

Automatic Weather Station and Early Warning System

How the system works

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USAID
FROM THE AMERICAN PEOPLE



**World Food
Programme**



What is an AWS and EWS?

AWS – Automatic Weather Station

An instrument that reads weather parameters such as rainfall, wind speed, wind direction, temperature, humidity, barometric pressure and solar radiation.



What is an AWS and EWS?

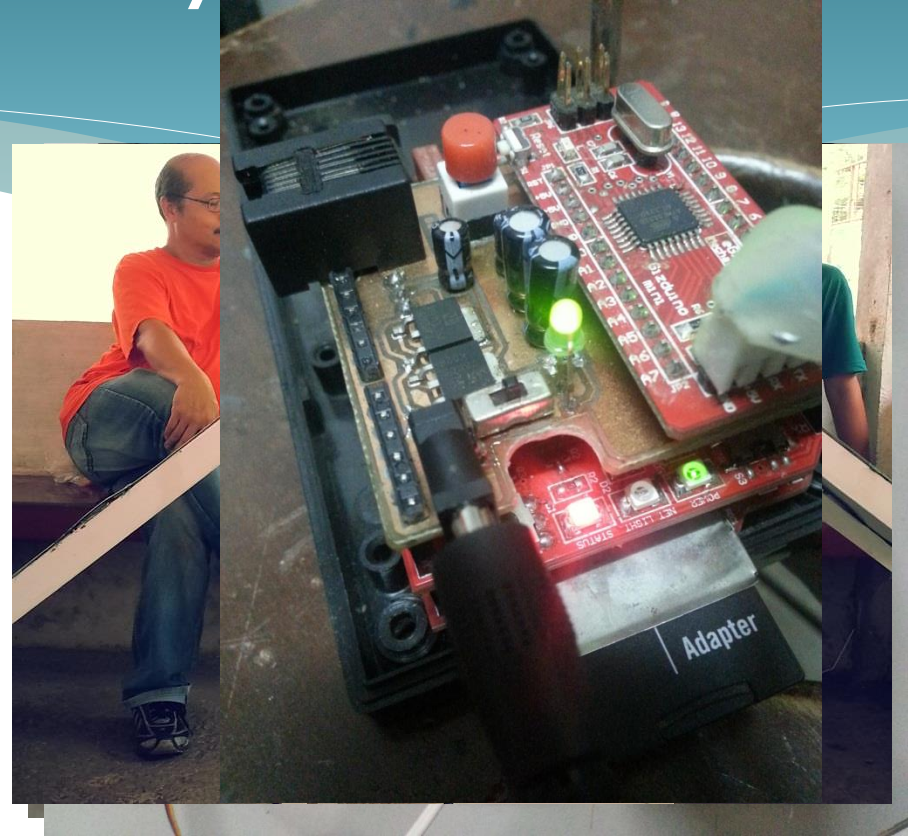
EWS – Early Warning System

A system that provides warning signals to the affected communities before disaster strikes so that the community can prepare and prevent/minimize damages to life and properties.



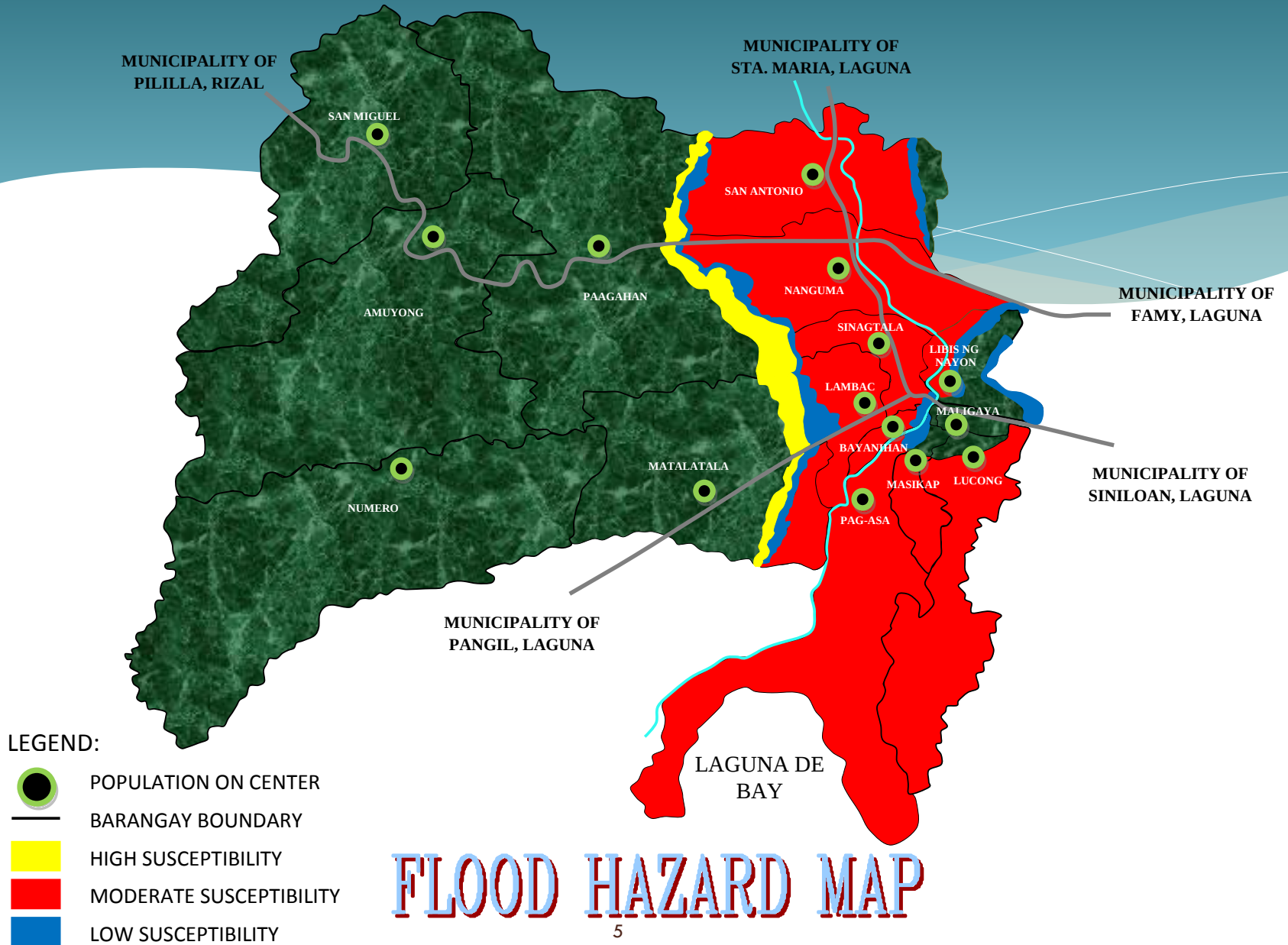
Parts of the System

- * Integrated Sensor Suite (ISS)
- * Console
- * CIS (Console Interface Shield)
- * GSM Module
- * EWS Board & Arduino
- * Digital Alarm
- * Manual Push Button
- * Siren and Lights
- * Central Data Station



The EWS has two receivers and warning signals. The first receiver would be this sensor and it is used to pick up the signals from the processes and through the Digital Input and then the signals are sent to the Alarm console which is present in the ship's main control room. If the receiver activates the Alarm, the lights/alarms are raised by the EWS on the main screen.

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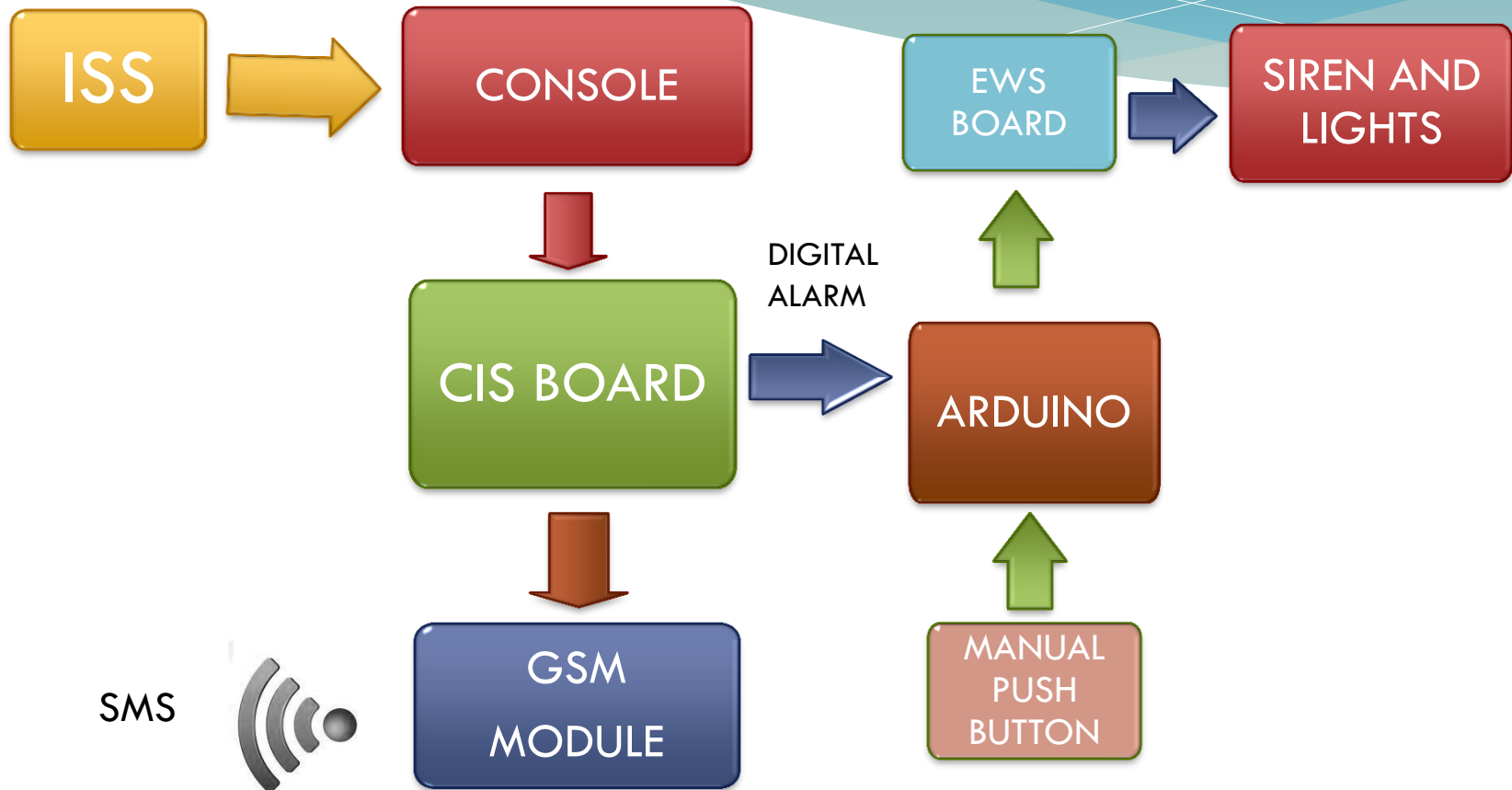
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RAIN INDUCED LANDSLIDE HAZARD MAP

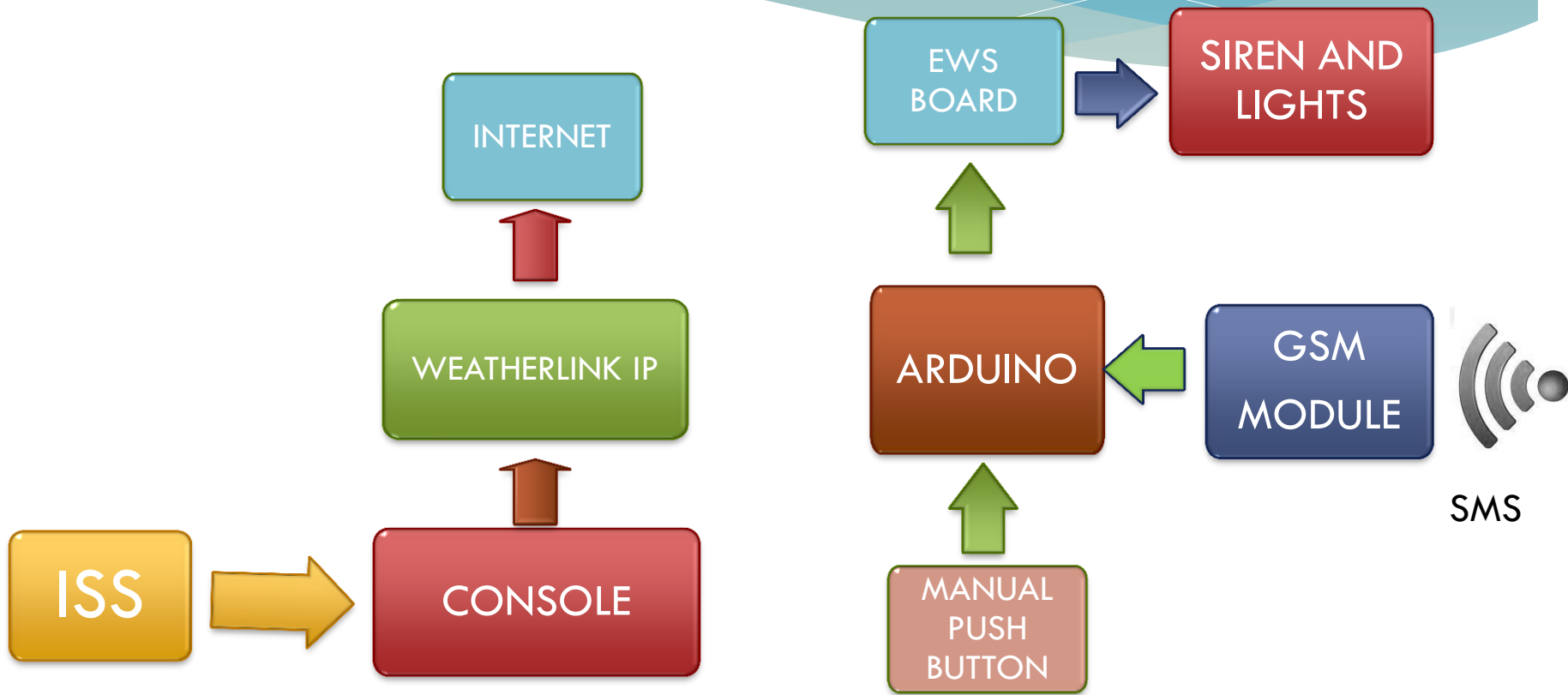
How the System works

* BARANGAY SETUP



How the System works

* MUNICIPAL SETUP



How the System works

* SMS FROM BARANGAY

WARNING



MUNICIPAL
SETUP

WARNING



DESIGNATED
LGU

WARNING



UPLB (PROJECT
LEADER)

WEATHER DATA



CENTRAL DATA
STATION (CDS)

How to use the System

- In order to manually activate the siren and lights, the reset button should be pressed first.

- Press the **Manual push button** according to the warning level.

- Yellow Warning - 1 Press

- Orange Warning - 2 Presses

- Red Warning - 3 Presses

- This should be done within 5 seconds after pressing the Reset Button

- To maintain accuracy, thoroughly clean the rain sensor with a soft cloth and cone and debris.

- The Sun Cellular SIM should be loaded regularly via Sun XpressLoad.
- Change the ISS or console batteries as needed.
- No need to remove SIM card from the system for registration.



THANK YOU!!!

