

## **SmartMetro :** *Smart Metro Operations Enhancement through Data Analysis*

### **Activities under SmartMetro Project**

#### **Participation on the 6th Thailand Rail Academic Symposium (TRAS 2019)**

The Faculty of Engineering, Mahidol University had organized the 6th Thailand Rail Academic Symposium (TRAS 2019) during 21-22 November 2019 in Bangkok, Thailand. UK partners and Mahidol researchers had actively participated in the symposium as symposium chair, keynote speakers and paper presenters to share their experience on research and real practice. Mahidol participants included Assistant professor Dr. Waessara Weerawat, Dr. Jirapan Liangrokapart, Dr. Lalita Narupiyakul, and Dr. Somsiri Siewwuttanagul while the UK partner participants included Dr. Taku Fujiyama, Miss Natchaya Lailomthong, Mr. Vivich Silapasoonthorn, Mr. David Winslett and Mr. Howard Wong. Proceedings of the Symposium will be published in 2020.

#### **Online meetings on the next project plan**

The researchers from Mahidol University and University College London had discussed on the project activities through online facilities. The schedule for student internships and the next workshop has been planned.

#### **MOU between Mahidol University and Department of Rail Transport**

The Memorandum of Understanding (MOU) between Mahidol University and Department of Rail Transport has been discussed and will be finalized in the future. The areas of collaboration include academic, research, and capacity development in the rail-related system.

#### **New researchers to join the SmartMetro project**

Associate Professor Dr. Jackrit Suthakorn, Dean of the Faculty of Engineering, Mahidol University had appointed Dr. Lalita Narupiyakul from the Department of Computer Engineering and Dr. Somsiri Siewwuttanagul from the Cluster of Logistics and Rail Engineering to be additional researchers for the SmartMetro project. Dr. Lalita and Dr. Somsiri will help to collaborate with the UK partners and do projects with the Thai industry.



#### **Visit to BTS, Thailand**

The SmartMetro researchers including Dr. Somsiri Siewwuttanagul from Mahidol University, Dr. Taku Fujiyama and Miss Natchaya Lailomthong from University College London and Mr. Vivich Silapasoonthorn, Mr. David Winslett and Mr. Howard Wong from Transport for London visited Bangkok Mass Transit System Public Limited Company (BTS) Office on 19 Nov 2019. Mr. Krit Liutanakul, Service planning and MIS department manager and Mr. Pana Ungkab, Train operation manager of BTS welcomed the visitors. The purpose of the visit was to see BTS facilities and introduce the colleagues from UK to BTS executives for future networking. In addition, the researchers and practitioners could exchange the idea and current practice on data analysis for the SmartMetro project.



### **Future Activities: SmartMetro Project**

- Student internships with industry will be planned and implemented in 2020.
- Courses on the topic of data analysis in metro operations will be outlined and developed.
- For professional capacity development activity, a 3-day workshop to train the operators on "How to analyse the metro data for better services" will be outlined and tentatively be held in November 2020.