

# A Freight View of the Economy

Is It Too Early to Declare Victory?



**Jeff Kauffman**  
[jak@verticalresearchpartners.com](mailto:jak@verticalresearchpartners.com)  
203-344-7130

# Current Environment

- **The economy is not currently in a Recession...or is it?**
  - Truckers say yes, but our overall indicators say 'not yet'
  - Business profits are still growing at a 7% rate – no 'profits recession' yet
  - Businesses continue to hire, unemployment is low – some layoffs in consumer/tech
  - Consumer credit remains viable
  - Some companies maintain this is only an 'inventory correction'
  - Many point to a potential re-acceleration of China-driven global growth
- **But...velocity is slowing**
  - The rate of economic growth has slowed (ex inventory GDP growth remains positive)
  - Consumer disposable income has declined on 7% inflation – consumer trade-down is beginning
  - Business conditions and activity has seen some decay
  - Wealth has declined with the stock market pullback
  - Stimulus programs are fading
  - Leading sentiment indicators are increasingly entering bearish zones...productions indices may follow

# Current Environment

- **Truck industry 'trip wires' are being triggered**
  - ISM below 50
  - Leading economic indicators are now in negative territory
  - Yield curve inversion
  - Weight per shipment down in LTL
  - Empty miles rising in Truckload
  - Truck rental utilization heading south
  - Gains on equipment sales are declining
  - Truck industry margin deterioration
  - Spot rate weakness leveling out, but contract rates will decline in 2023
- **'Trip wires' yet to be triggered before the gang is all here...**
  - Industrial Production not yet negative
  - Corporate Profits not yet negative growth
  - Equipment order cancellations haven't risen above 4% of backlog

# 4Q 2022 Earnings Reports for Freight/Logistics Companies

Sector Medians	Units	Yield	Util	Aggregate	Revs	Labor	SG&A	Pur Tran	Op Exp	bp chg	Margin	Change	Incr Mrg
On Demand Delivery	27.0%	12.8%	16.5%	17.7%	30.5%	59.7%	22.4%	88.0%	28.5%	500	7.3%	NM	27.9%
Truck OEMs	8.4%	17.6%	26.1%	30.2%	32.8%	28.9%	11.5%	15.1%	27.7%	470	9.6%	97.1%	27.0%
Final Mile	(11.0%)	25.8%			12.6%				12.9%	160	5.0%		
SCS & VAWD					31.0%				34.5%	90	3.7%	104.0%	8.9%
Less Than Truckload	(8.4%)	15.5%	(1.7%)	(8.4%)	6.1%	1.0%	33.2%	(13.6%)	5.0%	60	12.4%	5.3%	26.1%
Brokerage/BCOs	(5.5%)	(17.0%)			(11.2%)	21.6%	2.4%	(16.6%)	(11.8%)	0	5.7%	(4.9%)	7.3%
Parcel	(7.4%)	6.4%			(1.0%)	0.1%	36.4%	(15.4%)	0.3%	(125)	9.8%	(17.3%)	38.1%
Truckload	(4.5%)	3.0%	12.2%	8.0%	5.7%	5.6%	106.3%	(3.4%)	10.9%	(150)	7.1%	(6.3%)	(12.4%)
Dedicated	(5.7%)	15.0%		8.9%	18.5%				16.7%	(160)	8.6%	29.5%	9.8%
Intermodal	(10.5%)	12.5%	431.0%	11.3%	(1.0%)				5.9%	(160)	8.6%	(15.4%)	14.5%
Railroad	1.6%	11.2%	(1.8%)	(0.6%)	14.6%	7.9%	53.1%	16.0%	19.8%	(235)	39.1%	5.7%	22.1%
Rideshare	13.8%	12.0%	27.8%	31.3%	25.0%	40.5%	37.0%	(6.0%)	26.5%	(325)	6.7%	76.0%	66.4%
Forwarding	(51.3%)	(42.7%)	(3.3%)		(48.1%)			(55.1%)	(46.3%)	(400)	2.8%	(80.8%)	10.5%

Source: Company Reports, Vertical Research Partners

# Current Environment

## What Could Make This Better

- Credit and balance sheets in strong condition
- Most anticipated downturn in recent history is managed proactively
- Fed tames inflation faster than expected, lower expectations for rates prove accurate
- Inventories correct, growth resumes
- Energy and commodity prices decline
- Housing/shelter costs moderate
- China tensions moderate
- China growth spurs European, US exports

## What Could Make This Worse

- Political mismanagement of the debt ceiling negotiations
- Inflation remains stubborn, Fed continues to raise
- High rates finally break the consumer
- Chinese growth drives commodities higher
- Expansion of the Russia/Ukraine conflict
- COVID/other health risk resurgence
- China/Taiwan tensions rise
- Trade wars

# Macro & Cycle Thoughts

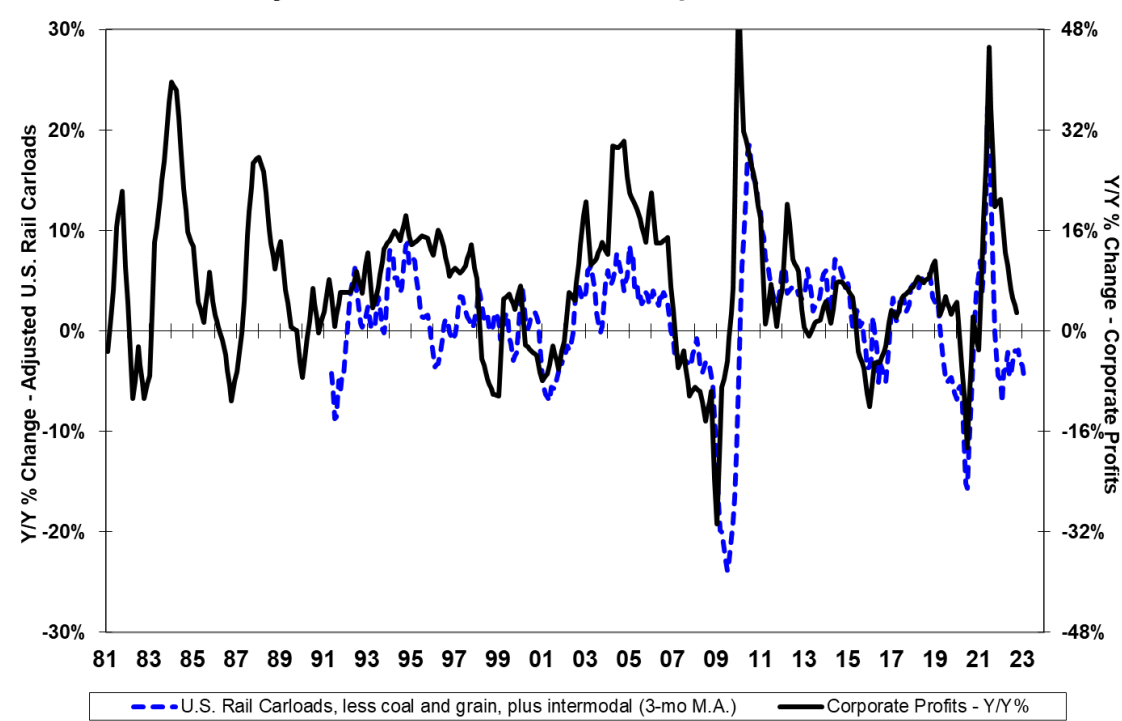


Source: Photo Stock

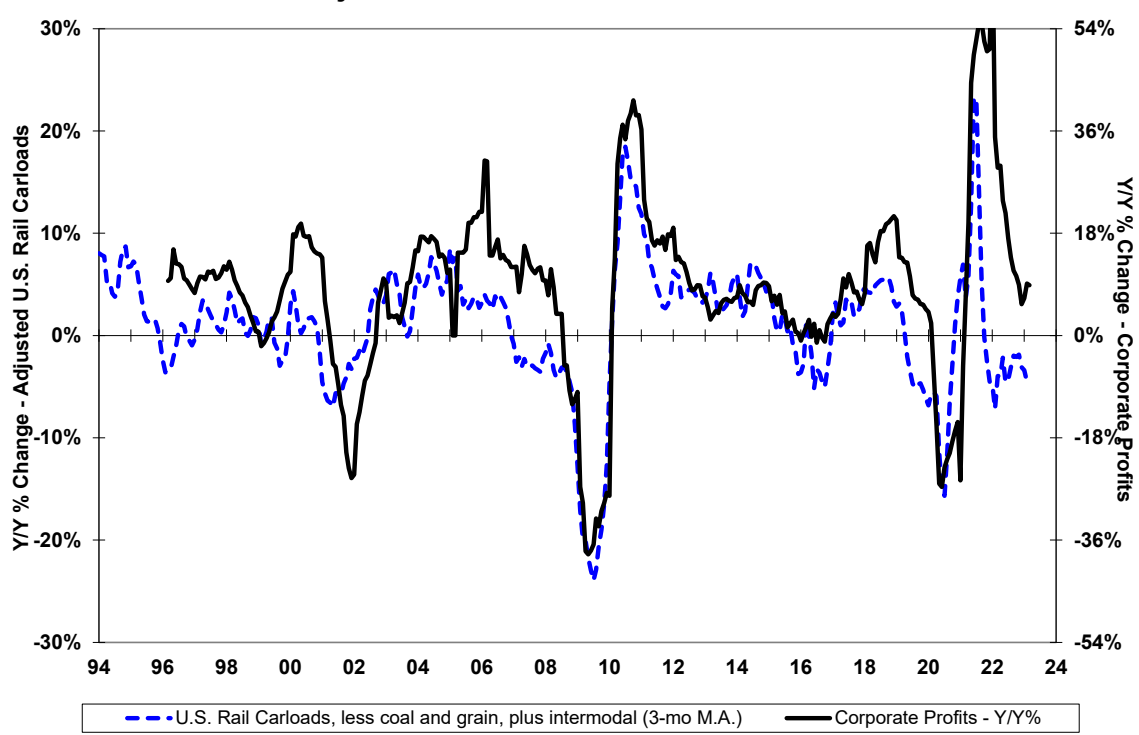
# Corporate Profits Are the Key – and They are Growing More Slowly

Corporate Profits Drive Labor Demand, Capex, T&E, and Services Spending

Adjusted Rail Carloads vs. Corporate Profits



Adjusted Rail Carloads vs. S&P 500 Profits



Source: Vertical Research Partners, American Association of Railroads, Bloomberg

# The Pending Downturn

- **Right now we are dealing with ‘mostly’ an inventory correction – we expect broader slowdown later**
  - Consumer changing from spending on goods to spending on services & experiences
  - Real slowness in housing, tech spending, and advertising
  - Industries correcting inventories are chemicals, retail, manufacturing
  - Industries that are strong or rebuilding are automotive, aggregates/construction, and truck OEs

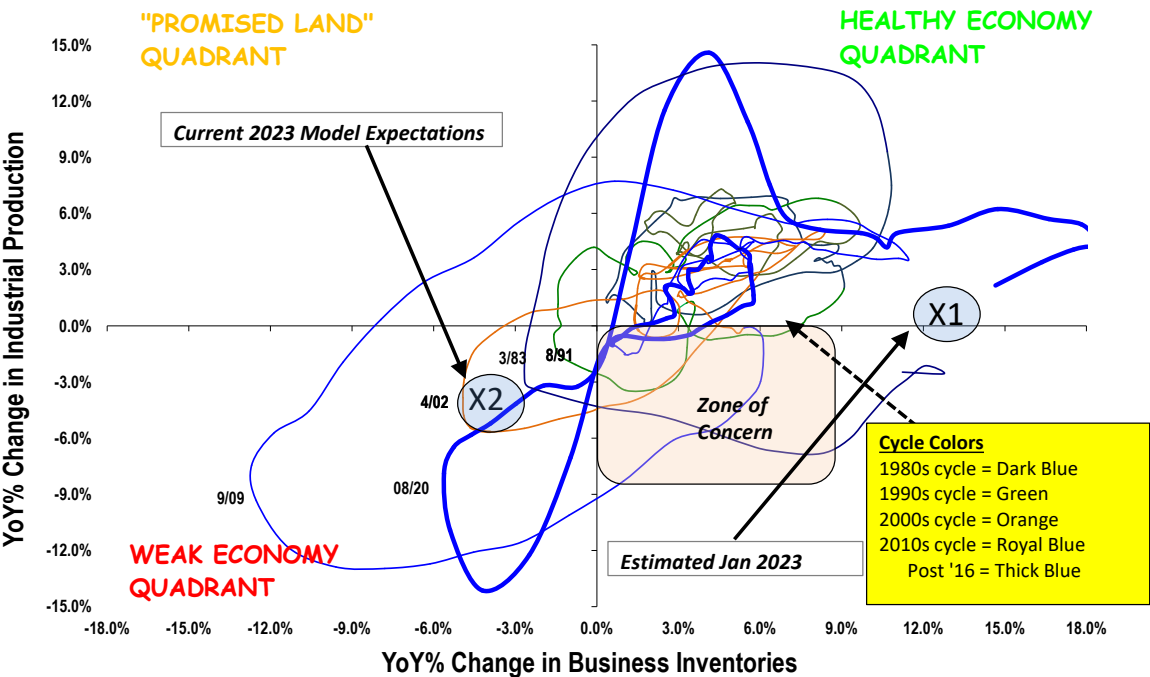


# The Pending Downturn

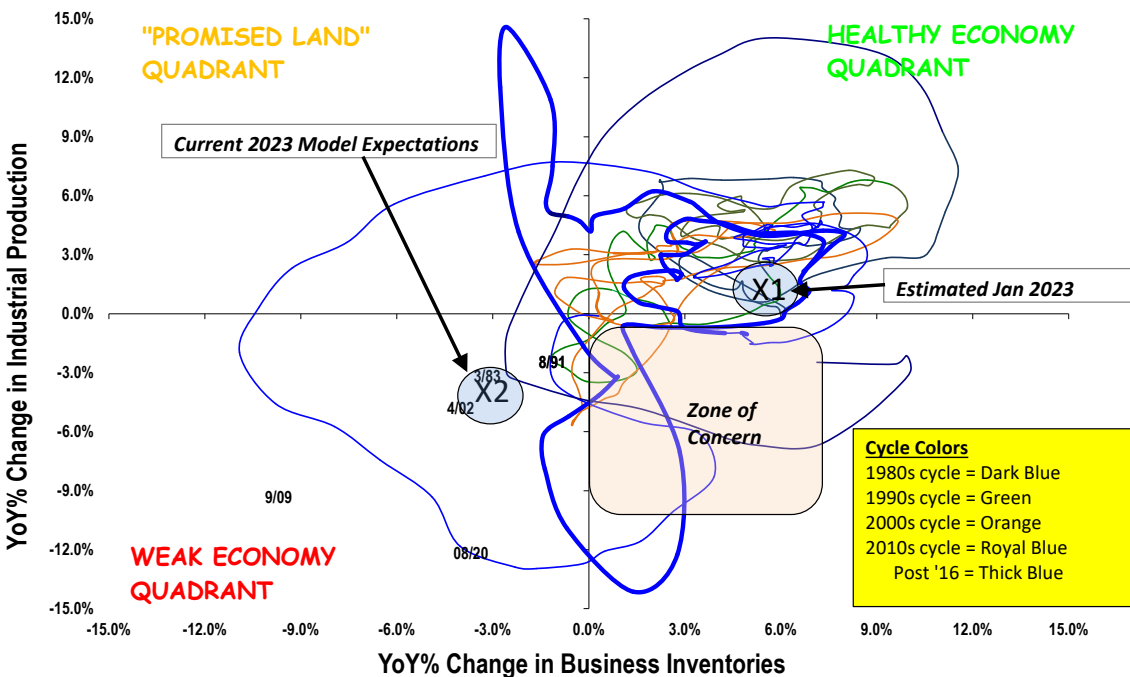
- **The path of the economy depends on three interconnected elements and one unconnected event**
  - The path of inflation – it appears to have peaked, but at what pace will it reduce ?
  - The ability of the FED to slow the labor market without killing too much growth
  - The behavior of consumer spending during the slowdown
- Can our politicians reach an agreement on the 'Debt Ceiling' before something bad happens ?

# Which Inventory Figure Should We Believe?

Business Cycle Roadmap (where we are in growth cycle)

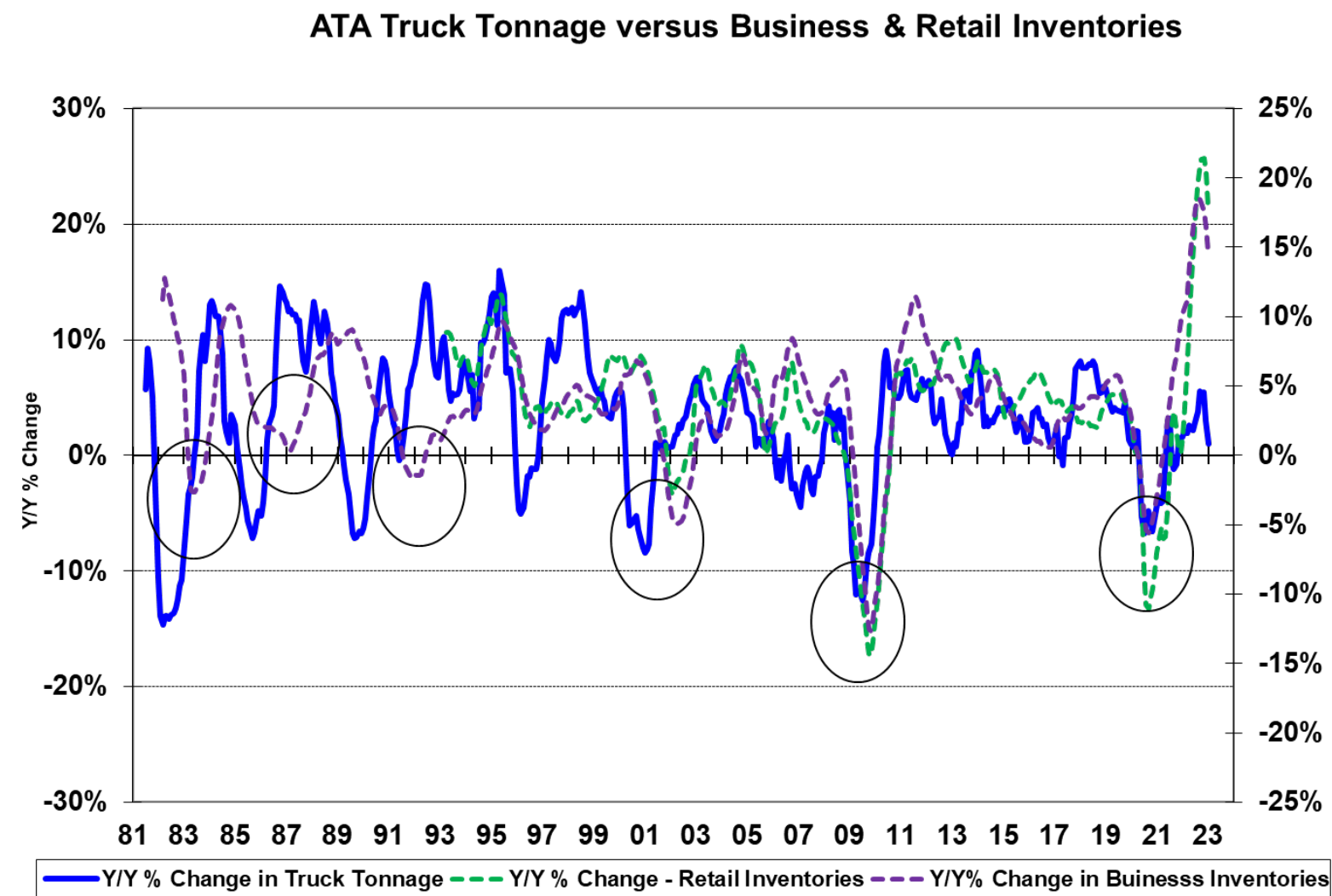


Inflation Adjusted Business Cycle Roadmap (where we are in growth cycle)



Source: Vertical Research Partners, Department of Census, Federal Reserve

# Which Inventory Figure Should We Believe?

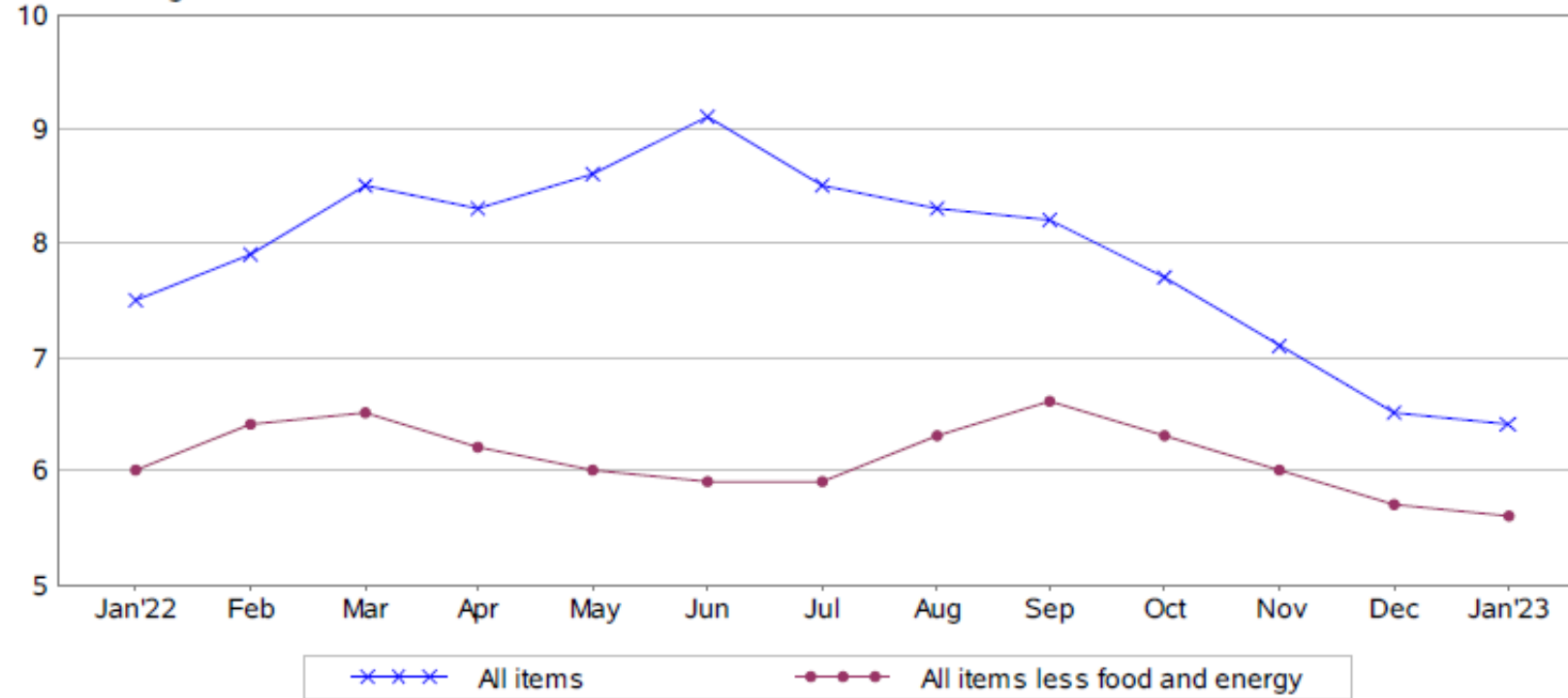


Source: Vertical Research Partners, Department of Census, Federal Reserve

# Inflation Drivers and Expectations

Headline CPI is down from 9.1% to 6.4%, but Core CPI has only moved down from 6.0% to 5.6% since May

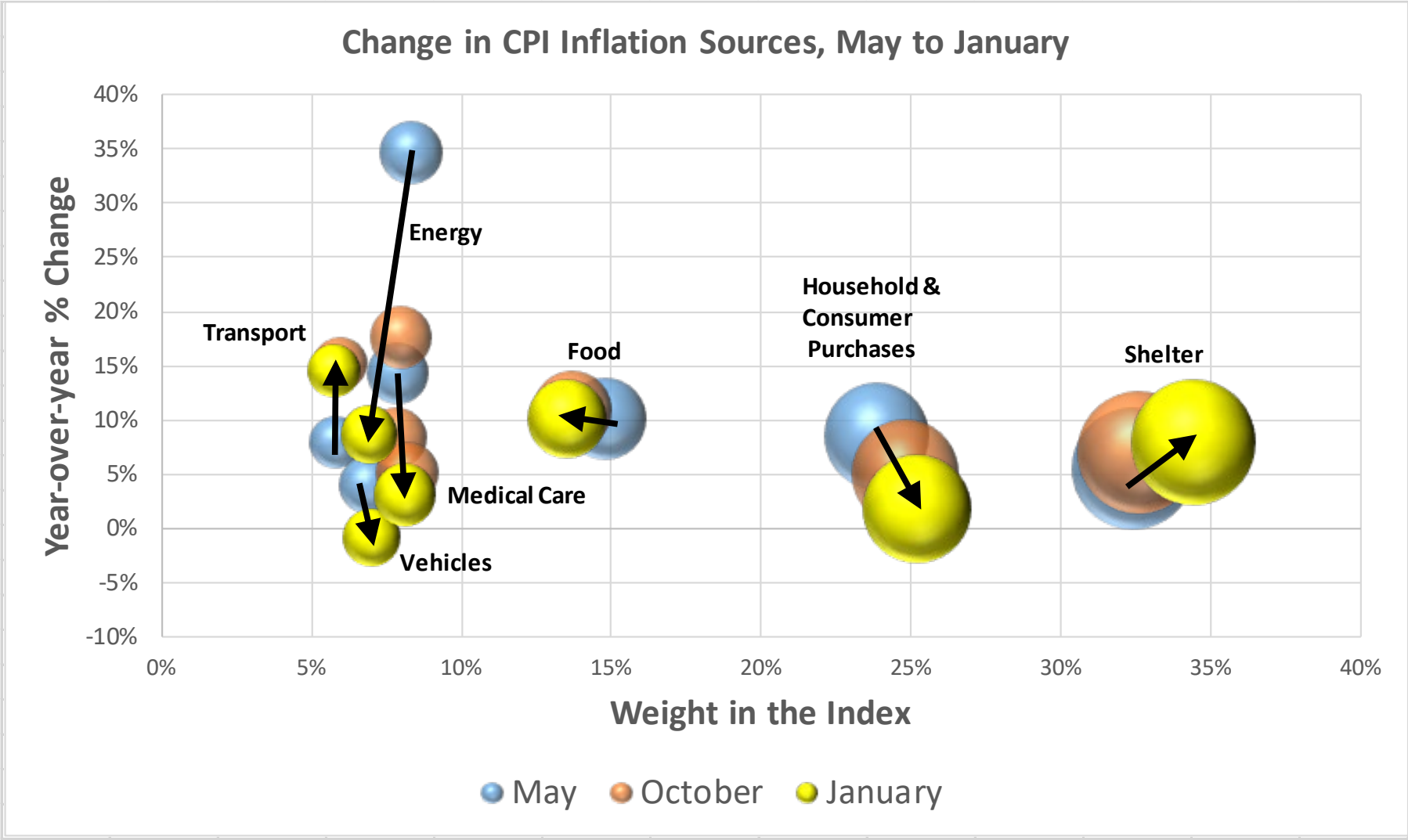
Chart 2. 12-month percent change in CPI for All Urban Consumers (CPI-U), not seasonally adjusted, Jan. 2022 - Jan. 2023  
Percent change



Source: Bureau of Labor Statistics

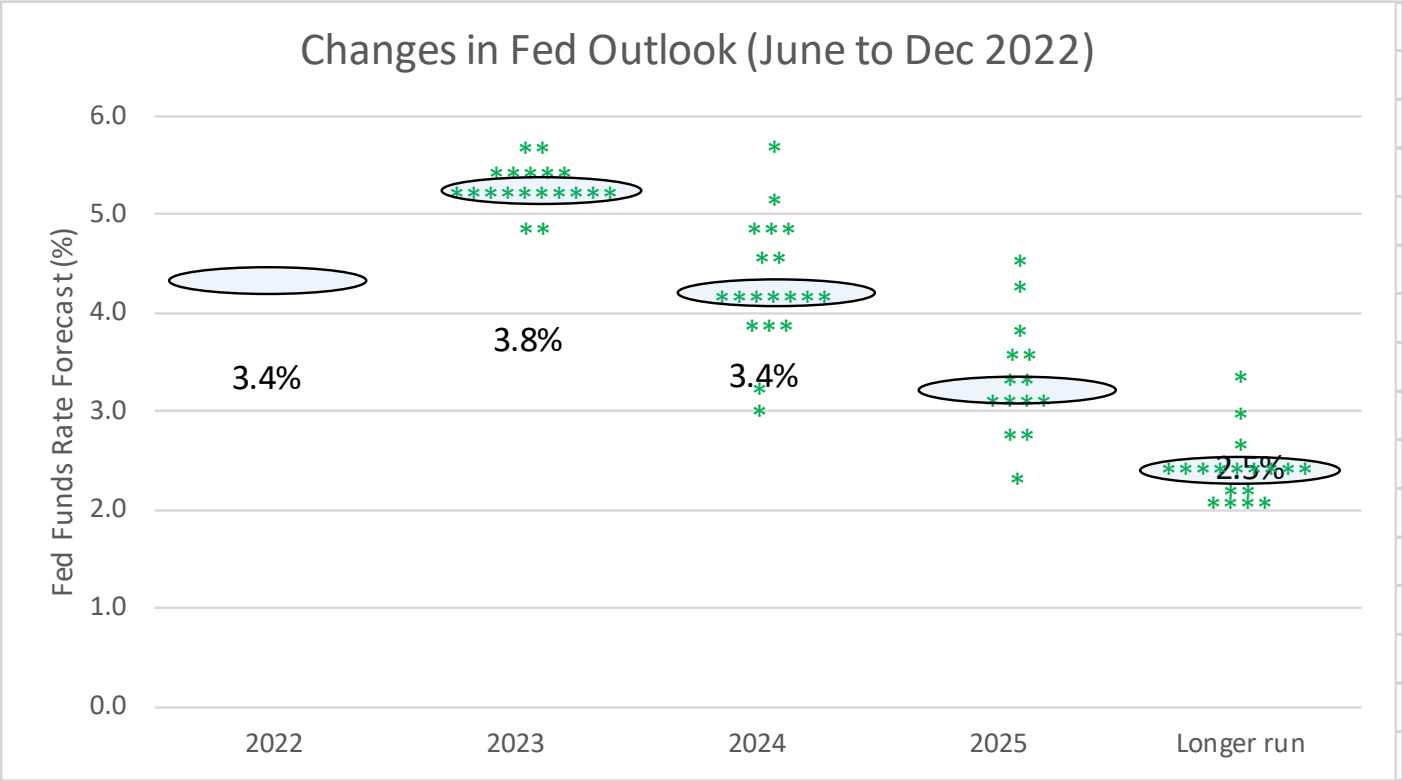
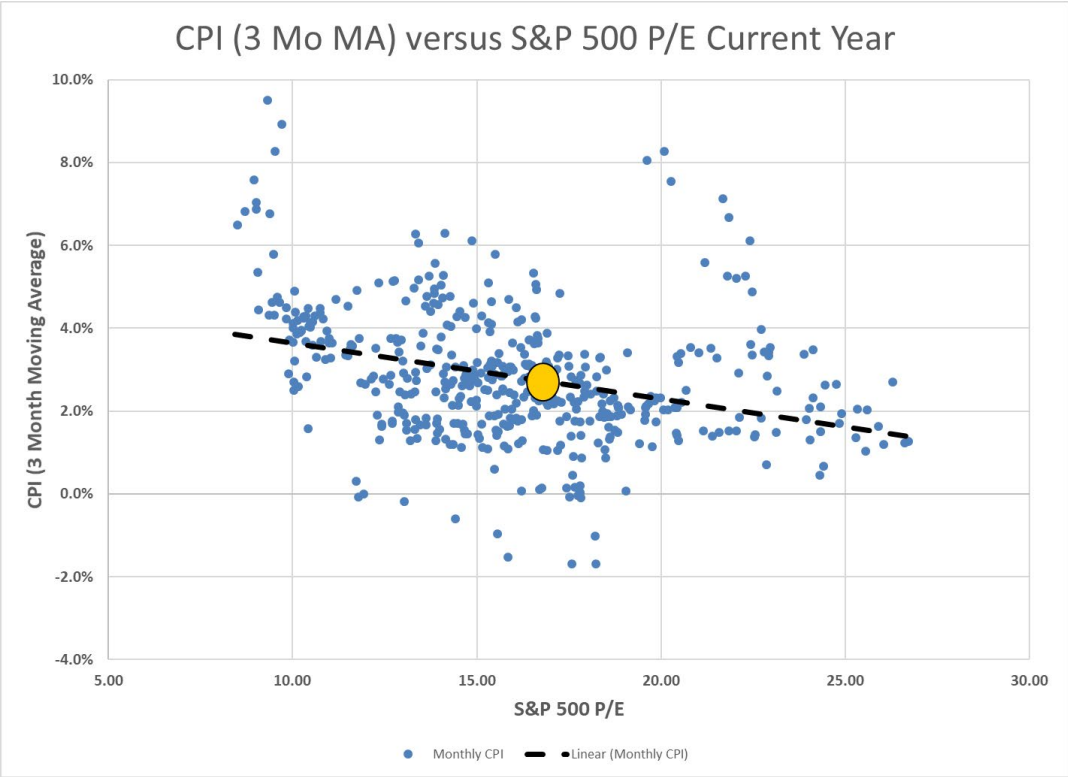
# Inflation Drivers and Expectations

Food and Shelter represent nearly half of the index



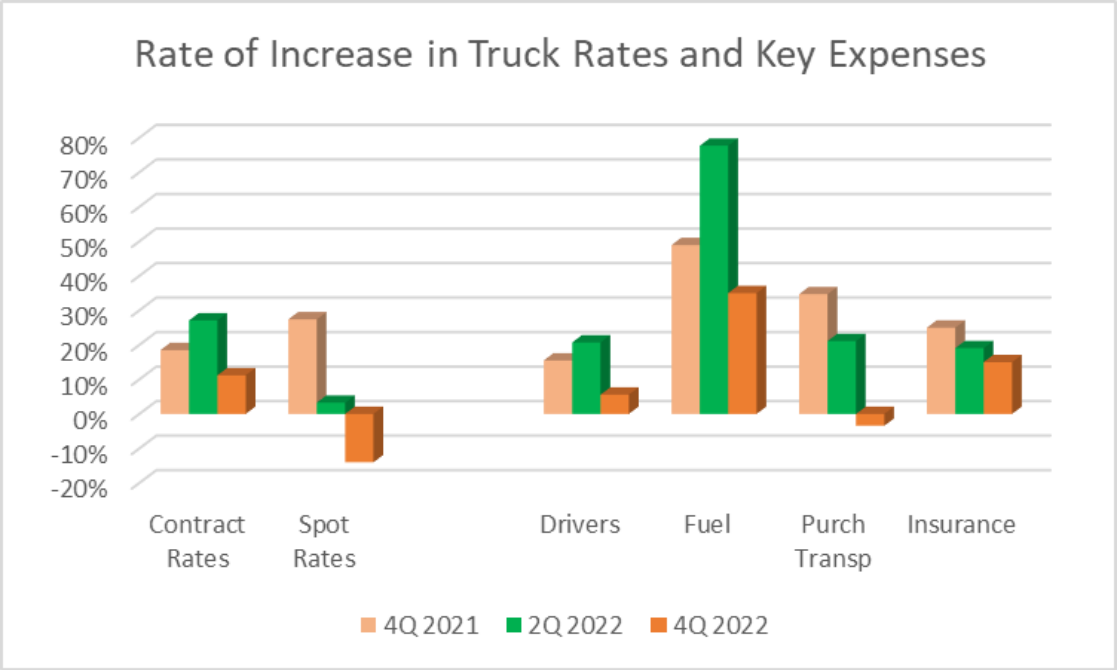
Source: Bureau of Labor Statistics

# Fed Underestimated Inflation – Is That Still Happening?

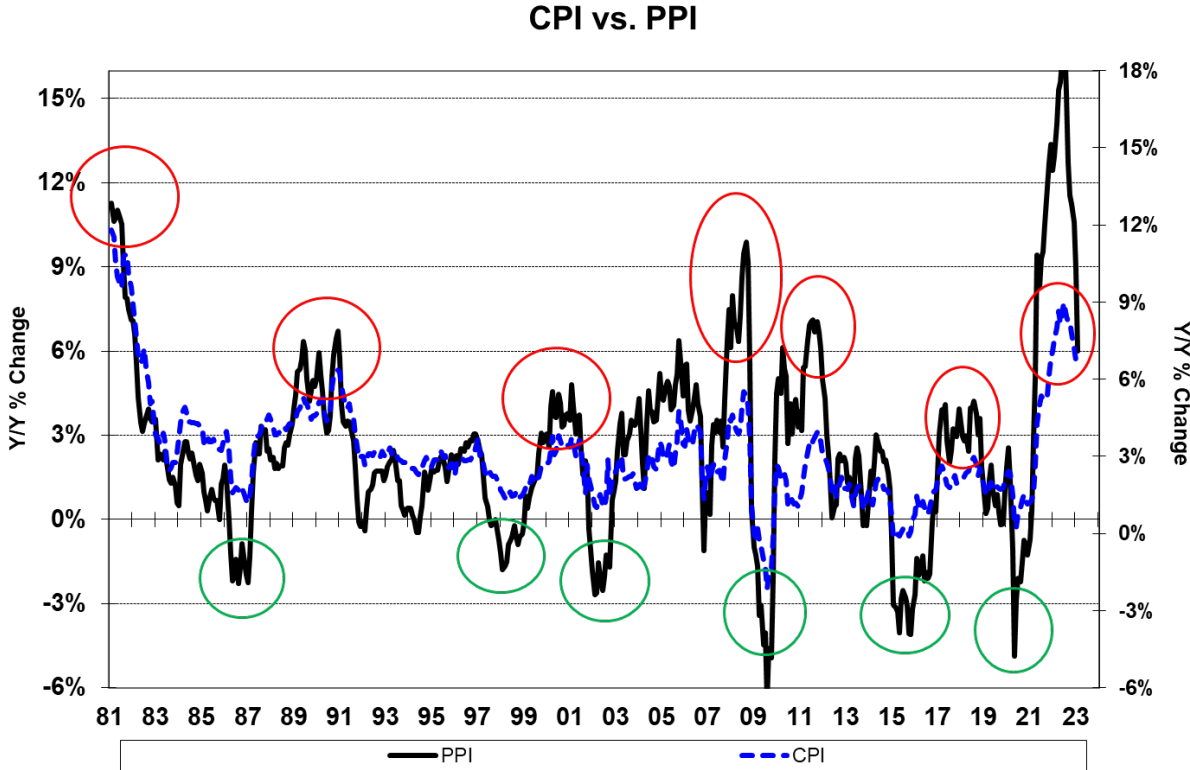


Source: Federal Reserve, Factset and Vertical Research Partners

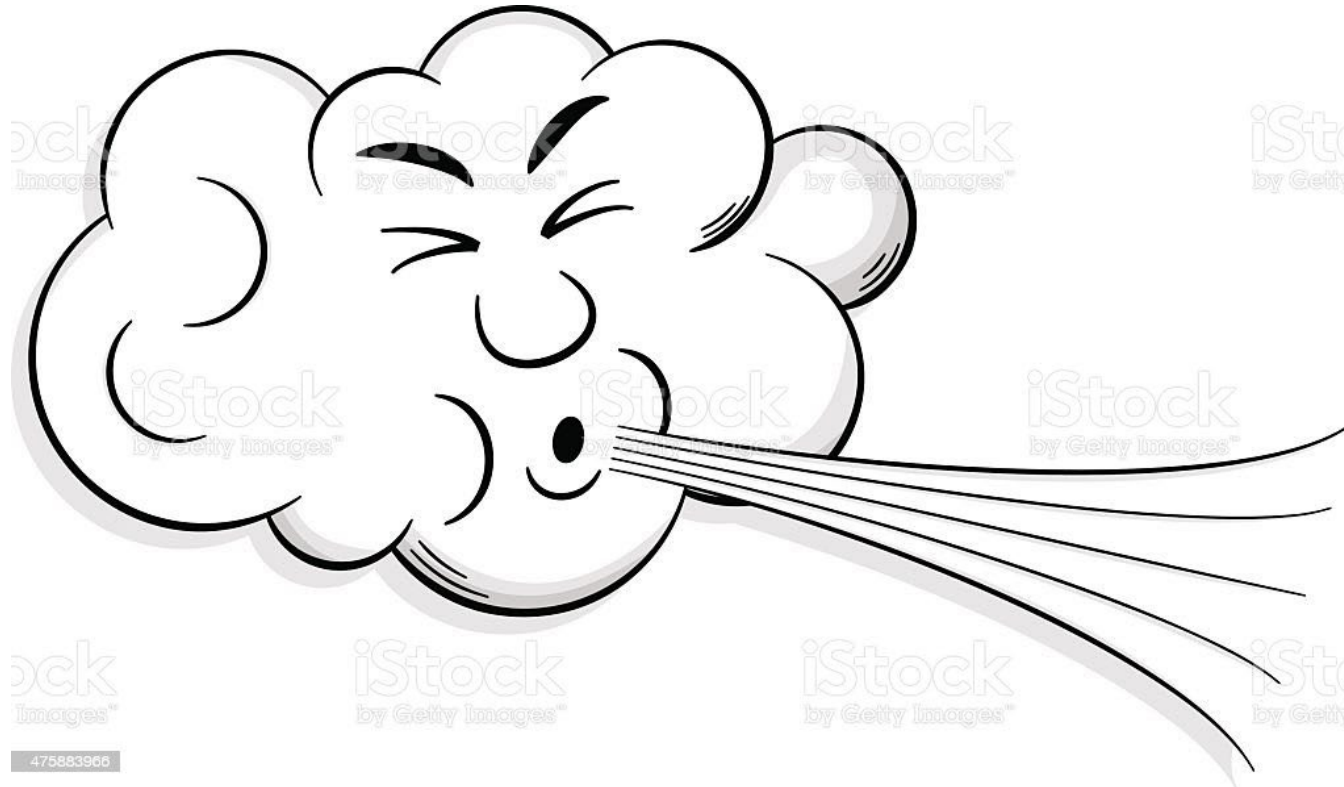
# Inflation Bending Lower, but Slowly



Source: Company Reports, Bureau of Labor Statistics and Vertical Research Partners



# What Direction is the Wind Blowing?

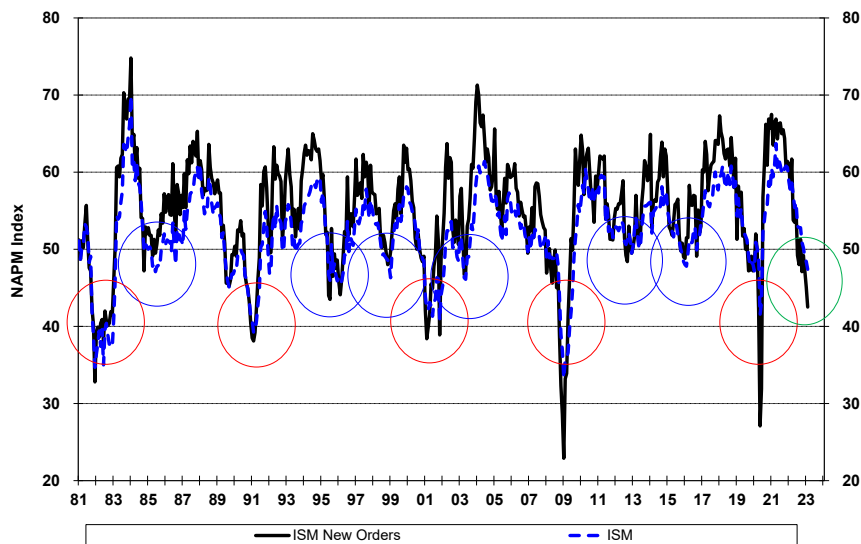


Source: Internet Stock

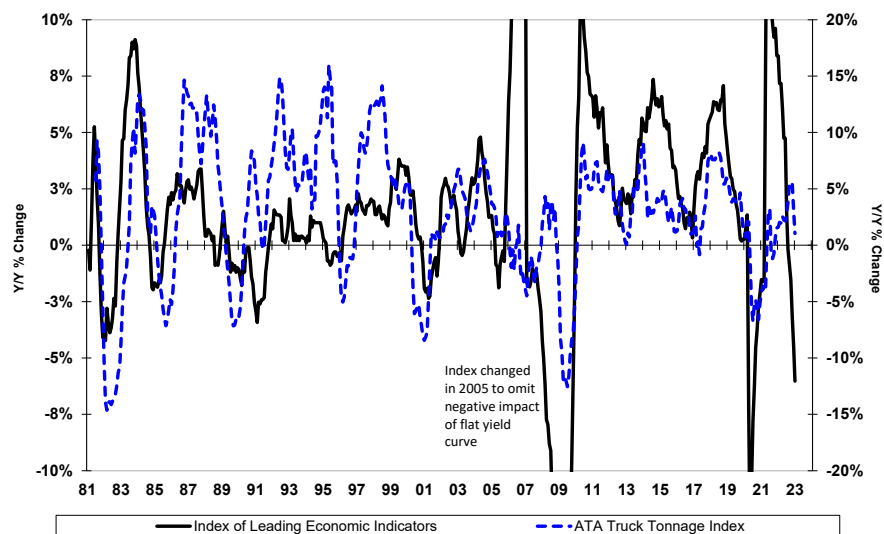


# Trucking Leading Indicators Pointing South...

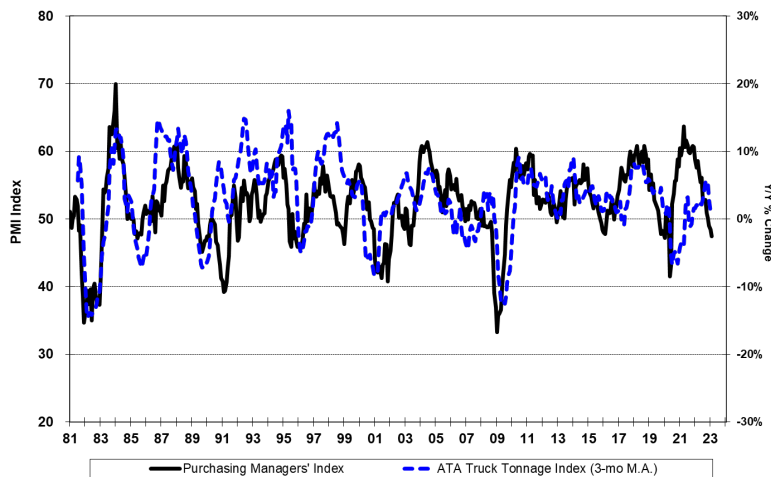
ISM New Orders vs ISM



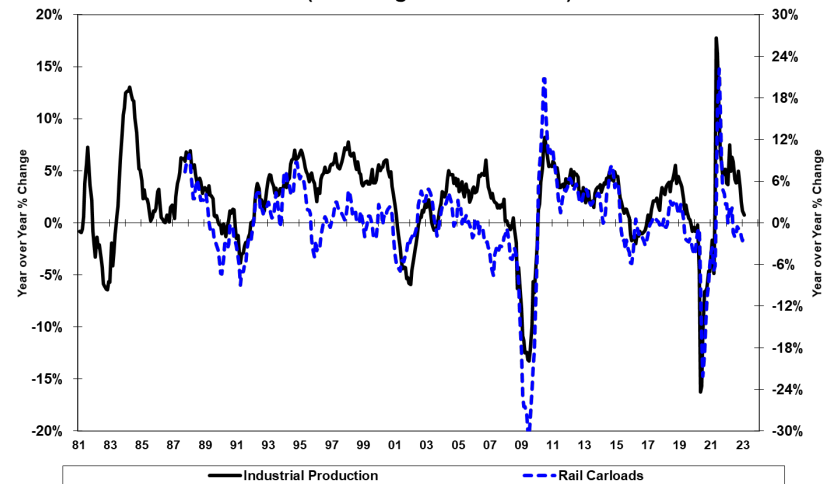
Truck Tonnage versus Leading Indicators Index



ATA Truck Tonnage Index vs. Purchasing Managers' Index



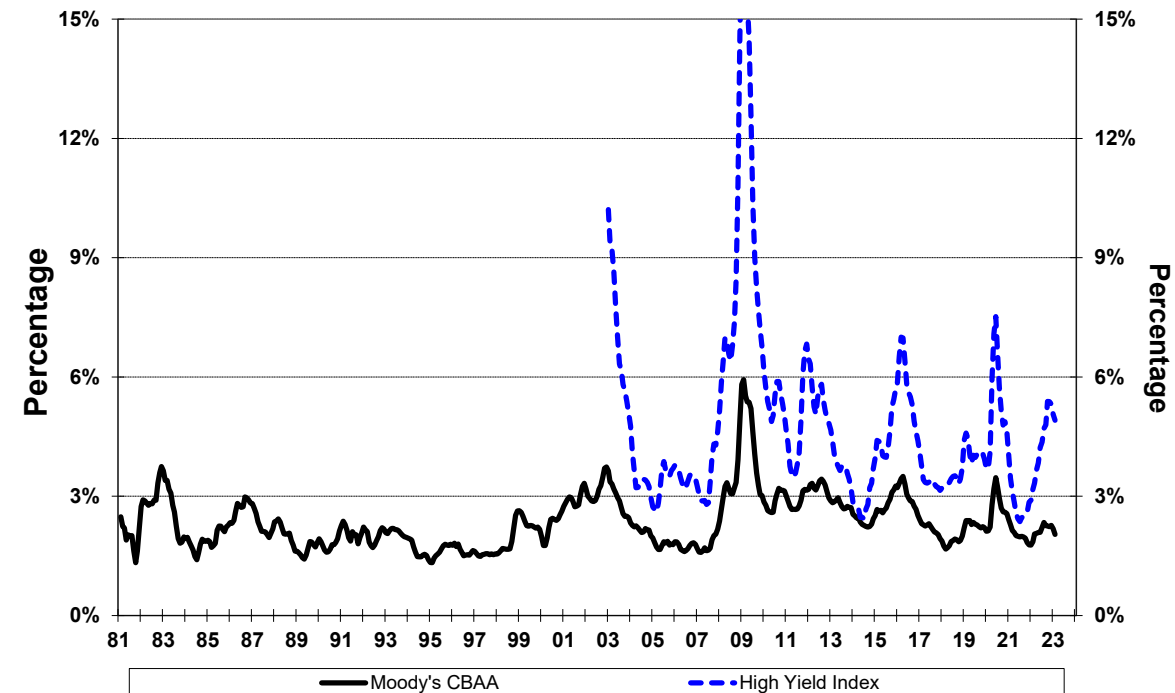
Industrial Production v. Rail Carloads  
(ex coal/grain/intermodal)



Source: Institute for Supply Management, Federal Reserve, AAR, American Trucking Association, Vertical Research Partners

# Is There Fear in the Marketplace? Caution, but not Fear

Moodys CBAAs and High Yield Spreads



Source: Vertical Research Partners, FactSet



# Outlook and Opinion



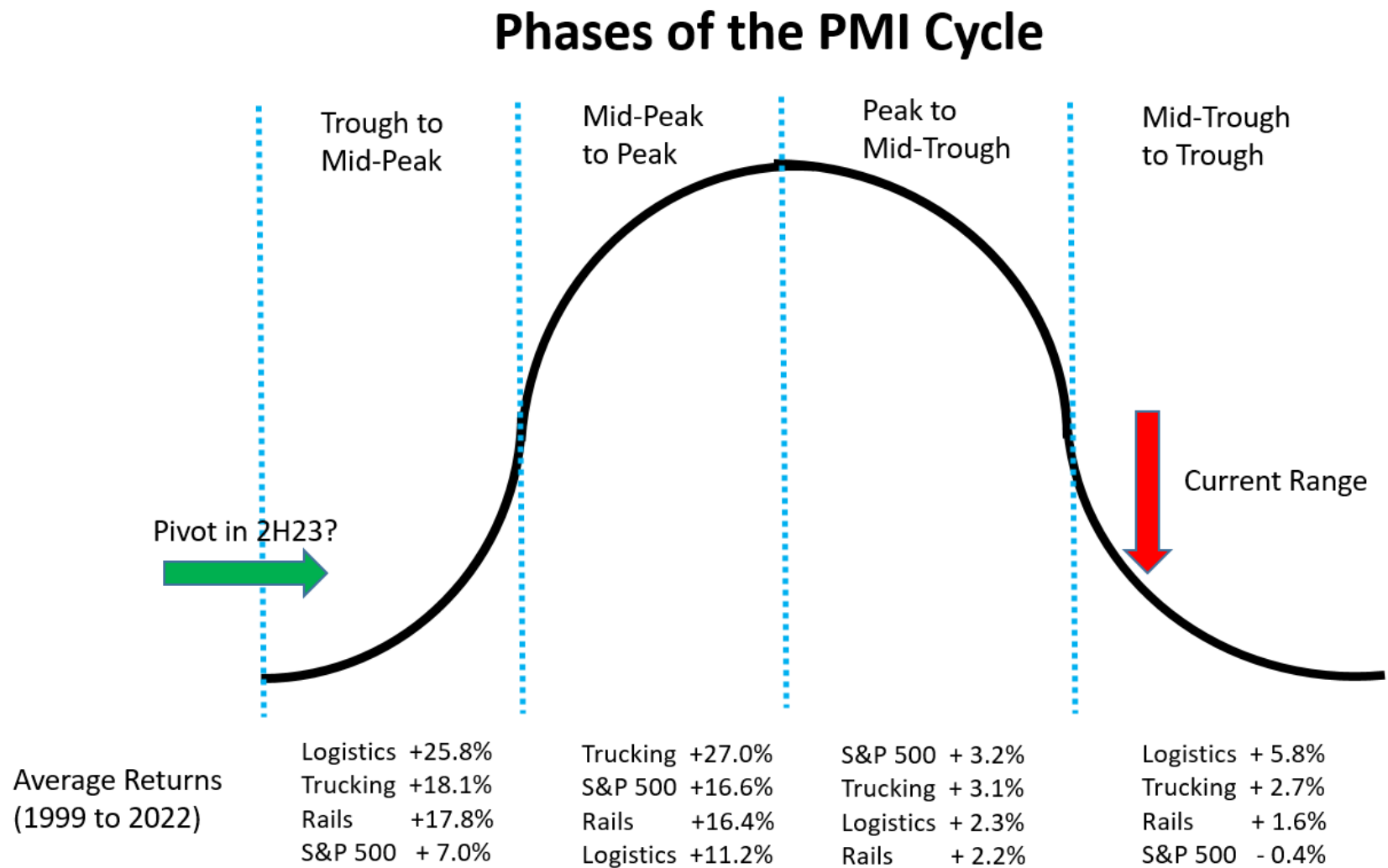
Source: Internet Stock

## Handicapping Outlooks

### Probably Scenarios - Next 18 months

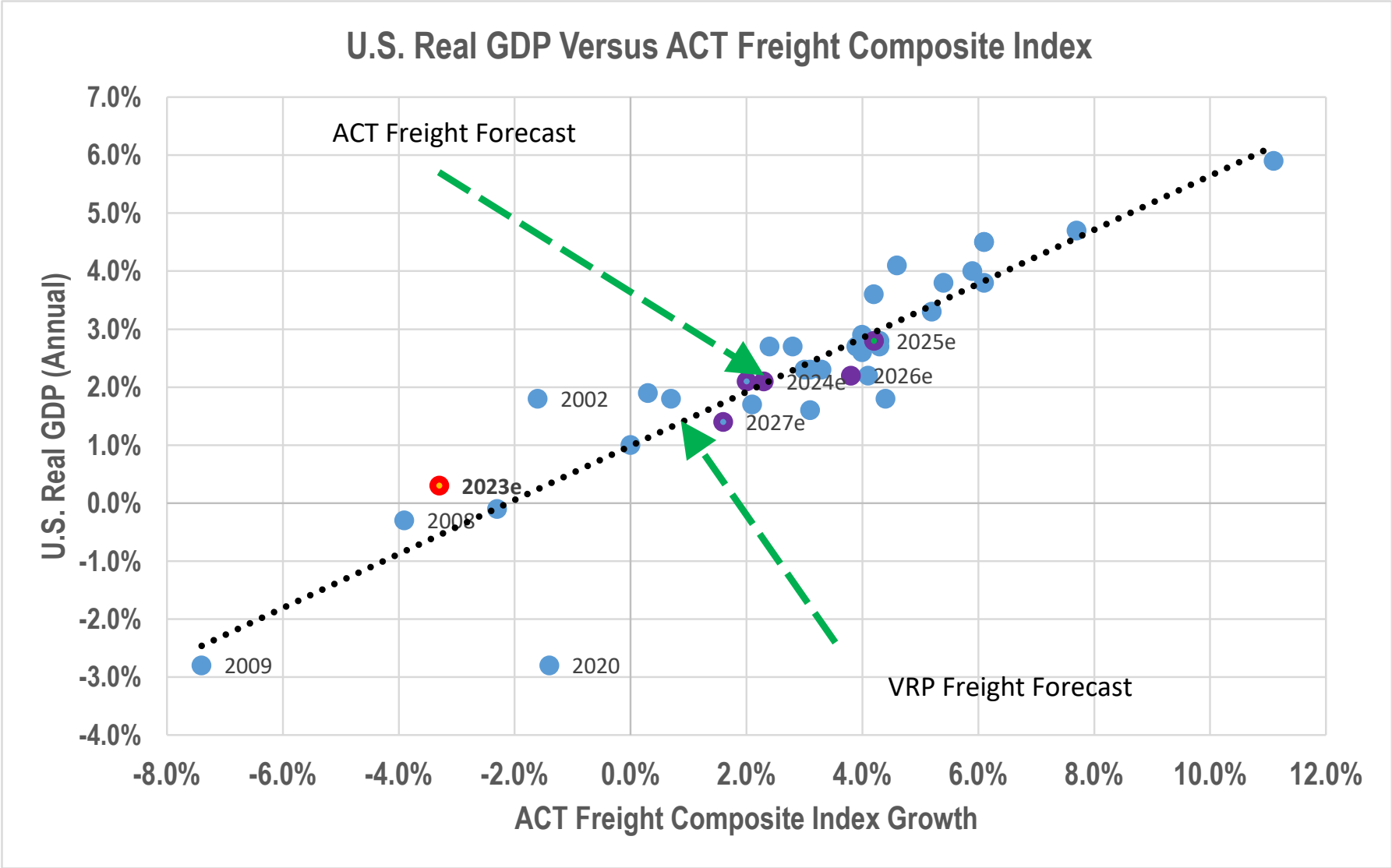
Growth at trend or better	5%
No growth or stagnation	15%
Mild Recession	60%
Severe Recession	20%

# Where are We In the Cycle?



Source: Vertical Research Partners

# GDP Assumptions Imply Freight Assumptions



Source: Bloomberg, ACT Research and Vertical Research Partners

# Established Historical Impacts for Freight and Class 8 Truck Demand

Prior Recession Impacts					
	Duration (months)	GDP (top to bottom)	IP (top to bottom)	Cass (top to bottom)	Class 8 (top to bottom)
Severe	16	-3.0%	-15.0%	-28.0%	-57.0%
Moderate	8	-0.8%	-5.0%	-11.0%	-38.0%

Source: Vertical Research Partners

## Key Assumptions In Our Outlook

- 12-Month Mild Recession
  - We forecast a (1)%-(2)% GDP in mid-2023 that will last into early 2024
  - This will result in a 3.0% reduction in truck tonnage in 2023 and only 1.5% growth in 2024
  - The implied 20% Class 8 pullback is moderated to 10% by current conditions, better 1H23
  - Profit pullback will be 150 basis points in 2023, recovery will begin in 2024
  - This is better than the normal 250-300 basis points of margin deterioration
- Other notes
  - Expected CARB prebuy of 30,000 Class 8 units will be muted by the Recession
  - Expected EPA 2027 mandate will result in 2025/2026 being two largest Class 8 years ever
  - Trailer pool growth of fleets will moderate the normal trailer cycle from down 35% to down 15%
  - Trailers will see a stronger 2024 than normal related to fleet substitution
  - We believe the transition to BEV, NG, and Fuel Cell will gain traction in 2024, but not accelerate until 2027 because of the EPA 2027 mandate



# Truck Capacity Could Outstrip Demand through 2024

Forecast Summary	2020	2021	2022e	2023e	2024e	2025e	2026e	Source
Real GDP	(3.4)%	5.7%	2.1%	0.3%	2.1%	2.8%	2.2%	ACT Research
Personal Consumption Exp	(3.0)%	8.3%	2.8%	1.3%	2.0%	2.6%	2.1%	ACT Research
Industrial Production	(7.0)%	4.9%	3.9%	(1.9)%	(2.0)%	4.2%	3.8%	ACT Research
Freight Composite Index	(1.4)%	11.1%	2.0%	(3.3)%	2.3%	4.2%	3.8%	ACT Research
Cass Shipment Index	(8.4)%	12.8%	0.8%					Cass
<b>Truck Tonnage Growth</b>	(3.6)%	0.1%	2.2%	(3.0)%	1.5%	3.4%	2.8%	<b>VRP Estimates</b>
Active Population - Class 8 (000s)	2,550	2,500	2,561	2,598	2,598	2,656	2,764	VRP Estimates
Est Replacement Demand - Class 8 (000s)	245	238	244	248	250	252	252	VRP Estimates
Active Population - Trailers (000s)	3,300	3,349	3,431	3,507	3,559	3,617	3,655	VRP Estimates
Est Replacement Demand - Trailers (000s)	220	218	220	224	228	232	232	VRP Estimates
Class 8 Sales - ACT Research	233	271	309	292	266	318	373	ACT Research
Est Capacity Increase		1.3%	2.6%	1.7%	0.6%	2.5%	4.6%	
Class 8 Sales - Vertical View	233	271	305	285	250	310	360	VRP Estimates
Est Capacity Increase	-0.5%	1.3%	2.4%	1.4%	0.0%	2.2%	4.1%	
<b>Versus estimated Tonnage Incr</b>		1.2%	0.2%	4.4%	-1.5%	-1.2%	1.3%	VRP Estimates
U.S. Trailers - ACT Research	206	267	305	302	275	309	286	ACT Research
Est Capacity Increase		1.5%	2.5%	2.3%	1.3%	2.2%	1.5%	
U.S. Trailers - Vertical View	206	267	302	300	280	290	270	VRP Estimates
Est Capacity Increase	-0.4%	1.5%	2.4%	2.2%	1.5%	1.6%	1.1%	
<b>Versus estimated Tonnage Incr</b>		1.4%	0.2%	5.2%	0.0%	-1.8%	-1.7%	VRP Estimates

Note
No change 2023-2025
No change - we remain below ACT
No change - we remain below ACT

Source: ACT Research and Vertical Research Partners

## Other Things To Consider



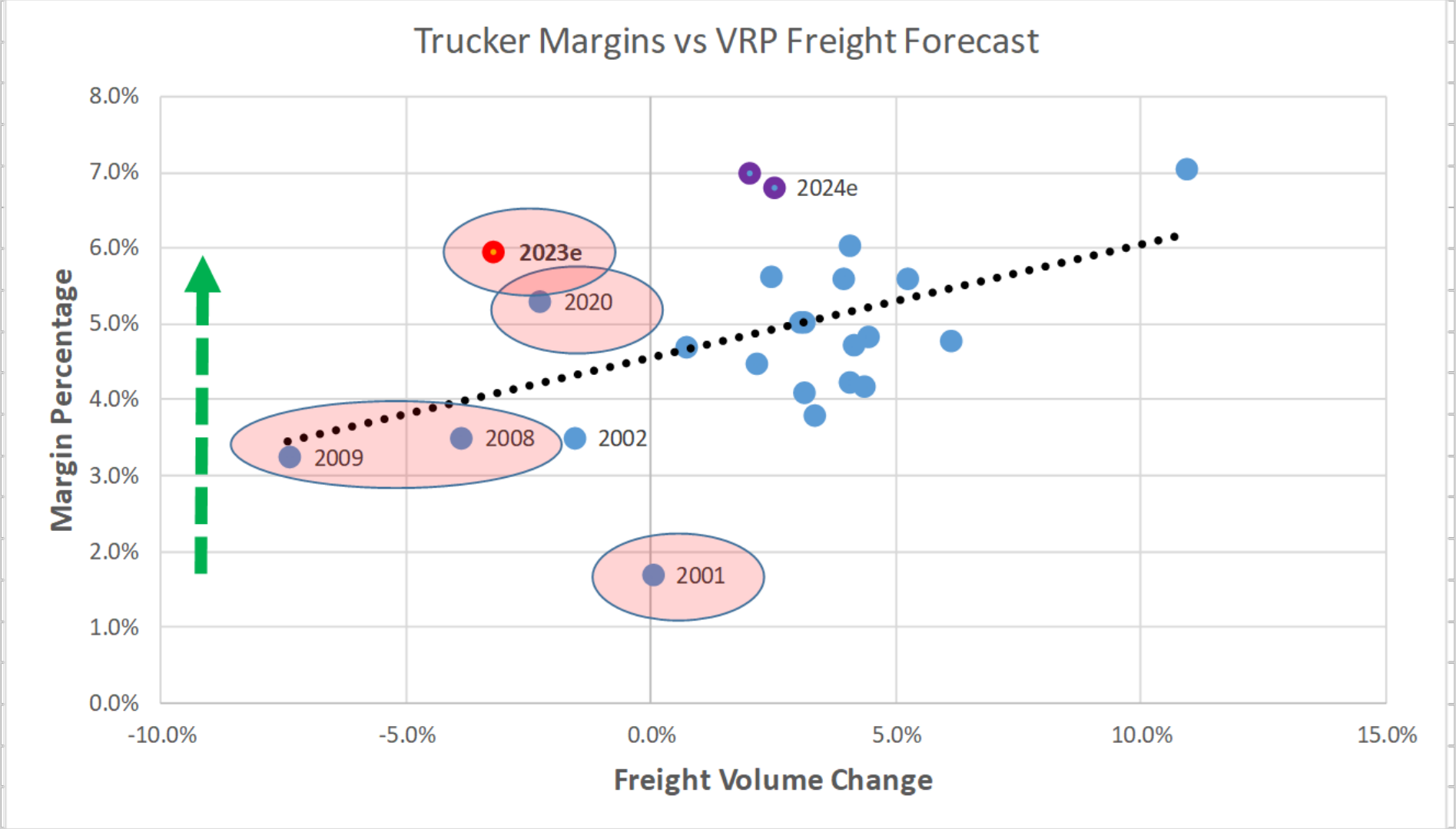
## **\*\* This Time It's Different \*\***



# Base Thesis – How It Might Be Different

- This cycle hasn't seen the fleet capacity additions of previous cycles
- Corporate balance sheets are in very good overall condition
- Trucking Industry is better protected because of the driver shortage
- Truck OEMs sold out through mid-2023 – will never feel the pain

# Is There a Secular Profit Story in Trucking?



Source: Vertical Research Partners