To design a transportation plan for the 737 MAX wingbox from Renton to Everett using the most efficient route and time of day. Deliverables include a transportation model, time recommendations, a process flow diagram, and a facility layout.

**Simulation Model**

"Simio" was used to model the transportation of the wingbox.

- Collect data from Google maps and cross validate with Apple Maps
- Shift data 11% to represent the speed of an oversized trailer
- Organize data to be inputted into Simio

**Data Collection & Process Flow**

Data was collected from Google Maps and Apple Maps spanning from 2023 to 2024.

- Collection Included:
  - One randomly chosen week from each month
  - Monday to Friday
  - North and south on both I-5 & I-405
  - 18 Hours excluding WSDOT
  - 6am - 9 am | 3pm - 6pm

**Results & Recommendations**

- Create experiments in Simio to send the trailer every hour in a 24 hours period.
- Examine results to determine best time of day to send the trailer.
- Determine most optimal route

- 63% Increased Throughput
- 737 MAX assembly line

**Impact**

With the results obtained we hope to deliver the wingbox in an efficient manner for the new North Assembly Line!