School of Telemedicine and Biomedical Informatics

Sanjay Gandhi Postgraduate Institute of Medical Sciences

National Resource Center,

(Telemedicine Division, Ministry of Health & Family Welfare, Govt. of India)

Journey of Last Two Decades

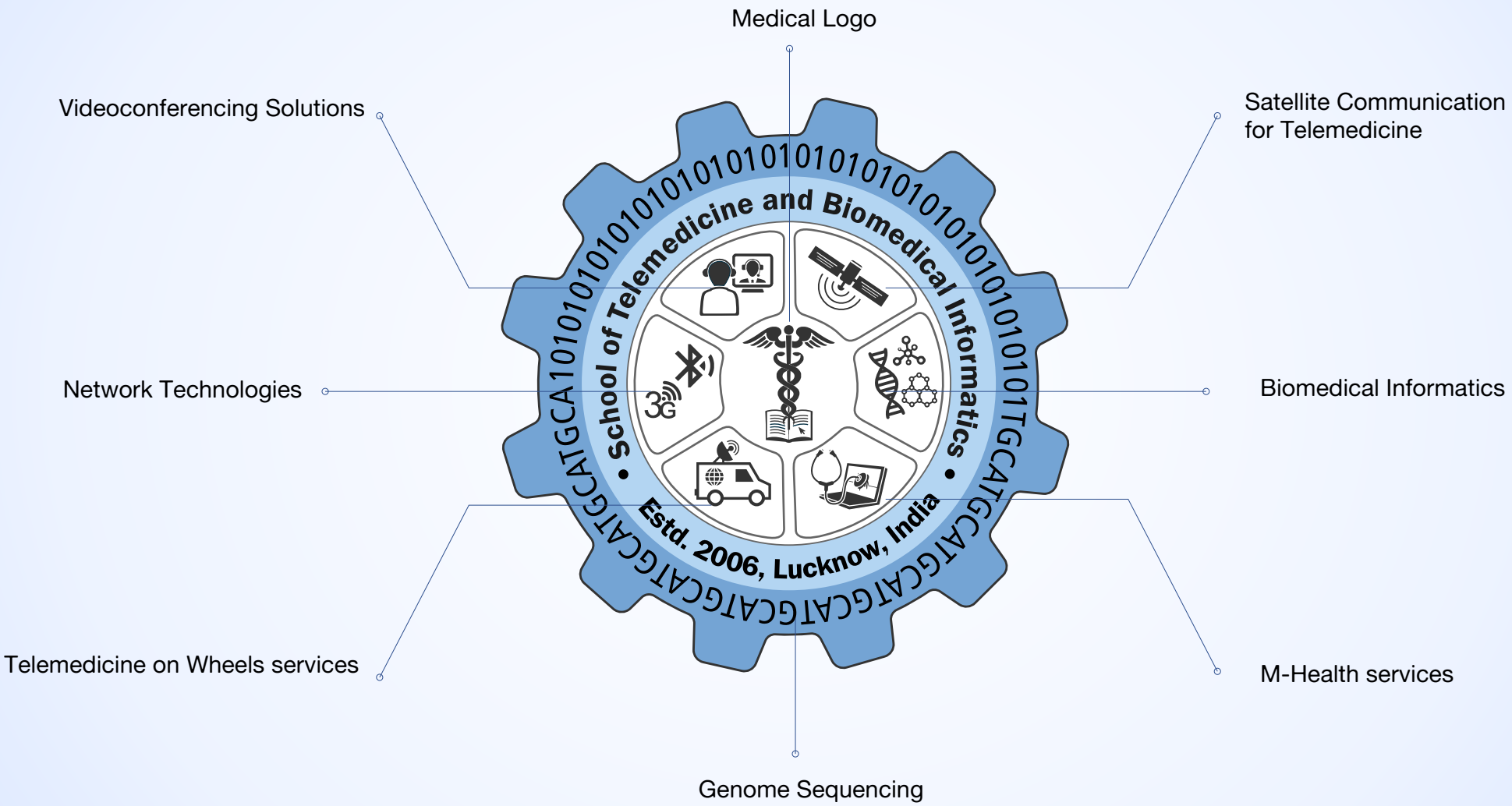
www.stbmi.ac.in

Introduction

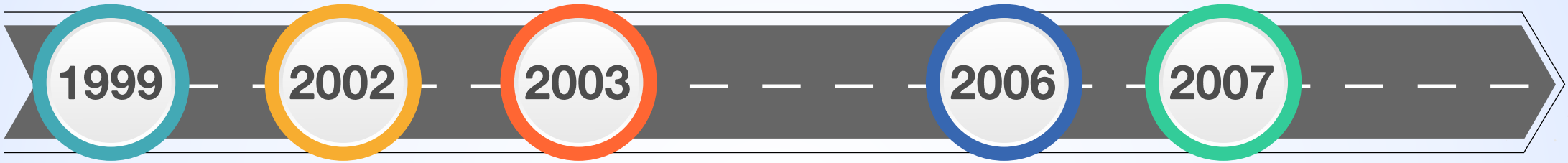
The School of Telemedicine & Biomedical Informatics has been established by the Sanjay Gandhi Postgraduate Institute of Medical Sciences (SGPGIMS), Lucknow with the financial support of the Government of Uttar Pradesh and the Department of Information Technology, Ministry of Communication & IT, Government of India with the objective of creating human resources in various fields of Healthcare Information Technology e.g. Telemedicine, Hospital Information Management System, Public Health Informatics, Nursing Informatics, Digital Medical Library, Medical Multimedia & Animation, Bioinformatics, Medical Imaging Informatics, Cancer Informatics, Artificial Intelligence & Clinical Decision support system in Medicine, e-learning in Medicine, Surgical Informatics, Virtual Reality & Medical Simulation etc. This is the first academic institution of it's kind dedicated exclusively to the emerging arena of health care informatics in a public funded academic medical institutional setup.

Telemedicine activities at SGPGIMS were initiated in the year 1999 in the form of testing the concept of information and communication technology in the field of medicine. Telemedicine, as defined by WHO, is delivery of healthcare services, where distance is a critical factor, by all healthcare professionals using information and communication technology for exchange of valid information for diagnosis, treatment and prevention of diseases and injuries, research and evaluation, and for continuing education of healthcare providers, all in the interests of advancing the health of individuals and their communities.

About Our Logo



Milestones of STBMI Journey



1999

U.P. CM approved grant to setup basic Videoconference Facilities at SGPGI

Grant of Rs. 6.00 Lacs

2002

Addl. Secretary, Dept. of Information Technology, Govt. of India in presence of Secretary, DIT, Govt. of U.P.

Announced Rs. 5.00 Crore grant

2003

Institute submitted proposal to Dept. of IT, Govt. U.P. for setting of School of Telemedicine & Biomedical Informatics for onward recommendation to DIT, GoI

Government Order (GO) released by the Dept. of Planning sanctioning of Rs. 5.00 Crore for facility development for Telemedicine Programme

2006

The newly constructed building (two floor) was ready. Telemedicine facility now shifted to the new complex and ongoing activities continued

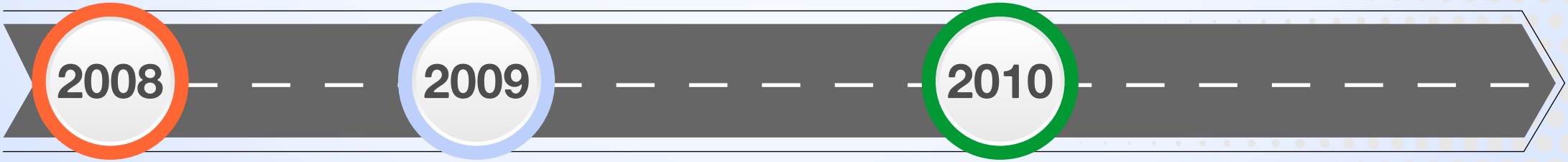
2007

National Resource Center (NRC) project was sanctioned by DeitY, Govt. of India

Grant Amount Rs.5.25 Crore

Third Revision of Building construction Budget by Finance Committee GoU.P

Grant Amount: 2748.10 Lacs



2008

National Advisory Council meeting held on 7th July 2008 under the Chairmanship of Director, IIT, Kanpur

National Committee on Development of Course and Curriculum Framework for the School of Telemedicine

2009

Second Board of Study Meeting held on 1st May 2009 One Year Diploma course curriculum developed and fixed related criteria

42nd Academic Board meeting held on 2nd May 2009.

AB approved starting of diploma course in five disciplines

Facilitated Govt. of U.P. for implementation of UP Medical College Telemedicine Network

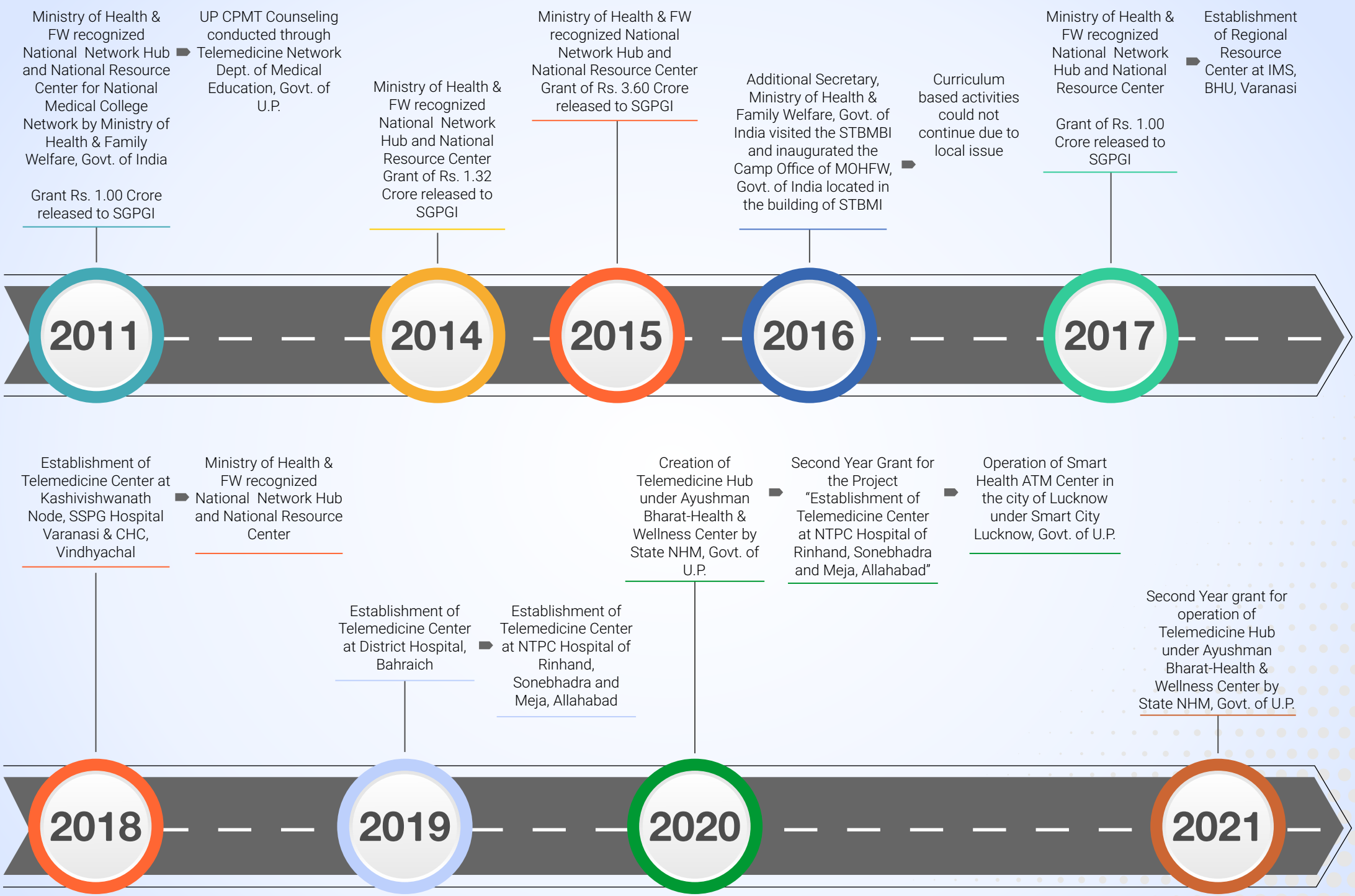
2010

Fourth Revision of Building construction Budget by Finance Committee GoU.P

Proposal for National Medical College Telemedicine Network (NMCN)- centrally sponsored scheme under eHealth

EFC Meeting approved NMCN under Centrally sponsored schemes on e-Health Initiatives including Telemedicine during 11th Five year Plan

The SFC recommended the proposal for establishing National Medical College Network for Rs. 60 crores with the following observations ;.


2011
Ministry of Health & FW recognized National Network Hub and National Resource Center for National Medical College Network by Ministry of Health & Family Welfare, Govt. of India
Grant Rs. 1.00 Crore released to SGPGI
UP CPMT Counseling conducted through Telemedicine Network Dept. of Medical Education, Govt. of U.P.
2014
Ministry of Health & FW recognized National Network Hub and National Resource Center Grant of Rs. 1.32 Crore released to SGPGI
2015
Ministry of Health & FW recognized National Network Hub and National Resource Center Grant of Rs. 3.60 Crore released to SGPGI
2016
Additional Secretary, Ministry of Health & Family Welfare, Govt. of India visited the STBMBI and inaugurated the Camp Office of MOHFW, Govt. of India located in the building of STBMI
Curriculum based activities could not continue due to local issue
2017
Ministry of Health & FW recognized National Network Hub and National Resource Center
Grant of Rs. 1.00 Crore released to SGPGI
Establishment of Regional Resource Center at IMS, BHU, Varanasi
2018
Establishment of Telemedicine Center at Kashivishwanath Node, SSPG Hospital Varanasi & CHC, Vindhyachal
Ministry of Health & FW recognized National Network Hub and National Resource Center
2019
Establishment of Telemedicine Center at District Hospital, Bahraich
Establishment of Telemedicine Center at NTPC Hospital of Rinhand, Sonebhadra and Meja, Allahabad
2020
Creation of Telemedicine Hub under Ayushman Bharat-Health & Wellness Center by State NHM, Govt. of U.P.
Second Year Grant for the Project "Establishment of Telemedicine Center at NTPC Hospital of Rinhand, Sonebhadra and Meja, Allahabad"
Operation of Smart Health ATM Center in the city of Lucknow under Smart City Lucknow, Govt. of U.P.
2021
Second Year grant for operation of Telemedicine Hub under Ayushman Bharat-Health & Wellness Center by State NHM, Govt. of U.P.

Projects Completed

Endocrine Telesurvey Workshop

Year Started : 25th October 1999
Year Completed : 29th October 1999 (05 Days)

Funding / Collaborating Agency
ITI & Lucknow Telecom Dept.

Project outlay
Sponsor

Implemented / Executed
Proof of concept on transferring live surgery to remote Institutions.

Outcome of Project
live surgery transmitted successfully with the high quality of transmission of data, image and voice

Pilot Project for Tele-education using video conferencing

Year Started : January 2000
Year Completed : December 2000

Funding / Collaborating Agency
Uttar Pradesh Chief M Grant

Project outlay
Rs.06 Lakhs

Implemented / Executed
Tele- Education Endocrine Imaging & Endocrine Pathology with PGIMER Chandigarh

Outcome of Project
Successful

Tele-health care for the Kailash Mansarovar Pilgrims

Year Started : August 2000
Year Completed : September 2000 (Two Months)

Funding / Collaborating Agency
Kumayun Mandal Vikas Nigam, Online Telemedicine Research & SGPGIMS

Project outlay
Rs. 02 Lakhs

Implemented / Executed
Proof of concept on transferring of E.C.G & B.P using INMARSAT satellite at the end route of Kailash Mansarovar Yatra

Outcome of Project
Successful test the technical feasibility of online transmission of patient health data such as ECG from high altitude.

Application of telemedicine technology to provide tele- health care during Mela / Festival & Disaster

Year Started : January 2001
Year Completed : February 2001

Funding / Collaborating Agency
Ministry of Electronics and Information Technology (MeitY)

Project outlay
Rs. 80 Lakhs

Implemented / Executed
Proof of concept on exchange of medical records using integrated telemedicine network build over ISDN

Outcome of Project
Successful transfer of Image in real time & store and forward

SATCOM Orissa Telemedicine Network Project

Year Started : March 2003
Year Completed : October 2018

Funding / Collaborating Agency
Indian Space Research Organization (ISRO)

Project outlay
Rs.20 Lakhs Approx. Bandwidth cost supported by ISRO (Cost not known)

Implemented / Executed
Tele-education & Consultation for the three medical colleges of Odisha state using satellite communication

Outcome of Project
Infrastructure created for Tele-education & Tele-consultation (Total Sessions is 645)

Uttaranchal Telemedicine Network Project

Year Started : April 2004
Year Completed : April 2008

Funding / Collaborating Agency
Govt. of Uttaranchal

Project outlay
Rs 73.18 Lakhs

Implemented / Executed
Tele-education & Tele-health care for the peripheral doctors of two Base hospitals Almora & Srinagar

Outcome of Project
Infrastructure created for Tele-education & Tele-consultation (Total Sessions is 322)

Projects Completed

SGPGIMS- District Hospital Raibareli Telemedicine Network

Year Started : 2006
Year Completed : 2019

Funding / Collaborating Agency
Gas Authority of India Limited (GAIL) Under CSR programme of GAIL India followed by SGPGI

Project outlay
Rs.40 Lakhs

Implemented / Executed
Tele-education & Tele-health care for the peripheral doctors

Outcome of Project
Infrastructure created for Tele-consultation & Tele-CME (Total Sessions is 452)

UP Tele-radiotherapy Network

Year Started : 2007
Year Completed : 2010

Funding / Collaborating Agency
Dept. of Science and Technology

Project outlay
Executed by Radiotherapy Dept., SGPGI

Implemented / Executed
Pilot Project -Tele-education & tele-consultation in the field of Radiotherapy to the 5 Medical Colleges of Uttar Pradesh

Outcome of Project
Infrastructure created for Tele-education & Tele-consultation in (Total Sessions is 589 till 2019)

National Telemedicine Resource Center

Year Started : 2007
Year Completed : 2011

Funding / Collaborating Agency
DIT, Ministry of Comm. & IT, Govt. of India

Project outlay
Rs. 525.58 Lakhs

Implemented / Executed
Creation of various Laboratories in the field of Telemedicine and Biomedical Informatics for inter-university research and development center

Outcome of Project
All objectives was fulfilled; Six laboratories have been established and being used for the research, distance education and capacity building (842 Professional have been trained)

SAARC Telemedicine Project

Year Started : 2008
Year Completed : 2018

Funding / Collaborating Agency
Govt. of India, Ministry of External Affairs

Project outlay
Rs.28.00 Lakh

Implemented / Executed
Bhutan , Nepal & Afghanistan countries connected through Telemedicine network for tele-health and tele-educational exchange.

Outcome of Project
Total Sessions is 307

Dev. & Maintenance of e-seminar Web Portal on "National Knowledge base on Telemedicine & e-Health"

Year Started : April 2007
Year Completed : April 2009

Funding / Collaborating Agency
Sony, Japan

Project outlay
Rs.10 Lakh

Implemented / Executed
Creation of single window web portal to act as a knowledge base on telemedicine and e-health in India

Outcome of Project
Web Portal **http://telemedindia.org** is created

Uttar Pradesh Medical College Telemedicine Network

Year Started : 2010
Year Completed : 2011

Funding / Collaborating Agency
Dept. of Medical Education Govt. of U.P.

Project outlay
Sponsored by Govt. of U.P

Implemented / Executed
Establishment of Telemedicine network in three medical colleges (Allahabad, Meerut & Kanpur)Uttar Pradesh for practicing telemedicine application & eHealth activity

Outcome of Project
Design a Videoconferencing Suit and Tele-Health Studio at Medical Colleges and Digital Library (Total Sessions is 204)

Projects Completed

Tele-ophthalmology Project

Year Started : October 2008
Year Completed : August 2011

Funding / Collaborating Agency
MOH &FW, Govt. of India

Project outlay
Rs. 28 Lakh

Implemented / Executed
Screening and treatment planning for Cataract, Diabetic retinopathy, Glaucoma, refraction error including other eye diseases and post-operative care, tele-follow-up, Tele-consultation through Tele-ophthalmology center at CHC, Bhacharawan ,Uttar Pradesh

Outcome of Project
Total 2719 patients benefitted.

Pan Africa Telemedicine Network

Year Started : 2011
Year Completed : 2017

Funding / Collaborating Agency
Govt. of India, Ministry of External Affairs

Project outlay
Sponsored by Ministry of External Affairs Govt. of India

Implemented / Executed
SGPGIMS is one of the Twelve super-specialty hospitals in India connected through Telemedicine of 47 African Union countries

Outcome of Project
To help African countries in Capacity Building by way of imparting quality in Tele education Total Session is 532

Prevalence of Iodine Deficiency and Goiter in Post Iodization Phase in Gonda District

Year Started : May 2016
Year Completed : 2018

Funding / Collaborating Agency
National Thermal Power Corporation (NTPC) Under CSR Project

Project outlay
Rs. 3.00 Lakh

Implemented / Executed
Field Project using mobile telemedicine bus with lab test of primary school children.

Outcome of Project
Research study on Iodine deficiency

Projects On-Going

National Medical College Network (NMCN)

Year Started : December 2011
Year Completed : Ongoing

Funding / Collaborating Agency
Ministry of Health & Family Welfare, Govt. of India

Project outlay
Rs. 1208.00 Lakh
(Total Grand Received from 2011 to 2020)

Implemented / Executed
Grant-in-Aid to undertake awareness activities and maintaining the existing infrastructure and activities of National Resource Center (NRC), SGPGIMS, Lucknow

Outcome of Project
1. eLearning Center, SGPGI
2.Establishment of Regional Resource Center for Telemedicine (RRC-East) at IMS, BHU
3. Establishment of Telemedicine at Kashi Vishwanath Node
4. Establishment of Telemedicine at CHC, Vindhyachal, Mirzapur
Total Content Created=956, Total Sessions=2994

Mobile Oncology Telemedicine Bus

Year Started : Feburary 2013
Year Completed : Ongoing

Funding / Collaborating Agency
Dr. K L Garg Memorial Charitable Trust, Lucknow

Project outlay
82 Lakh (CAPEX), 12 Lakh (OPEX) each year
Total= 8 Yrs =96.00 Lakhs

Implemented / Executed
Telemedicine over wheel for Rural community outreach programme

Outcome of Project
Total 19363 patients benefitted.

Establishment of Telemedicine Center at NTPC Hospitals located at Rihand & Meja

Year Started : June,2019
Year Completed : Ongoing

Funding / Collaborating Agency
National Thermal Power Corporation (NTPC) under CSR

Project outlay
Rs. 49.90 Lakhs

Implemented / Executed
Establishment of Telemedicine Health care center focusing on main aspects like telemedicine consultation & follow-ups, tele-education etc using Telemedicine kiosk

Outcome of Project
irst Exp. Of deploying Telemedicine kiosk using Broad Band Total 283 patients benefitted

Establishment of Telemedicine Hub at SGPGI under Ayushman Bharat-Health & Wellness Center (AB-HWC)

Year Started : May 2020
Year Completed : Ongoing

Funding / Collaborating Agency
National Health Mission (NHM), Govt. of Uttar Pradesh

Project outlay
Rs. 51.00 Lakhs

Implemented / Executed
Creating Telemedicine HUB consisting a specialist team of doctor's providing consultation to all sub center and PHC through CDAC esanjeevani software.

Outcome of Project
Total 10,8848 patients benefitted till date

Establishment of Telemedicine Hub under Smart City Lucknow Limited, Govt. of U.P.

Year Started : Feburary 2021
Year Completed : Yet to start

Funding / Collaborating Agency
Lucknow Smart City Limited (LSCL), Govt. of Uttar Pradesh

Project outlay
Sponsored by Smart City, Lucknow

Implemented / Executed
Smart Health ATM center is to be opened across the city of Lucknow under Smart City and STBMI, SGPGI, Lucknow have been identified as HUB for supporting this initiative in terms of technical consultancy and facilitating doctors consultation (General & Specialist)

STBMI 4 story Building

Reception

EXIT
EXIT
LOS ANGELES
NEW YORK
LONDON
NEW DELHI
TOKYO
SYDNEY
RECEPTION

Telemedicine Hi Tech Lecture Theater

Surgical Telepresence Suite

Digital Operation Theater

Dry Lab Operation Theater

Dry Lab Discussion Room

Project Management Unit

Video Confrencing Suite - I

Video Confrencing Suite - II

Video Confrencing Suite - III

Video Confrencing Suite - IV

Clinical Decision Support System

International Collaboration

National Medical College Network

National Medical College Network, Board Room

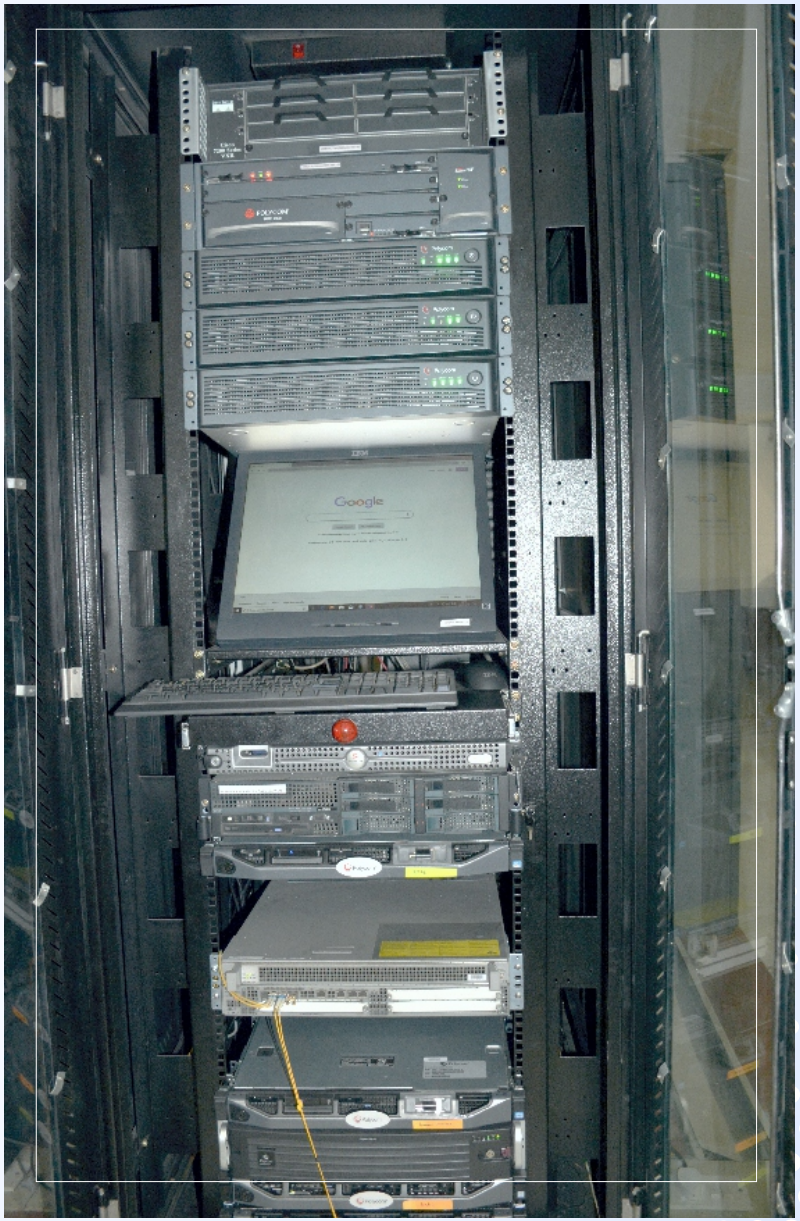
Content Development Lab

Studio for Education Content Development

Library

Data Center

Data Center



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