

# Country Report

## Department of Meteorology and Hydrology (DMH)

### Lao PDR

Presentation by : **Eksavanh RASBOUTH**

**Phouthavanh VILAYSANE**

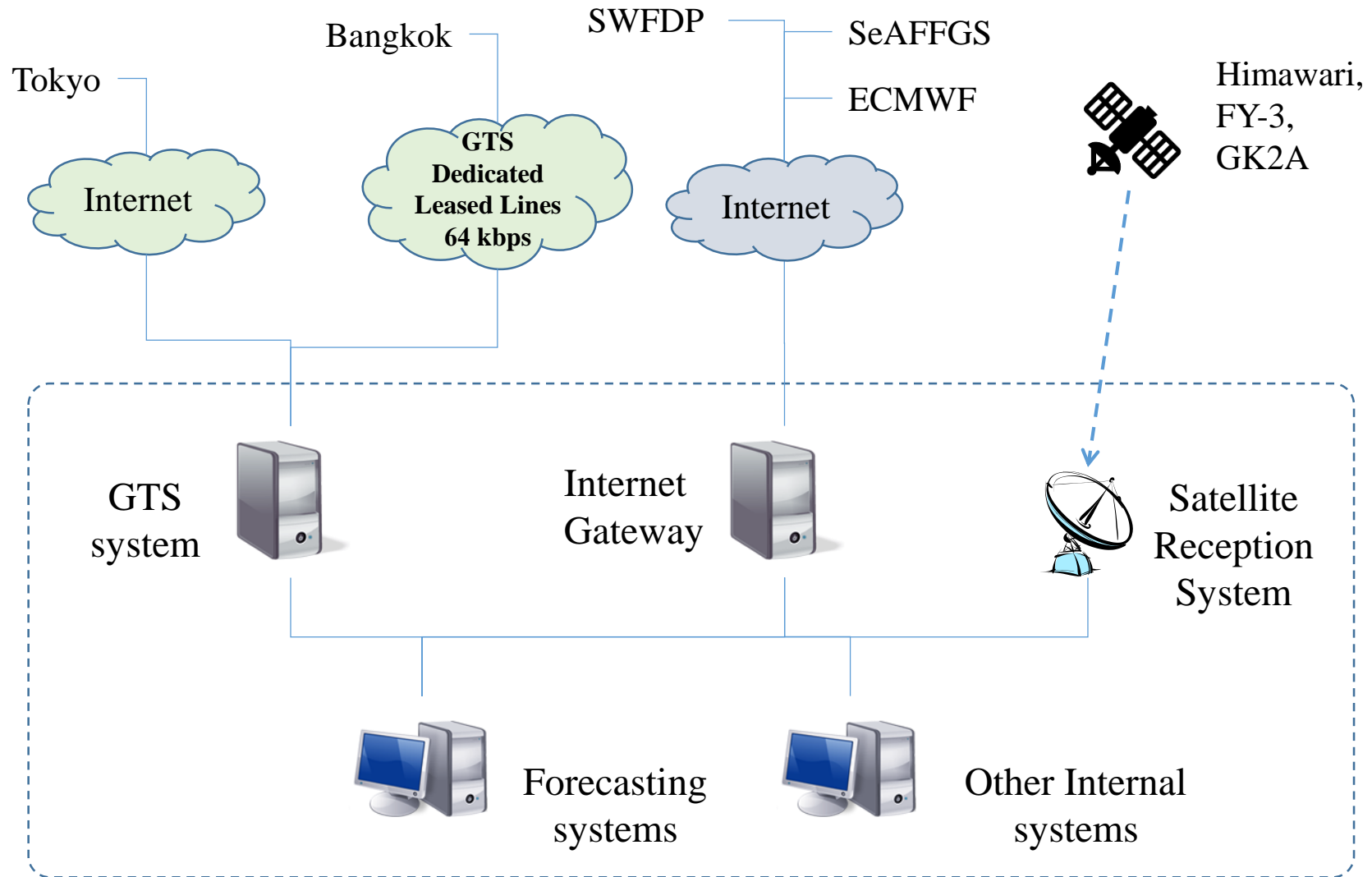
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# Table of Contents

1. Status of system/network configuration
2. Challenges of the current system/network
3. Efforts towards WIS2.0
4. Expectation to JMA and other countries
5. AOB (Any Other Business)

# 1. System/network configuration



# 1. Status of system/network configuration

- *Recent updates of MSS (Message Switching System)*
  - 2003: Start operation of the system (TRANSMET).*
  - 2017: Start operation of the current system (Moving Weather).*
  - 2025 (plan): Using Internet base.*

*Fund: Domestic, JICA support, WMO, World Bank.*

*Service level by system supplier : 24/7.*

*Application on the MSS : IBL, In-house application, etc.*

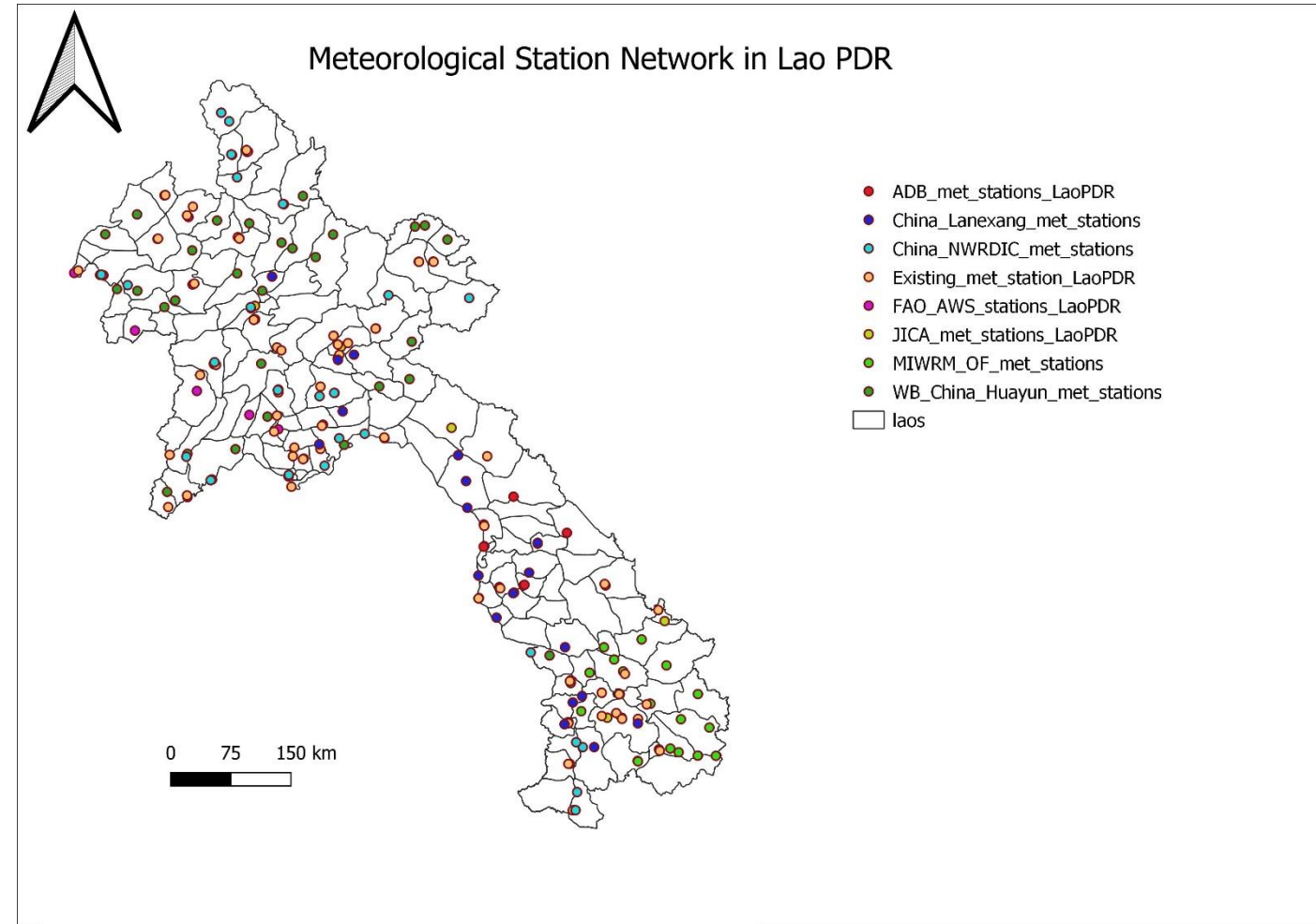
# 1. Status of system/network configuration

*Recent updates of network connection to other countries, etc.*

Country	Protocol	Data
Tokyo	WMO Socket	JMA Model (GRIB), SYNOP, SHIP, TEMP, METAR ...
Bangkok	WMO FTP	SYNOP, SHIP, TEMP, METAR, Forecast (NCEP), Warnings ...
ECMWF	HTTP	Global Model (GRIB)
RSMC-Tokyo	HTTP	Typhoon Forecast, NWP, Warnings, ....
RFSC-Hanoi	HTTP	Satellite, NWP, Warnings, ....
SeAFFGS	HTTP	NWP, FFG, Warnings, ....

## 2. Challenges of the current system/network

- **Maintenance problems:** *many projects to modernize hydro-met networks, each project has its own unique system which makes it difficult to implement.*
- **Lack of fund and human resource:** *Each project must be fully allocated budget to the management and maintenance of equipment within 2 years after the project is handed over.*
- **Lack of training about the system:** *Increase training for technical staff, such as short-term, medium-term and long-term to ensure the sustainable management of the system.*
- *There are not enough personnel.*



### 3. Efforts towards WIS2.0

- *Information collection of WIS2.0*
- *Prepare specialized personnel for WIS 2.0*
- *Participation to activities or events related to WIS2.0*
- *Communication and training will be a particular focus area for all WIS 2.0 implementation, etc.*

## 4. Expectation to JMA and other countries

- *Request to GISC Tokyo for better services*
- *Ask for help from GISC Tokyo and budget support.*
- *Request assistance in training for Department of Meteorology and Hydrology.*
- *Request of further cooperation with other countries, etc.*