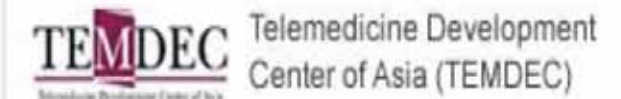


# HOSPITAL INTRODUCTION: CLINICS & TECHNOLOGY

(UNIVERSITAS BRAWIJAYA / SAIFUL ANWAR GENERAL HOSPITAL)



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# Outline

- Hospital profiles and its existing telemedicine set-up, activities and plans
  - introduction of clinics/surgery/endoscopy profiles, medical needs for telemedicine - **presented by doctor** (5 mins)
  - Hospital Telemedicine resource: staff, internet, equipment set-up, experience, current problems - **presented by engineer** (5 mins)

# Introduction of clinics/surgery/endoscopy profiles

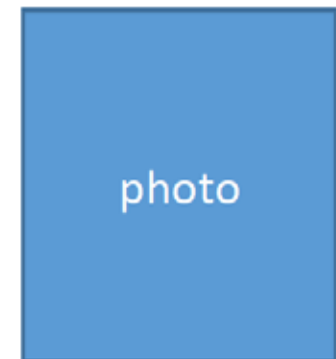
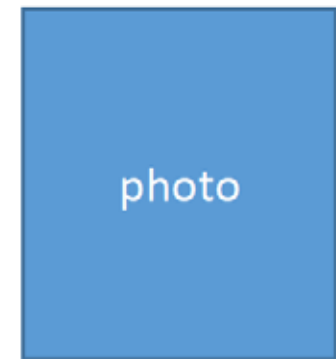
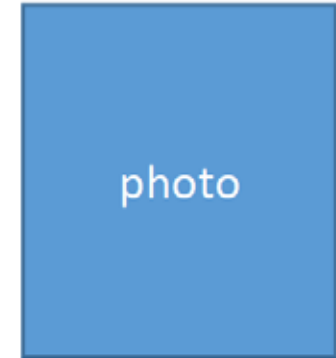
- Place
- Human Resource (clinician)
- Main or flagship services
- Bed Occupancy

# medical needs for telemedicine

- Existing telemedicine set-up and activities
- Future plans
- Expecting fields other than endoscopy/surgery, such as infection, dermatology, etc.

# Hospital Telemedicine resource –Key person

- Doctor (Name, title, affiliation, photo)
- Engineer (Name, title, affiliation, photo)
- Coordinator (Name, title, affiliation, photo)



# Hospital Telemedicine resource

## Internet In FMUB

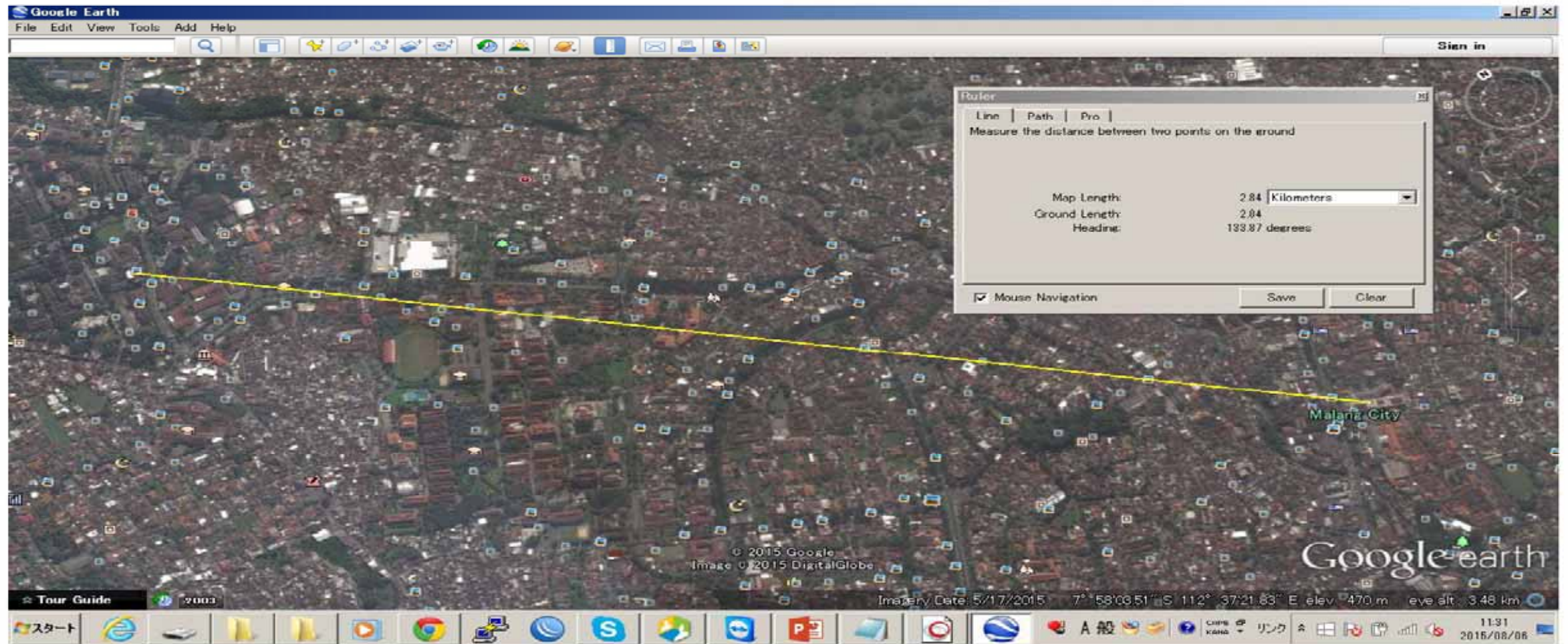
- Already connected with Brawijaya University Network
  - Connect with fiber Optic MultiMode 1Gbps
  - Connect with Backup Data Center optic Single Mode 1 Gbps
  - Connect with Indosat Service Provider 30 Mbps
- Brawijaya University Already Connected to ID-REN
- Totally we have 123 AP in all Area. In Faculty we have 60 AP distribute around the faculty
- Dailly internet usage consume about 200Mbps

# ID-REN

- Host by Institute of Technology Bandung
- Dedicated connected to TIEN-SG 622Mbps
- Already Connected with 5 Big University in Indonesia
- Average connection 100Mbps each University



# FMUB vs Saiful Anwar General Hospital (Geographic Location)





# Saiful Anwar General Hospital Network

- Saiful Anwar General Hospital connected via Wireless Link 60Mbps using PowerBeam 5AC 500 vs Power Beam 5AC 500 3km Distance with Faculty Of Medicine Universitas Brawijaya
- We have 57AP distribute in Saiful Anwar Hospital
- Internet in Saiful Anwar General Hospital distribute wirelessly up to 70 Mbps
- For Video Conferencing connection, now he have link separately with internet connection in Saiful Anwar General Hospital
- There is Metro Link is connected directly to Universitas Brawijaya of 8Mbps Dedicated Link

## Teleconference Room

for now we do not have a special room for the teleconference, but in the future we will have a special room for the teleconference

# FMUB Video Conference System

- 3 Polycom QDX-6000 system
- 1 Polycom HDX-7000 with 1080i resolution license and also with Mini MCU License ( 4 Site )
- 1 Huawei ViewPoint 9030
- Dell core i5 Laptop + Logitech BCC950 (For VidyoDesktop)
- Audio Mixer Behringer

# Hospital Telemedicine resource

- Current Problems

For equipment, we must carry on from Faculty Of Medicine Universitas Brawijaya to Saiful Anwar General Hospital

- Expectation

Construction of new buildings in Saiful Anwar General Hospital to be resolved and we will have a special room for video conferencing without carrying another equipment from Faculty Of Medicine Universitas Brawijaya