Rain Gauge Radar for Climate Change Adaptation

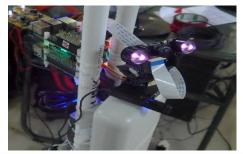
AHMAD BUDI SETIAWAN

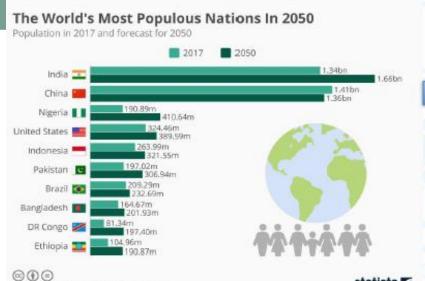
The Agency of Research and Human Resources Development Ministry of ICT, Indonesia



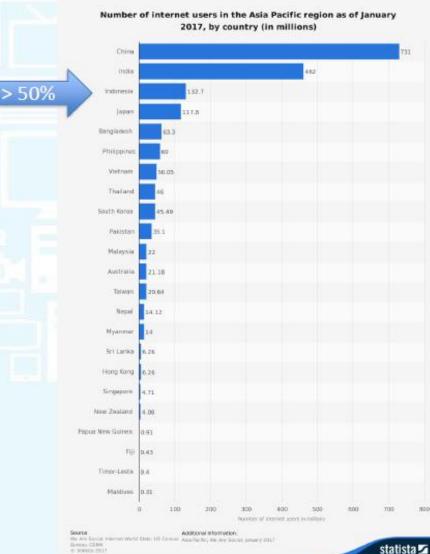
Internet of Things (IoT)











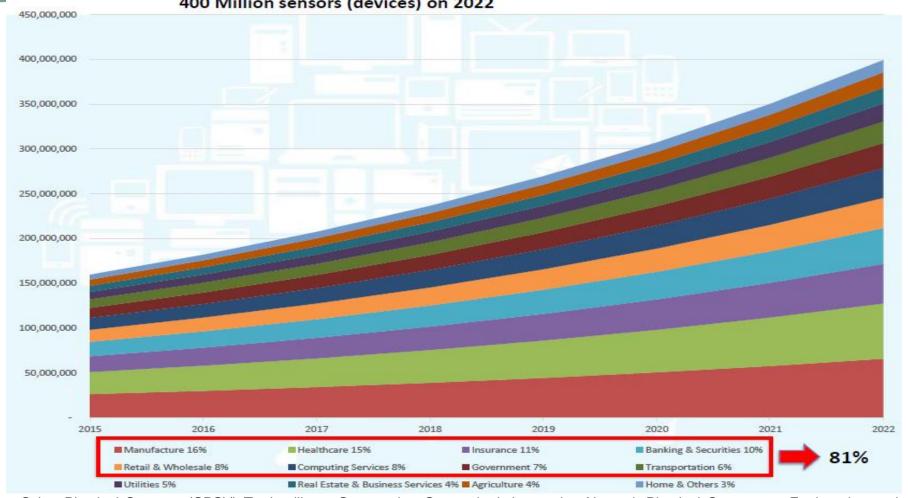
Internet of Things (IoT)



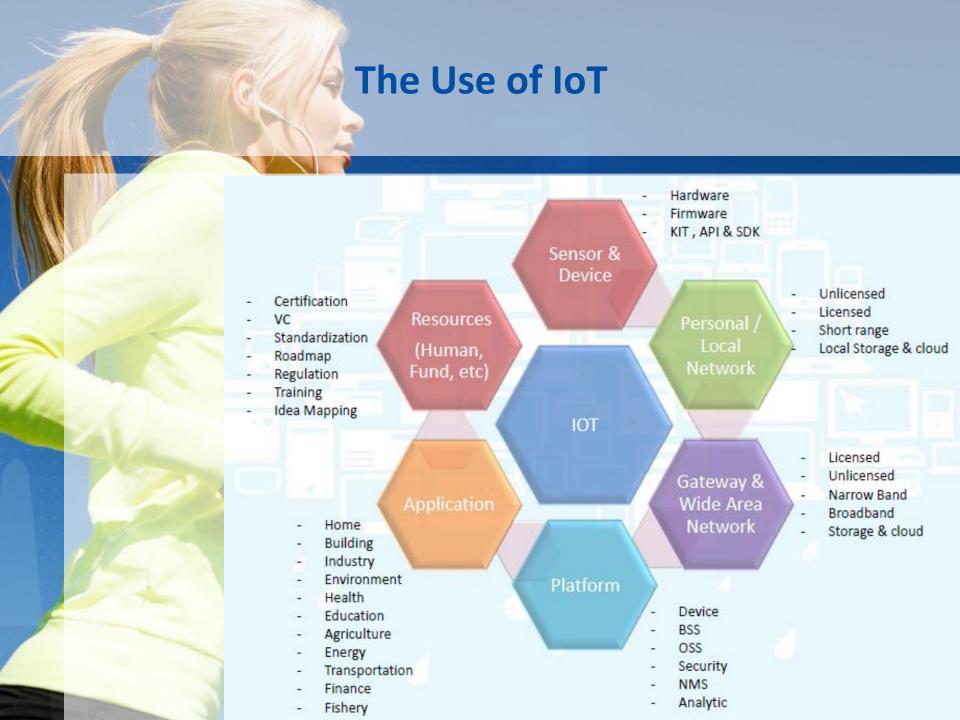


IOT Devices 2015-2022

400 Million sensors (devices) on 2022



Cyber-Physical Systems (CPS)/IoT: Intelligent System that Covers both Interaction Network Physical Component Engineering and Computing



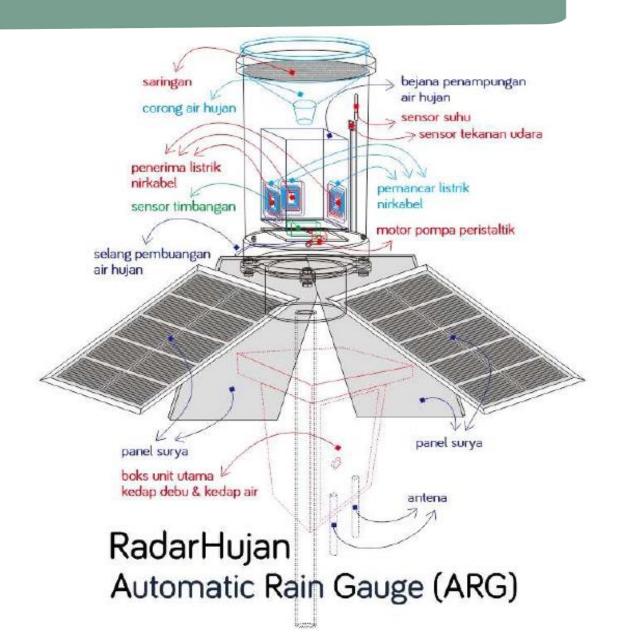
IoT for Climate Change

- It's hoped that the substitution of the common rain stations can generate more advantages included network, cost, and the simplicity of operation and accuracy data.
- This instruments will help observer who have not specific education in meteorology or climatology

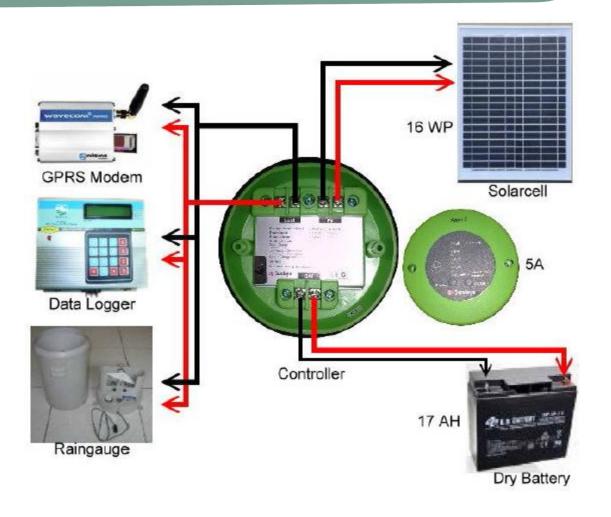
The aim of research project

To develop a rain gauge device that can provide information on rainfall and rainfall prediction

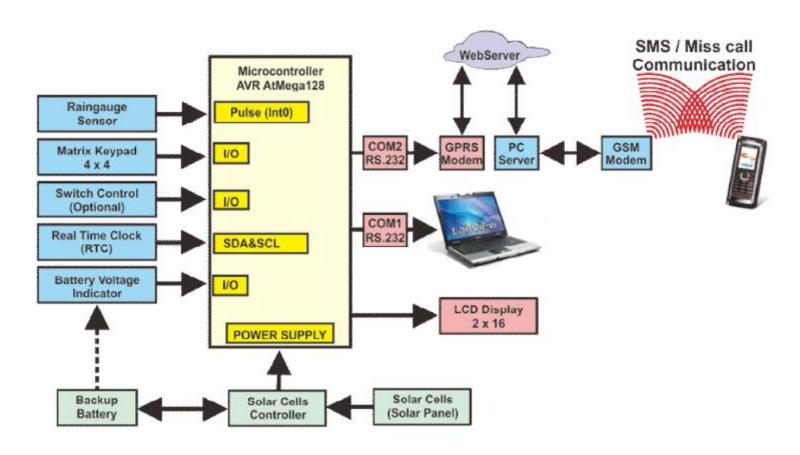
Automatic Rain Gauge

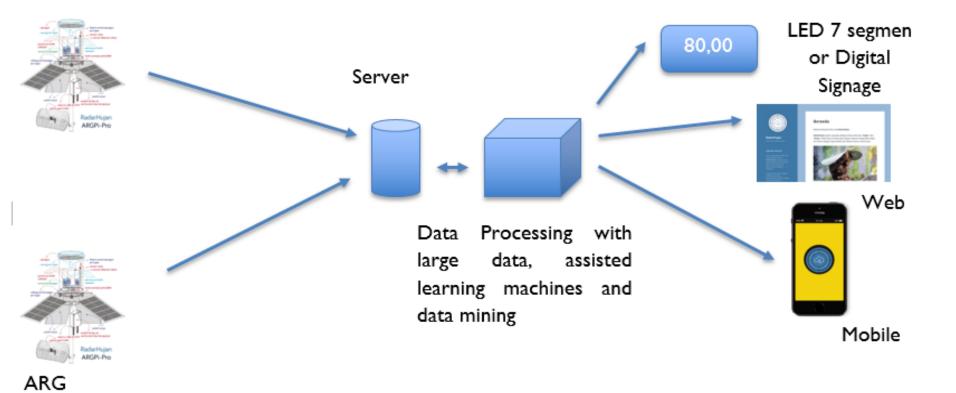


Automatic Rain Gauge Process



Scheme of ARG





The Main Functions Performed by the Data Logger of ARG Tools

- As the system of acquisition of rainfall measurements.
- As a data storage of rainfall that is stored in system storage and analyzed in Big Data system.
- Set the delivery of data through RS232 to PC or via GPRS to the Web-Server and PCServer

Thank You