

# A New Strategy for Freight Rail

Prepared for:



Prepared by:

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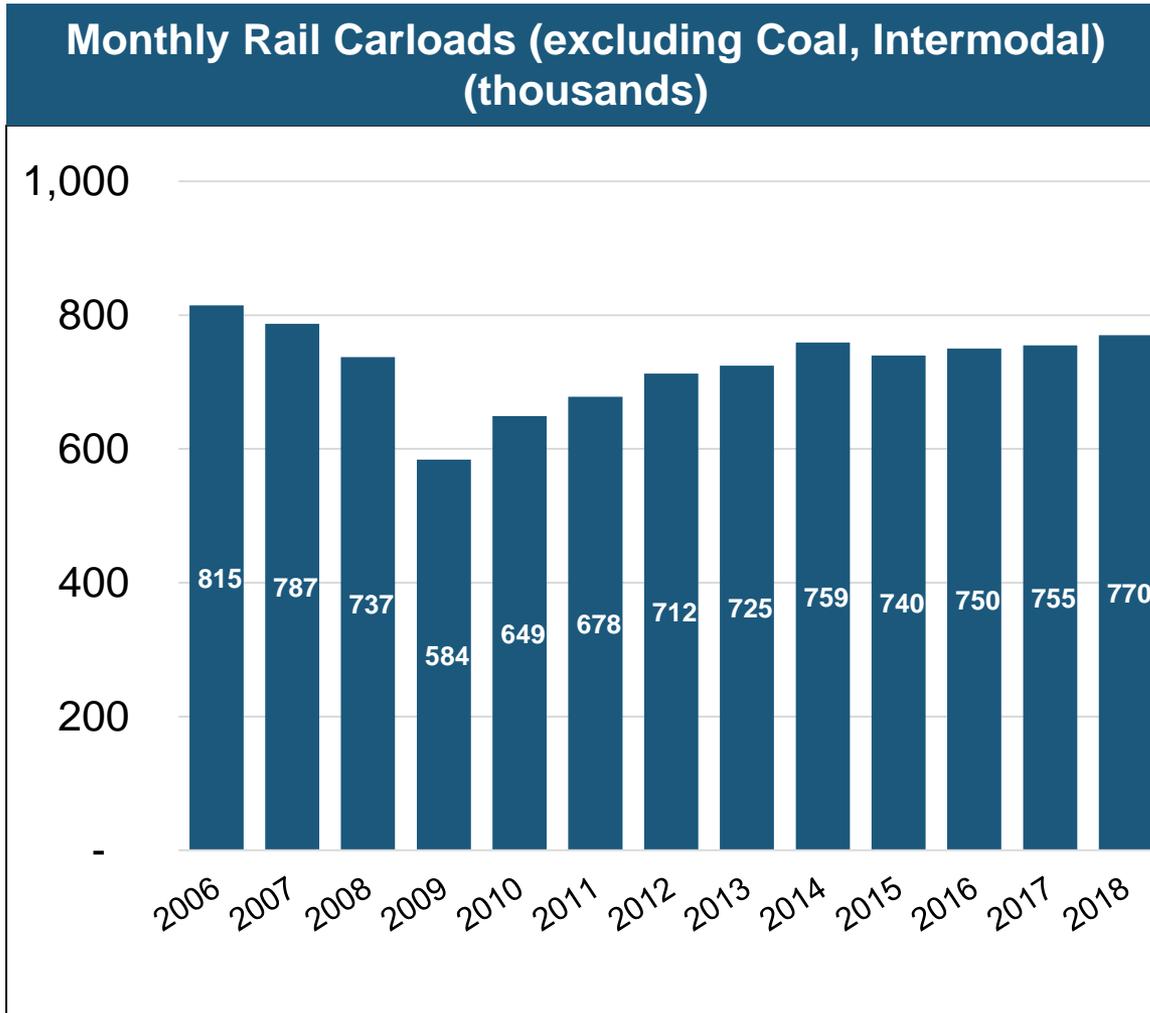
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# Agenda

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- **Historic Carload Volume Growth**
- Strategies to Grow Carload

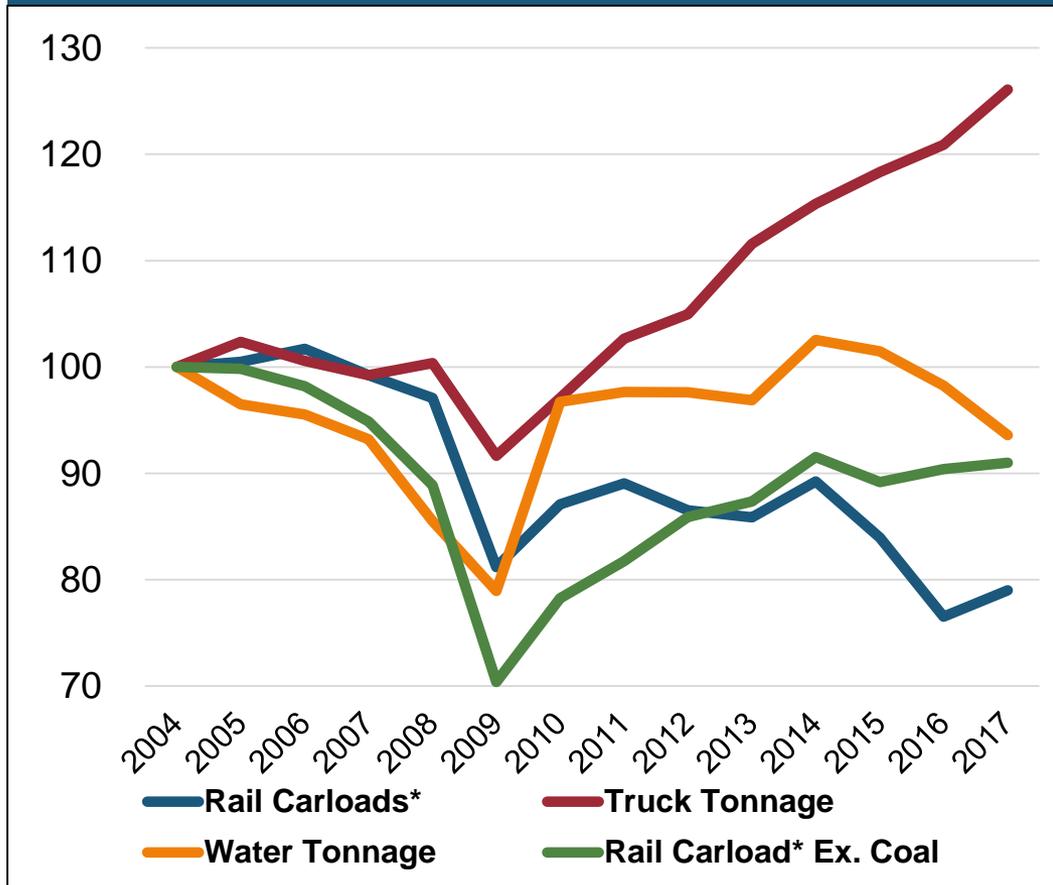
## Rail carload volume (excluding coal and intermodal) was relatively flat over the last several years, and is below 2006 levels



- 2018 carloads excluding coal and intermodal down 5.5% from 2006 to 2018
- 2018 growth 2.0% over 2017
  - Economic growth up 3.3% through 3Q, 2018
  - Truck monthly tonnage up an average of 7.1% through 10/2018
- 2014 to 2018 average annual carload growth of 0.4%/year

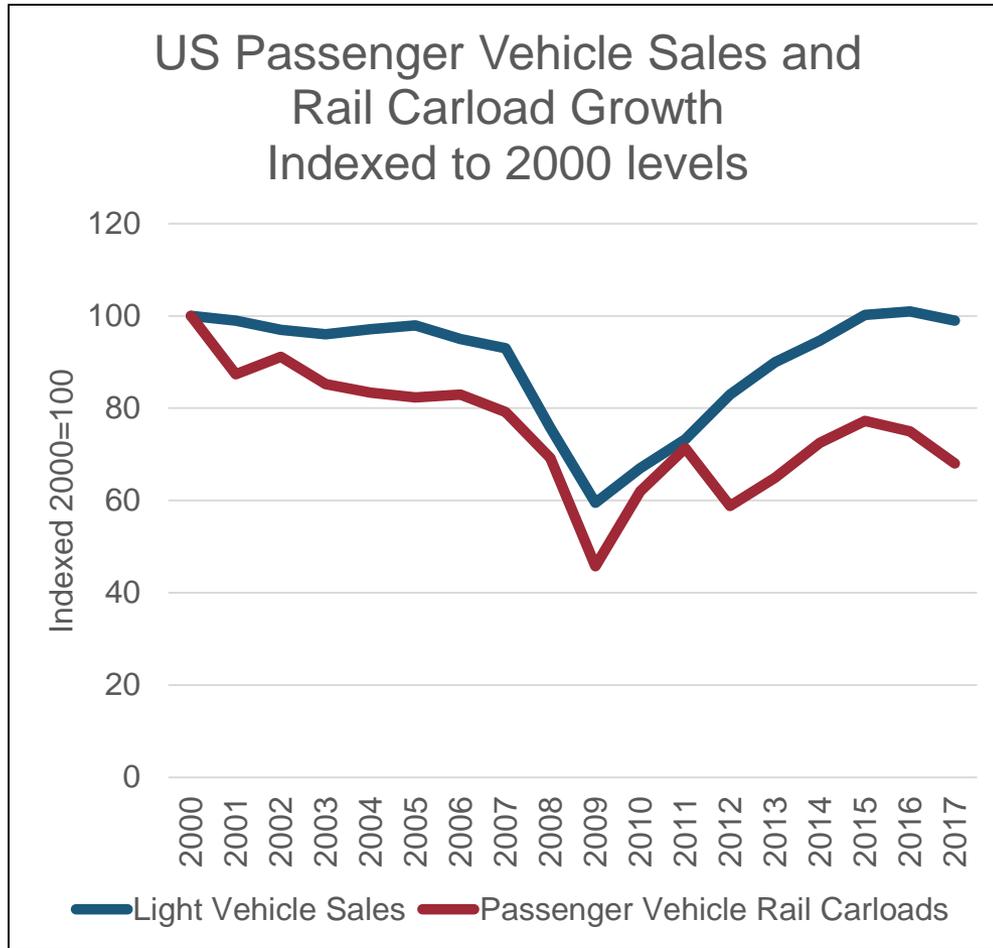
# Rail's share loss to truck has been accelerating since the Great Recession. It has also lost share to barge

**Indexed Volume Growth by Mode  
2004 Indexed to 100**



- Mid-2000's: Carloads tracked truck and outperformed barge
  - Driven by coal growth
  - Non-coal in slow decline
- Great Recession: Carloads took worst hit and never recovered
- 2014+: Carload decline accelerated
  - More than just coal

## Example – Passenger Vehicles: Down 32% in flat market

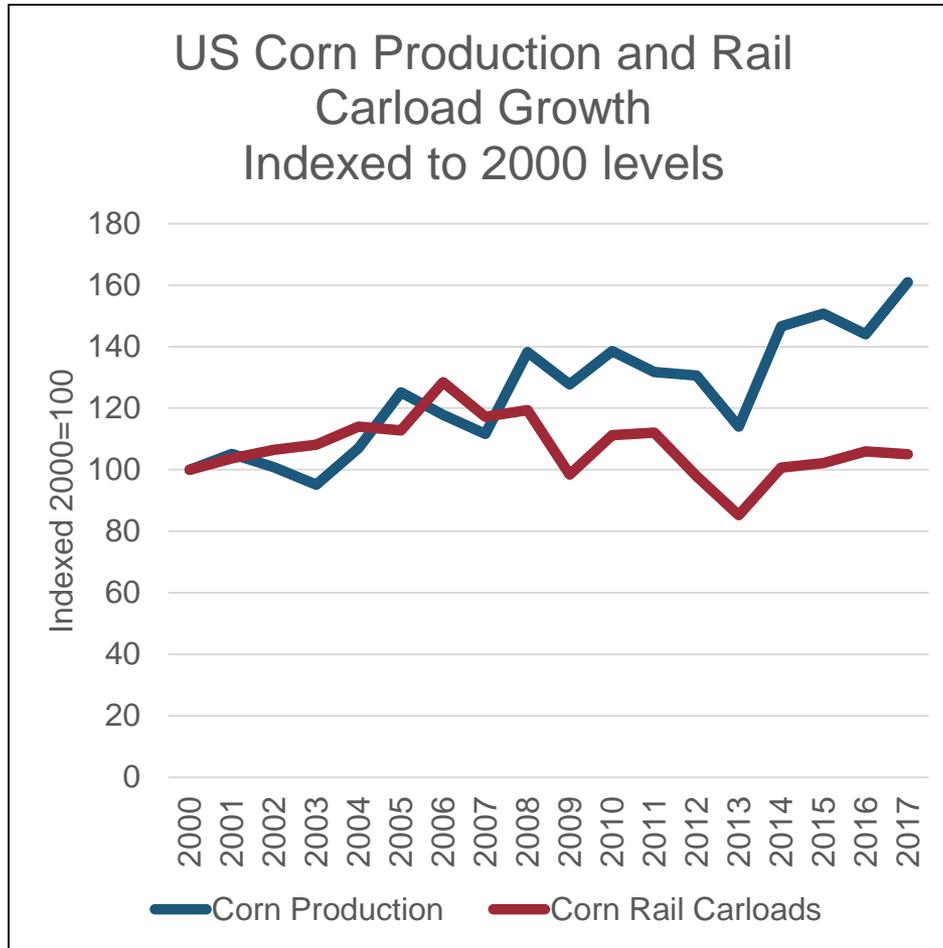


- Early 2000's: Rail lost share
- 2012: Volume declined 18% in an improving market
- Shift to haul-away trucking?
- Shift to water Mexico to East Coast?

**If rail held share – 233,000 addition carloads or \$1.5 B**

Source: Bureau of Economic Analysis; AAR Commodity database; TandLA analysis and estimates

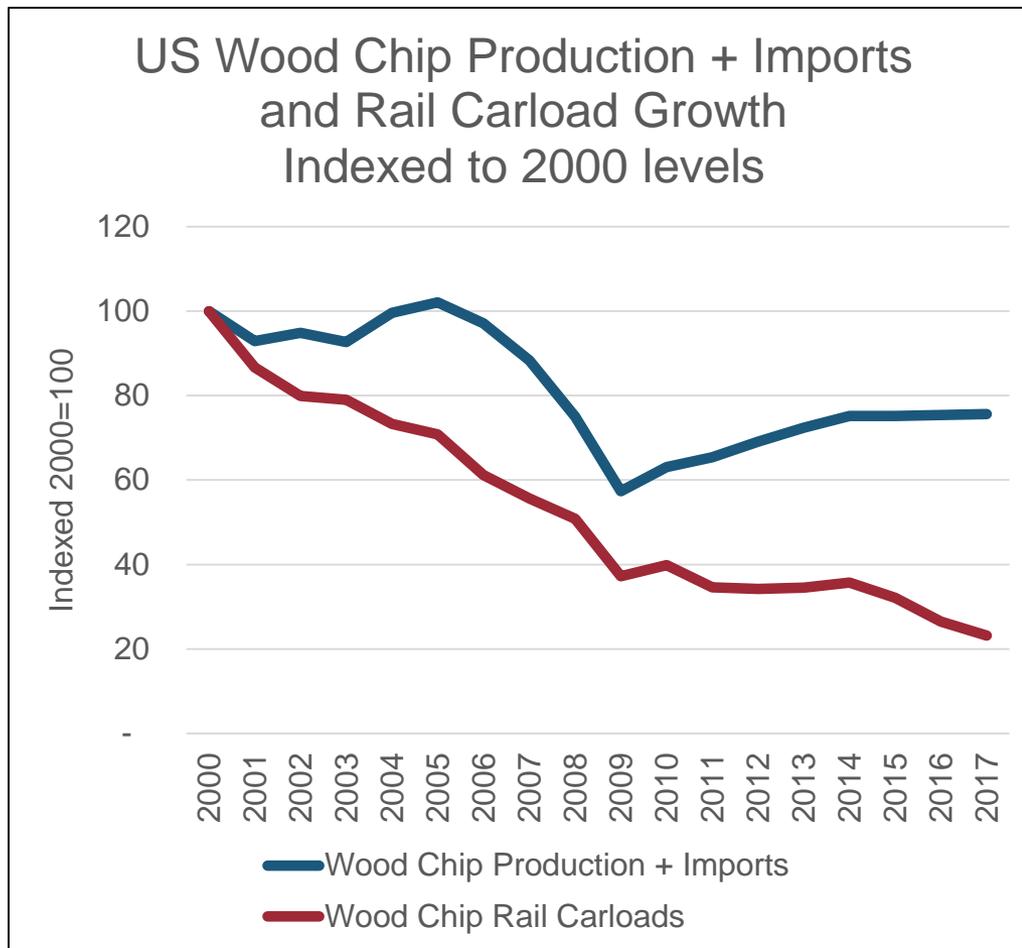
## Example – Corn: Flat since 2000 in a growth market



- 2000-2007: Rail held share
- Since 2007
  - Production up 44%
  - Carloads down 10%
- Loss of share to truck in domestic consumption markets?

**If rail held share – 355,000 addition carloads or \$1.3 B**

## Example – Wood Chips: Declined faster than production + imports

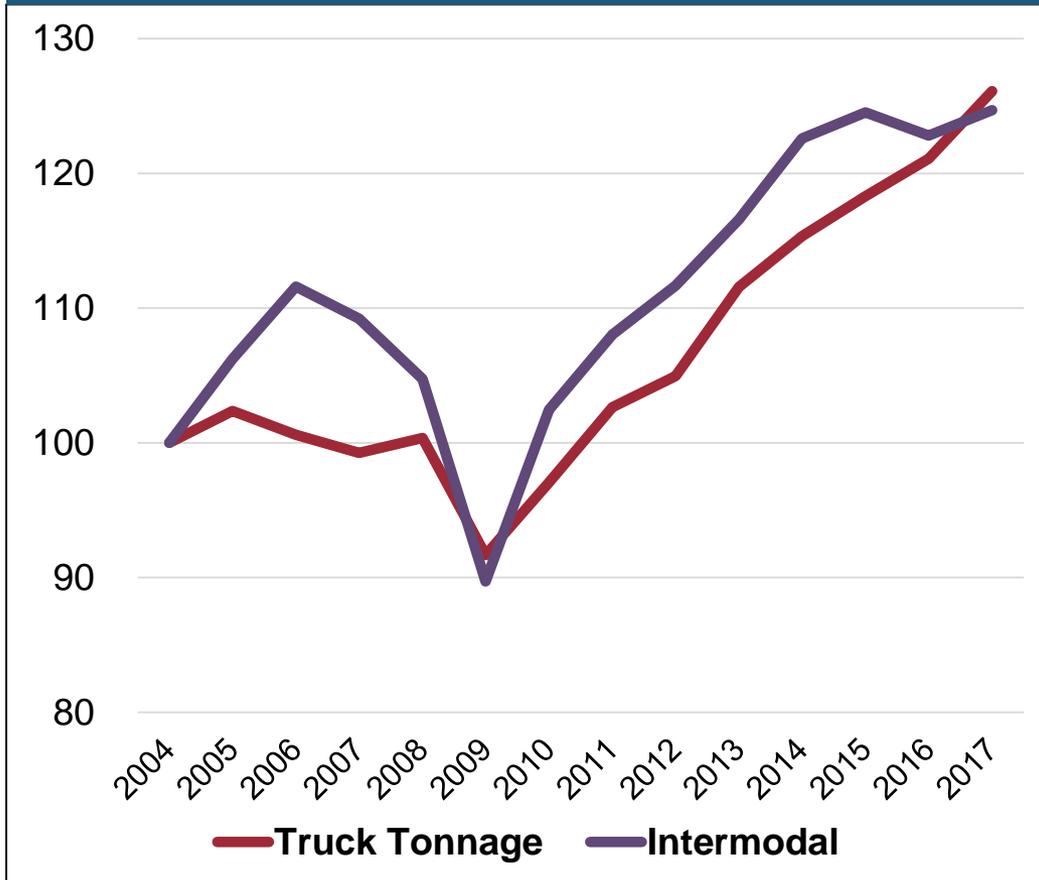


- 2000-2005
  - Production up 2%
  - Carloads down 29%
- 2009+
  - Production up 32%
  - Carloads down 38%
- Loss of share to truck?

**If rail held share – 102,800 additional carloads or \$140 M**

# Intermodal is not the savior - intermodal growth slightly outpaced truck 2004-2016, but gave back all share gains in 2016 and 2017

**Indexed Volume Growth by Mode  
2004 Indexed to 100**



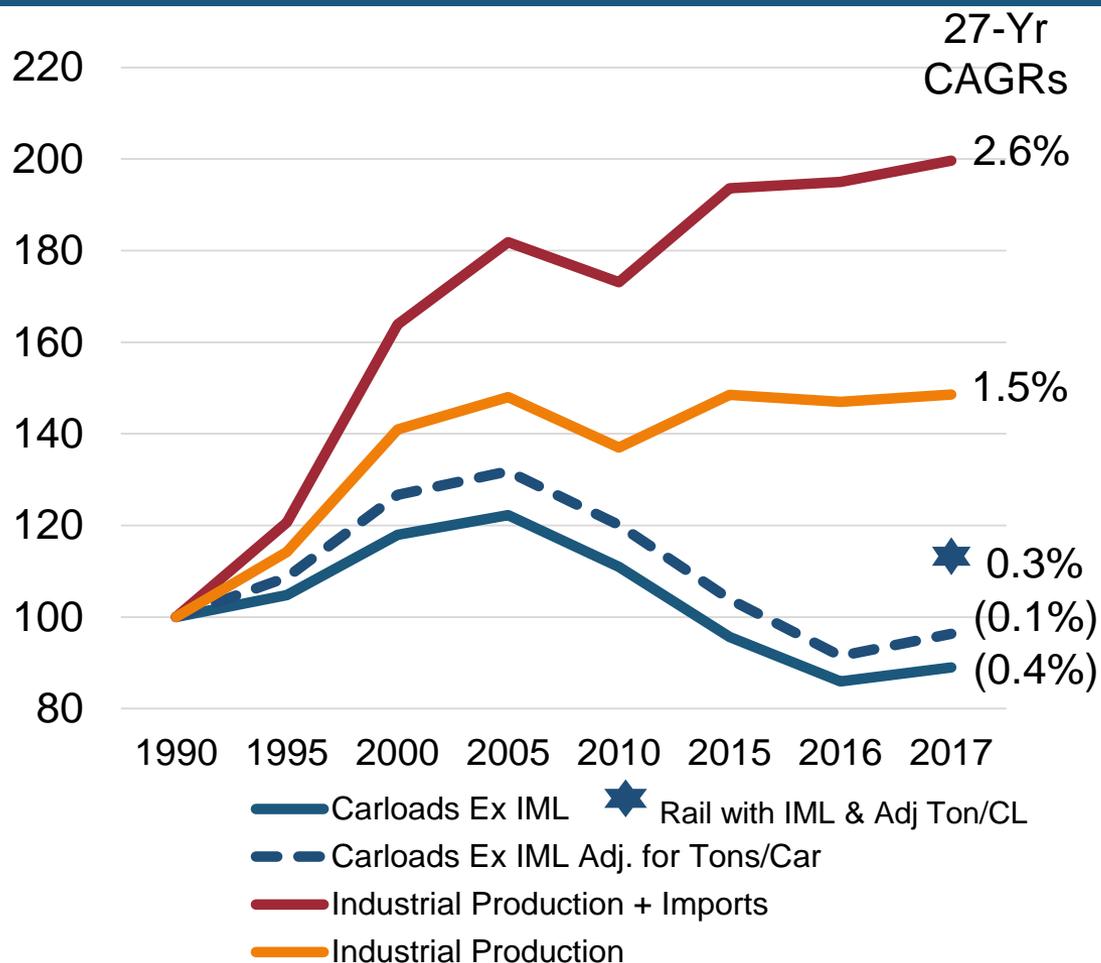
**CAGRs**

	IML	Truck
2004-2014	2.1%	1.4%
2014-2016	0.1%	2.5%
2016-2017	1.5%	4.1%

- Intermodal gave back share in the Great Recession
- Intermodal regained share in recovery, but...
- Gave back all share gains again in 2016
- 2017: Intermodal up 1.5%, truck up 4.1%

## Regaining lost share would be huge for rail

### 27-Year Growth Trends (1990=100)



- Carloads excluding intermodal down from 1990
- Tons/carload up 9% since 2000 – does not explain gap
  - 1990 tons/carload\*: 81
  - 2000 tons/carload\*: 87
  - 2015 tons/carload\*: 88
- Intermodal growth is not enough:
  - With intermodal growth, rail still grew at under 0.5% CAGR
  - Still down measurably since 2005

# Agenda

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- Historic Carload Volume Growth
- **Strategies to Grow Carload**

## What can rail do to address the declines in market share?

- To start with, the rail industry has a lot to work with
  - A growing cost gap versus truck
    - And it's getting greater every day!
    - ELDs, driver shortage, more expensive trucks/engines
  - The cost gap versus barge getting more attractive
    - The truck portion of a barge move is one driver
    - Distributed power and the potential to have loop track for loading and unloading
  - The financial resources have never been greater, at least not in my lifetime
    - Solid D/E ratios
    - Good bond ratings
    - Free cash flow
- And now with PSR, railroads the ability to have a viable base level of service reliability

## Rail carload volume growth requires a new paradigm

- But having a cost advantage, financial resources, and service consistency is not enough to on its own deliver consistent growth in today's world
- We are living in an “Amazon World” – they have redefined what “service” means
- The rules have changed, the buyers have changed, the competitors have changed
  - The rules
    - From the transportation buyers perspective more and more the low cost supply chain is losing out to a higher cost supply chain that adds value
    - The winning supply chain strategy is one that adds competitive differentiation
  - The buyers
    - Use to knowing choice for price and service instantly
    - Expect on-time delivery every time
  - The competitors
    - Asset light competitors
    - Blends of assets and technology

## Amazon is an example, but not the only one

- Now the approach is to use the supply chain as a strategic weapon
- Amazon has for years increased its supply chain costs faster than its revenues – by choice
  - The reason is that by adding and committing to new higher service levels they offer services that their customers value
    - These new service levels cost more than the recovery charge for the service
      - Guaranteed 2 day delivery
      - Same-day
  - Why are they doing it – because their scale allows them to do so at one level of added costs, while for all of their competitors the cost to match it is prohibitive
- Other examples as well
  - Hello Fresh and Blue Apron offering home meal kit delivery – a very expensive model to get food to homes
  - Grocery home delivery growing quickly
- Supply chain is becoming integral to the corporate strategy, it is no longer just find the lowest cost way to deliver that is made

## The buyers have changed – they have grown up in a different culture

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- They are used to knowing all of the choices for price and timing instantly
- On-time delivery is assumed
- They expect to know every aspect of their transaction in real time and be able to access it at any time from wherever they are, on any device
- Send it wherever I want, whenever I want, and change the destination to wherever I want it to go at any time

## The competitors have changed

- Many of the highest growth and highest financial return competitors have no assets, others blend assets and technology to make new offerings
  - They add value in different ways – all technology based
  - They create and offer both “productized” offerings (like truck brokerage and transportation management) and also customized offering tailored for a customer
- They also are creating new offerings that are industry specific
  - Examples? There are a lot of them!
    - World Courier for clinical trials
    - Acertus for automobiles

# To win, rail has to utilize the assets and resources it has to develop new products that add value to today's customers and that has to be more than make a low cost supply chain

- This will require innovation and new product development
- So where can rail look to growth with new services?
  - Anyplace
    - Rail carload market share has been declining in many if not most markets
    - Intermodal's market share has not grown either
  - What is needed is to pick a market segment and understand their needs (beyond low cost) and develop a product for them that adds value for them
- What are the rewards?
  - Growth for one thing – there is so much opportunity
  - Higher margins, as these new service products will not be low cost driven
  - Arrest of the share erosion before rail becomes irrelevant and eliminated in market segments

## What might it require or include?

<b>An End to End Solution</b>	<b>Going Beyond Normal Boundaries</b>
<ul style="list-style-type: none"><li>• Multi-modal</li><li>• Incorporates technology</li><li>• Likely to include partners</li><li>• Seamless to customer, including tracking</li><li>• Behave more like a 3PL, less like a transportation provider</li></ul>	<ul style="list-style-type: none"><li>• Manage customer's inventory?</li><li>• Provide full supply chain management?</li><li>• Become a distributor?</li><li>• Solutions may be different by segment</li></ul>
<b>Be Something Customers Can Buy</b>	<b>CapEx May Be Required</b>
<ul style="list-style-type: none"><li>• Carload is difficult to price out – no published rates, doesn't fit in supply chain planning tools</li><li>• Improve reliability, order to delivery</li><li>• Re-think order quantities – can rail go smaller?</li><li>• Sell through new channels?</li></ul>	<ul style="list-style-type: none"><li>• May require automated loading/unloading, loop tracks, new railcars, destination storage</li><li>• Get railcar utilization up</li><li>• Technology is a must</li><li>• Determine who should own assets later – there is \$ out there</li></ul>

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