Supervisor Meeting Minutes 6

Date: 23rd March 2018

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| Present: | Prof Kam, Russell, Weilun, Jing Ying |
| Venue: | SMU SIS MR 4.1 |

## Agenda

* Update Prof Kam about our progress on ABC analysis and warehouse inventory balance
* Ask questions regarding ABC and heatmap for dashboard

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| Time | Details | Person In Charge | Status |
| 15:00 | Showed Prof our warehouse location ABC calculation on Excel. How we determine A, B and C categories for the warehouse.  Cannot use data to come up with proportion since they are not following ABC anyway. We will propose a method which uses distance. Since A is important, we will half it. Bottom level will have higher proportion of A as you go up then proportion of A will decrease. We didn’t really find literatures on how you should organise your warehouse.  Prof:  But you have to be very careful because each stack has a capacity constraint. If u want to build it this way, need to apply LP method and solve it. Each cell is not just about the distance. It also has a capacity constraint. We need a reallocation model to distribute the goods to the shelves. The idea is perfectly alright but now need to translate into LP just that CAT project using solver. Write the equations and impose a constraint which is not just a travel distance but also the capacity constraint to stop it or less it will not distribute. It will assume it keeps on stack at the closest and cannot solve.  Russ:  The purpose of the LP model is? |  |  |
| 15:15 | Prof  How they allocate, which one they should allocate and both in terms of location and the volume before they can move on to the next one. Each cell is one distance unit and just add capacity there.  If we have new things in, how should we allocate? As and when there are things that move out, it will update it live. Each cell basically should have capacity and what’s currently inside. And recalibrate overtime. Once got new products that come in, then where should they place it?  If we want them to be able to use it, they need to update it immediately.  Make those negative into zero and alert the sponsor.  How to show when there are more than one product category in a location?  Cut the cells into proportion in d3.  Should display both or toggle to see ideal vs current.  Toggle to see the different layers.  Give them a parameter box so that they can fix the proportion. |  |  |

Upcoming To-Dos:

1. Finish up dashboard and show Prof Kam

2. Work on poster