



## Mobile AI Enabled Wound Infection Assessment Device

### Challenges in detecting bacterial infection in wounds



Gold standard culture test for identifying pathogens in wound infections takes 2 to 7 days

Clinical signs have an accuracy rate of 57% (approx.)



Physician :	Facility :	Date : 18-05-2022
Patient name : Bhanu Bhatia Dasgukh	Patient Id : A00B101_20	Visit No. : 1
Wound Location : Left Leg	Wound Type : Left Leg Foot Ble	
White Image	Fluorescence Image	Analyzed Image
Illuminate Observations		
Cram Type : GN	Wound Length(cm) : 3.15	Wound Width(cm) : 2.62
Wound Area(sq. cm) : 8.35		
Doctor's Observation	Doctor's Recommendation	
SIGNATURE		

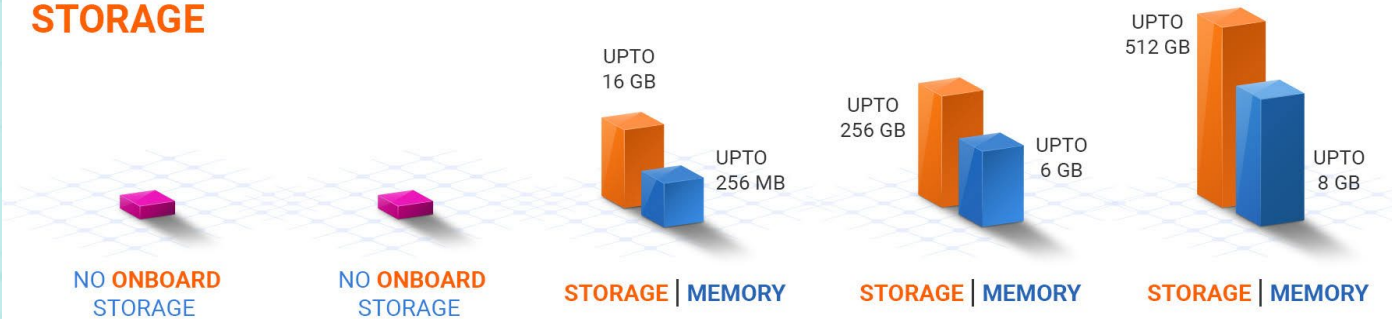
# EVOLUTION FROM 1G TO 5G



## DEPLOYMENT YEAR



## STORAGE



## OUTCOMES - NORTH EAST'S SDG 2030 GOALS

S. No.	Parameter	Impact
1.	SDG 3 - Good Health and Well Being	<ul style="list-style-type: none"> <li>✓ Reduce Cost of Treatment .</li> <li>✓ Reduce Out of Pocket especially travel and accommodation costs for Diagnostics Tests in other cities / states.</li> <li>✓ Improves Quality Of Community Health Screening In Remote Areas.</li> <li>✓ At Home Long Term Care of Senior Citizens With Multiple Co Morbidities.</li> <li>✓ Helps overcome treatment barriers on account of lack of availability / limited availability of Doctors / Medical Technicians / Expensive Machinery.</li> </ul>
2.	SDG 4 - Quality Education	<ul style="list-style-type: none"> <li>✓ Train Youth From the Northeast In Next Generation Telecom Ecosystem for self-employment/job opportunities etc.</li> <li>✓ Improved Quality of Teaching By Healthcare / Educational Institutions by enabling the use of immersive learning tools like AR/VR/MR etc.</li> <li>✓ MOOC Courses to remove barriers to access to knowledge in an emerging knowledge economy.</li> </ul>
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 <i>mobile internet adoption and usage among women</i> .
4.	SDG 9 - Industry, Innovation & Infrastructure	<ul style="list-style-type: none"> <li>✓ SME Ecosystem to Make, Repair, Recycle Next Generation Products Like IoT Devices.</li> <li>✓ 5G Labs can be used for local youth for innovations.</li> </ul>
5.	SDG 12 - Responsible Consumption & Production	<ul style="list-style-type: none"> <li>✓ Promote Recycling of E Components.</li> <li>✓ Reduce GHG (Green House Gas Emissions) since 5G Equipment's consume less energy compared to earlier Generation of Equipment's.</li> </ul>