



Universidad de Oviedo  
Universidá d'Uviéu  
University of Oviedo



Project "Education & Training for Automation 4.0 in Thailand" (ETAT) No.610154-EPP-1-2019-1-DE-EPPKA2-CBHE-JP

Co-funded by the  
Erasmus+ Programme  
of the European Union



# KMITL ETAT Training Center

## ETAT Workshop @KST2022

*Asst.Prof.Dr. Warangkhana Kimpan  
Department of Computer Science,  
School of Science,  
King Mongkut's Institute of Technology Ladkrabang*

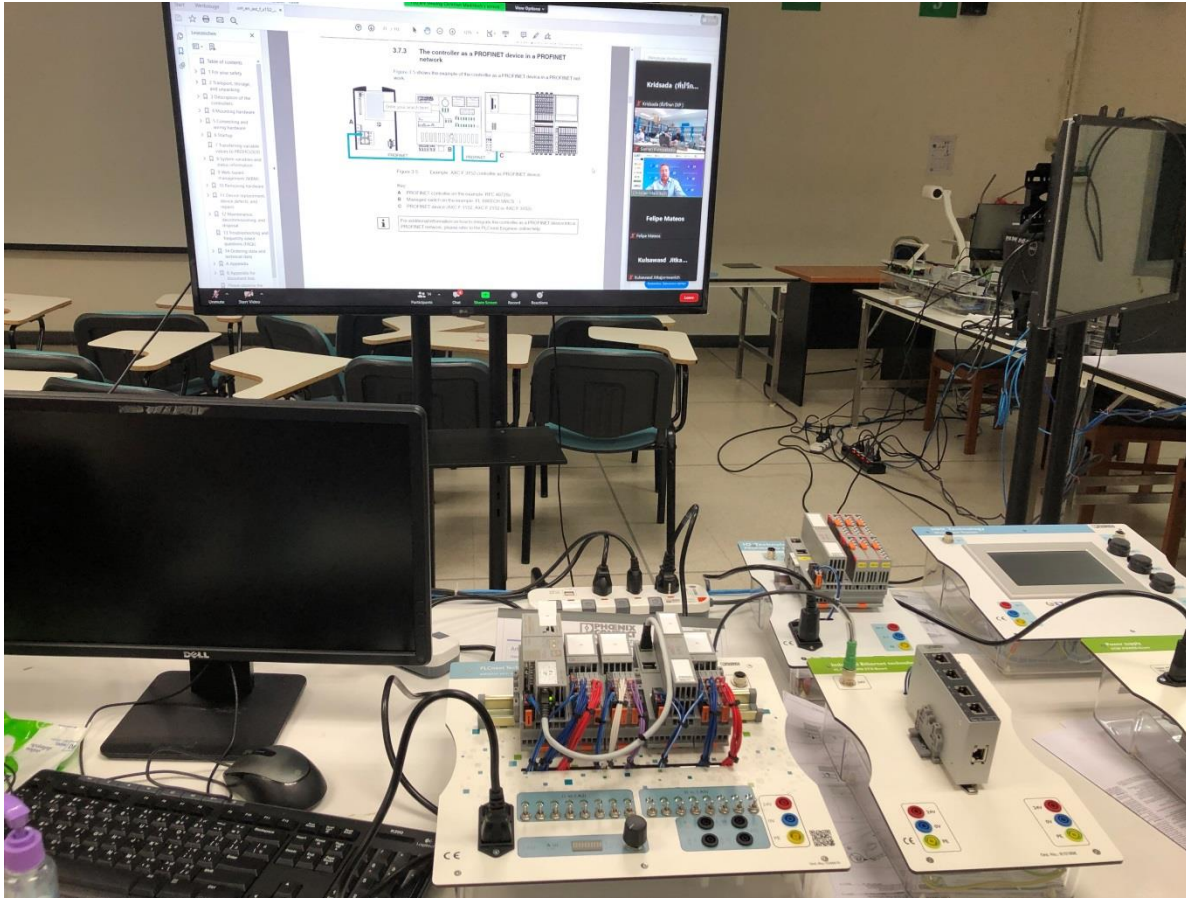
## KMITL ETAT Training Center Location



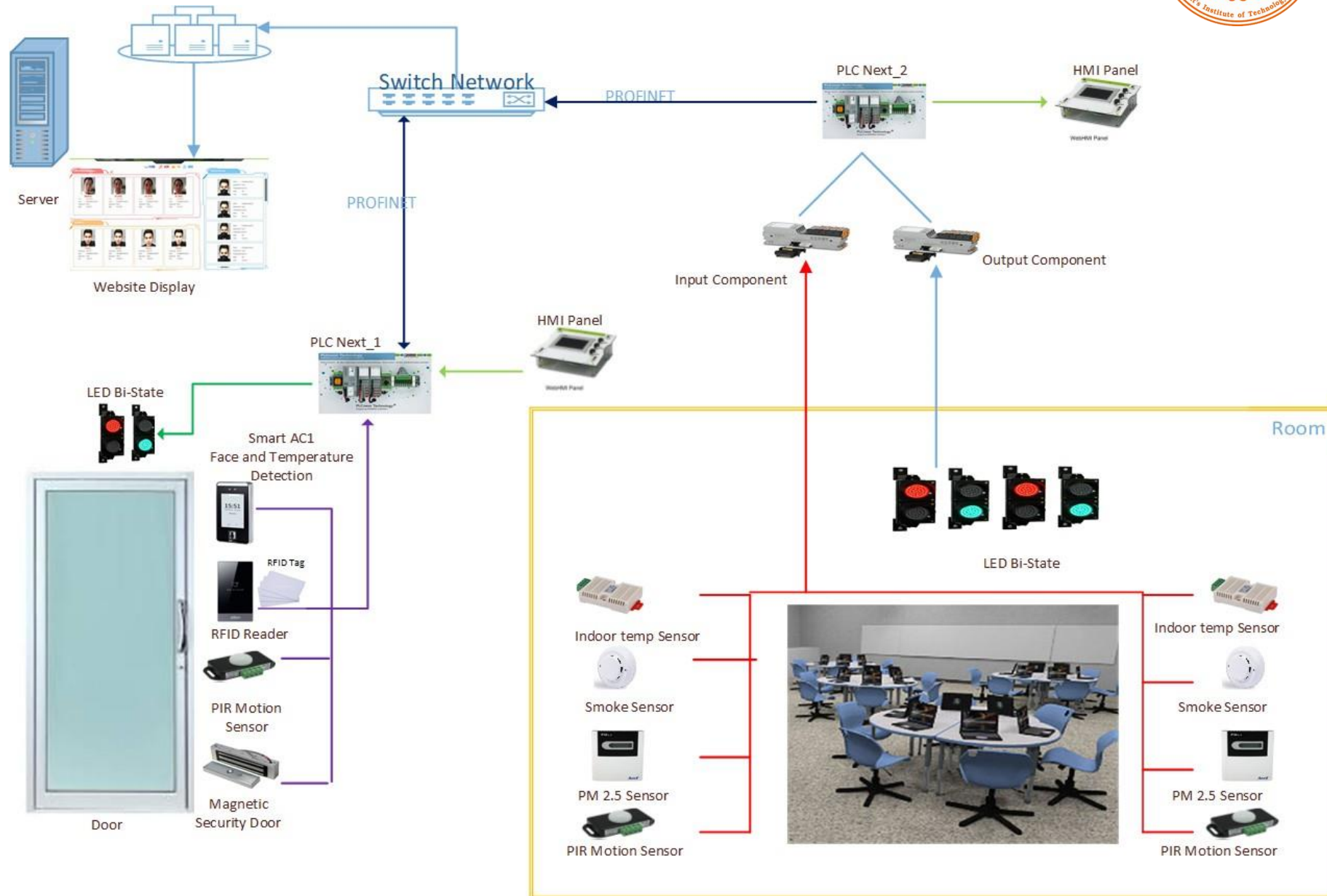
All equipment will be installed in room 106 at SC08 building in School of Science, KMITL. This room will be used as a training center.



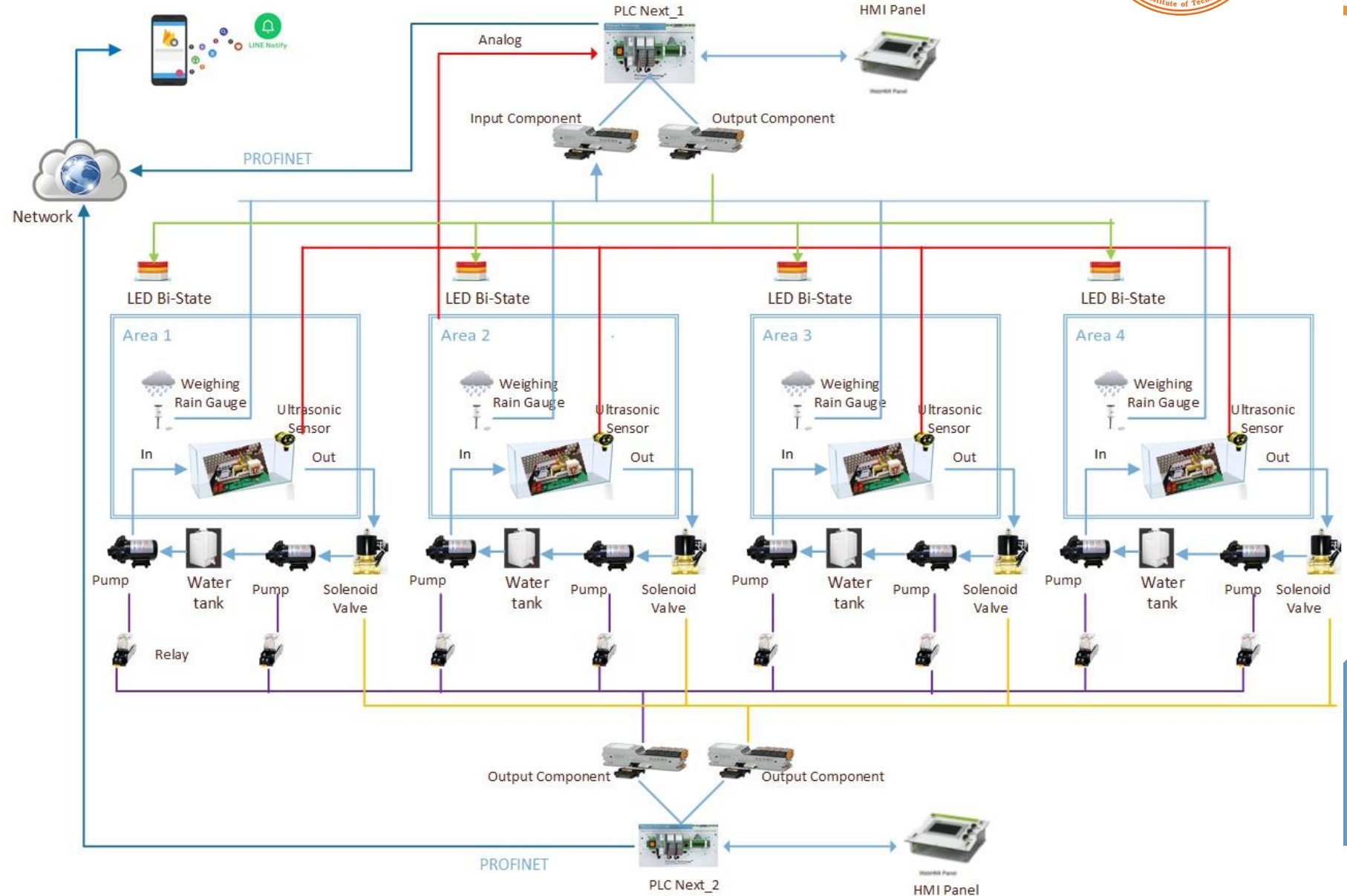
## KMITL ETAT Training Center Location



# Building Automation System



# Flood Warning System via Mobile Application



# Building Automation System Solution



Indoor Temp Sensor



Smoke Sensor RS485



PM 2.5 Sensor



PIR Motion Sensor



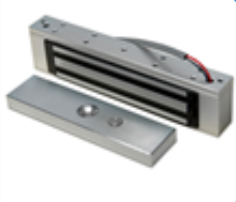
Face and Temperature Detection



RFID Reader



RFID Tag



Magnetic Security Door



LED Bi-stage

# Flood Warning System via Mobile Application Solution



Weighing Rain Gauge



Ultrasonic Sensor



LED Bi-State



Omron Relay



Diaphragm Pump



Solenoid Valve



Flooding Area Box

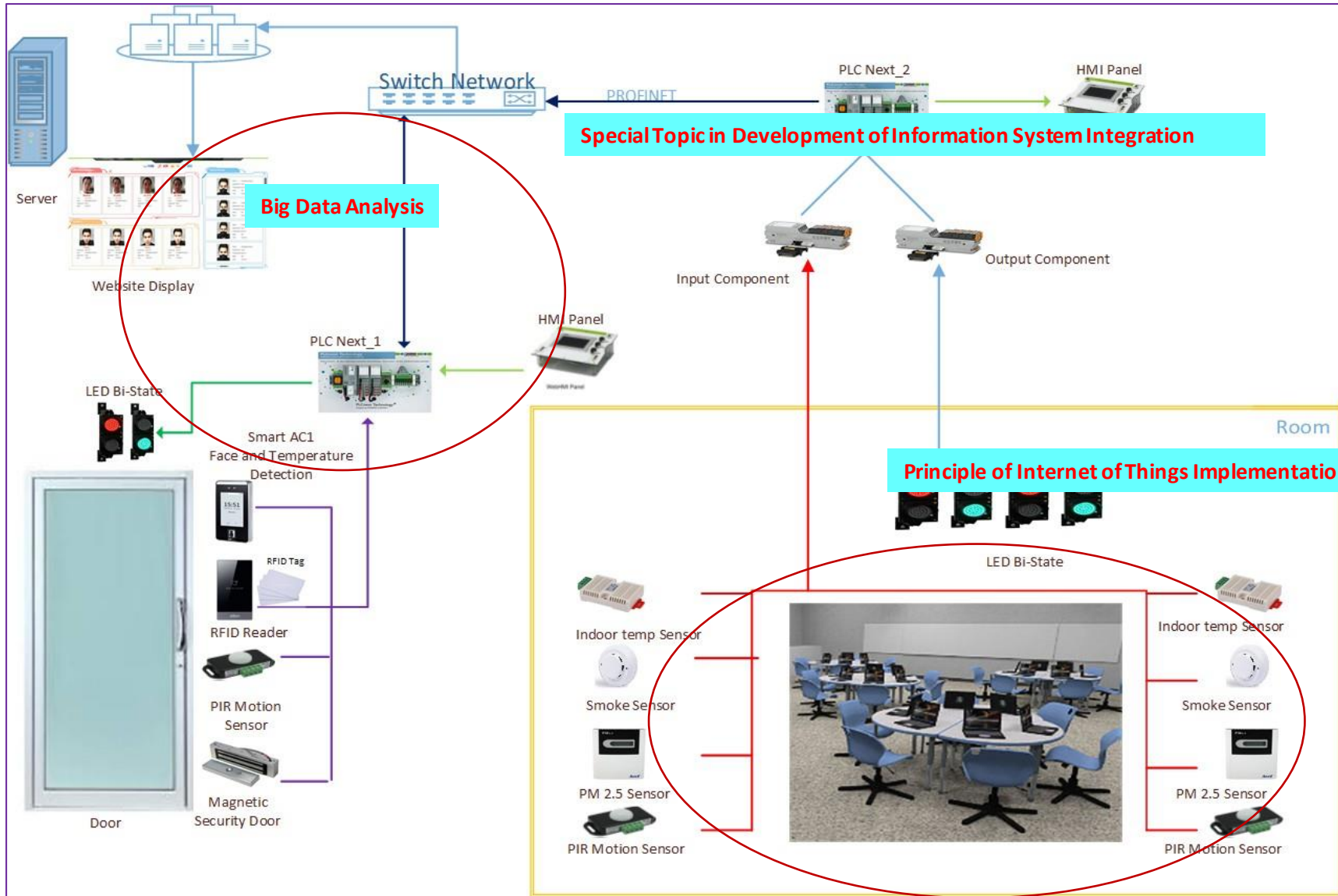


Water Tank



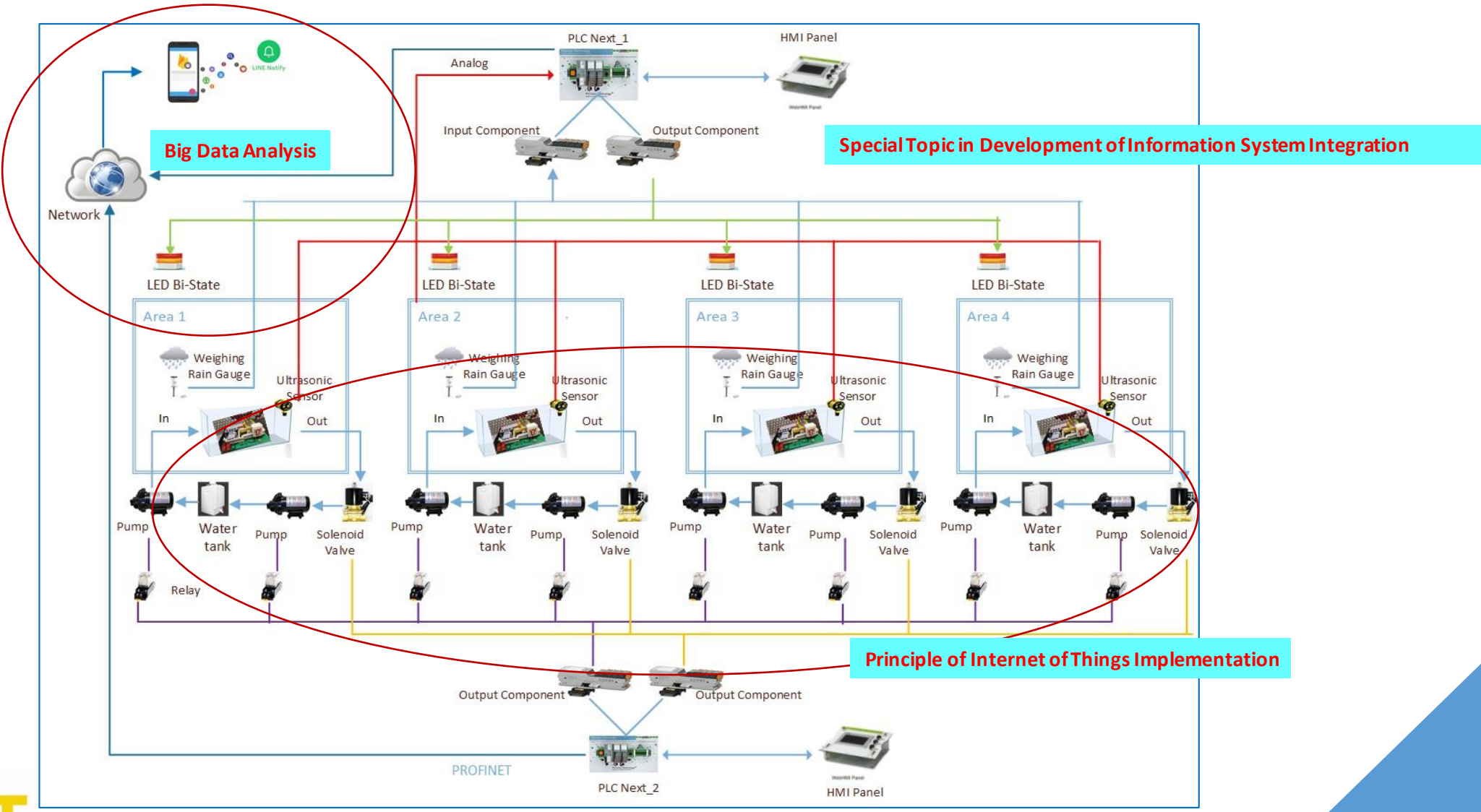
Smart Phone

# Integration with the teaching activity : Building Automation System





# Integration with the teaching activity : Flood Warning System via Mobile Application






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# Thank you!



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