

**ITU-MIC Forum  
on Wireless Broadband Networks**

# **Fujitsu's Practice in the APAC Region ~ Through APT Program in Lao P.D.R. ~**

**24 March 2010  
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- 1. Changes in the environment around international co-operation project**
- 2. Project Development**  
~ Utilization of telecom infrastructure based on customer's needs ~
- 3. APT-J2 Program**
- 4. APT-J3 Program**
- 5. Summary**

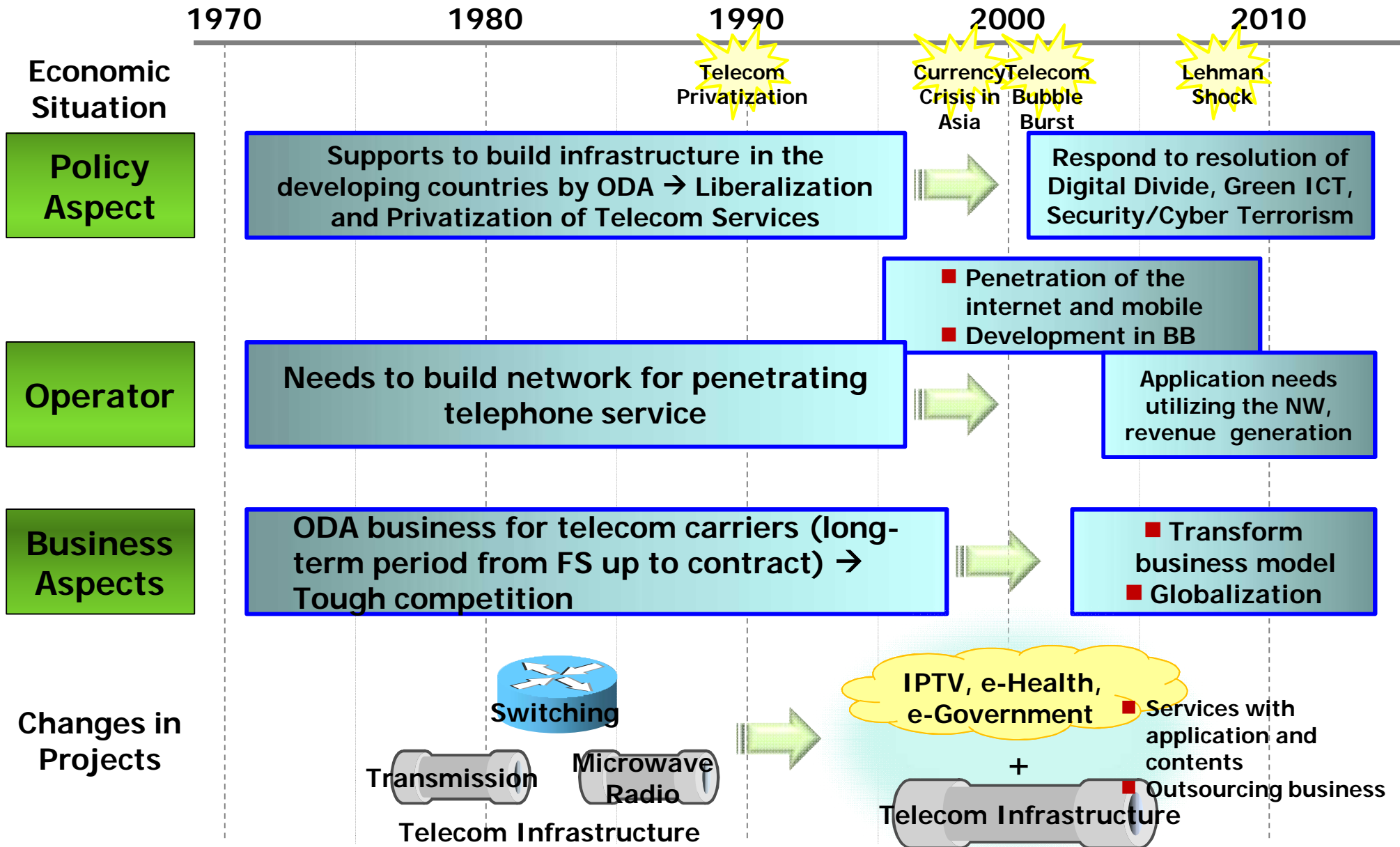


Joint Study in Japan in June 2009  
(Visit to Tokai University Hospital)

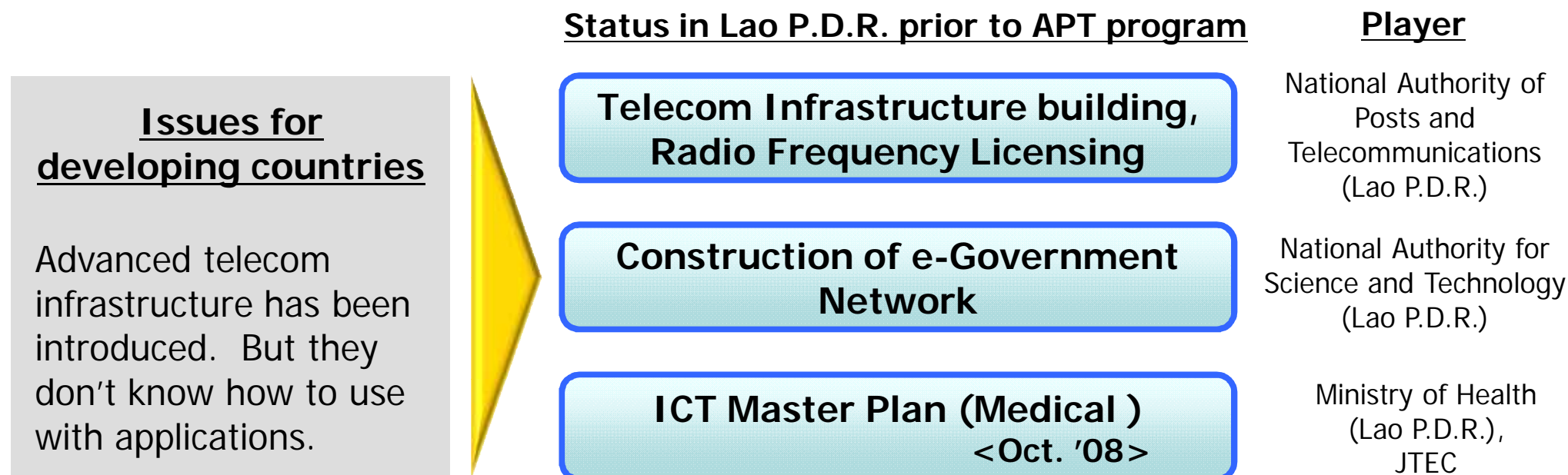


Joint Study in Lao P.D.R. in August 2009  
(Training at Luangprabang Hospital)

# 1. Changes in the environment around international co-operation project



## 2. Project Development ~ Utilization of telecom infrastructure based on customer's needs ~



### Our Project Development Flow



- **APT-J2: Joint Study to investigate needs/contents**  
"Methodology of how to develop, maintain, and utilize the comprehensible e-health contents" <Dec. '08 ~ Nov. '09>
- **APT-J3: Pilot Project using contents**  
<Mar. '10 ~ Feb. '11 (planned)>



**Further Project Development (ODA, commercial project, etc.)**

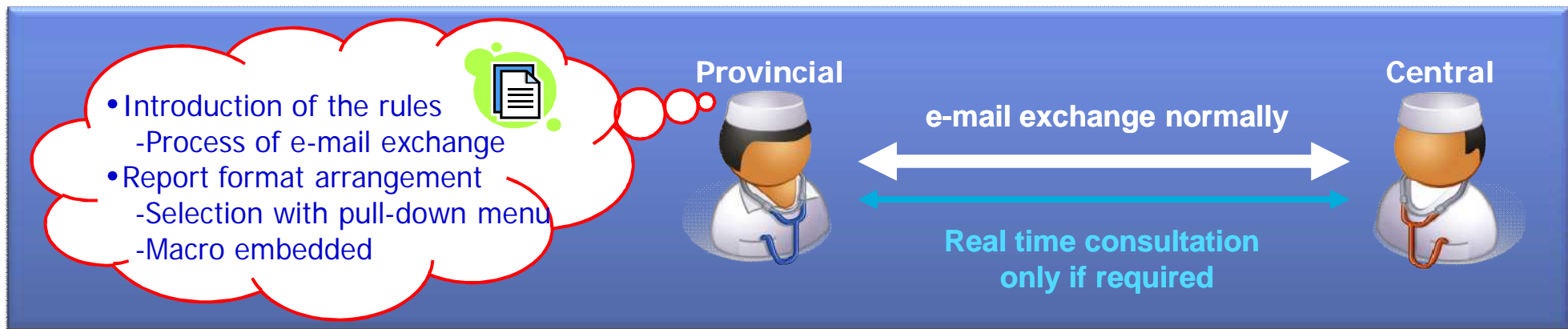
### 3. APT-J2 Program (1/2)

#### ■ Issues in Medical and Health field in Lao P.D.R.

Heavy load for Central doctors due to many phone calls from Provincial doctors

#### ■ Proposed solution and feedback (1)

- Introduction of the rules to reduce the phone calls from Provincial doctors to Central doctors



- Feedback from doctors (25 doctors from Provincial and Central hospital in total)

**“Can reduce the load of Central doctors” : 93%**  
**“Easy to understand the rules” : 88%**  
**“Filling-in the report is not difficult” : 76%**

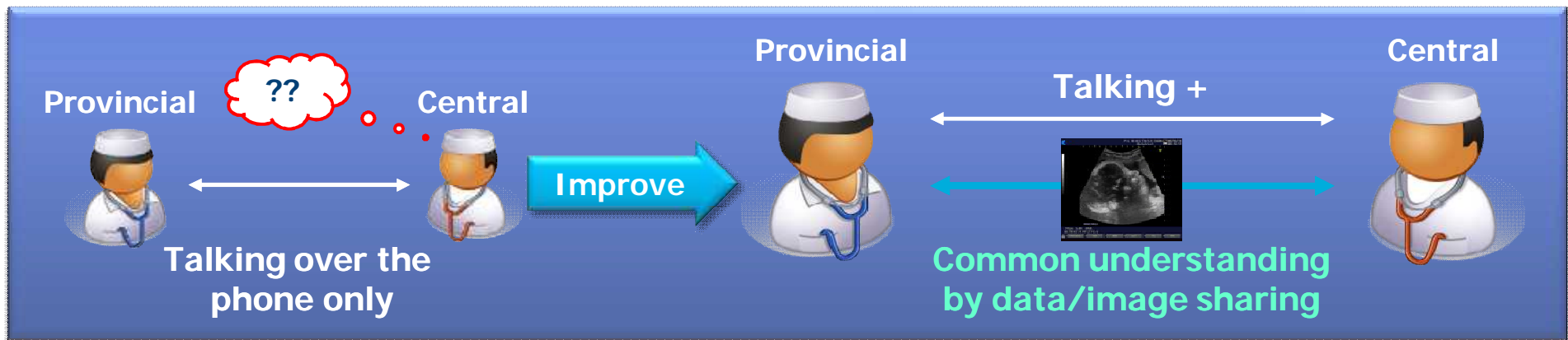
#### Major comments

- Medical Knowledge can be shared with other doctors
- Report form is clear. It is easy to just follow it.

### 3. APT-J2 Program (2/2)

#### ■ Proposed solution and feedback (2)

- Misunderstanding caused by communication with phone due to the insufficient information  
→ Realize the more smooth communication through ICT (web video conference system)



- Feedback from doctors (25 doctors from Provincial and Central hospital in total)

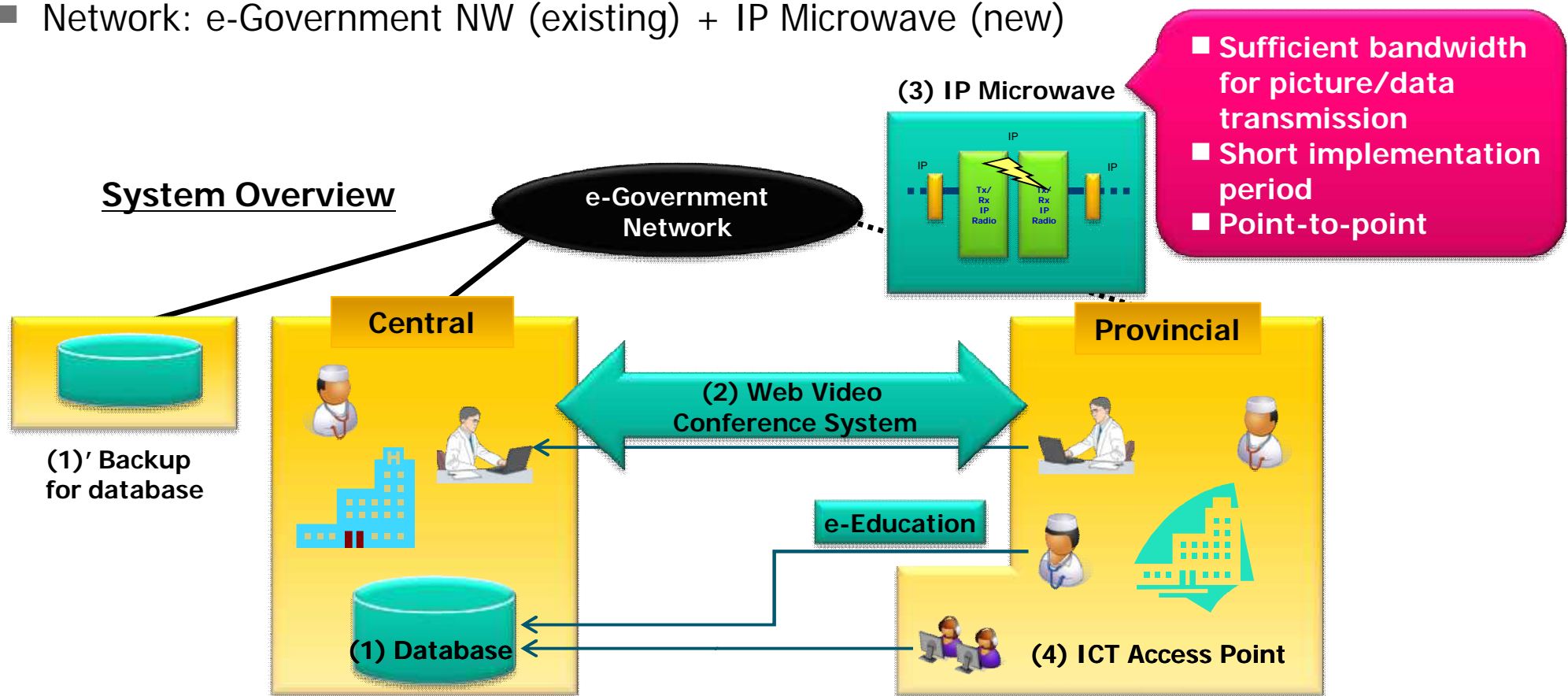
**"Satisfied with communication by ICT utilization" : 92%**  
**"Convenient" : 100%**  
**"Easy to use" : 88%**

#### Major comments

- Easy and quick to solve the problem
- Can reduce the patient transferring without reason and save money
- Training how to use in details is necessary

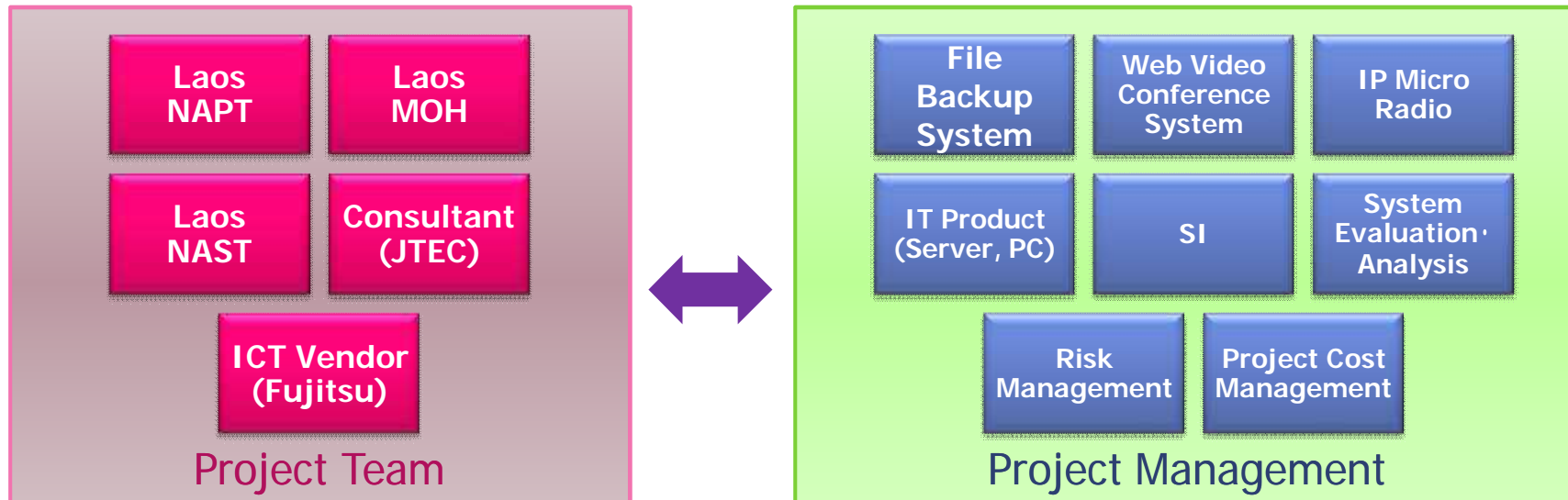
# 4. APT-J3 Program (1/2)


- Pilot project to improve Medical and Health environment with ICT in Lao P.D.R.
  - Reflect the needs of information exchange between doctors studied in APT-J2
  - Implement the trials with Web Video Conference System and Database via network
  - Database for information exchanged between doctors, medical/educational contents
  - Network: e-Government NW (existing) + IP Microwave (new)



## 4. APT-J3 Program (2/2)

### ■ Project members and required skills



 In Lao P.D.R., both organizations who build and use the network are co-operating with each other.

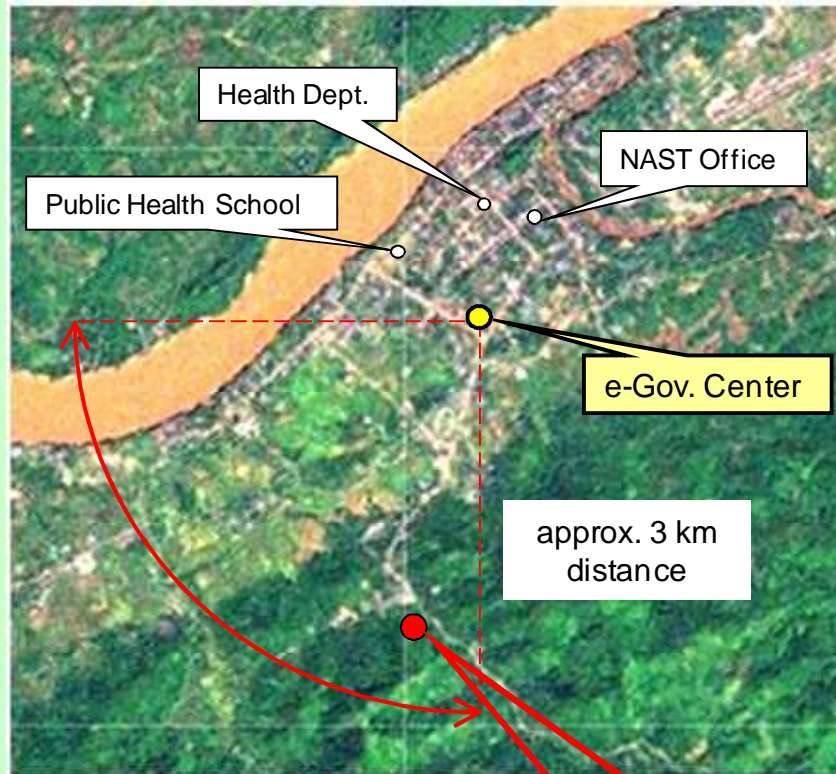
### ■ Issues

- Business formation with overseas affiliates and partners, to supply IT systems such as file servers, microwave radio systems, installation and testing services
- It is necessary to have an expert responsible for total project and to foster such experts.
- Quality, available capacity and interoperability of existing network, e-Government Network
- Sufficient bandwidth for transmitting the picture data and movie data
- Project period is short and it's unknown to make the sufficient outcome for the next step.

# [Reference] Location of APT-J2 Joint Study

(Source: APT-J2 related document)

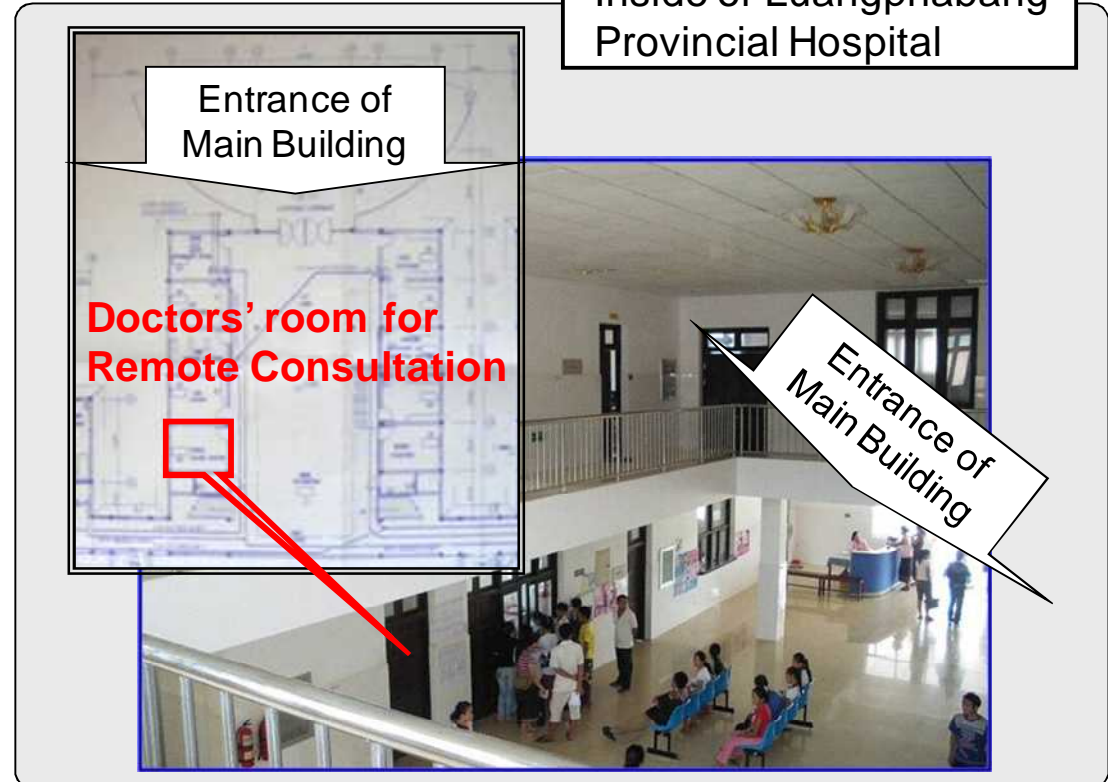
Location Overview of Luangphabang



Luangphabang Provincial Hospital



Inside of Luangphabang Provincial Hospital



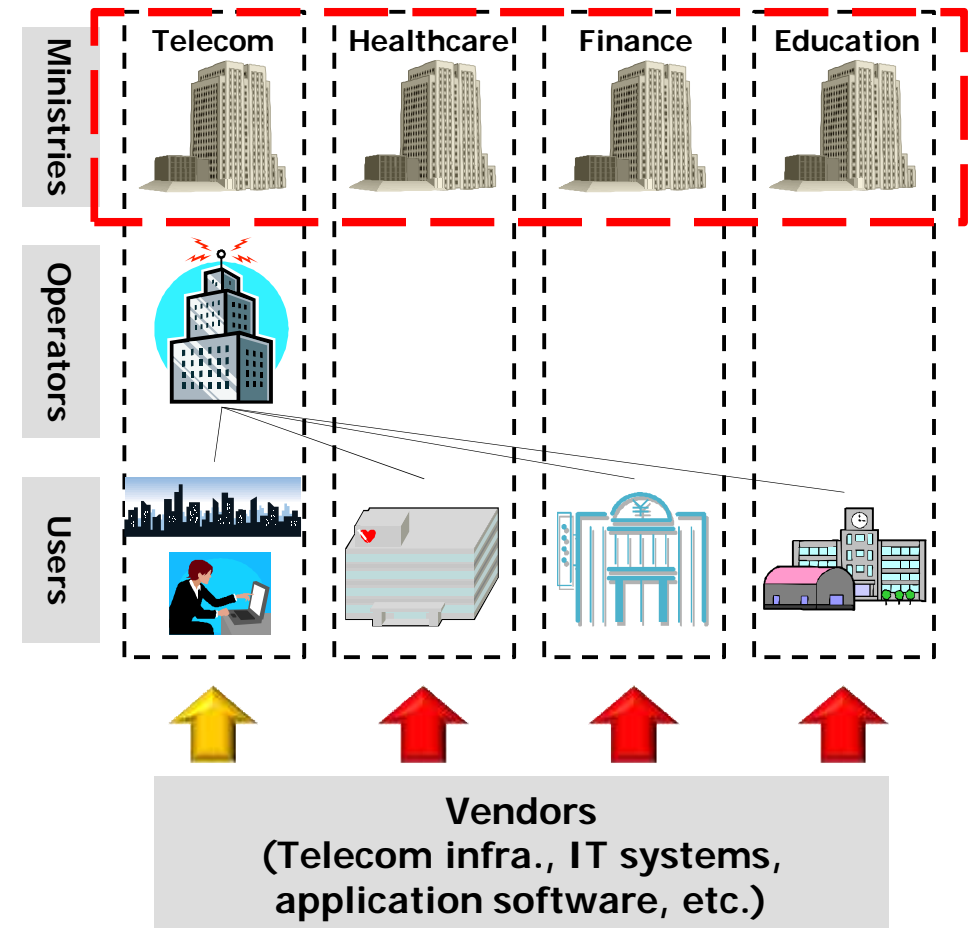
Technical confirmation with NAST


## e-Gov. Provincial Center

- Building construction will be completed in October
- Distance from Provincial Hospital=approx. 3km
- With 35m antenna, without obstacles for transmission

# 5. Summary (Suggestions)

- It is important to propose the projects based on the customer requirement. Sometimes, it is difficult to structure the project which includes applications for users, such as hospitals, banks, etc. together with telecom infrastructure due to the different industrial segmentation. Therefore, the cooperation among the ministries are important.
  - ICT infrastructure: under the ministry of ICT
  - Application systems: under the ministry of each industrial segment
- It is difficult to meet user requirements only by telecom products and services. It is necessary to build open and global business formation with the overseas affiliates and partners to provide IT systems and applications.
- Wireless network solution is effective for rural area of developing countries for its topographical condition and to shorten construction period.



  
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