

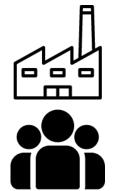
Integrated

Solutions

**Company Contact: Mr. Brad Curtis** 

# Background

### Integrated Textile Solutions is a family-owned textile manufacturing company founded in 1936



2 locations in Virginia

100+ total employees

Manufactures a wide range of commercial and military products

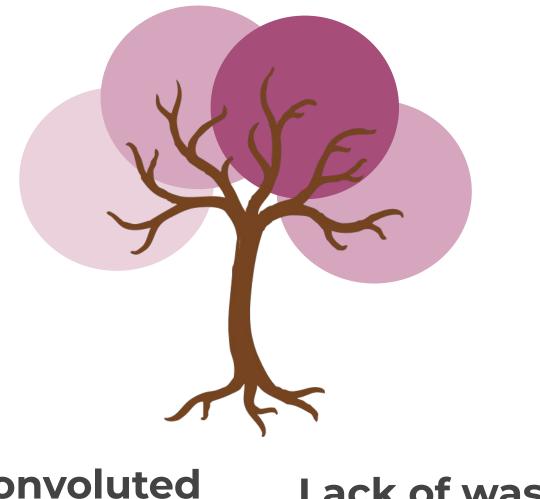






# Problem Statement

ITS currently does not have an accurate and efficient way of **collecting** and **analyzing waste** surrounding their facility. This is keeping their company in a constant "reactive" state, not allowing ITS to detect and eliminate causes of recuts, late orders, and lost material.



Convoluted material tagging system

Lack of waste measurement system

8% of total material is wasted in recuts (~\$28,500 per fabric annually)

60-70% of HDT tan tent orders not completed on time

A large amount of fabric ordered is physically lost in the facility

Reporting

Identification

### Project Goals



Develop and implement a data collection and management system to quantify physical waste

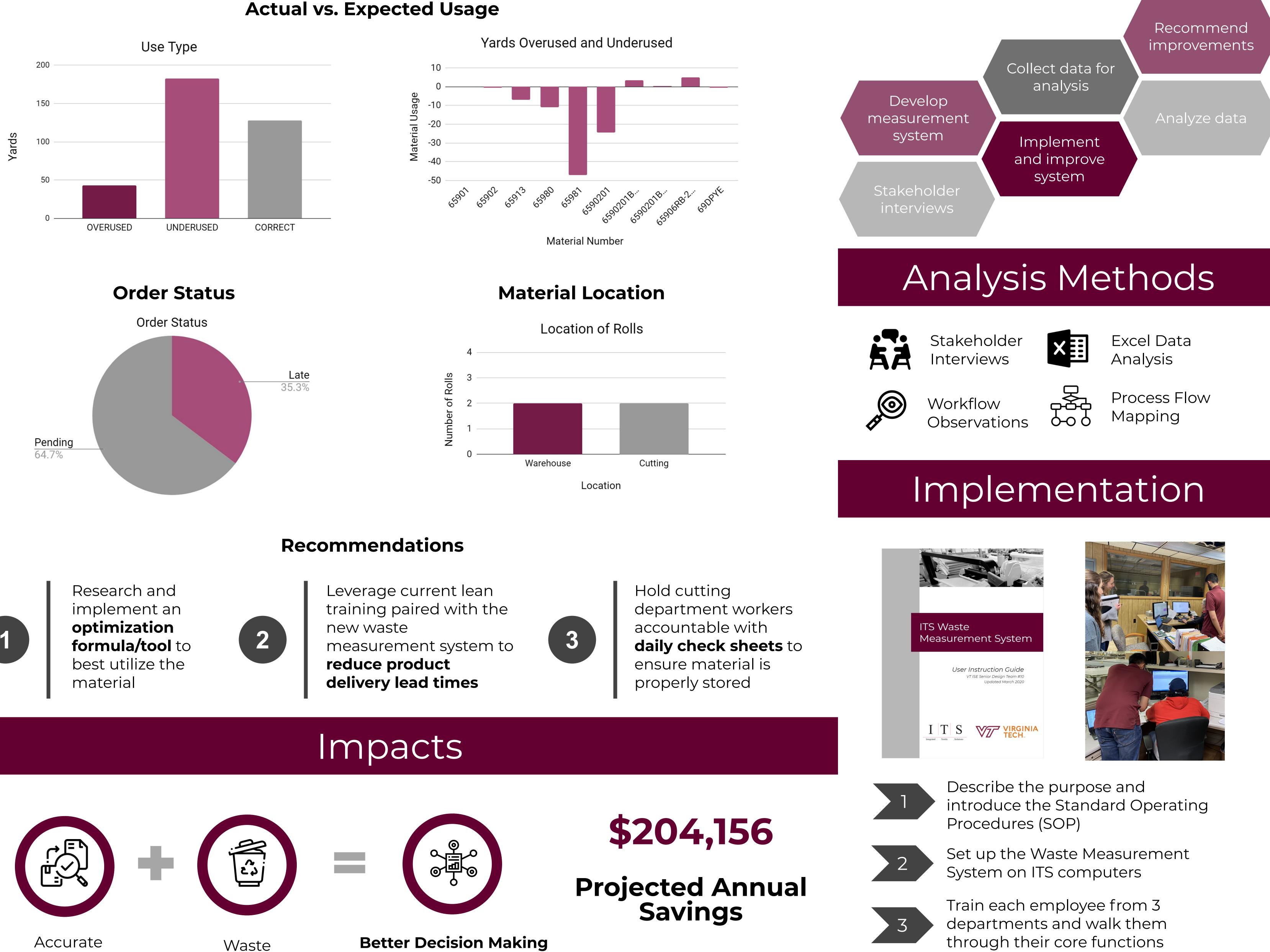


Create and implement a data analysis tool that accurately and clearly conveys losses



Provide recommendations for the elimination of waste in the facility





and Framework for Future **ERP System** 

Note: Annual Savings estimated on material and labor cost per yard

# VIRGINIA TECH

Faculty Advisors: Dr. Konstantinos Triantis, Dr. Taylan Topcu

## Approach

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Address questions and/or concerns any of the employees may have