

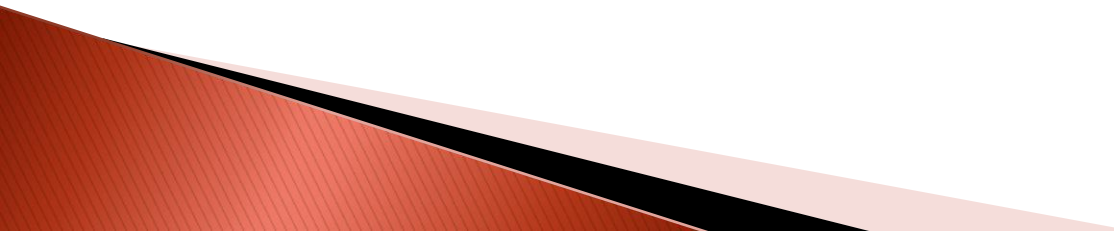
IPRO 345: Improving Food Packaging Processes Using Process Mapping Techniques

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Outline

- ▶ Background
 - ▶ Problems
 - ▶ Work Breakdown Structure
 - ▶ Objective
 - ▶ Methodology
 - ▶ Results
 - ▶ Conclusion
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Background

- ▶ Third generation family owned company since 1958
- ▶ Produces specialty lunch and deli meats
- ▶ Three manufacturing facilities
 - Lansing, IL (Headquarters)
 - Madisonville, KY
 - Searcy, AR



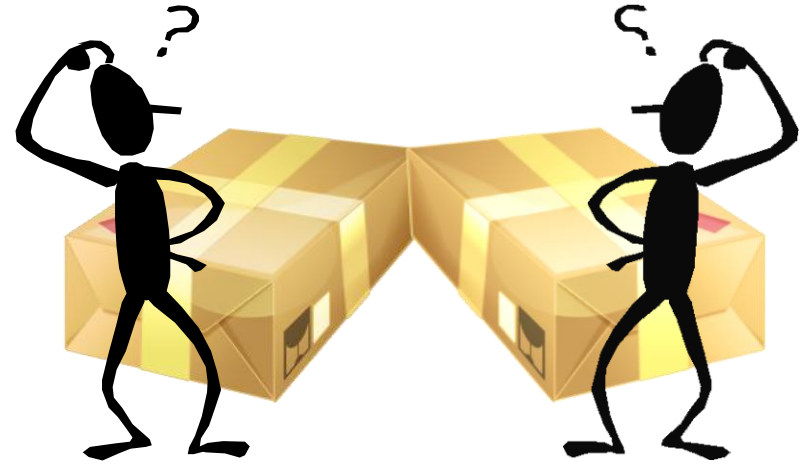
Great Tasting Lunchmeat

Areas of the plant

- ▶ Formulation
- ▶ Packaging

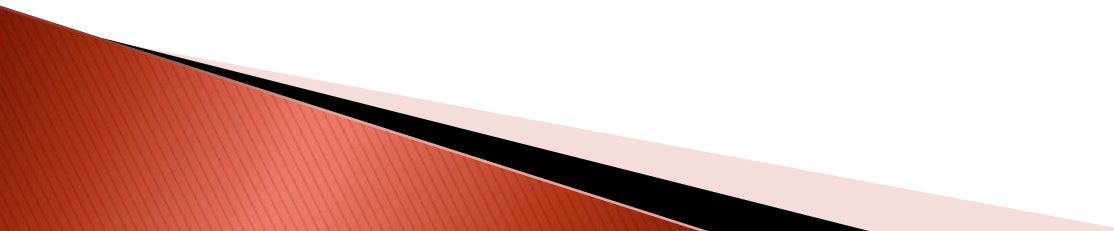
Problems

- ▶ Product flow and congestion
- ▶ Multiplicity of tools
- ▶ Lack of storage system



Work Breakdown Structure

Based on problems, the IPRO 345 team was divided into 2 projects:

- ▶ Project 1: Plant Layout
 - ▶ Project 2: Tools & Storage
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Work Breakdown Structure



Objective

- ▶ Project 1: Plant Layout
 - Understand Formulation Process
 - Analyze traffic flow of product
 - Propose an efficient plant layout
 - Justify proposed changes

Methodology

- ▶ Project 1: Plant Layout
 - Map plant layout
 - Track machine frequency
 - Identify points of congestion
 - Identify traffic flow of product

Result

- ▶ Project 1: Plant Layout
 - Identified bottlenecks
 - Understood production process
 - Track frequency of machine usage

Objective

- ▶ Project 2: Tool Organization
 - Prepare inventory of tools
 - Standardize tools
 - Improve storage locations

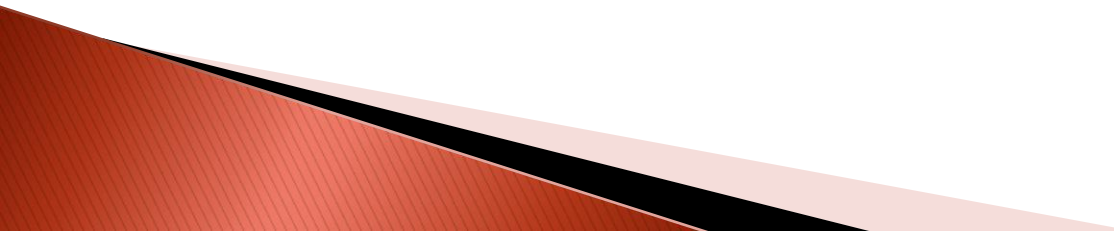
Methodology

- ▶ Project 2: Tool Organization
 - Catalogue all tools
 - Identify the use, storage location and employee preference

Result

- ▶ Project 2: Tool Organization
 - Reduced number of tools
 - Recognized convenient storage locations
 - Implemented 5S strategies

Conclusion

- ▶ Project 1: Plant Layout
 - Proposed economically efficient plant layout
 - ▶ Project 2: Tool Organization
 - Metal shovels versus plastic shovels
 - 4 tooth Rakes–Grinders
 - 3 tooth Rakes–Mixers
 - Cords attached to scoops
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Acknowledgements

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QUESTIONS

