# IPRO 305: Trailer Loading Optimization Group
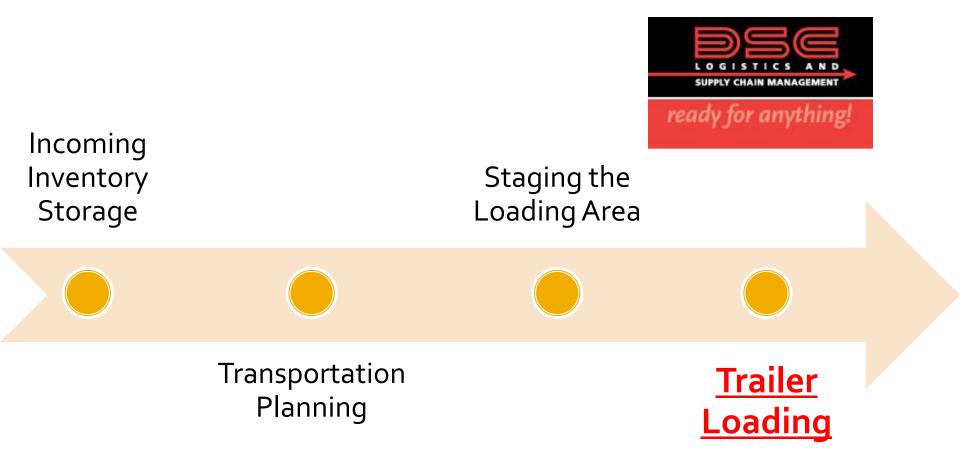
**Advisor: Herb Shields**

**Sponsor: DSC Logistics**

# Problem Statement

Incoming Inventory Storage

Staging the Loading Area

Transportation Planning

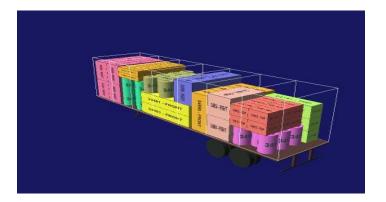**Trailer Loading**

# Our Goal

- To provide an efficient software solution for

  DSC Logistics.

## Main Factors:



- Order Stops

- Weight Distribution

- Orientation/ Stack-ability

# Team Structure

**Research Team**
- **Xingshuo Liu (Sub Team Leader)**
- **Nixalkumar Patel**
- **Nuntana Buakong**
- **Parth Shah**
- **Tom Pekalski**

**Technical Team**
- **Donald Taylor ( Sub Team Leader)**
- **Robert Veitch (Team Leader)**
- **Benjamin Hinshaw**
- **Prashanthan Surendran**
- **Sean McKeever**

# Progress

- Visited DSC

- Started work on the

  algorithm

# Obstacles & Challenges

- Privacy of the company

- Converting intuition into rules

- Adaptability of the software

- Cost

# Questions / Needs/ Requests