

# One Month Training Telemedicine Development Center of Asia Report

WAHYUDIANTO

HARAPAN KITA MOTHERS AND CHILDREN HOSPITAL

## General Information :

- Duration : one month (27 July 2015 until 21 august 2015)
- Location : Telemedicine Development Center of Asia  
Kyushu University Hospital, Fukuoka, Japan
- Content of Training :
  - How is the Telemedicine event realized
  - Required quality level for Telemedicine
  - Teleconferencing systems
  - Technical preparations
  - How to work on problems
  - Connect between RSAB Harapan Kita and TEMDEC

11420, Telp. 021-5668284 (H)

819.0417.9999, facebook

## PROFILE :

*Provides leading health care for children, juvenile and mothers*



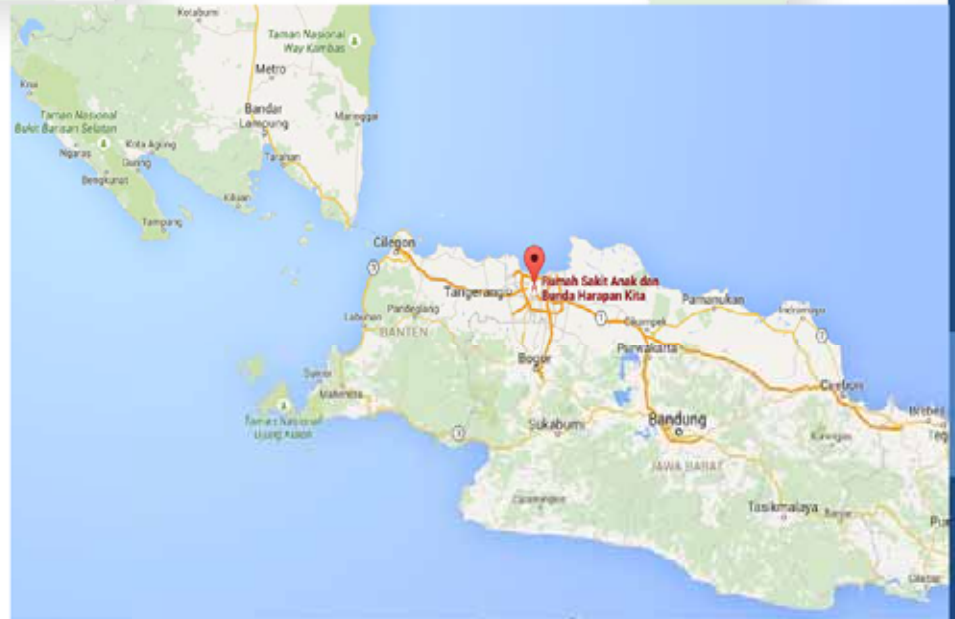
Jalan Letjen S. Parman Kav.87 Slipi Jakarta 11420, Telp: 021-5668284 (Hunting),  
Fax: 5601816, email: [info@rsabhk.co.id](mailto:info@rsabhk.co.id)  
website: [www.rsabhk.co.id](http://www.rsabhk.co.id), sms gateway: 0819.0417.9999, facebook: RSAB  
HARAPAN KITA, Twitter: @rsabhk



# History

Established by the foundation Harapan Kita on 22 December 1979 was named Rumah Sakit Anak dan Bersalin HARAPAN KITA and shortened to RSAB HARAPAN KITA, in english language called Harapan Kita mothers and children Hospital

Located in Jakarta, Indonesia



# Vision :

Harapan Kita mothers and children Hospital into hospital service and education subspecialistic women's reproductive health, neonatal and child at the level of ASEAN in 2019



# Mission :



- Organize services specialist and subspecialists in the field of women's reproductive health, neonates and children
- Organize medical education subspecialis reproductive health of women, neonatal and children
- Organize training in the field of reproductive health of women, neonates and children
- Organize research in the field of reproductive health of women, neonates and children
- Promoting networking and referral system in the field of reproductive health of women, neonates and children



## Excellent Service :



- Integrated polyclinic healthy children
- Klinik Sehati (senyum sehat anak Indonesia/ harelip)
- Klinik KKTK (Klinik Khusus Tumbuh Kembang)  
Special growth clinics
- Parent Education Program
- Klinik Melati / IVF Clinic
- Perinatology
- Bidic : Birth Defects Integrated Center
- Etc..





## RSAB Harapan Kita Pictures :



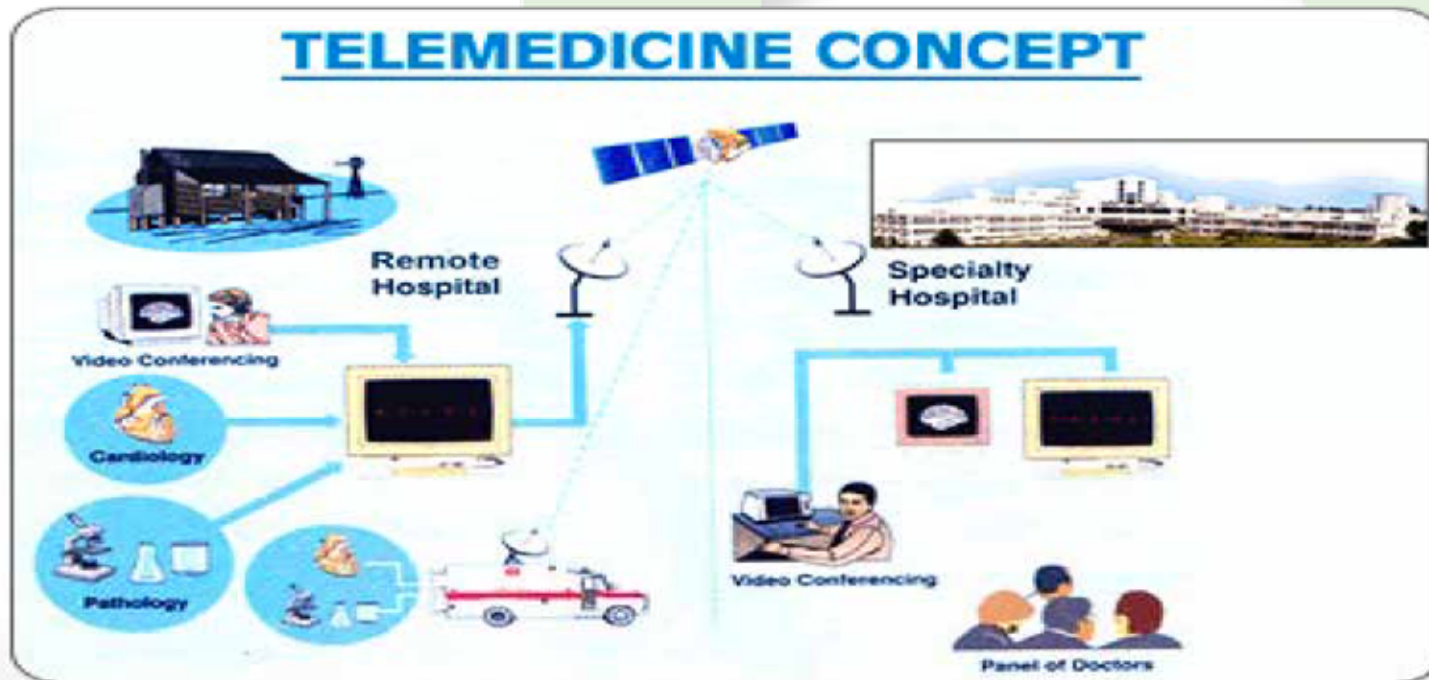




## Definition :

*Teleconference or teleseminar* is the live exchange and mass articulation of information among several persons and machines remote from one another but linked by a telecommunications system.

*Telemedicine/e-health* allows health professionals to evaluate, diagnose and treat patients in remote locations using telecommunications technology



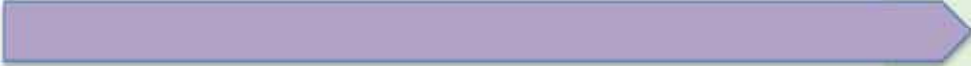
# Equipment :

- Internet bandwidth : 20 Mbps (international)
- Network system :
  - Server
  - PC : 500 Units
  - Backbone with Fiber Optic
  - Cat 6 cabling
- Teleconference system :
  - Desktop computer (with video system)
  - Web camera
  - Microphone



RSAB Harapan Kita don't have a great device, only have a web camera and microphone donation from Temdec, Kyushu University.

## Teleconference problem

- 
- Audio issues
  - Video issues
  - Connection internet issues

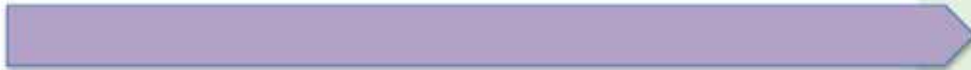
### The Expected Quality :

- Acceptable video quality
- Clear & smoth content sharing
- Clear audio
- No Loss internet connection

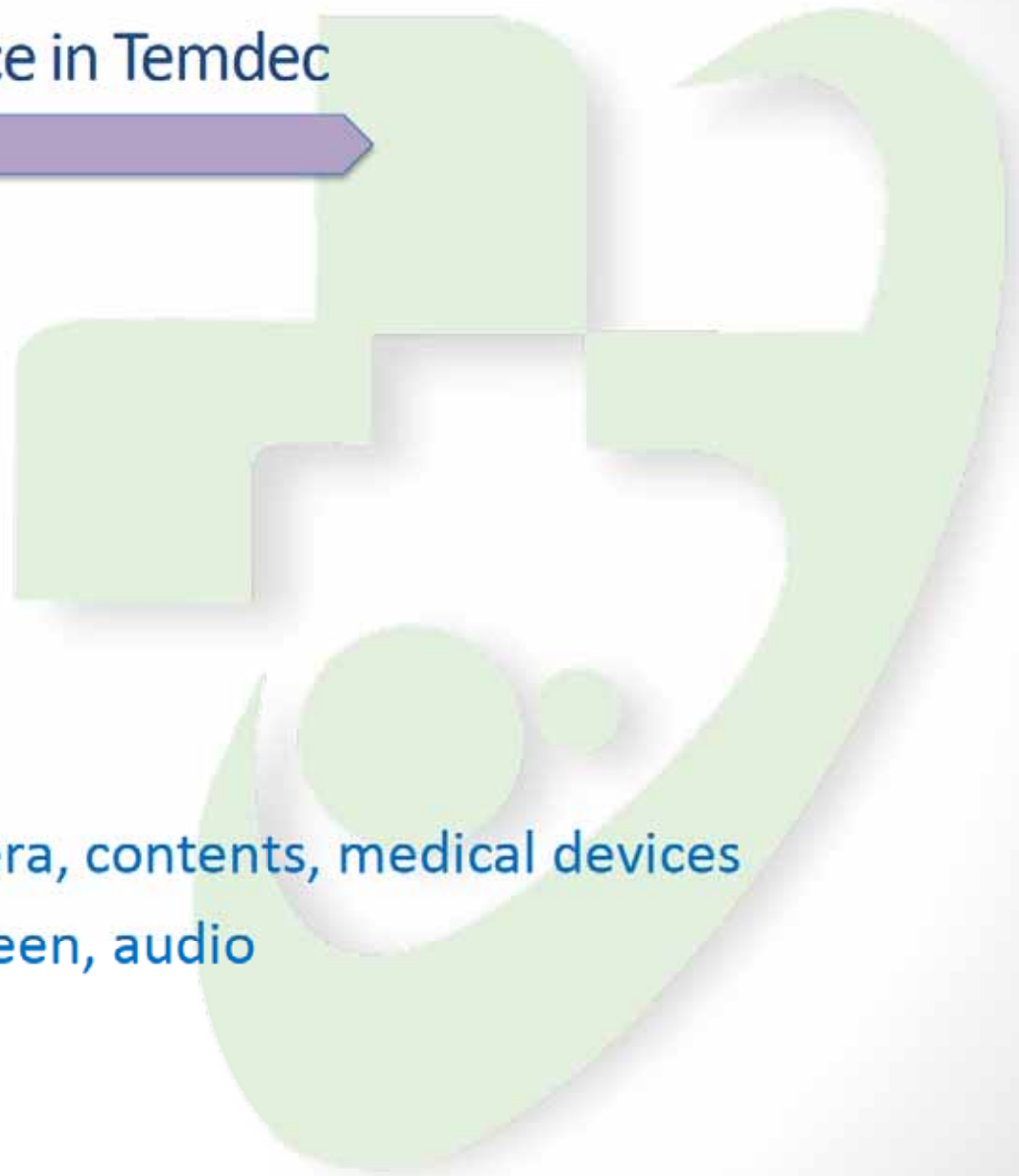




## Device Teleconference in Temdec

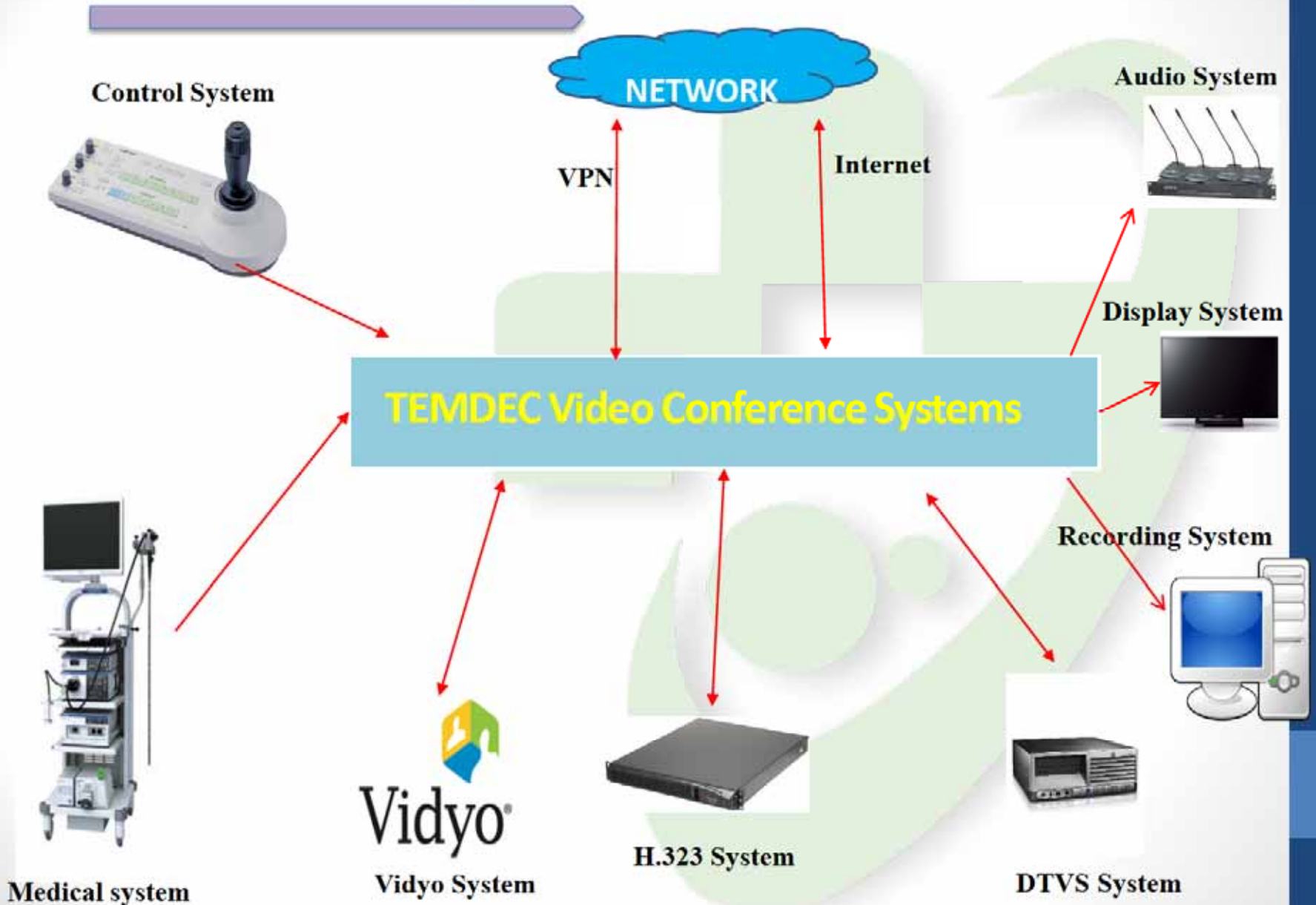


- H.323
- Vidyo
- DVTS
- Recording system
- Control system
- Network system
- Input system: camera, contents, medical devices
- Output system: screen, audio





## Teleconference System





## H.323 System



lifesize



**Sony PCS-XG80**  
**IP: 133.5.230.22**



**MCU Polycom**  
**RMX1500**  
**IP: 133.5.230.35**



**Polycom**  
**HDX9000**  
**IP: 133.5.230.30**

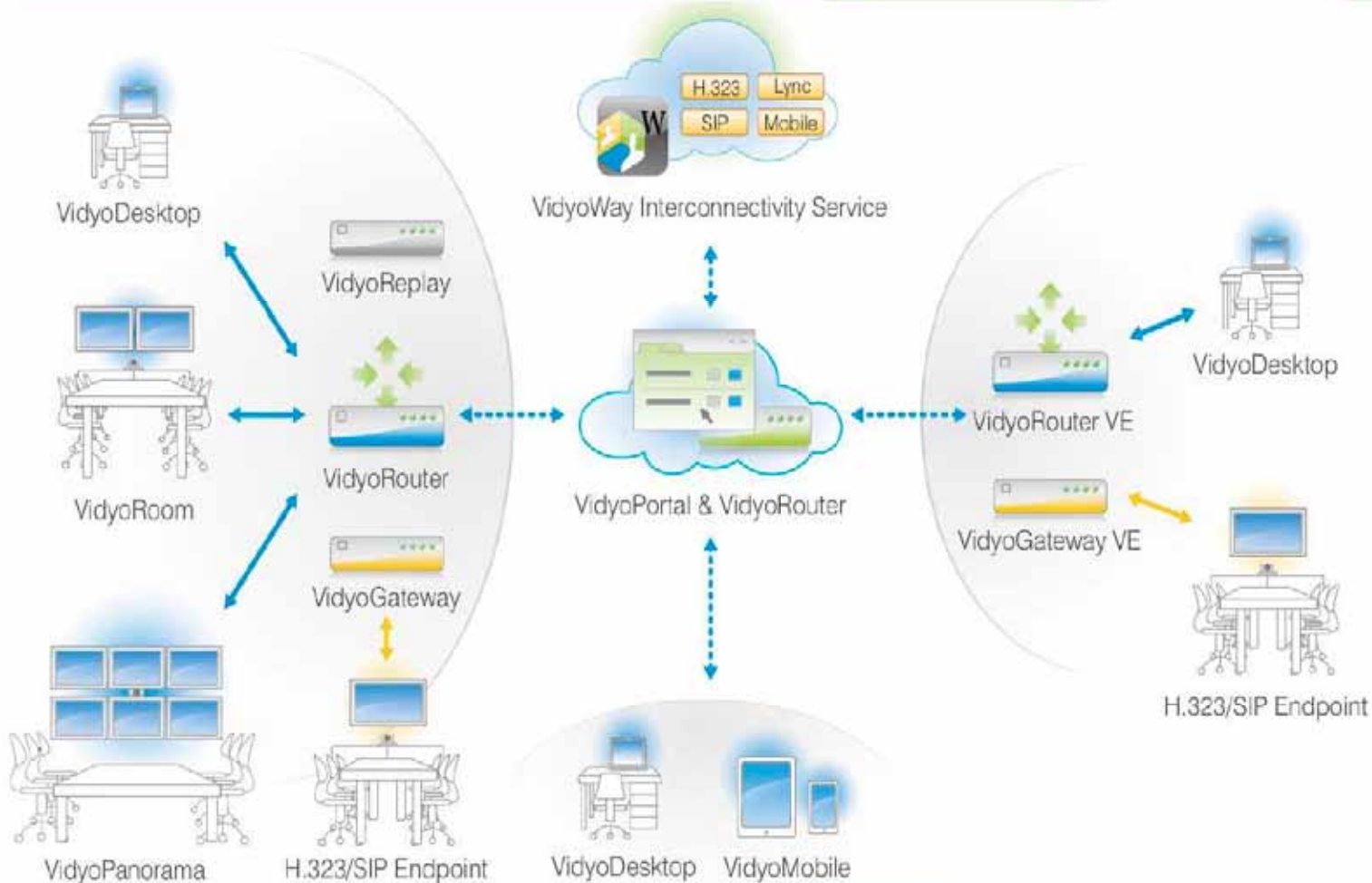




## Device picture :



# Video System in Temdec





# Vidyo system connection



Sony

Polycom



Internet

LAN

LAN

LAN

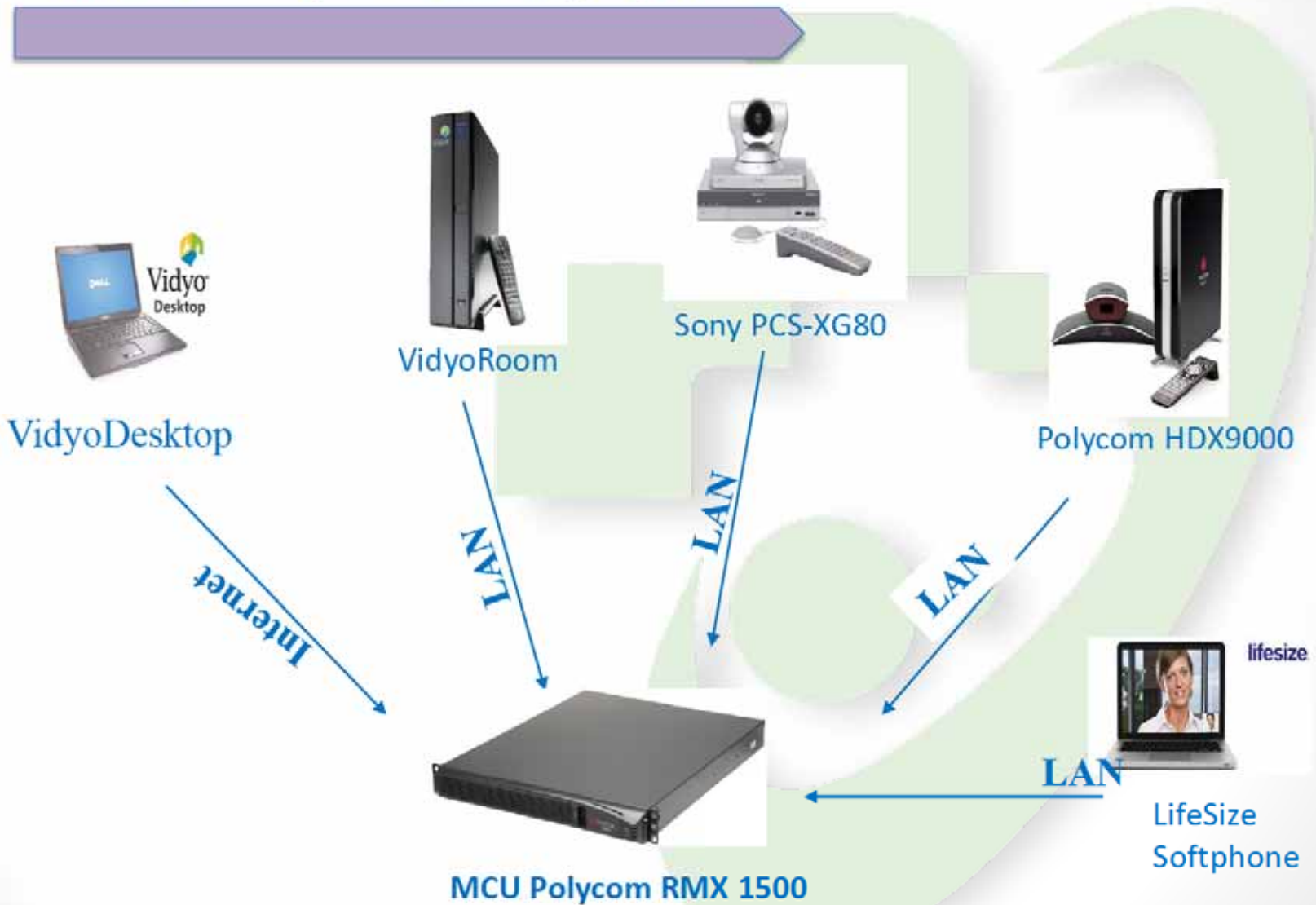


Vidyo Portal



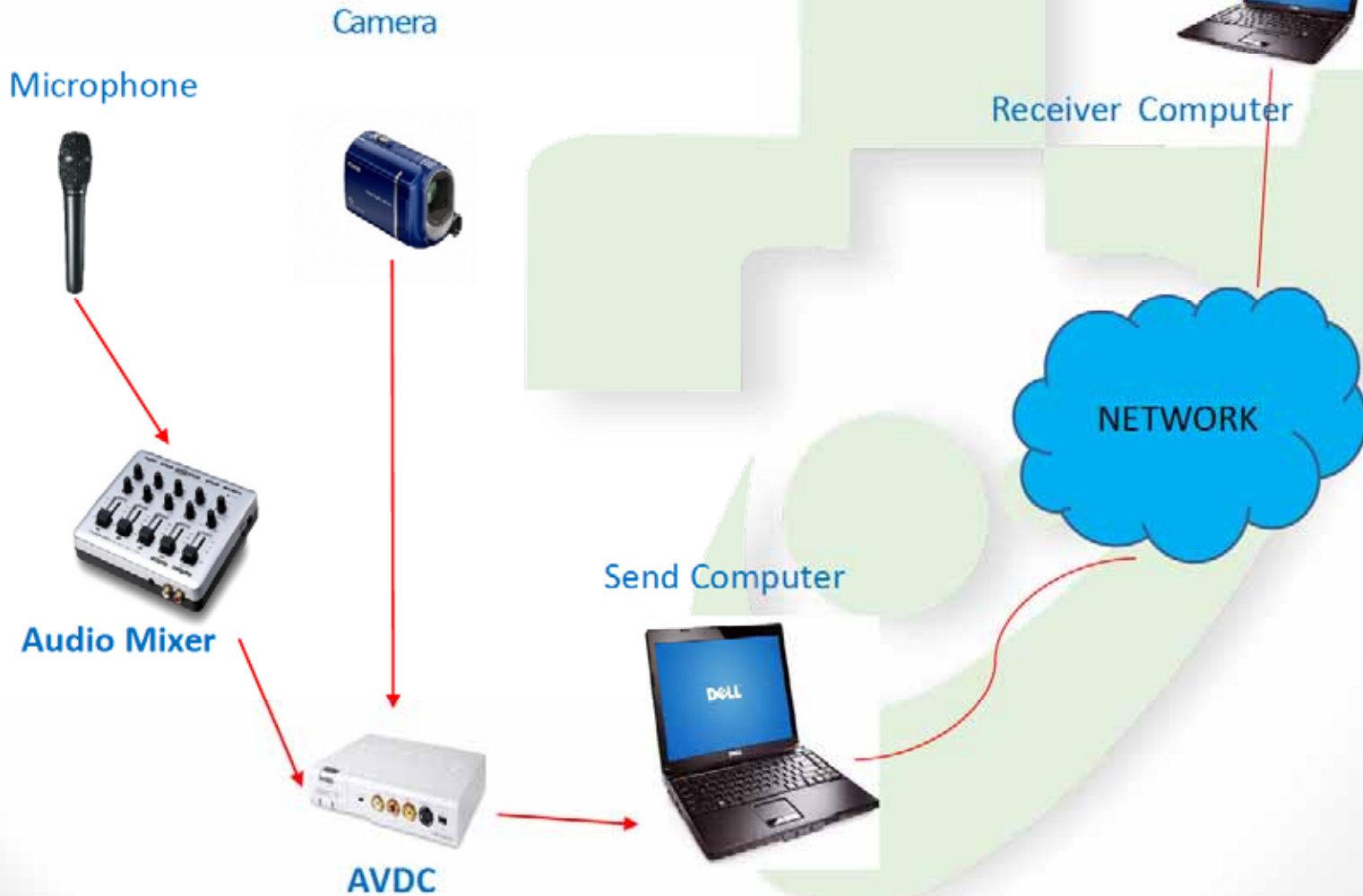


## Connect H.323 system and Vidyo system





# DTVS Setup



# Preparation :



- Create schedule to test the connection (*to be considered are the time difference between the participating countries*)
- Make sure good audio quality among participants
- Make sure good video/image quality among participant
- If there is a presentation file or movie, make sure it can be seen clearly among participants

# note : no echo audio, no lag video and no loss internet connection



## Sample image:






Sample image :



## Benefits of telemedicine :

- 
1. Enables more informed decision making and enhanced quality of care
  2. Save live through remote consultations, whether urgent or diagnostic
  3. Creates more efficient, convenient and potentially more cost effective delivery of care
  4. Facilitates earlier and more accurate diagnoses
  5. Improves administrative efficiency and coordination
  6. Support realtime treatment by first responders through the use of wireless device



# About APAN-40



The 40th Asia Pasific Advanced Network (APAN-40)

Duration : from august 10 to 14, 2015

Location : Malaya University, Kuala Lumpur, Malaysia

Theme : “Tech Rumble in the Jungle”

It will broadly cover network and application technologies, as well as case studies of advanced networking in Application area (agriculture, Medicine, public health, earth monitoring, disaster mitigation, e-culture and heritage, identity and access management, ICT-enhanced learning, cloud, etc) and network technologies area.

Implementation of this training event coincided with the 40<sup>th</sup> APAN,  
So we learned more about preparations teleconference





**APAN-40 Venue**



**APAN 40th MWG Venue**





# Sightseeing



We are visiting :  
Ohori park, explore Dazaifu, some of  
temple, and our favourite shop at  
Daizo, next week we plan to visiting  
Kagoshima





# People :

Japanese people are friendly, responsible, submissive.  
That impressed me is the ***culture of queuing*** at all place and very organized





# Transportation

Transportation :

Transportation in Japan is very good, on time, organized and many options there are subway, JR, Bus, Taxi etc.

And the amazing transportation is super fast trains **Shinkazen**  
I'll try next time to Kagoshima visiting



Photo © Kita City Transportation Bureau







# Food :



Japanese food is delicious taste famous, such as sushi, ramen, sabu etc. And most people are drinking beer

But I could not eat any meat, only chicken and fish and eggs and not drink alcohol so just coca cola and mineral water....



Welcome Party :  
Together with all staff Temdec





## What next plan :

- Improve cooperation between RSAB Harapan Kita and Temdec in the health sector include : education, research, training and health information exchange
- More frequent teleconference to solve the case on health



Thank you  
Arigatou gozaimasu

