Iowa Freight Advisory Council

Doug Martin // Amazon // DSM5

Friday, December 10, 2021
SSSPacer

- **Safety** - Push in chairs
- **Standard Work** - Raise your hand if you have a question and participate in the presentation
- **Sustainability Tip** - Turn off the lights when you leave the room
- **DEI Tip** - Use People's preferred Name
- **Success Story** - Amazon’s Iowa Footprint
Agenda

- Introduction
- Overview of the Amazon Supply Chain
- Building type overview
- Fulfillment Center Deep Dive
  - Fun Facts
  - Product flow
- Amazon’s Iowa Foot Print
- What Can the Label tell me about the Journey?
- Amazon’s Supply Chain Statistics and future
Doug Martin Introduction

- Who Am I and what do I do?
- Time with Amazon- 5 Peaks, 4 primes
- Sort Centers (Final and Middle Mile) and *Fulfillment*
- 11 years in the Rail Industry
- Fun Fact
- Disclaimer
Amazon Transportation Services – Middle Mile
Amazon Building Types

- **IXD’s**
  - 22 in North America
  - Full time employees
  - Product Placement
  - Vendor Product in, Totes or pallets out
  - 53 Ft trailers-Outbound

- **Fulfillment Centers**
  - Various types
    - Amazon Robotics (AR) - 65 buildings
      - Differ in capacity and internal structure
    - Non Sortable - 53 buildings
  - Product storage and fulfillment
  - Full and PT employees
  - 53ft trailers IB and OB

- **Sort Centers**
  - Full and Part Time employees
  - Boxes in Boxes out
  - Can operate between 8 and 24 hours depending on volume
  - Various transportation methods used depending on next destination

- **Deliver Stations**
  - 800 buildings Globally
  - Full and Part time employees
  - UTR and OTR org’s
  - Various transportation methods used
    - DSP’s and Flex
Why does Amazon need so many buildings?
DSM5 Fun Facts

- Enough structural steel to build the Eiffel Tower THREE times!
- 640 operational footprint, 4 floors = 2.5MMsq ft. = fit 12 footballs fields inside building
- ARS - 4k drives/robots, 40 MM inventory, 1 MM IB & OB, older sides hold 27 MM inventory
- 13 miles of conveyance
Putting items into inventory

- Stowers
  - Pods come to them
  - The types of pods the get will depend on the type of inventory that they have on their station
  - Stowers place items into pods and the system registers what bin they put them in (touchless)
Amazon Robotics floor
Amazon Robotics floor

- Stations and Pod Queues

- Highways and ??
Amazon’s Iowa Footprint

- DSM5- Fulfillment- Bondurant
- DSM9- Sort Center- Bondurant
- DIA3- Grimes- AMZL
- Grimes- XL Center
- Ankeny- AMZL
- Davenport- Fulfillment- 2022
- Iowa City- AMZL
- DSM- Airport
What can my package label tell me about the journey?

- Origin Fulfillment Center
- Sort Center
- AMZL location (if applicable)
- Deliver by Date
- Final Destination
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Let's look at one more

- What Fulfillment Center did it come from?
- Where is it going?
- What Sort Center was used?
- What is different about the final mile delivery?
Amazon Fleet Information

- Port of entry capacity- 50% increase from the start of the pandemic
- Air craft Fleet- 85
- Trailer Pool- 50,000
- 800 Delivery Stations (globally)
  - 260,000 Drivers
- 15 metro Areas- 5 hour delivery
- 100,000 Rivan vans on the road by 2030
- 700 CNG vehicles (Class 6 and Class 8)
Questions?