

Telemedicine in INDONESIA: HISTORY AND EMERGING ROLE

Aria Kekalih

Faculty of Medicine Universitas Indonesia

Steering Committee of APAN Medical Working Group



OUTLINE

- History
- Opportunity and Emerging Role



TELEMEDICINE SCOPE

- Tele-consultation
- Tele education
 - Live streaming
 - Webinar and e-learning
- Teleconference two-sites and multi-sites



TELECONFERENCE AT 2008

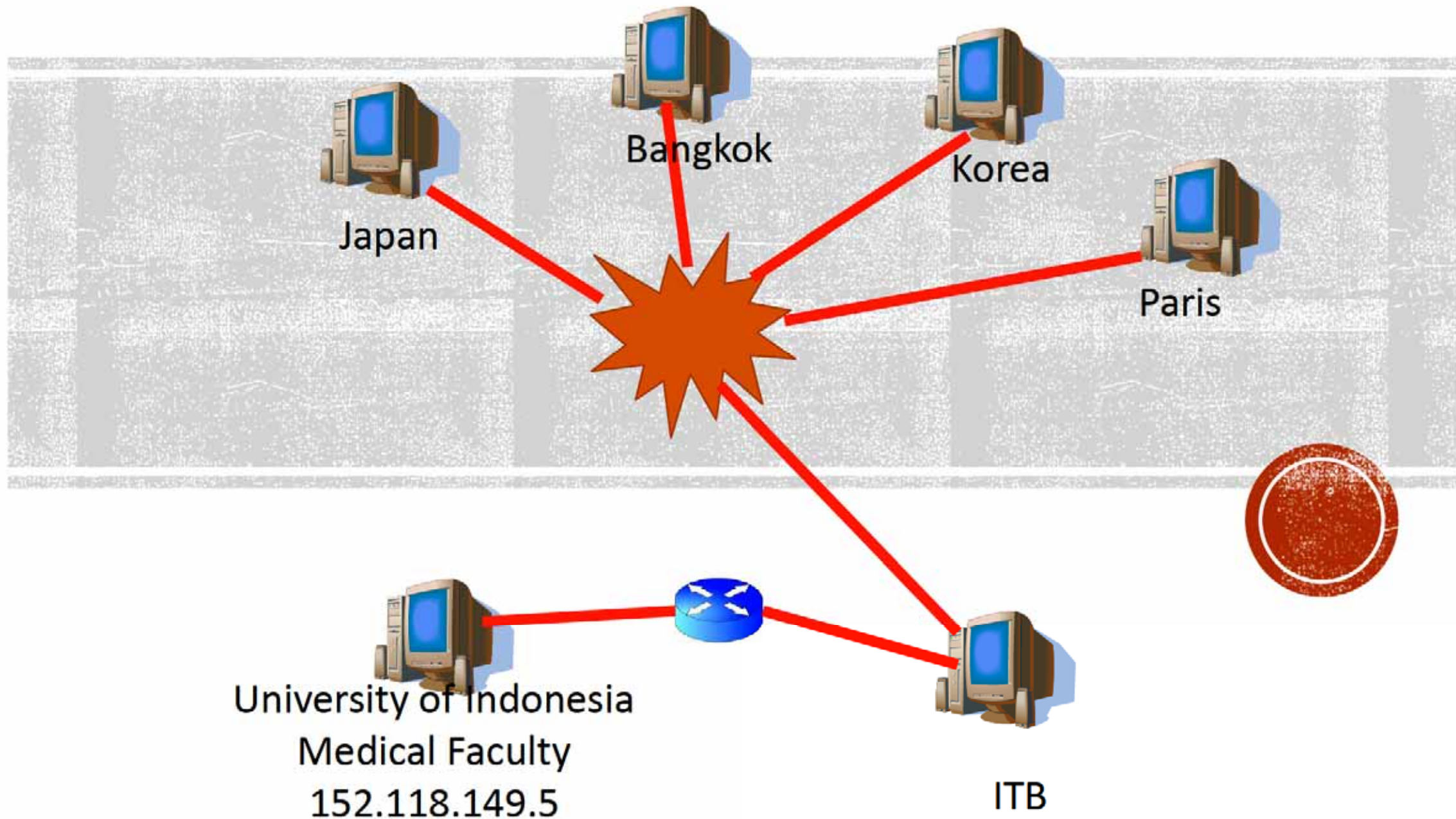
APAN Medical: Avian Flu Teleconference



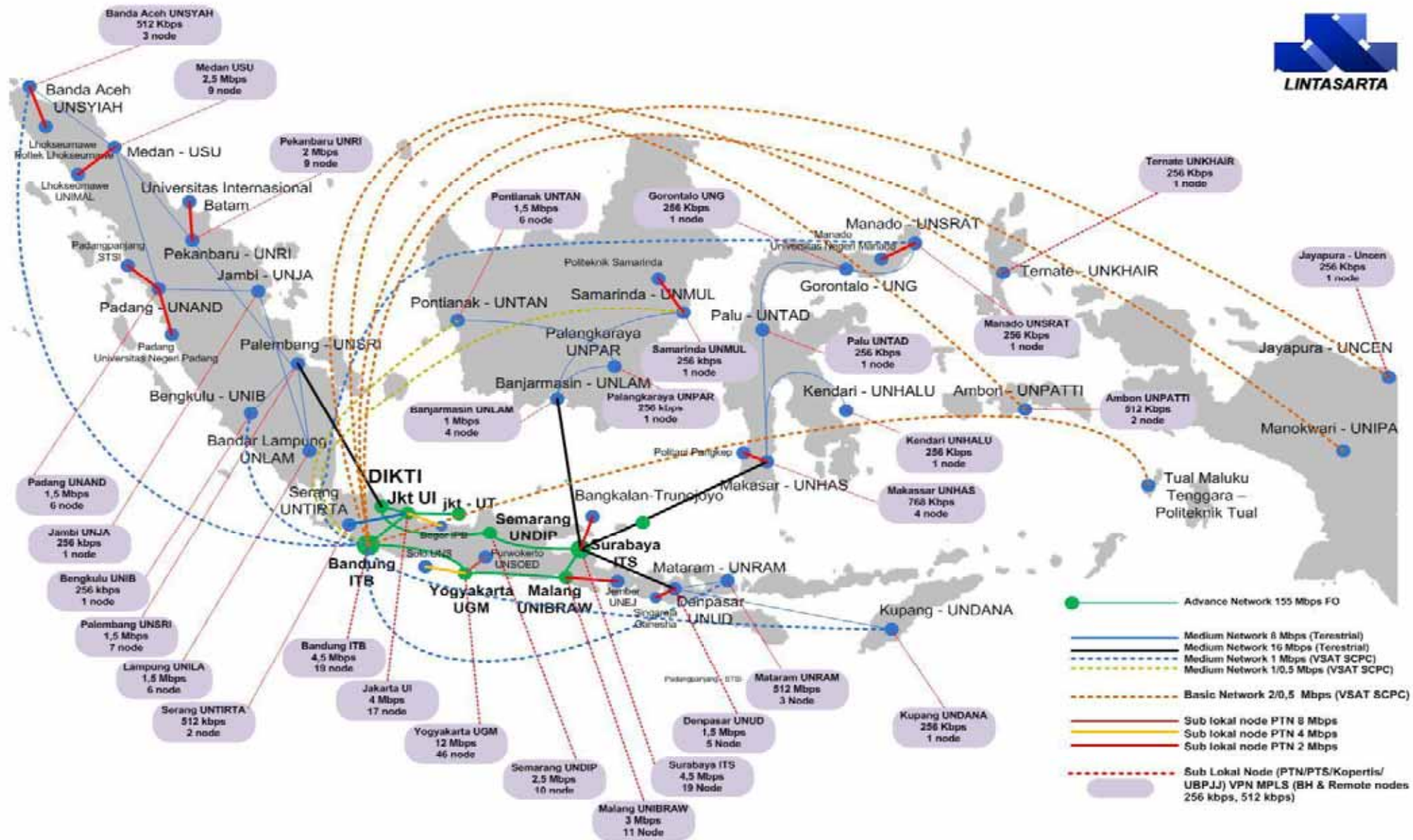
Distance Learning GDLN



Jaringan : CanalAVIST Tele Lecture, September 2008



NATIONAL NETWORK: INHERENT 2009



TELECONFERENCE



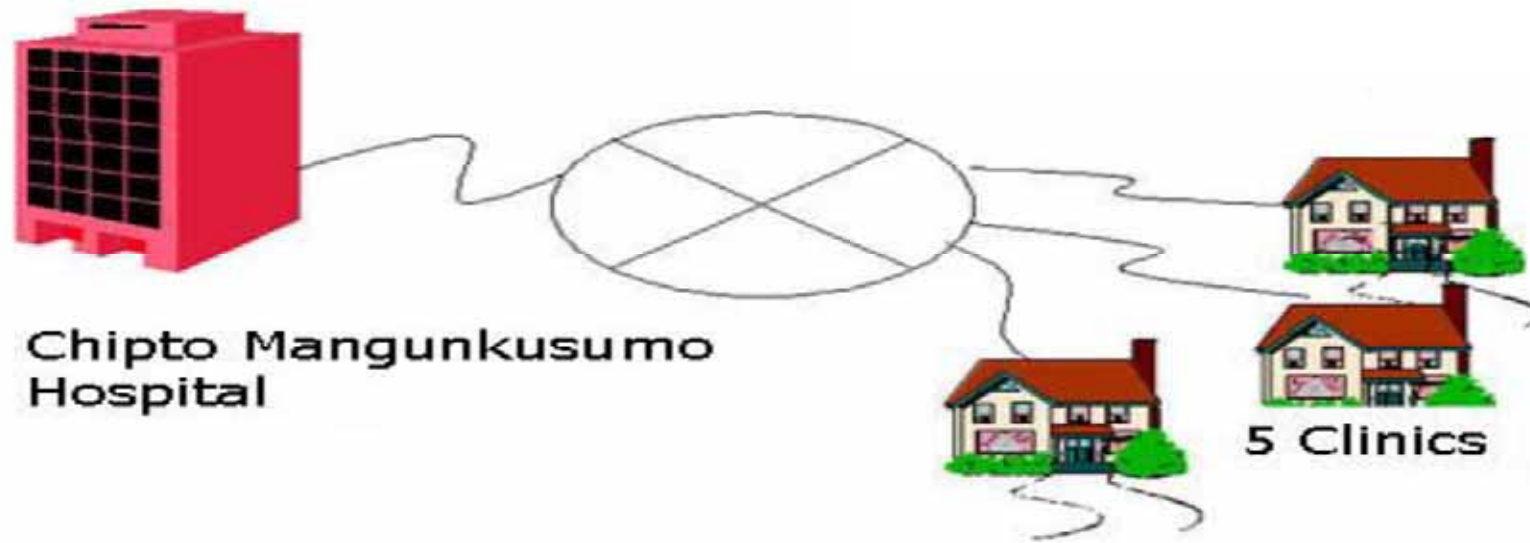
VIDEOPHONE TELE-MEDICINE PROJECT IN INDONESIA



- In May 1999, JICA experts provided videophones and TV sets, and "MEDIFA" started the trial.
- From the middle of June to the middle of October 1999, phase 2 was implemented, this time with a charge being made for consulting specialists.
- In March 2000, MEDIFA expanded the Telemedika network to 80 clinics, using small-scale grant aid from the Japanese Embassy in Indonesia.

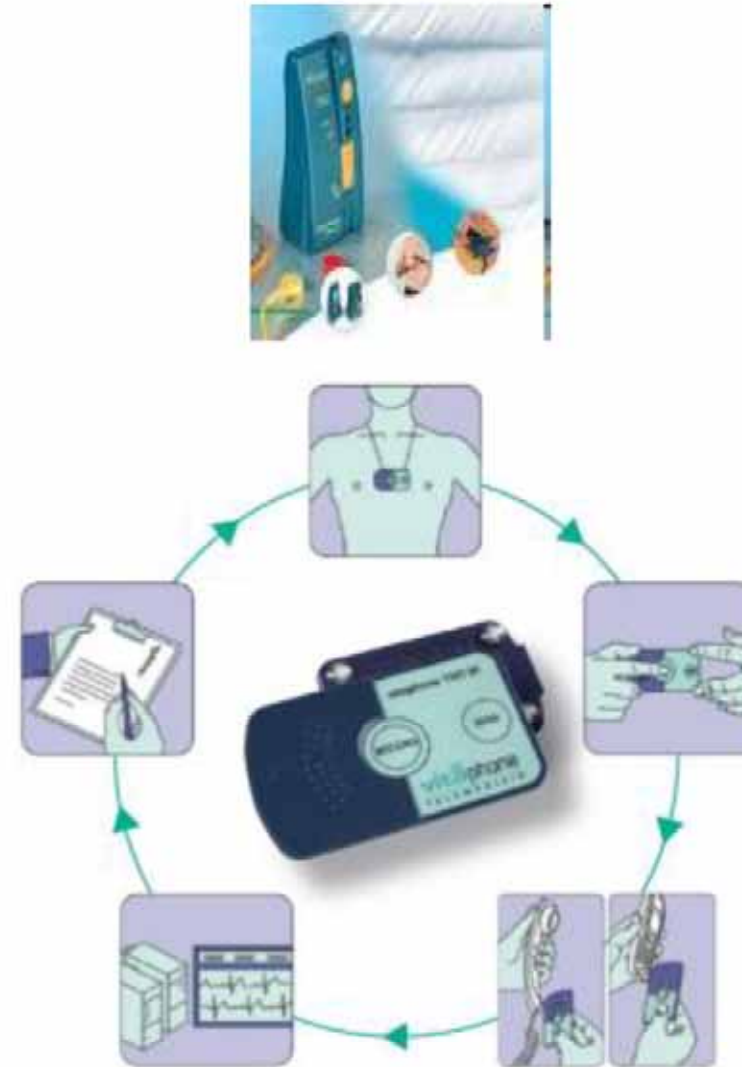


VIDEOPHONE TELE-MEDICINE PROJECT IN INDONESIA



TELE-EKG

- Service from RS Jantung Harapan Kita to PHC and Family Medicine Clinic



NATIONAL TELEMEDICINE PROJECT

- Since 2012
- RSUPN dr. Cipto Mangunkusumo Jakarta is in charge for teleradiology
 - Managing network to 10 health facilities
- Harapan Kita National Cardiology Hospital Jakarta is in charge for telecardiology
 - Managing network to 19 health facilities
 - Include Ambulance 118



TELEMEDICINE CONFERENCE

Telemedicine Experience



Telemedicine Experience



- Asia Pacific Digestive Week
- Endoscopy Live Surgery Demo in APAN Meeting Malaysia



OPPORTUNITY

- **APAN Medical Working Group and TEMDEC**
- **Indonesia Research and Education Network**



ASIA PACIFIC ADVANCE NETWORK

- Network Collaboration for Research and Education Network
- Medical Working Group established since 2003



*Transmitting the Latest Medical Care Information
From Fukuoka to Asia and the World*



▶ HOME

▶ About TEMDEC

▶ Our Achievements

▶ For Conference
Organizers

▶ For Network
Administrators

▶ For Those Installing
AV Equipment

▶ Collaborative
Facilities

TEMDEC News

2016.8

The First Indonesia Telemedicine Workshop will be held.
Program

Connected institutions

57 Nations, 452 institutions

at 2016.7.25

INTERNATIONAL RECOGNITION

- INVOLVING 57
NATION AND 452
INSTITUTIONS



POTENTIAL TOPIC (SPECIAL INTEREST GROUP)

CLINICAL

- Endoscopy
- Surgery
 - Minimally Invasive Surgery
- Fetus
- Hepatology
 - ILBS Liver Session
- Respiratory Surgery
- Dental

NON CLINICAL

- Rural Health care
- Technology
- Healthcare



APAN Meetings

Future Meetings

42nd APAN Meeting	1 - 5 August 2016, Hong Kong
43rd APAN Meeting	February 12-17 2017, New Delhi, India

Past Meetings

2016	Jan 25-29, Manila, Philippines	
2015	Mar 2-6, Fukuoka, Japan	Aug 10-14 Kuala Lumpur, Malaysia
2014	Jan 19-24, Bandung, Indonesia	Aug 11-15 2014 - Nantou, Taiwan
2013	Jan 13-16, Hawaii, USA	Aug 19-23 2013 - Daejeon, South Korea
2012	Feb 13-17, Chiang Mai, Thailand	Aug 24-29, Colombo, Sri Lanka
2011	Feb 21-25, joint with APRICOT, Hong Kong	Aug 22-26, New Delhi, India
2010	Feb 7-11, Sydney Australia	Aug 9-13, Hanoi, Vietnam
2009	March 2-6, Kaohsiung, Taiwan	July 20-23, Kuala Lumpur, Malaysia

REGULAR ANNUAL INTERNATIONAL CONFERENCE



TELECONFERENCE PREPARATION : VENUE



TELECONFERENCE PREPARATION

- Network
 - Faculty : Conference Room
 - Hospital : Operating Room
 - Venue
- Teleconference Platform
 - Device/Hardware
 - Software
- Video device
 - HD Camera
 - Surgery Device : Endoscopy
 - Radiology Device : Fluoroscopy
 - Video Mixer
- Audio Device
 - Portable Mic
 - Audio Mixer
- Presentation Device
 - HD Projector





BEHIND THE SCENE HARDWORK OF THE ENGINEER



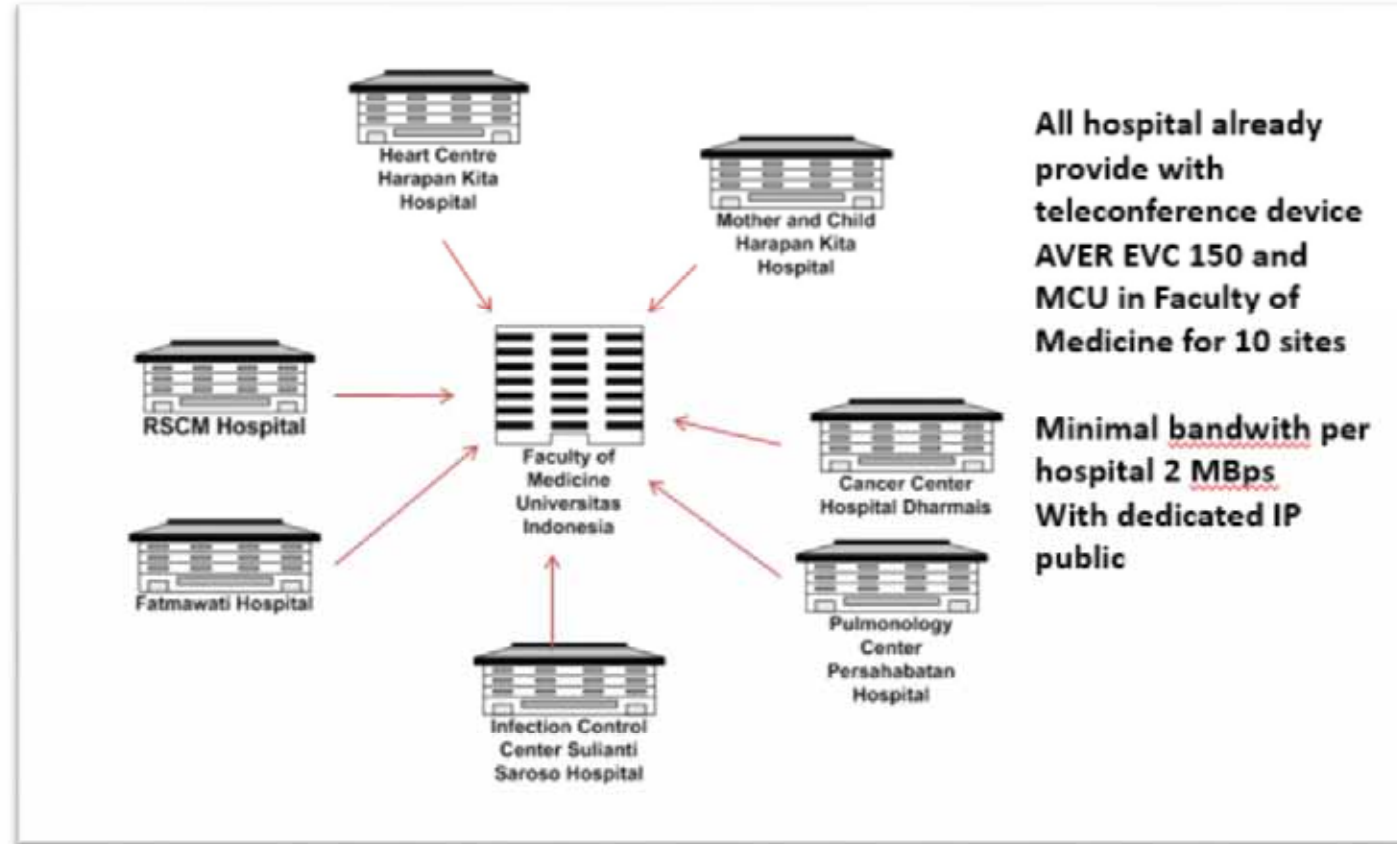
TELECONFERENCE PREPARATION: REMOTE SITE



- Internet Bandwidth and IP Public
- Teleconference Hardware/Software
- Audio and Video Management Skill
- English Language Proficiency



TELECONFERENCE PREPARATION: TRAINING OF HOSPITAL IT





**MUST BE BRAVE TO SPEAK
IN ENGLISH 😊**



BENEFIT

- For Hospital, University and Medical Doctor
 - Intangible : International scope recognition
 - Tangible : International conference certification
- For IT Engineer
 - Intangible : Reputation and Skill in organizing teleconference
 - Tangible : International conference certification, chance to have specific course for telemedicine engineer in APAN meeting



WELCOME TO INTERNATIONAL COMMUNITY TELEMEDICINE CHAMPION

