



Healthcare Innovation Challenge 2.0

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HIC2 Finale | 30th September 2021

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MAHAJAN IMAGING
From X-rays to Molecular Imaging



Rajiv Gandhi Cancer Institute
and Research Centre



HEALTHCARE PROVIDER PANEL



Dr. Keren Priyadarshini
[Moderator]

Regional Leader Healthcare
JAPAC



Chandra Mouli

CIO, Sankara Nethralaya



J P Dwivedi

CIO, Rajiv Gandhi Cancer Institute



Manishkumar Rai

Head – IT, Zydus Hospital



Sreeni Venugopal

Group Chief Information Officer,
KIMS Health



Vasanth Venugopal

Consultant Radiologist & Head of
Imaging Research, Mahajan
Imaging

NOMINATED USE CASES

Integrating
radiology
reports into
patient
friendly
multimedia
files & reports

Homecare &
Remote
Patient
Monitoring

Hospital
Automation

Digital Clinical
Assistant for
Integrating
with Legacy
EHR

Centralized
Tele-Radiology
Reporting

AI based
Cancer
Diagnosis



JURY PANEL 1

USE CASE:

AI assisted diagnosis in histopathology for early diagnosis of cancer

OT Booking, PAC, OT utilization, equipment assignment and TAT record

HEALTHCARE²

INNOVATION CHALLENGE

YOUR DIGITAL TRANSFORMATION PARTNER

• Date: 23rd September 2021 • Time: 11:00am - 1:30pm

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



J P Dwivedi

CIO, Rajiv Gandhi Cancer Institute & Research Center



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Ravi Bhardwaj Annamraju

Director, Technical Product Management, GE Healthcare

JURY PANEL 2

USE CASE:

Centralized Tele-Radiology Reporting

Integrating radiology reports and images in to multimedia files

HEALTHCARE²

INNOVATION CHALLENGE²

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• Date: 24th September 2021 • Time: 11:00am - 1:30pm

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



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HIMSS India



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Director,
Philips Innovation
Campus



Anupama Govindan

Products & Solutions
Development Team Leader,
Siemens Healthineers

JURY PANEL 3

USE CASE:

**Intelligent Clinical Assistant -
Translating unstructured
Data from Legacy EMR into
structured data**

**Homecare -
Monitoring Solutions**

HEALTHCARE²

INNOVATION CHALLENGE

YOUR DIGITAL TRANSFORMATION PARTNER

• Date: 25th September 2021 • Time: 11:00am - 1:30pm

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



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Products & Solutions
Development Team Leader,
Siemens Healthineers



Chandra Mouli
CIO, Sankara Nethralaya



Digital Clinical Assistant for Integrating with Legacy EHR

The solution should be capable of Translating unstructured Data from Legacy EMR into structured data using SNOMED CT, Prospectively help Clinician to suggest SNOMED codes using NLP and AI and help improving better coding, using NLP and AI to Code the EMR records to make EMR records use for better analysis and Develop Visual analytics of the Structured data. Must be compatible with the current tool sets published in the CDAC website. C-DAC's Toolkit For SNOMED CT (cdac.in)



Chandra Mouli
CIO, Sankara Nethralaya



Digital Clinical Assistant for Integrating with Legacy EHR



WINNER



RUNNER-UP



Vasanth Venugopal

Consultant Radiologist & Head
of Imaging Research, Mahajan
Imaging



Integrating radiology reports and images into multimedia files

Radiology reports are not very patient friendly. A solution that can translate radiology reports with complex medical terms into a patient friendly language and integrate relevant images and videos into a multimedia file. Images and reports can be send through an API to cloud server or the solution can be deployed (preferable) on a local system. One modality and one body part can be chosen initially to build a prototype - say CT Chest in patients with interstitial lung disease or MR spine for degenerative disc disease.



Vasanth Venugopal

Consultant Radiologist & Head
of Imaging Research, Mahajan
Imaging



Integrating radiology reports and images into multimedia files



WINNER



RUNNER-UP



Sreeni Venugopal

Group Chief Information Officer,
KIMS Health



Centralized Tele-Radiology Reporting

The group of hospitals located globally use different standards of reporting radiology reports, leading to inefficient utilization of Radiologists. The solution needed is a centralized radiology reporting centre in the main hospital. The RCC will Integrate with multiple PACS/RIS system, Accept radiology studies from multiple centres and push reports back, Allow scheduling of radiology studies with Radiologist roster, Provide MIS/Management Dashboards/Efficiency Reports/TAT etc.

Homecare & Patient Monitoring Solutions

The hospital has a homecare division which provides at-home medical care. They would like to extend this care window through a solution that provides home care patients with devices and solutions that can allow the hospital to Monitor patients' well-being – ex: key vitals being streamed to the cloud/hospital, Ability to initiate a tele-consult with their doctor or nurse, Track patient progress/vitals chart/medication/treatment etc., A mobile App, A central monitoring station at the hospital to monitor all homecare patients with ability to zoom in on specific patients.



Sreeni Venugopal

Group Chief Information Officer,
KIMS Health



Centralized Tele-Radiology Reporting



WINNER



RUNNER-UP



Sreeni Venugopal

Group Chief Information Officer,
KIMS Health



Homecare & Patient Monitoring Solutions



WINNER



J P Dwivedi

CIO, Rajiv Gandhi Cancer
Institute & Research Centre



**Rajiv Gandhi Cancer Institute
and Research Centre**

AI based Cancer Diagnosis

AI assisted diagnosis in histopathology can not only improve productivity of pathologists but also early diagnosis of cancer of various types, Breast, Cervical, Oral & Prostate are dominant. The solution should be capable of Diagnosis classification (binary classifier to predict tumor vs. normal) and detection of relevant image information without any labeling.

The AI based Clinical decision support system should be able to automate the tedious tasks and provide seamless integration with PACS, LIMS and other existing systems using industry standards. The AI based solution should have self-learning capabilities based on manual inputs.



J P Dwivedi

CIO, Rajiv Gandhi Cancer
Institute & Research Centre



**Rajiv Gandhi Cancer Institute
and Research Centre**

AI based Cancer Diagnosis



WINNER



Onward Asslst

RUNNER-UP



Manishkumar Rai

Head – IT, Zydus Hospital



Hospital Automation

- Hospitals always struggle with efficient utilization of the resources. The expected solution needs to have the capabilities for OT Booking, PAC ,OT utilization, equipment assignment and TAT record. The solution should integrate with the HMIS and the Billing system as well. The solution should have a Web & App based interface.
- Medical supply management is a key bottleneck for Hospitals. The solution should be able to automate Goods Receive process through AI integration (Scan Document and convert in to Excel) and Barcoding Automated of Goods



Manishkumar Rai
Head – IT, Zydus Hospital



Hospital Automation



WINNER



RUNNER-UP

Congratulations to the Winners & Runner-Ups!

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



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