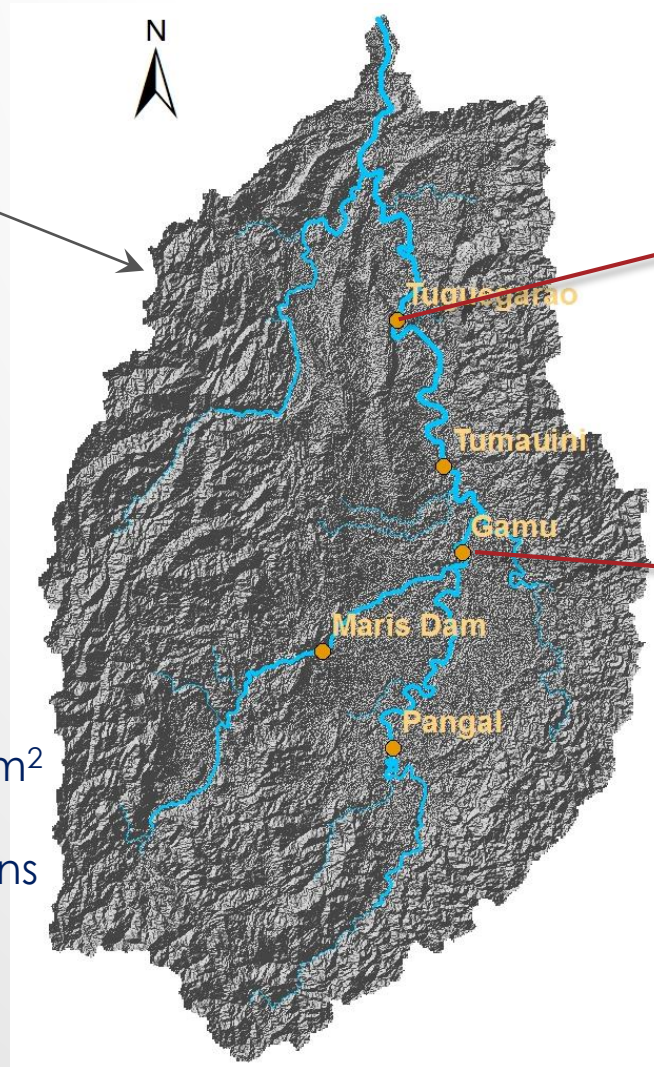PROPOSAL OF IMPLEMENTATION

7-1. FLOOD EARLY WARNING IN THE CAGAYAN RIVER BASIN

PAGASA

CAGAYAN RIVER BASIN

Tuguegarao station
(Rainfall and WL monitoring)

Gamu station
(Rainfall and WL monitoring)
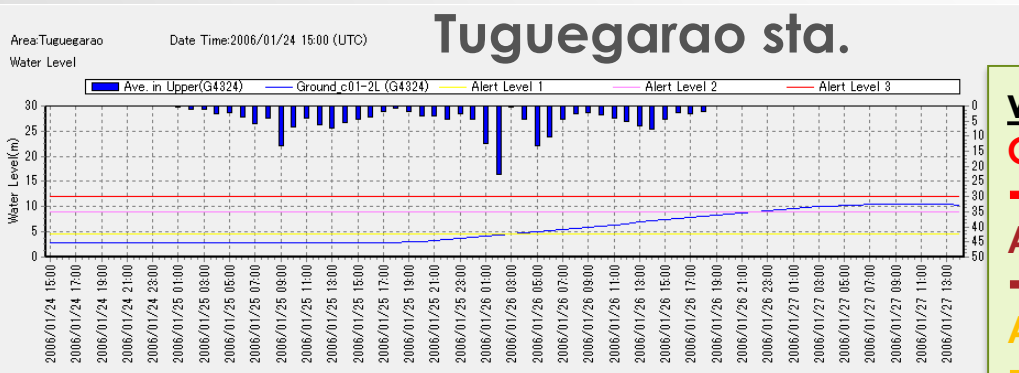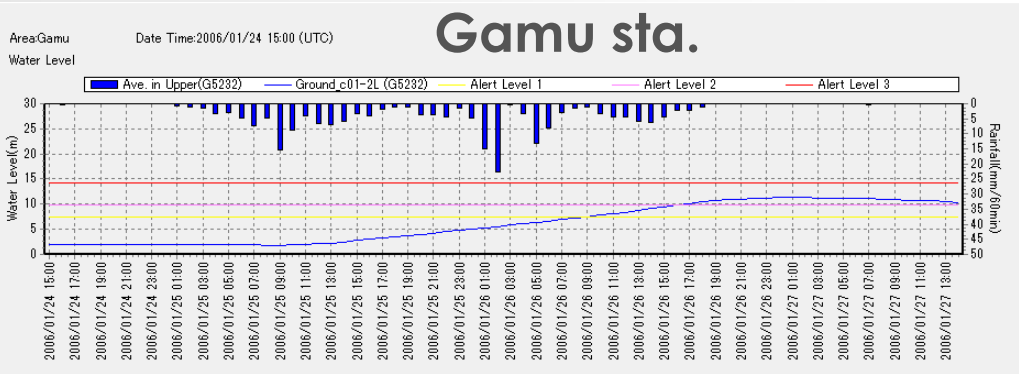
Cagayan River basin

- Catchment area: 27,280km^2
- River length: 500km
- Real-time gauges: 5 stations (Rainfall and WL)
- Area for one station: 5460km^2

EXISTING SYSTEM

- Project: ADB TA-8074 REG "Applying Remote Sensing in River Basin Management"
- Duration: April 2012 to March 2015
- Rainfall Input: Calibrated GSMaP
- Simulation Model: IFAS

Hydrograph

Gamu sta.

Tuguegarao sta.

Dynamic Map

(Animation on Google Earth)

discharge

warning level

Critical Level
➜Overflow

Alarm Level
➜Evacuation

Alert Level
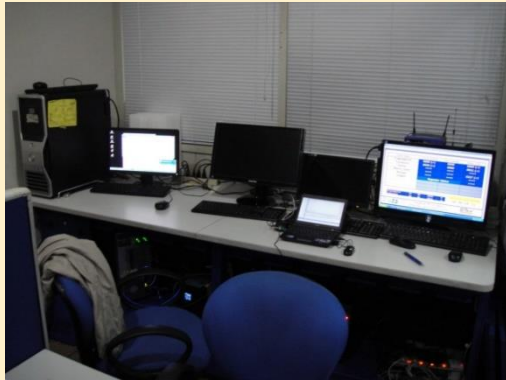➜Preparation

EXISTING SYSTEM

This system has been installed in PAGASA Headquarter, Philippines
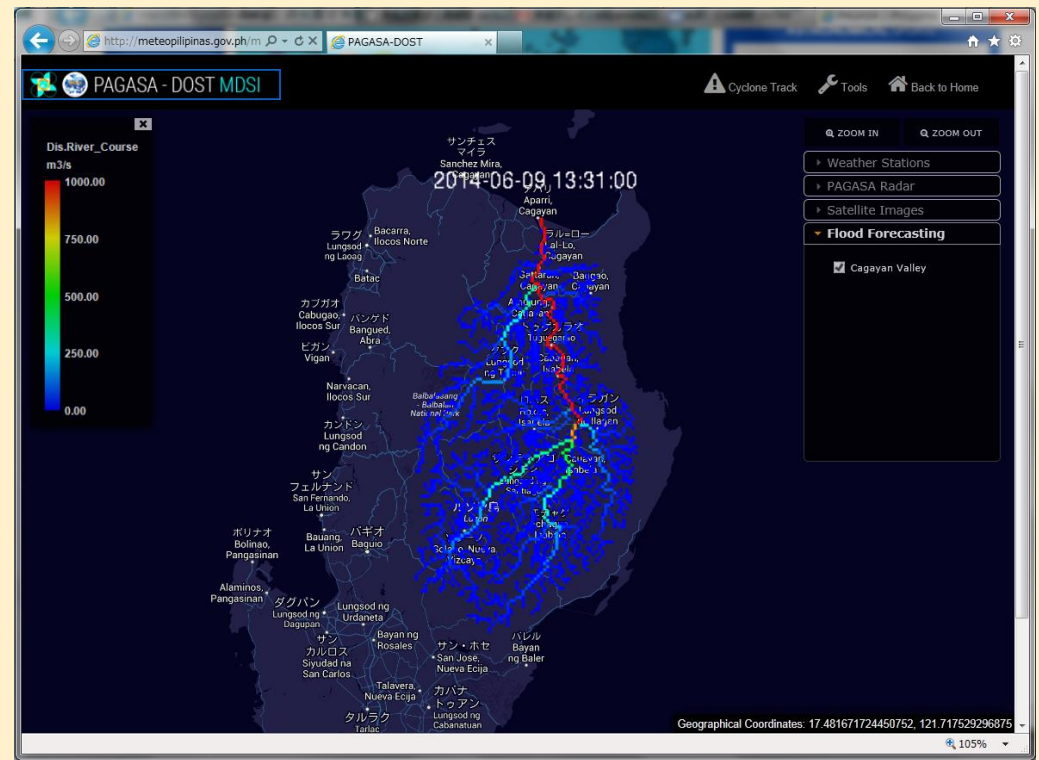
PAGASA's Website
http://meteopilipinas.gov.ph/map.php#
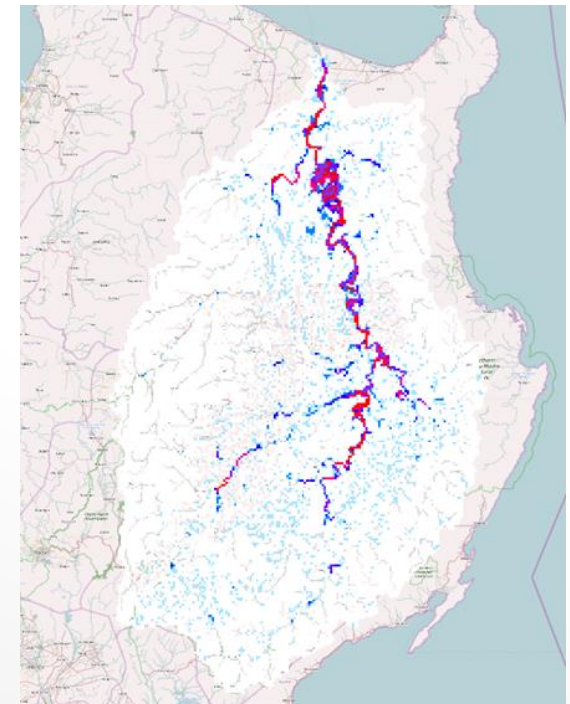

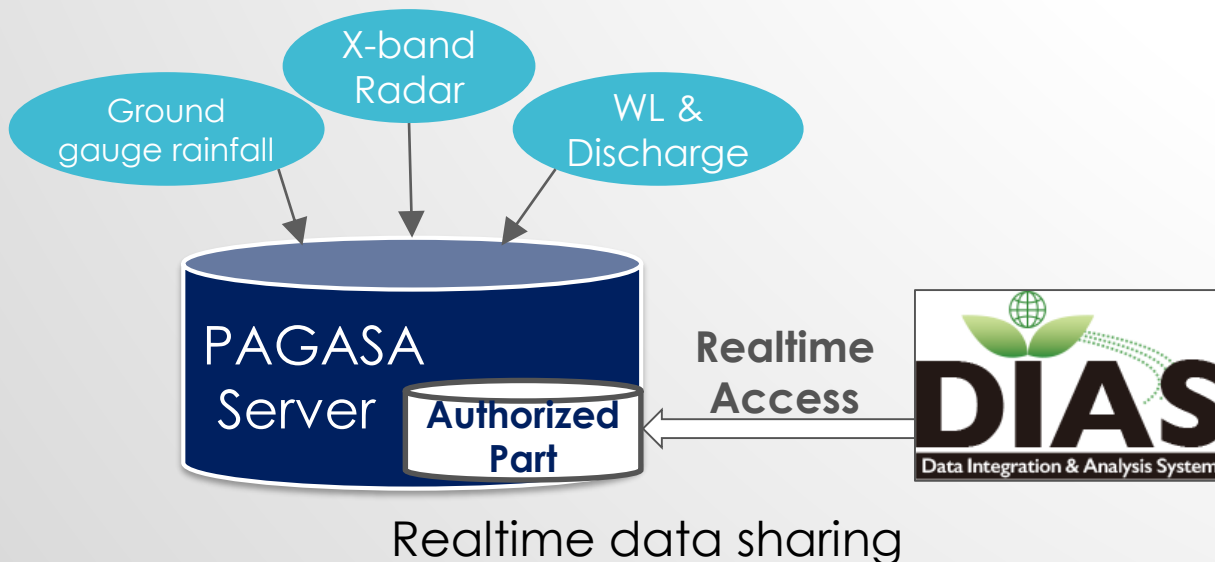Implemented system

Training

Unfortunately, the system does not work

PROPOSAL

Implementation of Realtime Flood Early Warning System for the Cagayan River basin as an activity of Platform

- Rainfall Input: **Ground gauge, X-band MP Radar**
- Simulation Model: **RRI model**
- Data System/Interface: **DIAS**

Realtime data sharing

Inundation forecast