TEMDEC Telemedicine Development Center of Asia

NREN

VIDEO CONFERENCE TRAINING

TEMDEC, KYUSHU UNIVERSITY HOSPITAL

By: Niraj Acharya
Nepal Research & Education Network

PROGRAM:

Train the Trainer

OBJECTIVES

- How the telemedicine event is realized
- Required quality level for telemedicine
- Teleconferencing systems
- Technical preparations for and event
- Handling and troubleshooting on technical problems

Vidyo Room

Remote Site equipped with H.323

H.323 Polycom

Remote Site equipped with VidyoRoom

Vidyo-portal
Vidyo Gateway
Vidyo Record
H.323 MCU

Servers & DataCenter

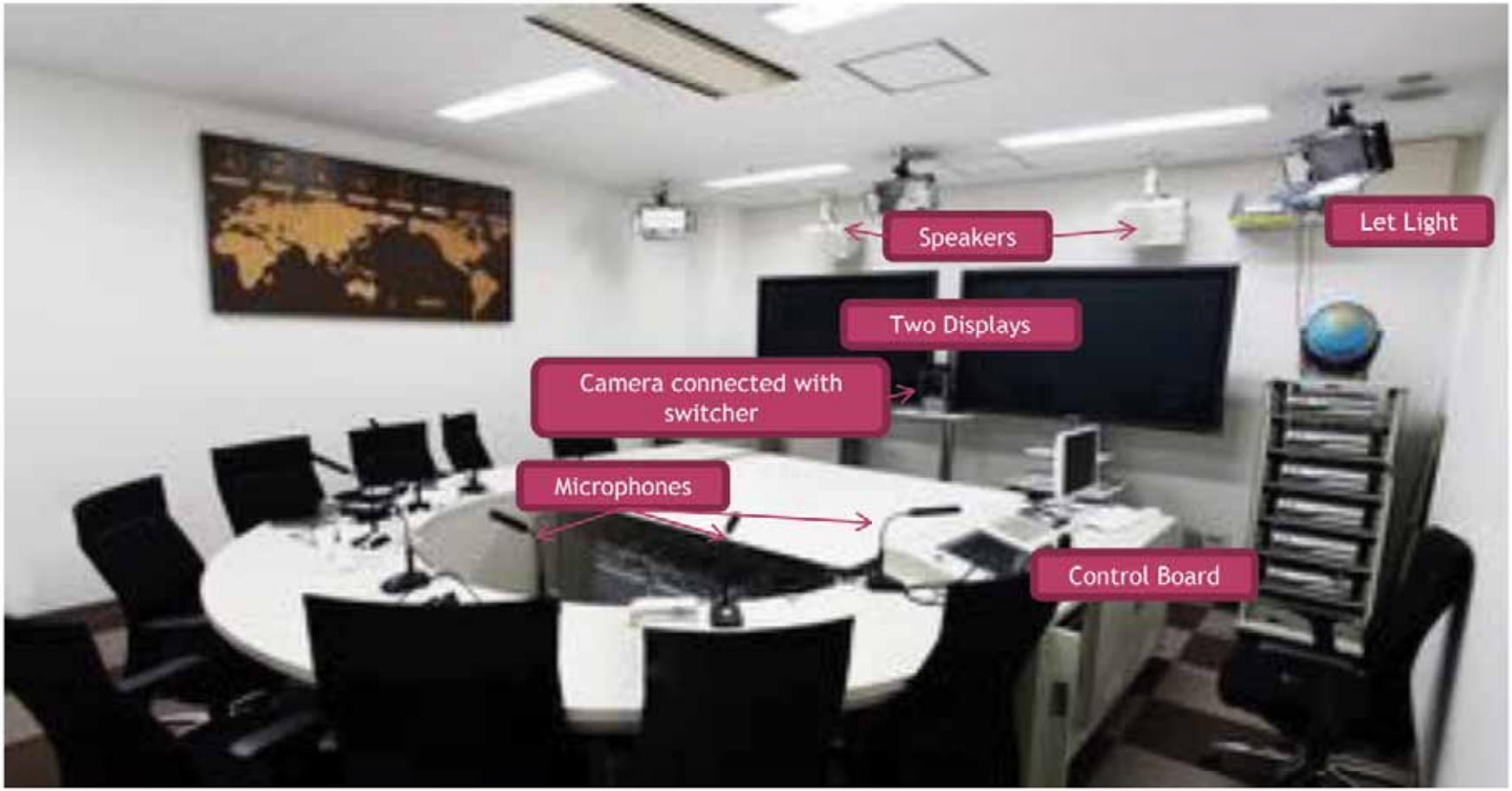
VidyoDesktop User

Conference Venue

TELEMEDICINE EVENT REALIZATION

- Audio
  - Audio In: Microphones >> wired/wireless
  - Audio Out: Speakers
- Video
  - Video In: Camera>> usb, firewire, vendor specific
  - Video Out: Monitor, Projector etc.
- Network
- Conferencing equipment and medium
  - Dedicated Hardware: VidyoRoom, Polycom HDX, Lifesize, Cisco,
  - Software: Skype, zoom, vidyoconnect, adobeconnet, open source software etc.
  - Computer /Laptops, tabs, smart phones.
- Cables and connectors
  - Audio/video cables and connectors and adpter
- Controls
  - Audio Mixer/amplifere, video mixer, video switcher, Control panels
- Sound absorber

CONFERENCE ROOM SETUP



CONTROL BOARD INCLUDES

Camera Remote Control

Control Panel

Video Mixture

HD Video Switcher/Audio mixer

Audio Mini Mixture

MEANS OF VIDEO CONFERENCING USED

- H.323 End point
- H.323 MCU
- Vidyo Room Endpoint
- Vidyo Portal
- Vidyo Gateway
- Vidyo Desktop

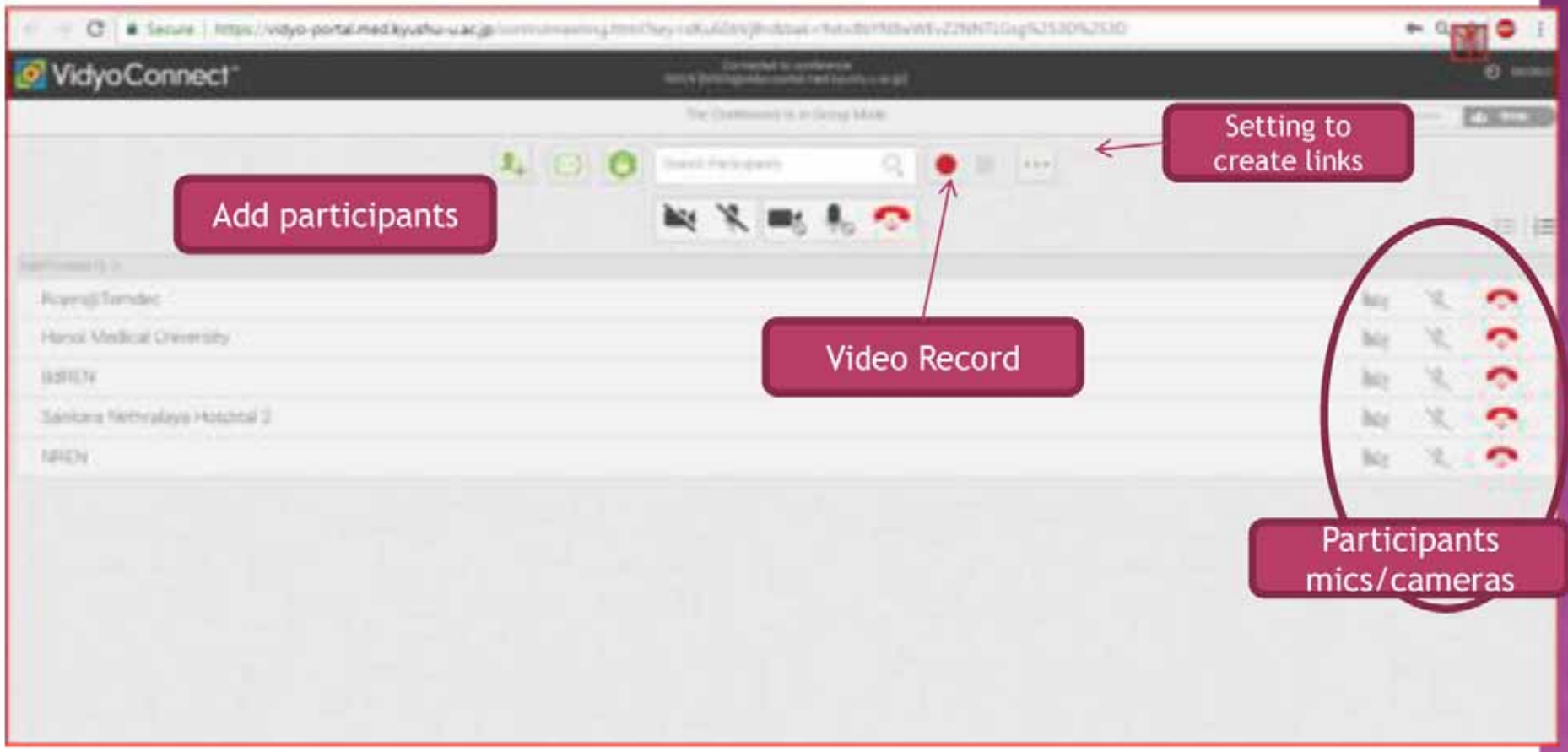
PRACTICING WITH TWO VC SYSTEMS

- H.323
  - Point to Point
  - Point to Multipoint
  - Medical Content Sharing
- Vidyo System
  - How to Use Vidyo Room
  - Sharing medical Content
  - Record & Streaming
  - Administration of meeting room using of admin panel

Compare the image quality

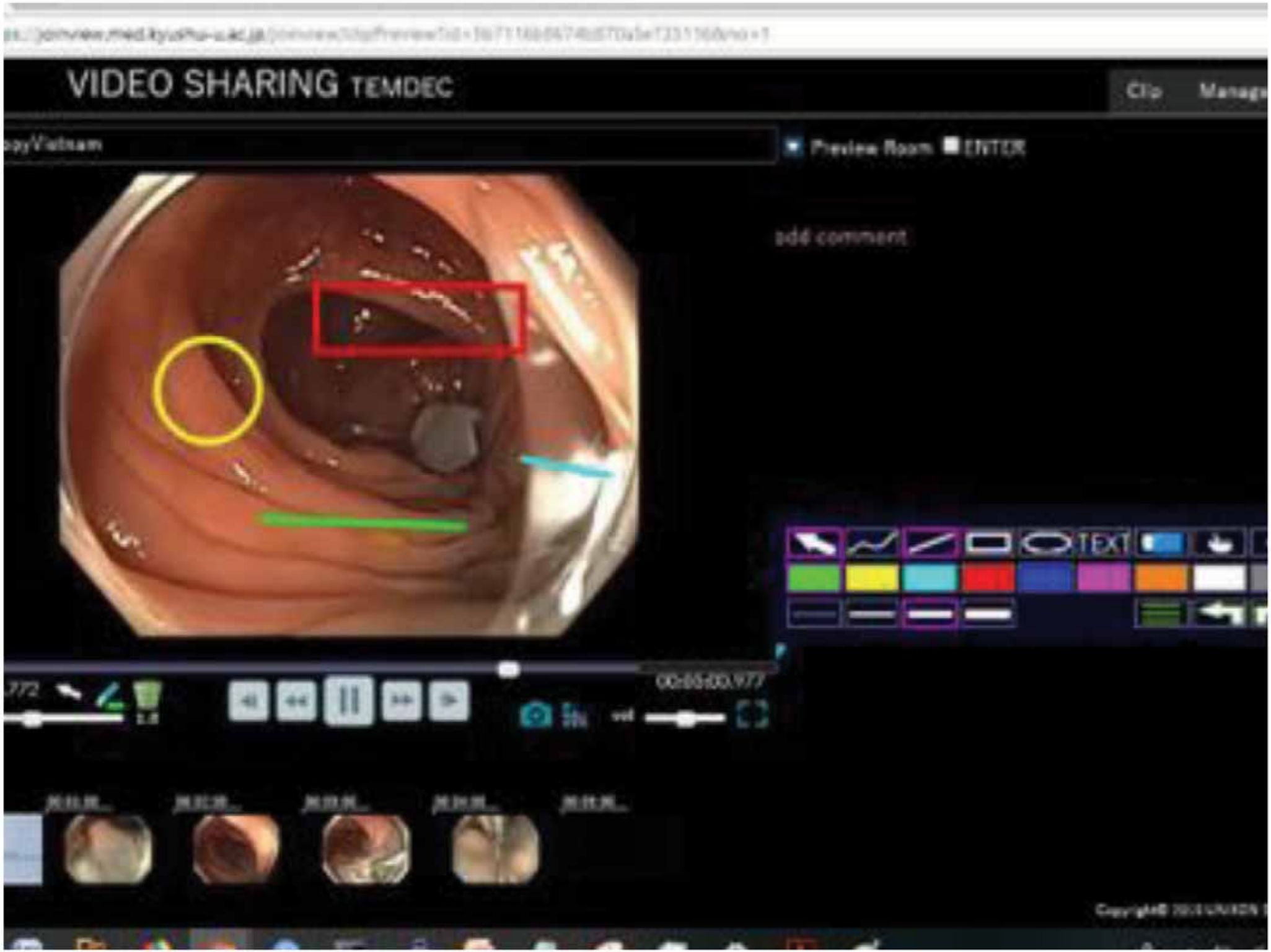
Video clip should be played from video room

VIDYO DESKTOP ADMIN PANEL



JOIN VIEW (VIDEO SHARING PLATFORM)

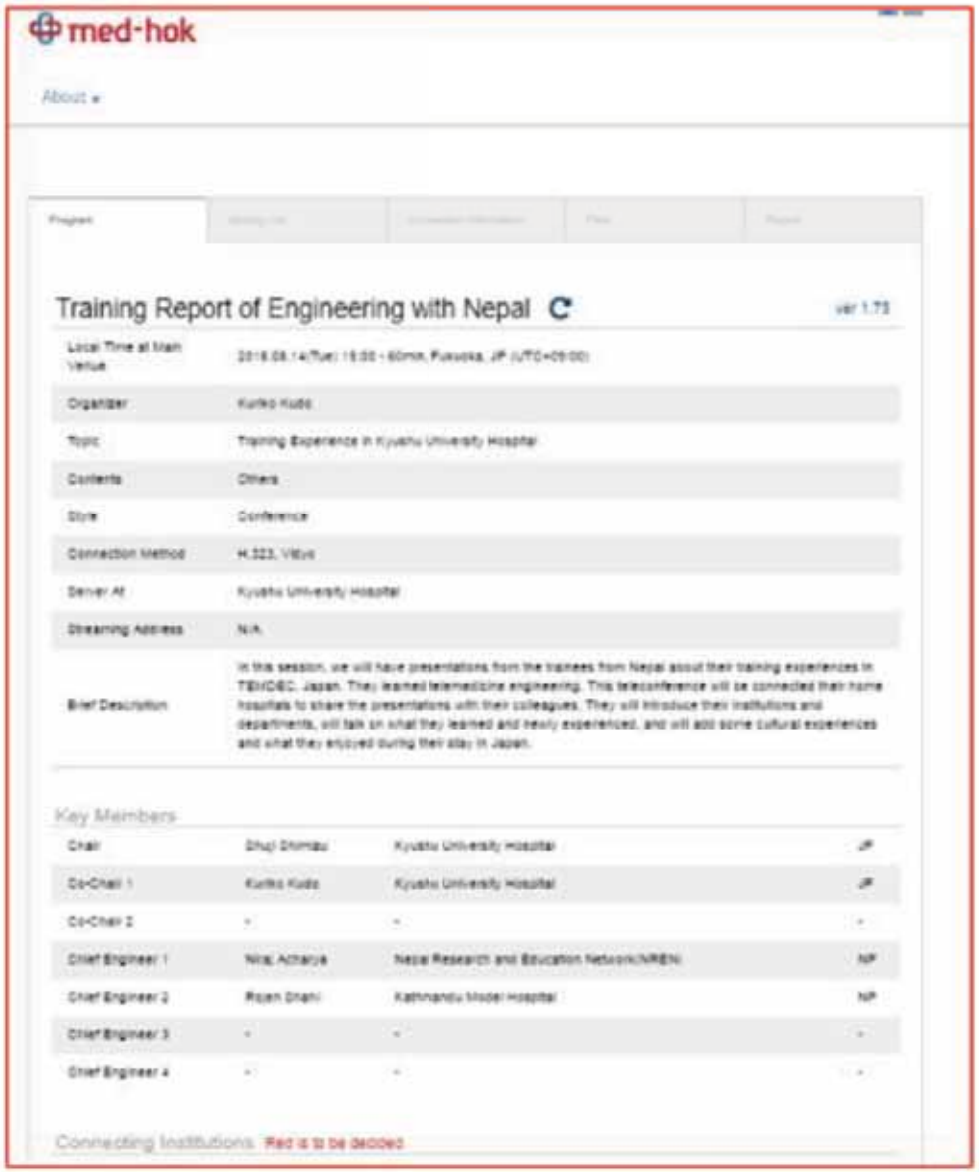
Used Join view is use to put annotation in videos, pause/back/forward the sharing video by participants


VIDEO SHARING TEMDEC
Clip
Preview Room
ENTER
add comment
TEXT

RESPONSIBILITY OF INDIVIDUALS IN AN EVENT

- Organizer:
  - Defines the Title of program
  - Send proposals for presenters
  - Ask them abstracts and biography
  - Select the presenters, chair, co-chairs, chief engineers etc.
- Chief Engineer
  - Coordinate with organizer
  - Create mailing list
  - Choose the system to be used by discussing with local engineers
  - Announce the test
  - Conduct the test with local engineers
  - Administered the whole session technically (Audio/Video/Network etc.)
  - Make the report for session review
- Local Engineer
- Participate in test connection
- Coordinate with doctors / presenters at his site
- Participate in final connection test
- Check audio, video, network at own end
- Be in touch with chief engineer and other engineers from text messaging
- Give feedback of the session

OTHERS: MED-HOC



ADOBECONNET

- Use Group chat platform among the engineers to make the event successful technically.
- Adobeconnect
  - Because of the Group chat any body can see the concern of any one and help to troubleshooting.

UNDERSTANDING FROM APAN ENGINEERING SESSION

- There are many factors and issues that affect the Telemedicine events
  - Audio
  - Video
  - Contents
  - Network

Most of the time Audio appears as the major issue for the disturbance

- There are factors that affect the event:
  - Human
  - Hardware
  - Software
  - Context
- Its concluded that Human is the is the prime factor behind the problem occurred in conference
  - Lack of knowledge and skills
  - Lack of Managerial skill
  - Lack of communication

VIDYO CONFERENCE USED IN NREN

- H.323 :
  - Polycom HDX7000
  - Plycom MCU RMX1500

- Web Conferencing Application from open source platform
  - Is being used by Doctors for Inter Hospital Sharing, monthly meets, Engineers,
  - Going to use by some schools for tele-teaching

NREN MEMBERS

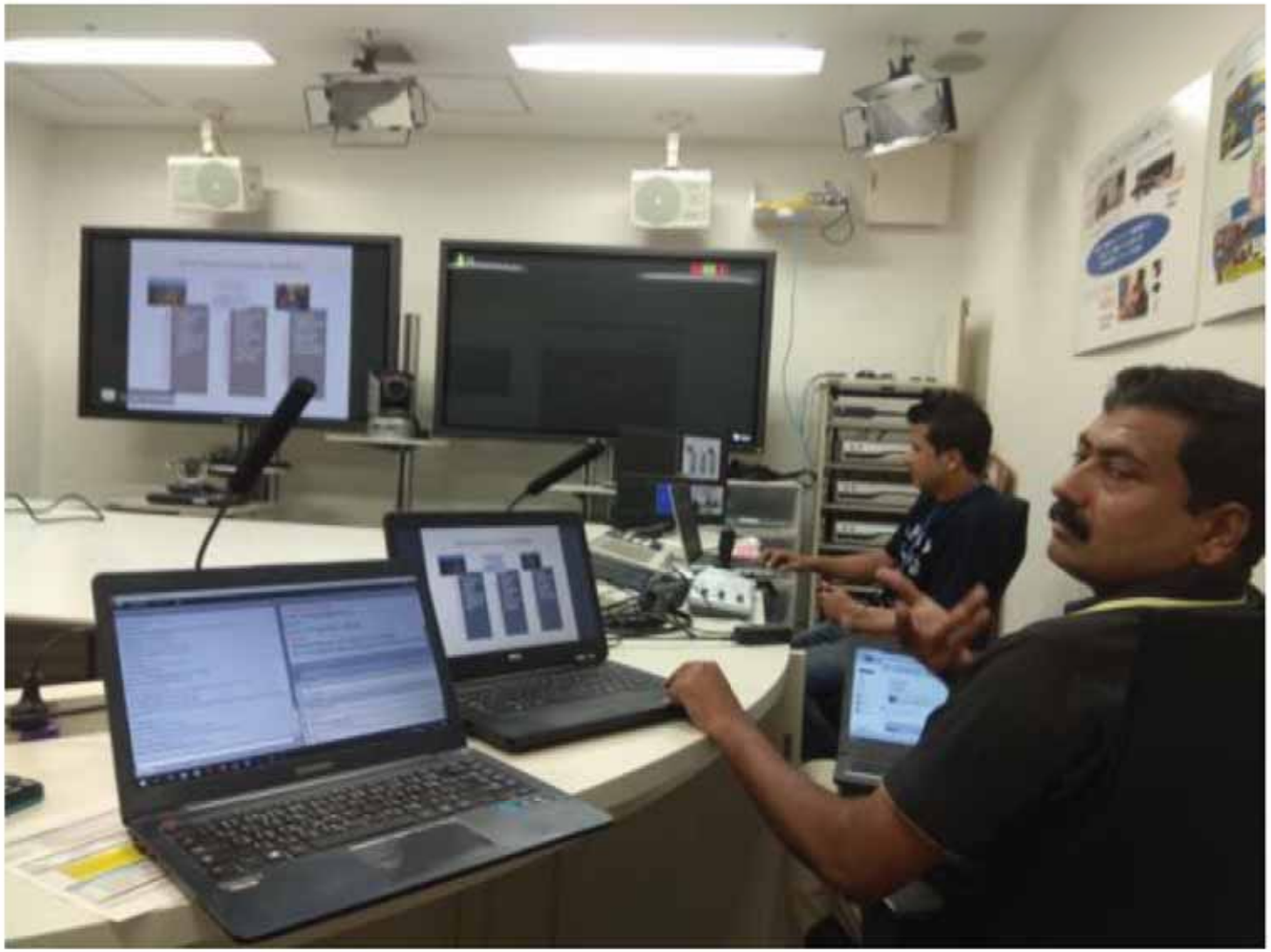
- Six Hospitals and Medical colleges are the members of NREN

APAN HBP SESSION

DOCTORS FROM KYUSHU UNIVERSITY PARTICIPATING IN APAN46 REMOTELY

APAN46 DENTAL SESSION

ENGINEERS @ TEMDEC SUPPORTING APAN46 EVENT



INSTRUCTION REGARDING VIDYO SYSTEMS AND H.323 SYSTEMS

九州大学
KYUSHU UNIVERSITY
umbro

VISIT TO ELECTORNICEXIHIBITION

ENJOYING IN SUSHI RESTAURANT

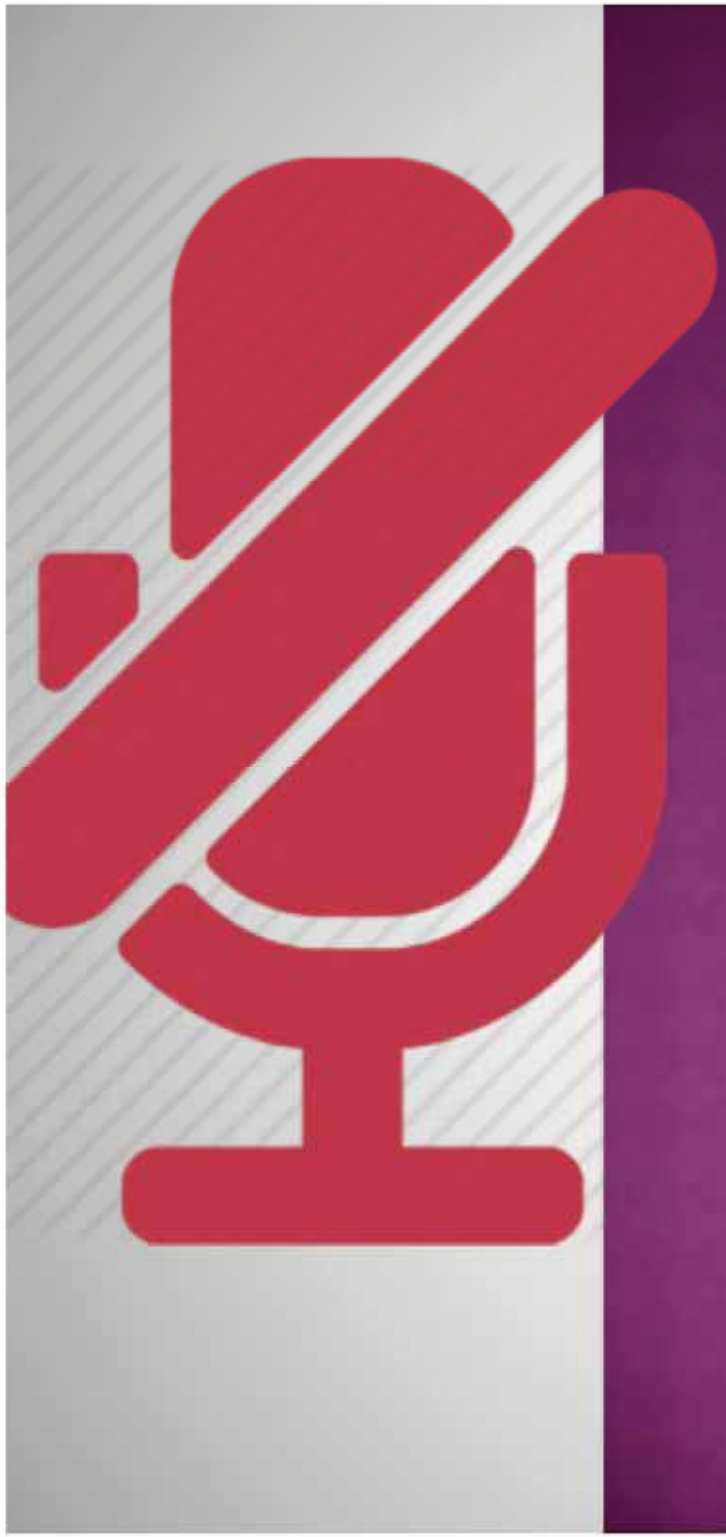
VISITING FUKUOKA TOWER

@OPEN TOP BUS FUKUOKA

VISITING NAGASAKI

VISITING NAGASAKI

ありがとうございました



DID YOU MUTE YOUR MIC WHILE NOT SPEAKING