# Decoupled Capacity with Powerloop

**Motivation / Background**

**US Trucking Industry:**
- $730B market (TL)
- Driver shortage is creating illiquidity in the market and driving up rates

**Uber Freight’s Powerloop:**
- Improves carrier utilization by reducing time carriers spend at shipper facilities
- Dropped trailer pool program

How can shippers benefit from Powerloop?
- Improved warehouse operations
- Decreased accessorials fees
- Improved delivery performance
- Lower transportation rates
- Improved carrier experience at shipper facility

**Key Question / Hypothesis**

What benefit can shippers realize in accessorials fee savings and improved on-time delivery from using Powerloop?

**Initial Results**

**Current state**

- Shipper A
- Travel time
- Receiver B
- 3 hrs line audit

**Powerloop (Drop-Drop Scenario)**

- Drop trailer
- On-time pickup rate = 100%
- Travel time

**Expected Contribution**

- Provide insights about the impact Powerloop has on shipper’s cost and performance
- Create a model to generate the future state expected accessorials savings and on-time arrival rates a shipper can expect from using Powerloop

**Methodology**

- Data Gathering
- Data Cleaning
- Expert Interview
- Discrete-event Simulation

**Challenges**

- Connecting the multiple loads of each Powerloop from a data perspective
- Accounting for driver service hours in the simulation model

**Relevant Literature**


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