOLOGY SLIDES

Digitizing Histopathology slides for life time storage and creating datasets for AI based diagnosis. There is no slide scanner currently deployed and solution provider needs to make the suggestions for required hardware. An end-to-end low cost solution is needed having analytics capabilities.

Announced by: Dr Sameer Mehta, Vice Chairman, Dr Mehta's Multispecialty Hospital

AINDRA

<https://www.aindra.in/>

WINNER



QRITIVE

<https://www.qritive.com/>

RUNNER-UP

Special Mention: Medprime, Shanmukha Innovations & Onward Assist

INTEGRATION OF DIAGNOSTIC EQUIPMENT WITH EMR

Data from diagnostic equipment are important and currently recorded manually or by screen capturing tools and then populated in the EMR. There is a need for easy integration of these diagnostic devices / equipment with the EMR by developing appropriate interfaces / platform that mediates the software application with the devices and captures the output from the devices. The equipment have various types of connectivity protocols and produce different forms of outputs.

Announced by: Mr Saravanan Sankaran, CIO, Aravind Eye Care System



<https://www.rtwohealthcare.com/>

WINNER



<https://www.healthgraph.in/>

RUNNER-UP

AI BASED RESPIRATORY SYNDROME DIAGNOSIS

The features of infected lungs seen on medical images can help assess disease severity, predict response to treatment, and improve patient outcomes. However, a major challenge is to rapidly and accurately identify these signatures and evaluate this information in combination with many other clinical symptoms and tests. The solution is AI based assisted tool which can differentiate the respiratory disorders like flu, pulmonary and other lung disorders to screen the patient based on radiology images like Chest X-ray, CT scan etc.

Announced by: Dr Jayashankar Das, Director – Research, Institute of Medical Sciences & SUM Hospital



<https://qure.ai/>

WINNER

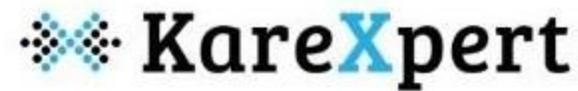
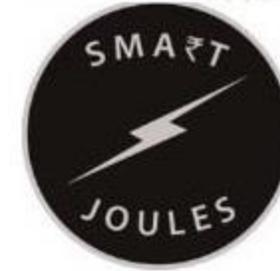


Predible

<https://www.predible.com/>

RUNNER-UP

VIRTUAL SHOWCASE AT HIC FINALE



NASSCOM CoE would like to acknowledge with thanks the support extended by:

- *Ministry of Electronics and Information Technology, Government of India and MeitY Startup Hub*
- *HARTRON, Government of Haryana*
- *Healthcare Partners: Siemens Healthineers, Astra Zeneca and GE Healthcare*
- *Event Sponsors: GAVS Technologies, SS Innovations and MedikaBazaar*
- *Partner Hospitals: Rajiv Gandhi Cancer Institute & Research Centre, Aravind Eye Care System, Zydus Hospitals, IMS & SUM Hospital, Sakra World Hospital, Dr Mehta's Multispecialty Hospital and KIMS Hospital*
- *Healthcare Associations including HIMSS & BioRx*
- *Booth Exhibitors*
- *Jury Panelists*
- *All the HealthTech Solution Providers & Startups participating in the challenge*

We're inviting interested partners for the next edition of HIC.

Please refer HIC Portal for more information.

<https://haryana.coe-iot.com/hic>



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