AOS Pick Zone Redesign

Overview
Ingram Micro current AOS pick zone layout does not optimize the space in the factory causing immense travel and performance reduction for workers picking products from shelves to the conveyor belt which reduces performance.

Objectives
To analyze data to develop a new pick zone design that will optimize efficiency and improve safety in a large distribution center environment.

Approach
- Visited site to understand the picking process in the AOS Pick Zone
- Collected feedback from pickers on what issues they face while picking
- Focused on creating a layout that would solve those problems
- Analyze data of products shipped out from Ingram Micro Harrisburg from 2014-2015
- Used Simio to further breakdown the data and group products based on shipping level
- Used Simio obtain 9% decrease in walking time
- Created a cart model that focused on reducing travel back and forth in warehouse
- Used SolidWorks to create a cart model

Outcomes
Finally, list the outcomes for this project making sure to clearly convey their implications for the sponsoring company:
- The sponsor will increase productivity by up to 9%
- Processing time reduced by up to 10 seconds for each label
- The project reduced walk and processing time
- The team came up with new cart design that will decrease walk and processing time.