# Enhancements For Radio Frequency (RF) Taxi Call Button

Tony Y.S.[1], Murali B.[2], Loh K.C.[3], Chong S.L.[4], Sockalingam R.[5]
[1]Facilities Management , [2] Patient Service Centre
Khoo Teck Puat Hospital

## Aim

To relocate the main lobby taxi call button after the completion of A&E Extension and relocation of the old Taxi Stand. To enable wireless remote calling capabilities, we aim to reduce the walking time of Greeters to press the button positioned on the wall.

## Background

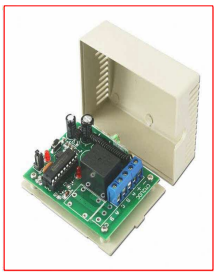
The original system was hard-wired, requiring significant cabling work. This involves opening metal cladding panels, resulting in a high cost of $5,226.61.


## Interventions / Implementation

Used refurbished parts from Automated Guide Vehicles (AGV), other automated system parts were salvage to create a wireless RF system to avoid complex cabling works.

Additional indoor lighting was added to enhance visibility in the lobby for both users and greeters.

RF Taxi Call Button


RF Receiver Box


Taxi Light

Taxi Light

## Team Members

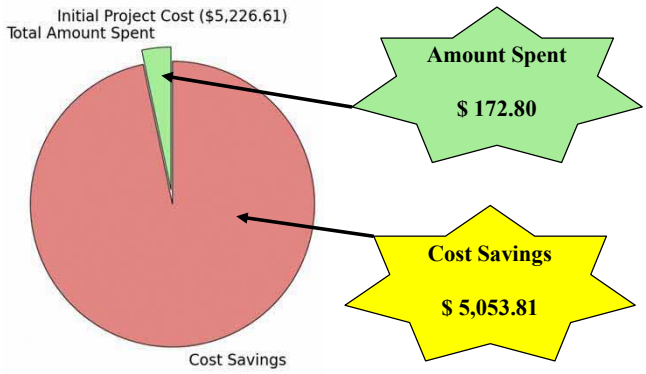
| Name | Designation | Department |
|---|---|---|
| Tony Yang Shunxing | Assistant Director | Facilities Management |
| Murali Balasubramaniyan | Senior Engineering Assistant | Facilities Management |
| Loh Khee Chaw | Assistant Director | Patient Service Centre |
| Chong Shin Loong | Patient Service Executive | Patient Service Centre |
| Sockalingam S/O Ramalingam | Senior Patient Greeters | Patient Service Centre |

## Onward 2026

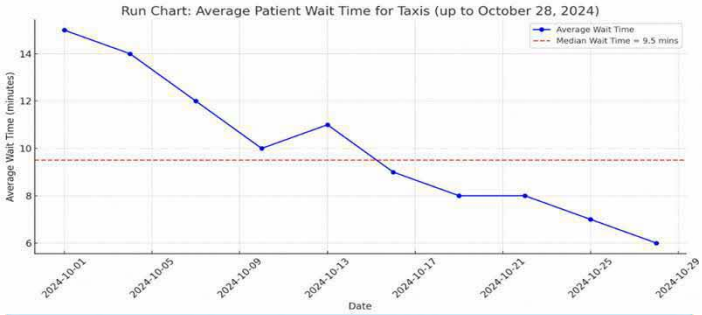
This wireless RF system aligns with our Onward 2026 goal of enhancing operational resiliency and ensuring patient satisfaction through innovative changes. By utilizing refurbished components and in-house FM staff expertise, the project achieved significant cost savings and improved efficiency. This sustainable approach supports long-term operational resilience while fostering a more patient-centered environment.

## Results & Outcomes

The project costed $172.80, achieved by utilising refurbished parts and in-house resources, resulting in over 97% savings compared to the vendor's quoted cost of $5,226.61.




The project improved patient waiting times for taxi. Furthermore, the use of refurbished parts from old systems contributed to sustainability.




## Conclusion

The project achieved a cost avoidance of $5,053.81 by reusing parts from decommissioned older systems. This approach enhances operational resiliency through sustainable practices.