

FARMTAB: Precision Agriculture System using Internet of Things And Artificial Intelligence for Urban Farming

<u>ASEAN IVO</u> <u>2019</u>

## Introduction :

The objective of FarmTab is to boost the productivity of urban farming by automating the farming process by embedment of Internet of Things (IoT) and Artificial Intelligence (AI) technologies into one platform. FarmTab is designed to enable seamless data collection from various sensors such as pH level, temperature, humidity and moisture in urban farm condition. The AI models track and predict various environment impacts on crop yield for urban farm.



Project Members :			
Name	Affiliation	Farm	Server Users
Chong Yung Wey, Widad Ismail, Tan Eng Kee, Hasnuri Mat Hassan	USM, Malaysia	Sensor nodes	
Ooi Boon Yaik, Lee Wai Kong	UTAR, Malaysia	Raspberry Pi camera	
Thu Ngo Quynh, Lee Dung, Pham Ngoc Hung, Pham Van Tien	HUST, Vietnam	Soil moisture sensor	Cloud Rear Web application
Muhammad Niswar, Zainal, Zulkifli Tahir, Abdul Azis	UNHAS, Indonesia	pH sensor	Database Image processing
Achmad Basuki, Raden Arief Setyawan	UB, Indonesia	Water level sensor Solenoid valve	
Naoki Shinohara	Kyoto University, Japan	Water pump	Mobile application