## **Improvement of Slitting Operations**



**Supervisors** 

Mr. Ewart Yong Ms. Christina Leung

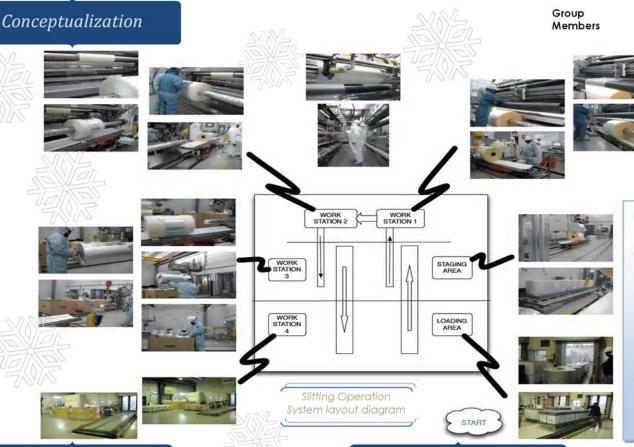
# Objectives: Quantify throughput Determine the optimality of system Provide recommendation



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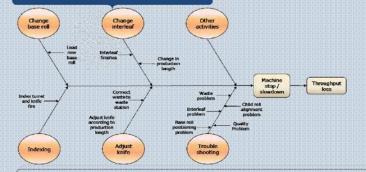
Associate Prof. LEE Loo Hay Assistant Prof. NG Tsan Sheng, Adam

Yvonne Tan Whye Lin Chen Xi Daryl Lim Zhi Yang Goh Theng Poay Shao Jijun



- Understand system
- Map into system layout diagram & detailed process flow chart
- Validate with experts

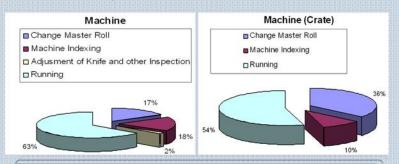
### Qualitative Analysis



#### Fish Bone Diagram

- Analyze detailed process flow chart
- Identify bottleneck
- Examine cause and effect of bottleneck using fishbone diagram
- Investigate each cause using cause analysis table

#### Quantitative Analysis



Pie chart for Machine Utility (Roll and Crate)

- Verify qualitative analysis
- Quantify throughput
- Map into flow chart with μ & σ
- Quantify utility for resources
- Summarize utility into pie charts
- Estimate performance of all product types