North Eastern Council
Government of India

**North Eastern Council (NEC),
Ministry of Development of North Eastern Region,
Government of India**

Mobile AI Enabled Platform to Generate 3D Medical Images
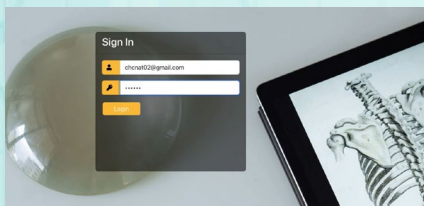
Technological limitations are a challenge for surgeons in obtaining detailed data for surgical planning.

2D scan reports lack depth perception, leading to incomplete information and difficulties in visualizing complex structures.

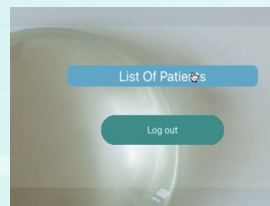Access to complete information is vital for precise decision–making and treatment planning

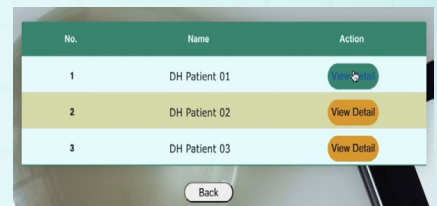Misdiagnosis or underdiagnosis can hinder progress and worsen the problem.

Step 1

Sign in with user ID and password

Step 2

Click 'List of Patients'

Step 3

Click the 'View Detail' action to view the patient's detail

Step 4

Patient Name:
DH Patient 01
Age:
30
View Report:
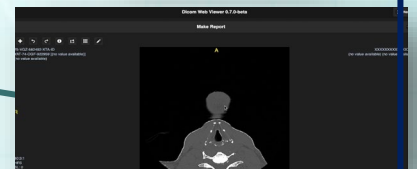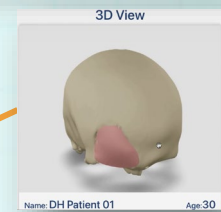View Report
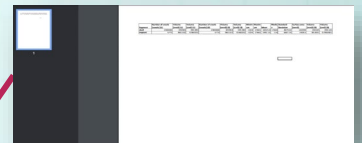View GLTF:
View 3D
View Dicom :
View Dicom
Add Prescription:
Choose file No file chosen

Click to generate the scan report

Click to view the 3D image
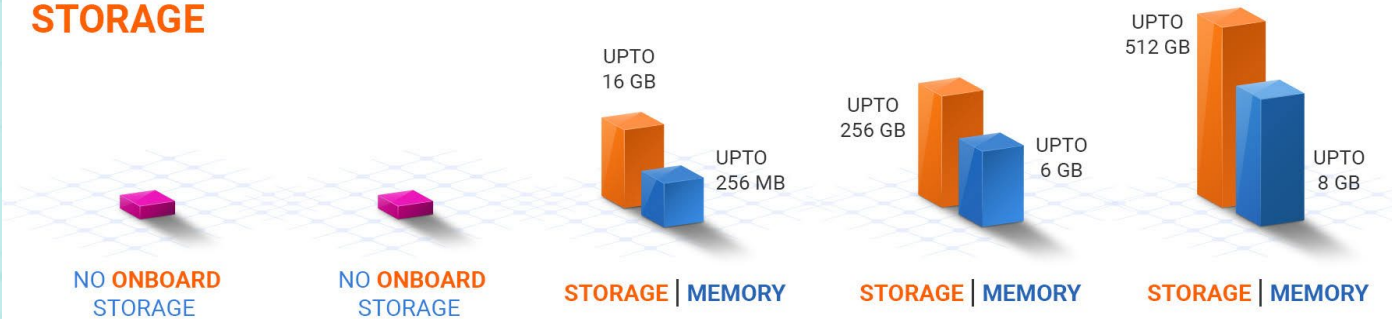
Click to view the scan image

3D View

Name: DH Patient 01   Age:30

AMTRON

DIC
Design Innovation Centre
Panjab University

DoT
INDIA TELECOM

Telecom
Sector
Skill
Council

EVOLUTION FROM 1G TO 5G

1G	2G	3G	4G	5G
0 DATA TRANFER	UPTO **40** Kbps	UPTO **21.6** Mbps	UPTO **1** GBps	UPTO **40** GBps

DEPLOYMENT YEAR

| 1981 | 1991 | 1998 | 2008 | 2018 |

STORAGE

- **NO ONBOARD STORAGE** (1G)
- **NO ONBOARD STORAGE** (2G)
- UPTO 16 GB / UPTO 256 MB — **STORAGE | MEMORY** (3G)
- UPTO 256 GB / UPTO 6 GB — **STORAGE | MEMORY** (4G)
- UPTO 512 GB / UPTO 8 GB — **STORAGE | MEMORY** (5G)

OUTCOMES - NORTH EAST'S SDG 2030 GOALS

S. No.	Parameter	Impact
1.	SDG 3 – Good Health and Well Being	✓ Reduce Cost of Treatment . ✓ Reduce Out of Pocket especially travel and accommodation costs for Diagnostics Tests in other cities / states. ✓ Improves Quality Of Community Health Screening In Remote Areas. ✓ At Home Long Term Care of Senior Citizens With Multiple Co Morbidities. ✓ Helps overcome treatment barriers on account of lack of availability / limited availability of Doctors / Medical Technicians / Expensive Machinery.
2.	SDG 4 – Quality Education	✓ Train Youth From the Northeast In Next Generation Telecom Ecosystem for self-employment/job opportunities etc. ✓ Improved Quality of Teaching By Healthcare / Educational Institutions by enabling the use of immersive learning tools like AR/VR/MR etc. ✓ MOOC Courses to remove barriers to access to knowledge in an emerging knowledge economy.
3.	SDG 5 – Gender Equality	Open New Economic Opportunities for Women (Special focus community healthcare / agriculture / handloom & handicrafts). * Report of GSMA [Global System for Mobile Communications] says that there is a considerable gender gap in mobile ownership (14%) and mobile internet use (41%) wherein lack of awareness and digital skills are among the top barriers to *mobile internet adoption and usage among women.*
4.	SDG 9 – Industry, Innovation & Infrastructure	✓ SME Ecosystem to Make, Repair, Recycle Next Generation Products Like IoT Devices. ✓ 5G Labs can be used for local youth for innovations.
5.	SDG 12 – Responsible Consumption & Production	✓ Promote Recycling of E Components. ✓ Reduce GHG (Green House Gas Emissions) since 5G Equipment's consume less energy compared to earlier Generation of Equipment's.