INTRODUCTION:
The Toilet Demand Inspection System (TDIS) is an application that helps the Housekeepers to proactively respond to clean up toilet after a predetermined number of users.

OBJECTIVES:
To reduce the number of touch-up cleaning trips to the toilet with the use of TDIS, increasing work productivity.

METHODOLOGY:
Before the implementation, housekeeper will check each toilet’s condition every hour, from 7am to 9pm. This is to ensure that the toilets are kept clean. Depending on the condition of the toilets, the housekeeper will do the touch-up cleaning accordingly and move to the next toilet location. This practice will take some of the housekeeper’s time and will interrupt her cleaning works in other areas.

With the implementation of TDIS, the number of touch-up cleaning trips made by housekeeper were reduced as the system will only prompt them to perform touch-up cleaning when the predetermined number of users is reached.

TDIS was regulated based on the number of people using the toilet. When the system hits the limit of predetermined number of people using the toilets it will send an alert message to the housekeeper’s handphone. The housekeeper will make a trip to the toilet for inspection and perform touch-up cleaning.

RESULT:
In the conventional method of touch-up cleaning, a housekeeper needs to make 14 trips to check the toilet condition from 7am to 9pm. With TDIS, the average number of touch-up cleaning trips were reduced to 9 cleaning trips per day. This would save 5 touch-up cleaning trips or 25 minutes per toilet saved per day. Time saved from toilet touch-up cleaning will be spent in cleaning the clinics.

CONCLUSION:
TDIS improved the cleanliness of the toilets and enhance users’ experience. The housekeeper became more proactive to attend toilet issues and more pleased with the reduction of unnecessary cleaning trips. Overall, it improves cleaning productivity in the toilets and clinics.