



ONE MONTH TRAINING REPORT

TEMDEC
07 Sep 2017

General information

- Name: Pham Ngoc Dao (Mr.)
- Ho Chi Minh City University Medical Center Hospital
- Duration: One month, from 14-Aug-2017 to 08-Sep-2017
- Location: Telemedicine Development Center of Asia, Kyushu University Hospital, Fukuoka, Japan.
- Contents of training :
 - How the telemedicine event is realized
(Flow of all staff: doctors, engineers, coordinators and all)
 - Required quality level for telemedicine
 - Teleconferencing systems
 - Technical preparations
 - How to work on technical problems

Our Hospital



BRANCH #1

THE MAIN BRANCH

- General Hospital
- 910 beds
- 19 operating rooms



Branch #2

Polyclinic

Otorhinolaryngology

- Obstetrics - gynecology
- 60 beds
- 4 operating rooms



BRANCH #3

TRADITIONAL MEDICINE HOSPITAL

- 30 beds



UMC

HOANG ANH GIA LAI HOSPITAL

- General Hospital
- 200 beds
- 6 operating rooms



Our Hospital

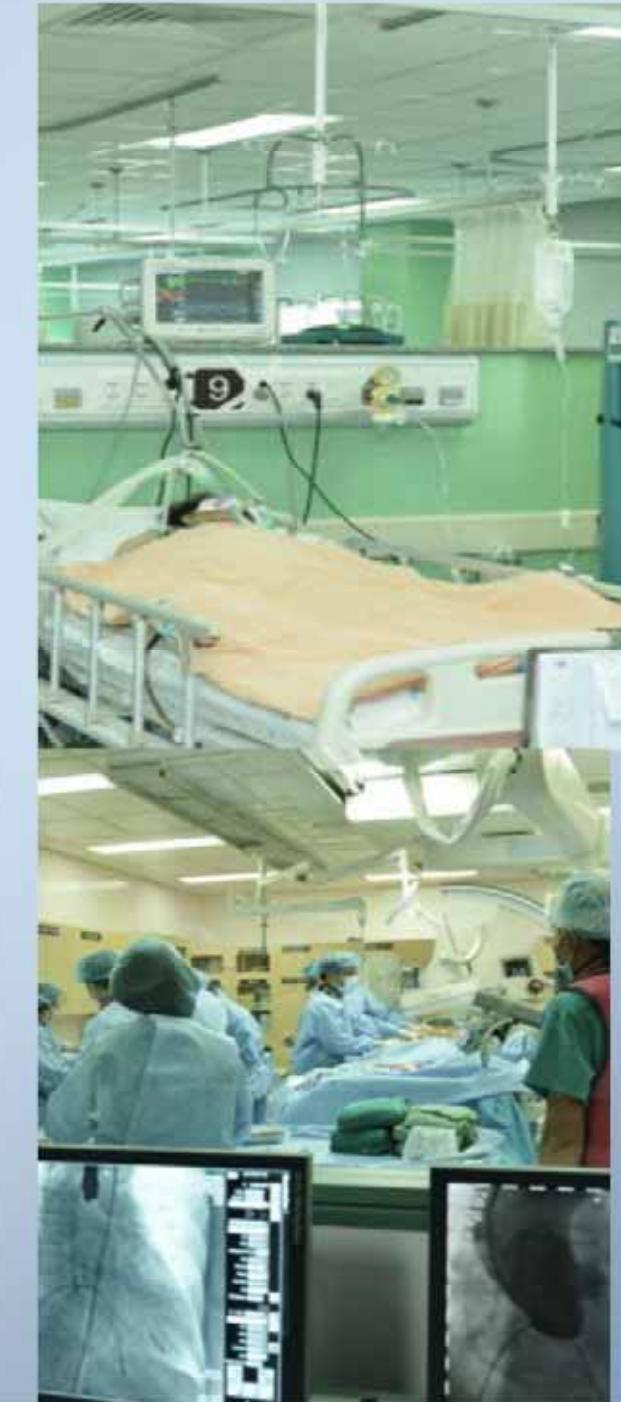
OUR TEAM

TOTAL STAFF: 2,917



Our Hospital

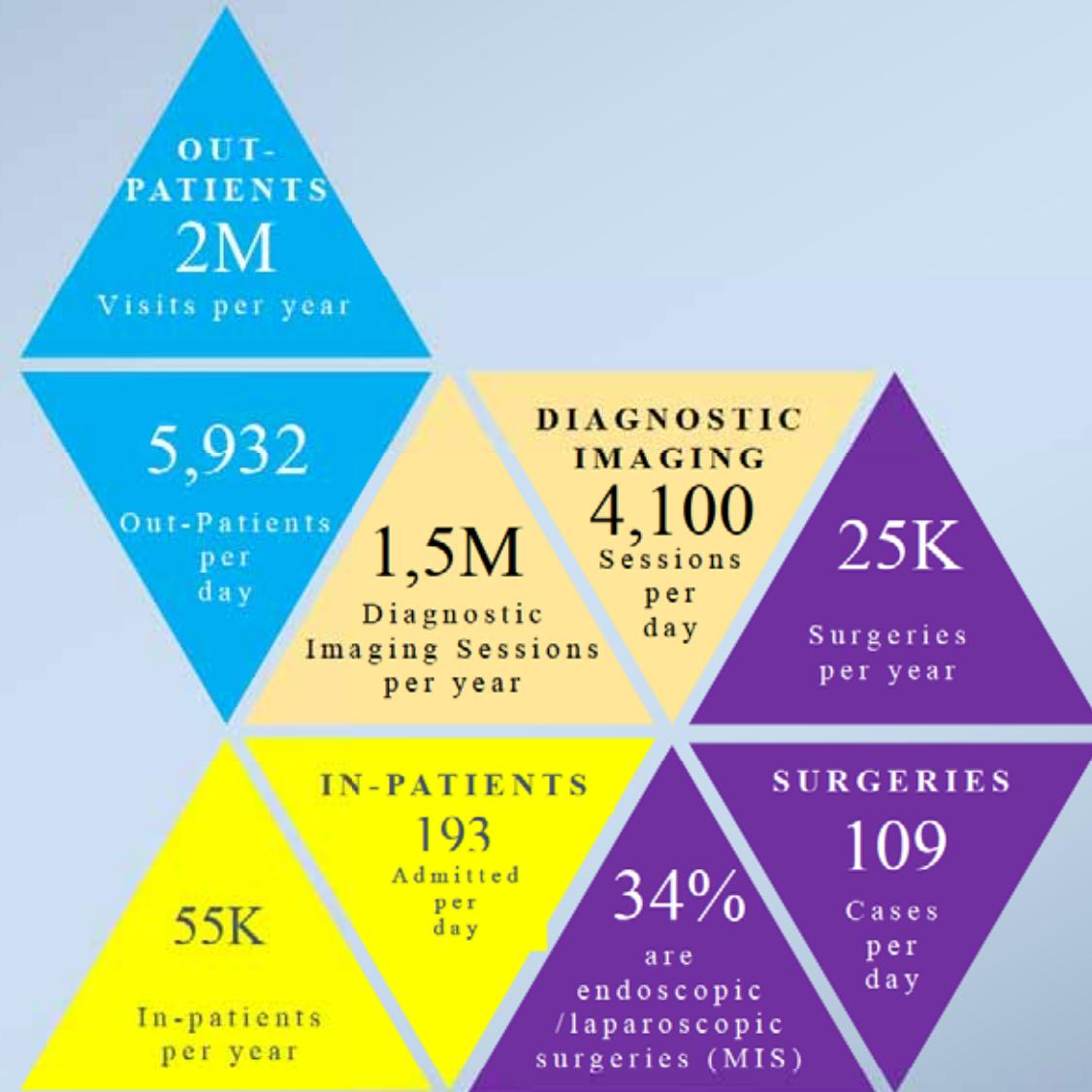
Operating room



Our Hospital

Umc in numbers

SOME OF OUR
ACHIEVEMENTS SO FAR



Our Hospital

In-patient department



Our Hospital

Tons of training activities



Our Hospital

Umc data
center



Umc-Conference Equipment

Camera

Sony

SRG-120DH



Meeting hall

Encoder

PCS

XG100S



Encoder Sony

Operating room



NETWORK 1G



Encoder Sony

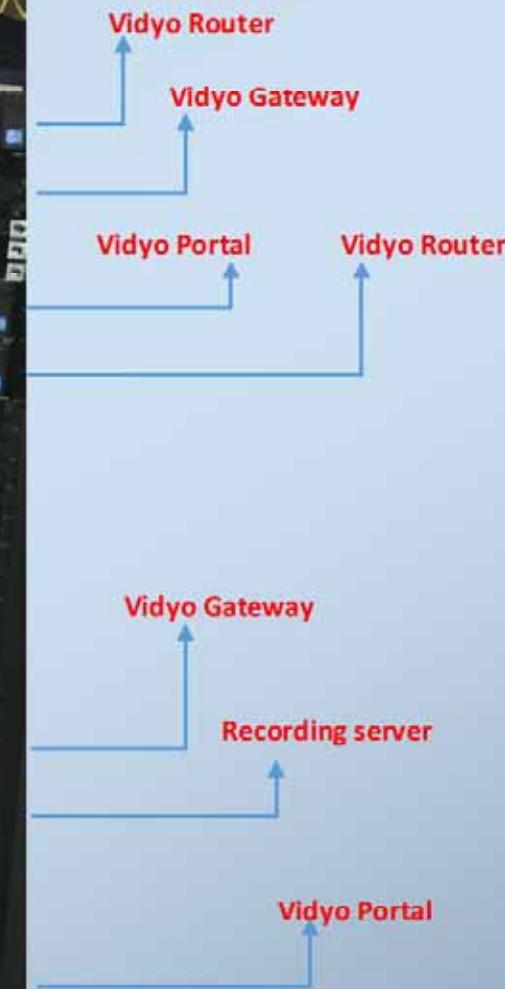
Umc-Conference system



Temdec teleconferences system

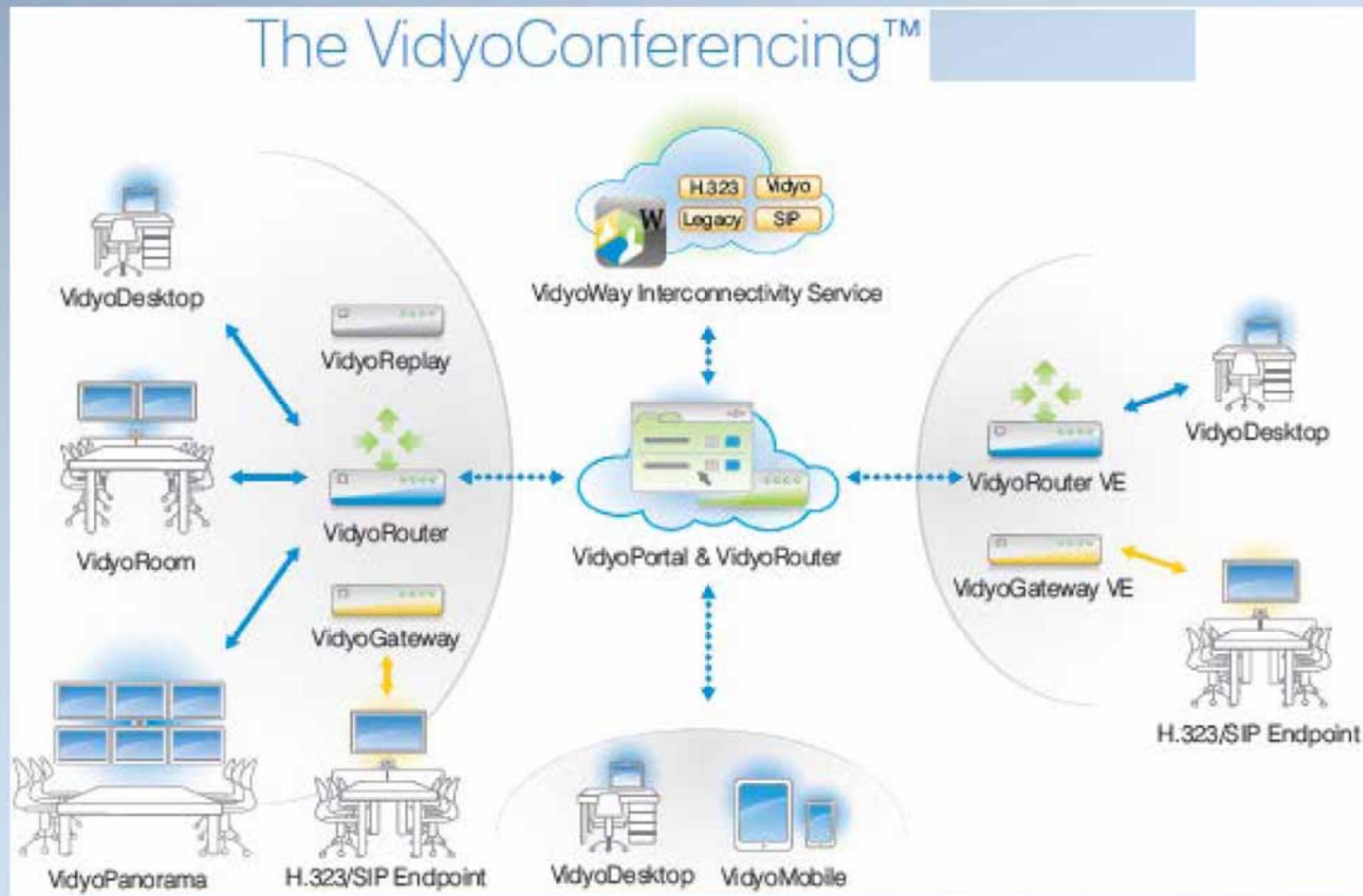
Vidyo System

2 pcs Vidyo Room

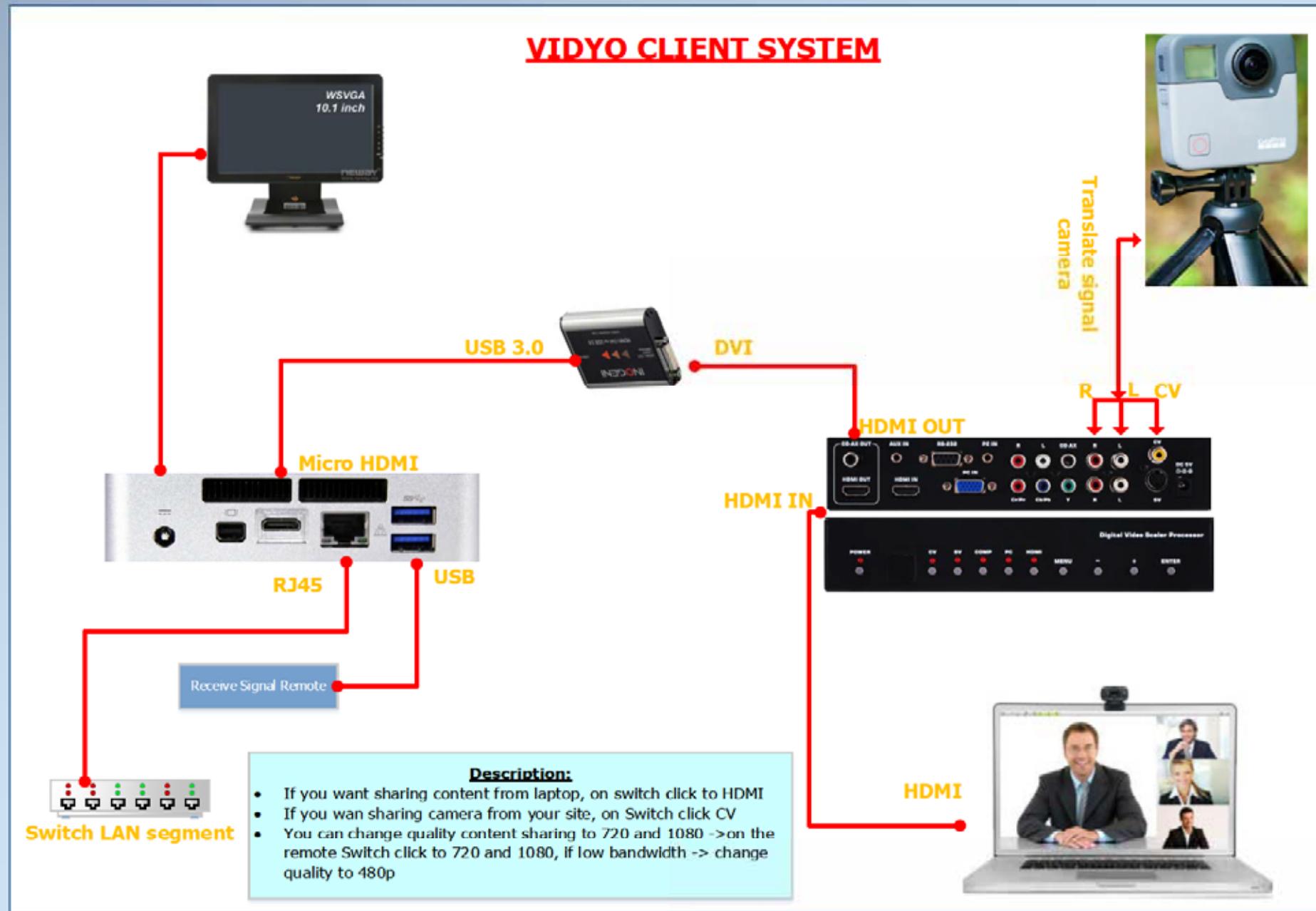


Temdec Teleconferences System

Topology Vidyo System



Temdec Teleconferences System



system

The image is a composite of two screenshots from a video conference. On the left, a panel of five medical professionals in white coats sits behind a long table in a room with a red banner that reads "KYUSHU UNIVERSITY". A small logo for "DEMDEC" is visible above the banner. On the right, a digital interface displays "Intra-operative Details" for a study involving three groups. The interface includes a table comparing "Anterior Group" and "Posterior Group" across various parameters: Total time, Submucosal tunneling, Mystery, and Clipping. It also shows the number of clips required and their p-values. Below the table, the text "Asian Inst. of Gastroenterology" is displayed, along with four smaller video feeds from other institutions: Dr. Venkatesh Mangalampalli Hospital (20190100), Royal Prince Alfred Hospital (20190111), and United CPGAA.

Parameter	Anterior Group	Posterior Group	P Value
Total time	Equal in both groups		
- Submucosal tunneling			
- Mystery			
- Clipping	6.15 ± 4.01	6.46 ± 2.44	0.04
Number of clips required	6.27 ± 1.73	4.87 ± 1.00	0.01

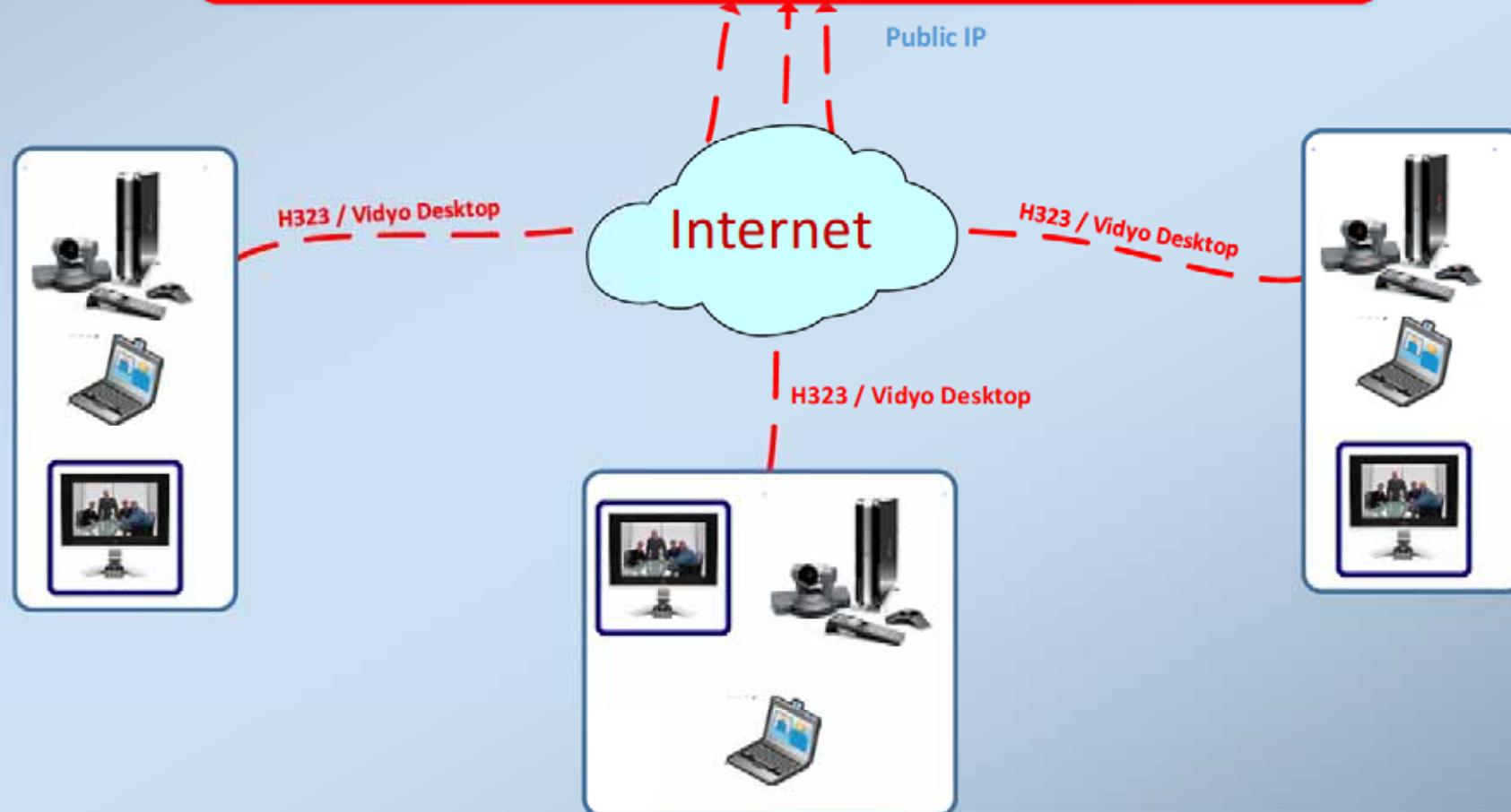
Intra-operative Details

Asian Inst. of Gastroenterology

Dr. Venkatesh Mangalampalli Hospital (20190100) Royal Prince Alfred Hospital (20190111) United CPGAA

Temdec teleconferences system

POLYCOM SYSTEM



Temdec teleconferences system

Some picture conference H323
system



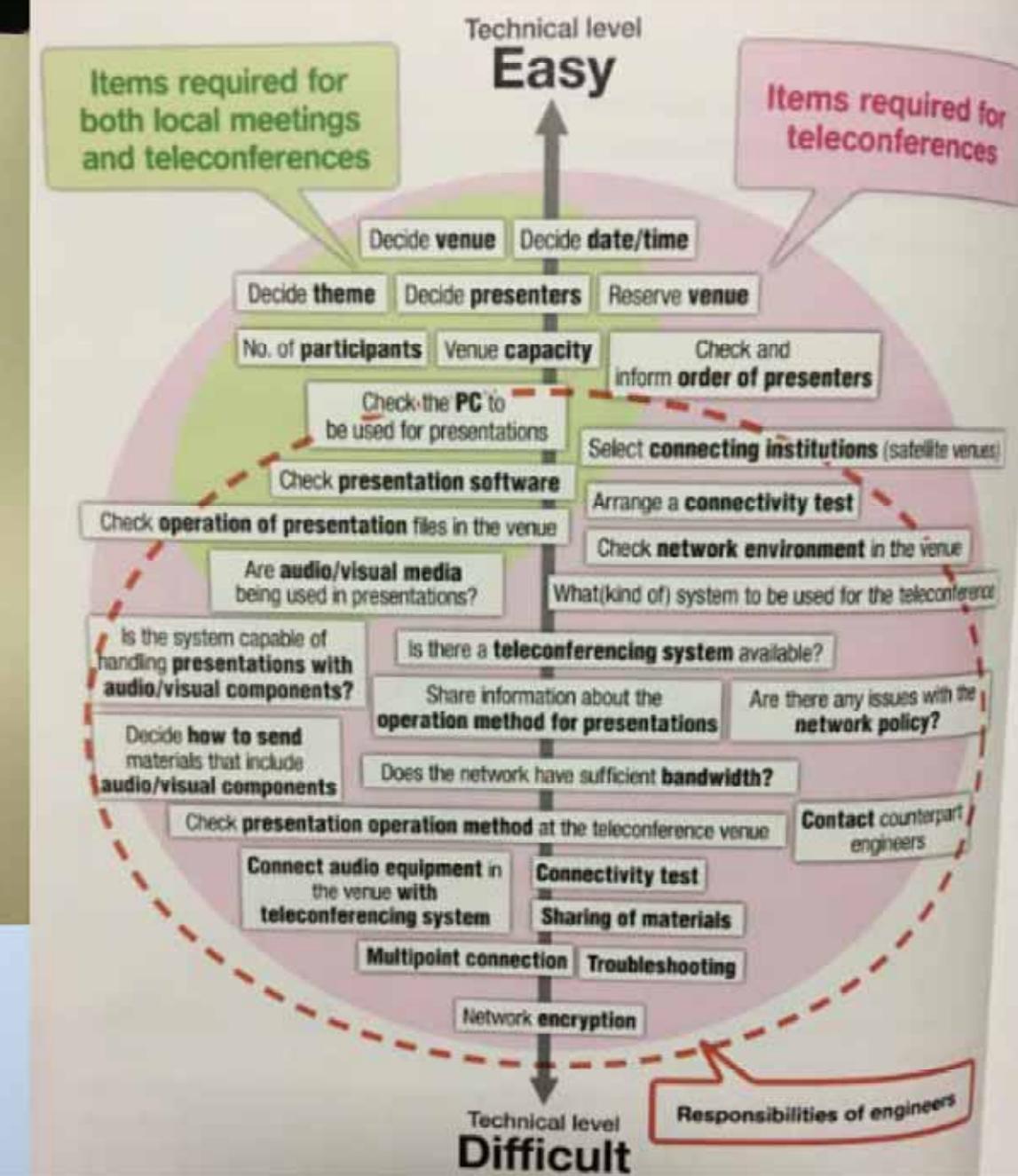
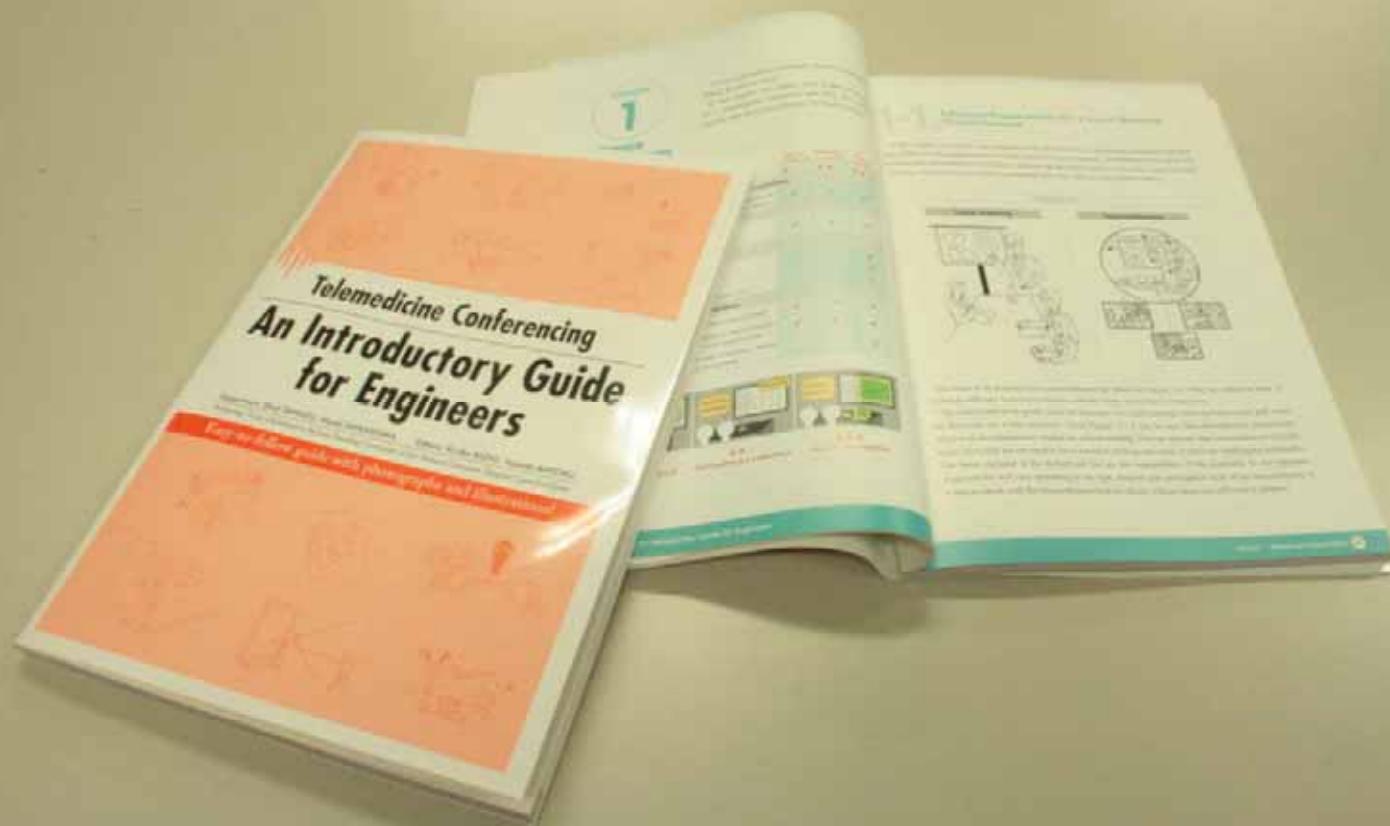
How the telemedicine event is realized

- Planning for event, technical method, etc.
- Invite participant via Email
- Survey venue before the event
- Division of tasks for the team ...
- Technical check before takes place the conference with participant.
- Mounting, setup all equipment for teleconferences in Venue.
- Received slide and movie from Participant.
- Follow, monitor and troubleshooting in the conference
- Report after finished the event.
- Closing remarks and finish event

Technical preparations

- Send schedules to the participating countries
- Decide venue, date and time, presenters
- Network policy check in venue countries
- Teleconferencing system available ?
- Coordinate with local engineer to test
 - Connection check
 - Image sharing check
 - Sound Check

Technical preparations

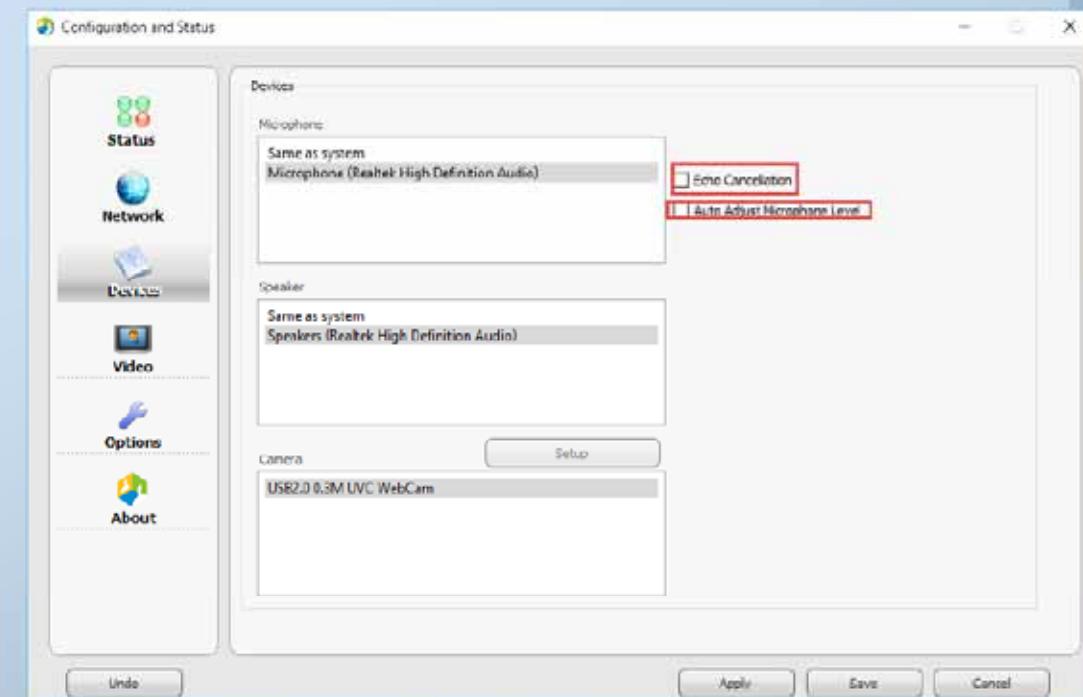


Requirements for telemedicine

- Minimum bandwidth internet 4 Mbps
- Recommends using the wire network.
- Computer with high resource will give nice the picture and not lag
- Camera can support HD
- Microphone have function noise filtering
- Make sure mute the microphone when not speak
- QoS for conference

Technical Troubleshooting

- Sound problem :
 - Echo / Howling
 - Noise
 - Sound breaking up
- Image Problem
 - Poor image quality
 - Image does not display
 - Presentations are not show on screen
- Network problem
 - Packet loss

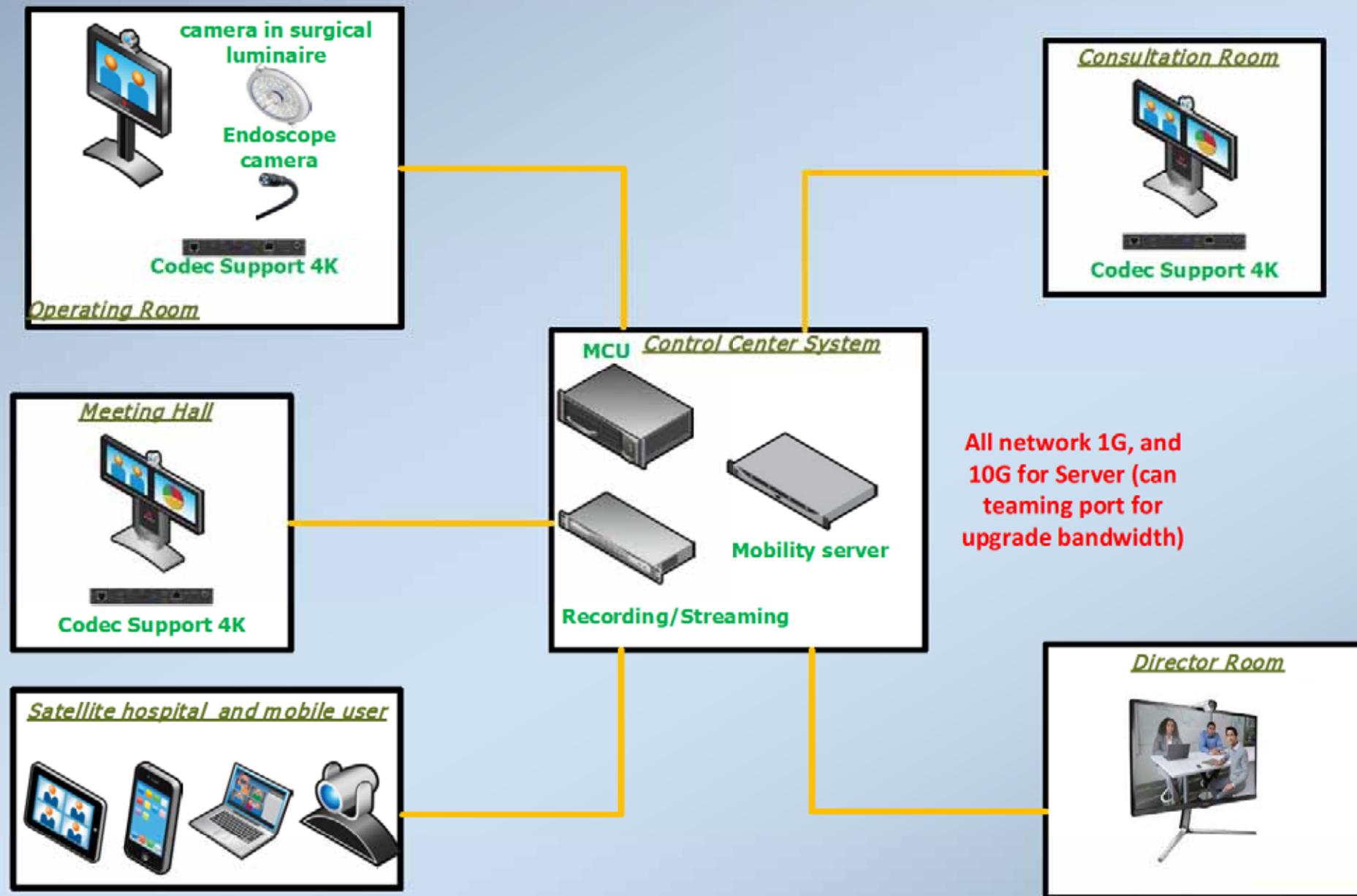


Future plan

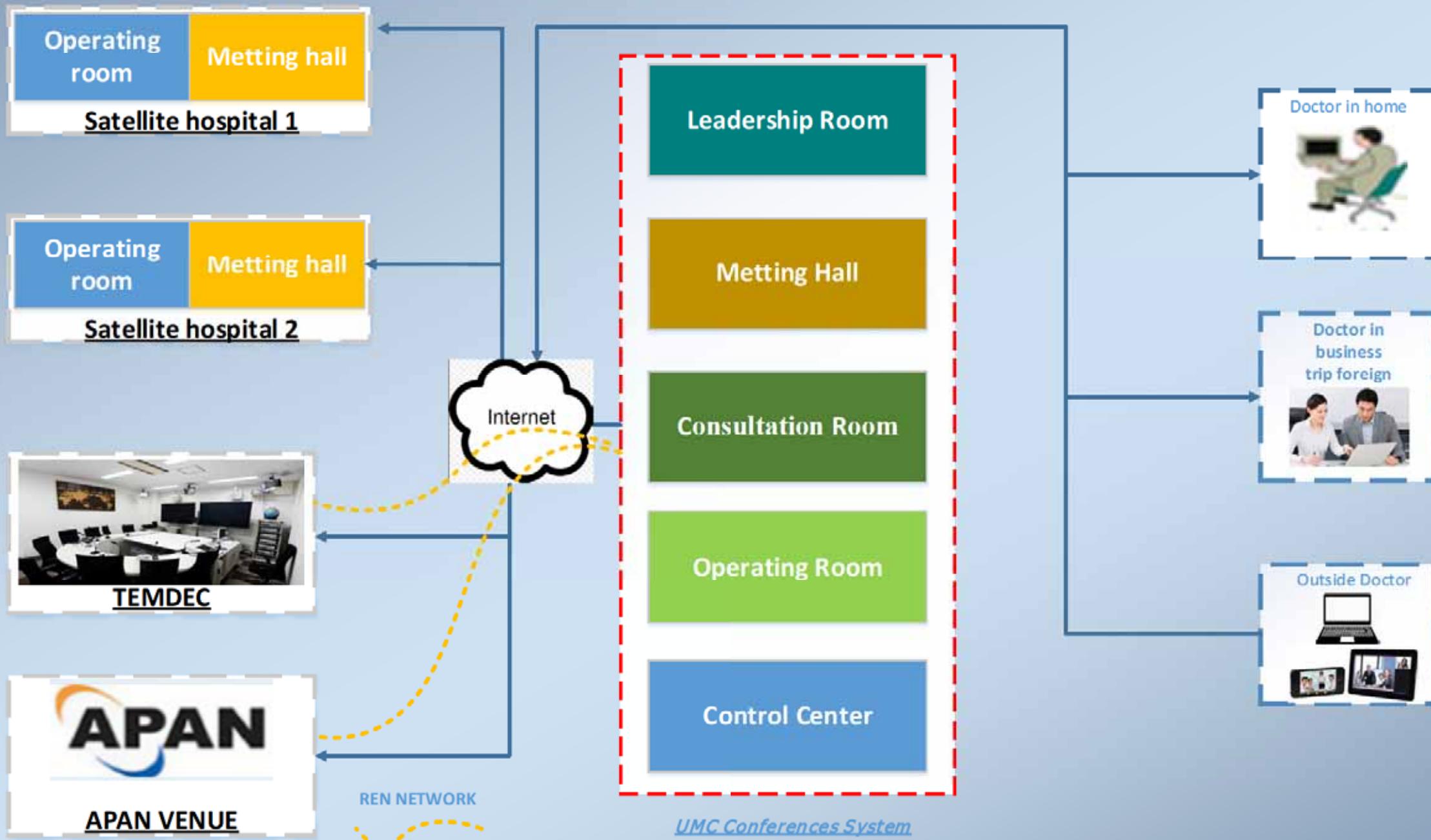


- Share the knowledge learned with my department and other staff interested about telemedicine system
- Upgrade bandwidth internet line to 500 mbps local and 20 mbps international. (Finish this month Sep-2017)
- Forwarding event information for faculties, departments related when received

Future plan



Future plan



Visit the operating room



Visit to the server room for telemedicine



Team work (we are one)

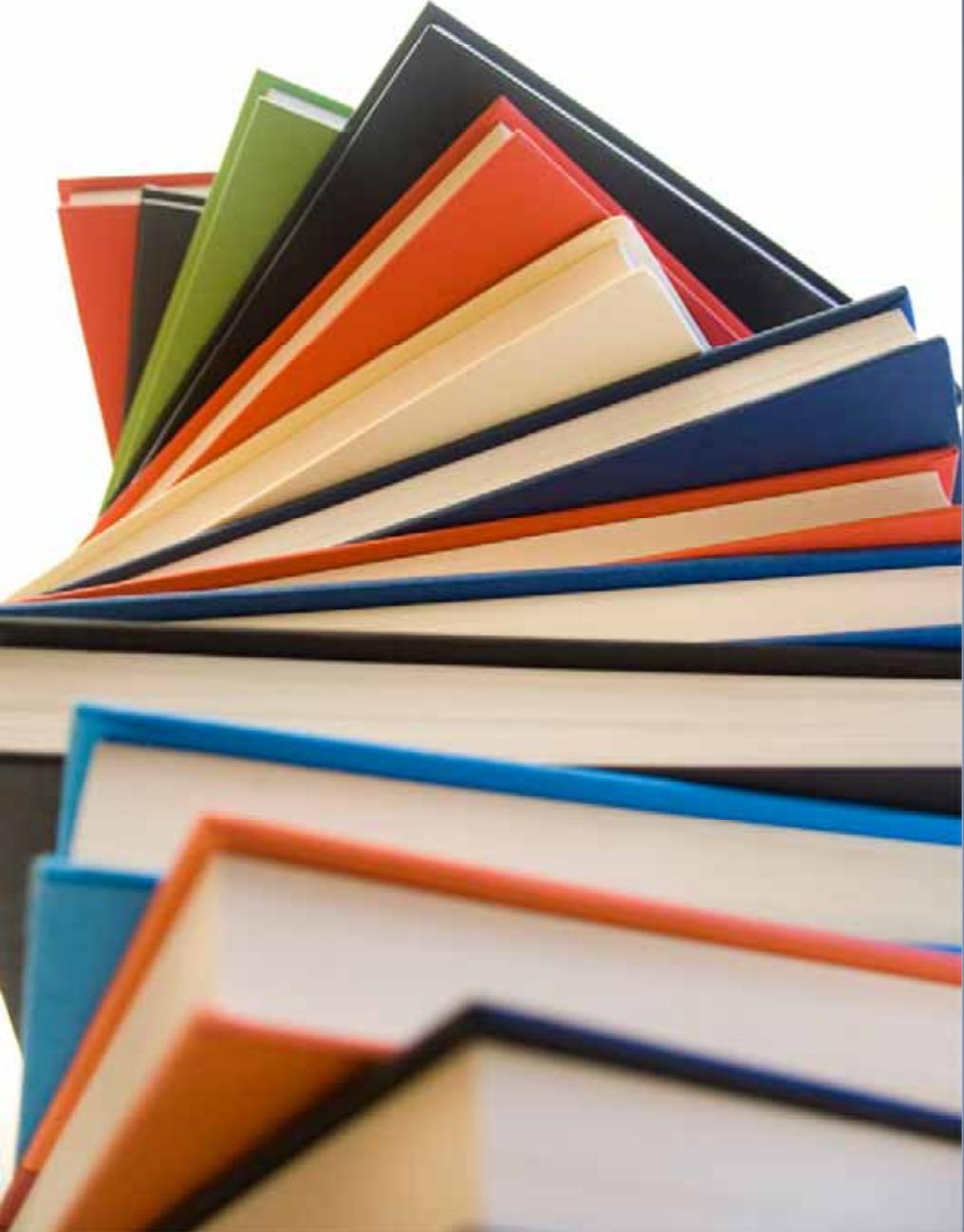


Food in Fukuoka



After work





THANKS FOR YOUR ATTENTION