



Smart JAMP(2021) Pre-feasibility Study on the Introduction of Advanced Flood Management Systems or River Management Systems in ASEAN

Target Area	<ul style="list-style-type: none"> Siem Reap Province, Kingdom of Cambodia
Background and Purpose	<ul style="list-style-type: none"> In Siem Reap Province, the ASEAN Smart City Action Plan calls for the development and operation of drainage and flood control sensors by 2021, but this has not been realized. This study proposes the introduction of flood control sensors and an image type water level gauge.
Related Organization	<ul style="list-style-type: none"> Planning and Investment Division, Siem Reap Provincial Administration
Project Stage	<ul style="list-style-type: none"> Pre-feasibility Study
Contents and Results	<ul style="list-style-type: none"> Interview surveys with related organizations of Siem Reap Province to find issues and needs related to flood management. Proposals of the following projects; <ol style="list-style-type: none"> Introduction of flood sensors for flood monitoring in rural area Introduction of image type water level gauges in urban area

Target Area	<ul style="list-style-type: none"> Davao City, Republic of the Philippines
Background and Purpose	<ul style="list-style-type: none"> Davao City has installed CCTV in the rivers flowing through the city to observe water levels. However, the measuring of water levels is done manually based on CCTV images. This study proposes the introduction of water level observation technology using AI image detection, utilizing existing CCTV images.
Related Organization	<ul style="list-style-type: none"> Davao City Disaster Risk Reduction Management Office (Davao CDRRMO)
Project Stage	<ul style="list-style-type: none"> Pre-feasibility Study
Contents and Results	<ul style="list-style-type: none"> Interview surveys with related organizations to find issues and needs related to flood management. Proposals of the following project; <ul style="list-style-type: none"> Introduction of AI water level detection system utilizing images from existing CCTV

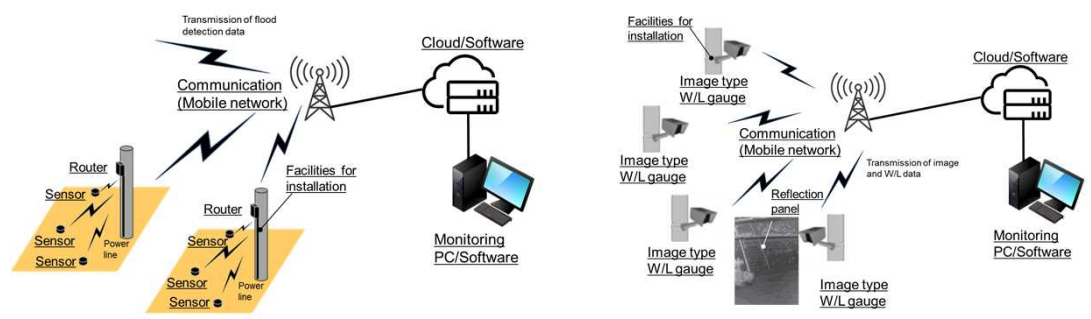


Fig1. Images of flood sensors (left) and image type water level gauges (right) proposed to Siem Reap Province

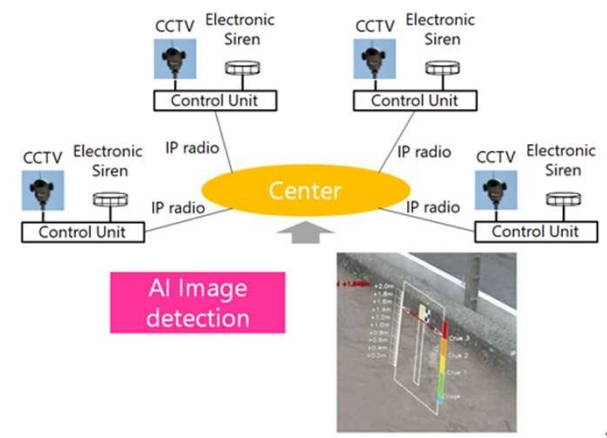


Fig2. Image of the system proposed to Davao City