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Date of Issue: 12 September 2018

## **Leveraging AI to improve Traffic Flow - Trial between Corporation Road and Boon Lay Way**

The Land Transport Authority (LTA) is working with A\*STAR's Institute for Infocomm Research (I<sup>2</sup>R) to develop a locally-built next generation smart traffic light control system for Singapore, also known as **CoopeRative** and **UnIfied Smart Traffic SystEm** (CRUISE). The trial will be carried out near traffic intersections and pedestrian crossings between Corporation Road and Boon Lay Way, with sensors to be installed from September 2018 to end 2020.

2 CRUISE is designed to pick up the physical presence of vehicles and pedestrians. By harnessing near real-time datasets from new technologies such as global navigation satellite system (GNSS) and autonomous vehicles, artificial intelligence (AI) and predictive capabilities can help us develop intelligent traffic light algorithms. This will help to enhance the optimisation of traffic light and pedestrian crossing timings for smoother traffic and pedestrian flow. (Please refer to **Annex** for the exact trial locations).

3 Said Dr Chin Kian Keong, Chief Engineer, Road & Traffic, LTA: "There is huge potential to integrate richer data from more sensors and vehicles to achieve more efficient road networks for our diverse group of road users."



Example of a traffic sensor at a test location

## **ANNEX – Map of CRUISE trial locations**

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