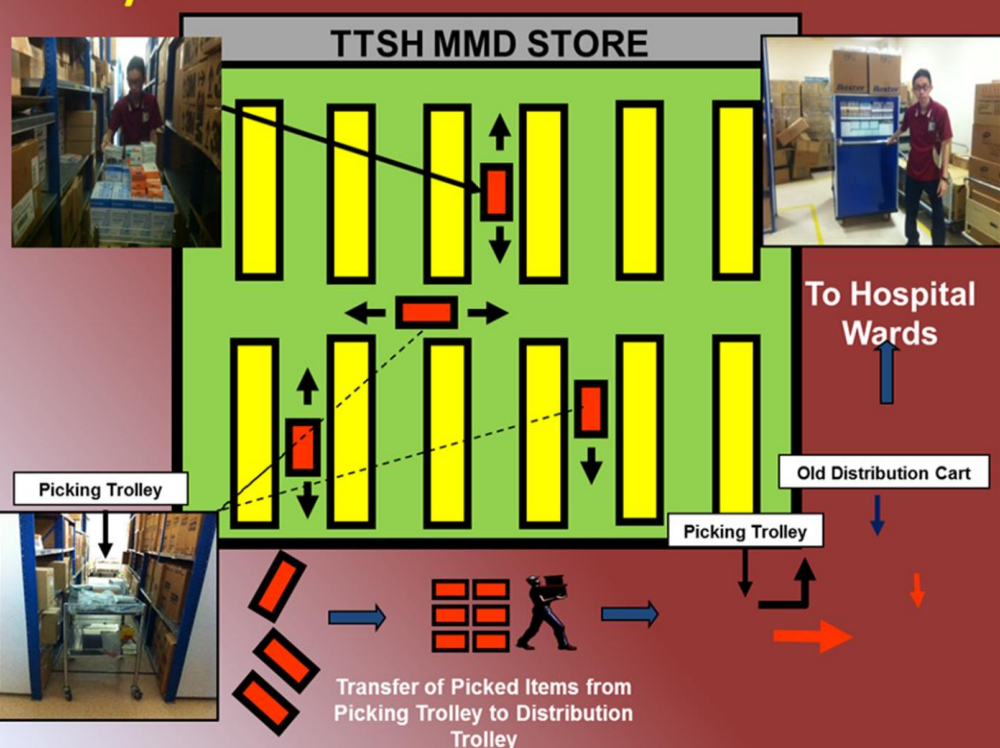


TTSH ELECTRIC MOTORED TRANSFORMABLE CART (EMTRAC) – 2 Time Excellence Award Winner for 2012 & 2014 for the Asia Hospital Management Service Improvement for Internal Customers

Before: Utilizing a small picking trolley and a Bulky Wooden Distribution Cart 2011



Problems Encountered



Small picking trolley with limited capacity



Ergonomics problems: back strain & injuries



No safety feature

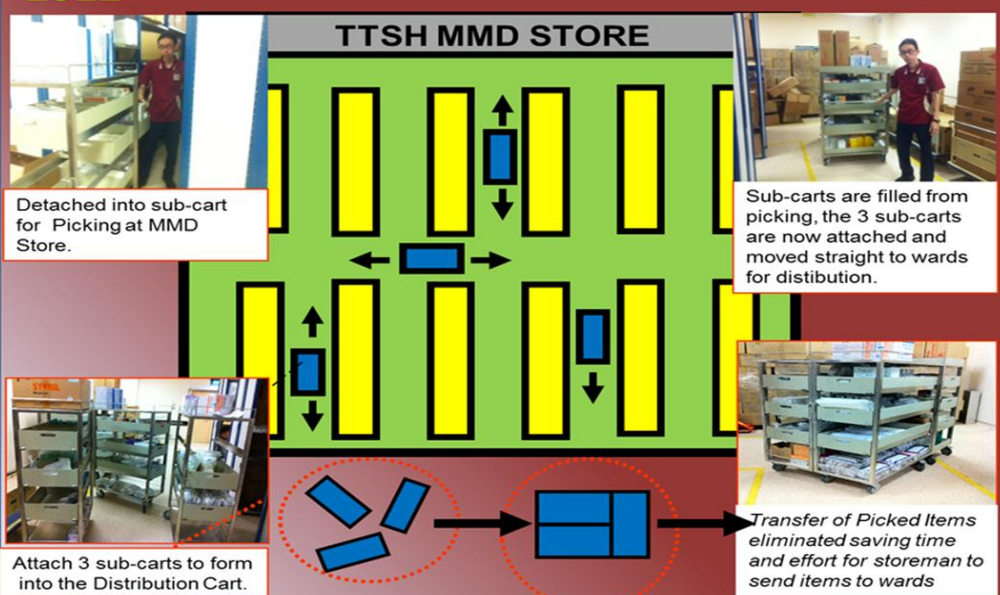


Hard to maneuver the Distribution Cart



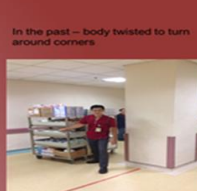
Unnecessary movement

After: Implementation of the Tri-Cart System 2012



- 200% more items picked due to higher capacity of sub-carts.
- Reduction in trips from 18 to 6, for each sub-cart going in and out of the store. Savings: 60 man hours/month
- Eliminating the need for transfers from picking to distribution cart. (Savings: 240 man hours/month)
- Improved safety features (Collision Incidences: 20/month to ZERO!)

With the man hour saved, the Tri-Cart would be able to help our aging workforce sustain the level of productivity as our hospital expand to meet the rising demand in healthcare services.



TTSH MMD continues to improve on its Tri-Cart. In 2014 this year, the team incorporated an electric motor drive-train to the Tri-Cart. The equipment was thereafter called the Electric-Motor Transformable Cart or **EMTRAC** for short. With the drive-train incorporated, TTSH MMD's productivity was further enhanced!

Reduced Delivery Time – 86 man-hour saved/month!

With the Man-hour saved, our fleet of EMTRACs would be able to help our aging workforce to sustain if not, to increase the level of productivity as our hospital expands to meet the rising demand in healthcare services.