The Institution of Engineers, Malaysia

Organised by: :Highway and Transportation Engineering Technical Division (HTETD)

WEBINAR TALK ON
OPEN DATA VALIDATION OF THE PERFORMANCE OF A SMART CITY APPLICATION IN TRANSPORT: TRANSIT SIGNAL PRIORITY REQUEST VIA THE PUBLIC TRANSPORT INFORMATION AND PRIORITY SYSTEM

5 MARCH 2022 RESCHEDULED TO 28 MAY 2022
9.00 AM-11.00 AM

BEM Approved CDP: 2 Hours   Ref. No.: IEM21/HQ/484/T(w)

Synopsis

Earlier smart city investments sometimes realise further potential when combined with subsequent projects. One example of this is the Transit Signal Priority (TSP) via Public Transport Information and Priority System (PTIPS), which provides priority for delayed buses in the New South Wales public transport network. The system relies on earlier Smart Cities oriented technology including actuated signals (SCATS), on-board global positioning systems (GPS) and occupancy data from Opal cards to extend green time for buses that are running late.

This presentation discusses the data pipeline development, and benefits validation processes of the TSP request system, using open data generated by legacy investments like SCATS, GPS and Opal card. The work underscores the benefits of Smart Transport and Open Data. We test the hypothesis that the reduction in delay is correlated with the number of signalised intersections between bus stops when controlling for the total number of intersections, the distance between stops, and the magnitude of delays.

In addition to validating the PTIPS TSP, this research also serves to motivate legacy investments that might enable the next generation of Smart Cities Projects. This validation has bearing on future Smart Cities project appraisals in terms of direct advantages and quantifying the wider economic benefits.

Speaker's Biodata

Mr. Teck Kean Chin

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Teck Kean Chin, FIEAust CPEng NER APEC Engineer IntPE(Aus)
Teck is a transport engineer with over 20 years of experience in Australia, the United Kingdom and South East Asia. He founded Metis Consultants – a planning and engineering consultancy – in 2011, and four (4) years later he co-founded Research and Analytics – a data collection and surveys company. Teck completed a Bachelor of Engineering (Honours) at the University of Bristol in 2001. He is currently pursuing a PhD on Smart City Applications in Land Use and Transport (SCALUT) University of Sydney's TransportLab. The PhD is being supervised by Dr Benjy Marks and Dr Emily Moylan

Registration fee

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