

#### Agenda

Time Check: 75 Minutes

**Intro & Cox Automotive** 

The Economy

**Market Performance: New Vehicles** 

**Market Performance: Used Vehicles** 

Inflation, Affordability, Declining Sentiment and Possibility of Recession

**2022 Outlook & Playlist** 

Q&A

Mark Schirmer, Director, Corporate Communications

Jonathan Smoke, Chief Economist

Charlie Chesbrough, Senior Economist

Chris Frey, Senior Manager, Economic and Industry Insights

Jonathan Smoke, Chief Economist, and Charlie Chesbrough, Senior Economist

Jonathan Smoke, Chief Economist and Resident DJ

w/ Michelle Krebs, Executive Analyst

Rebecca Rydzewski, Research Manager



#### The Power of Cox Automotive

Harnessing the power of connected data for game-changing results



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## **Jonathan Smoke**

**Chief Economist** 

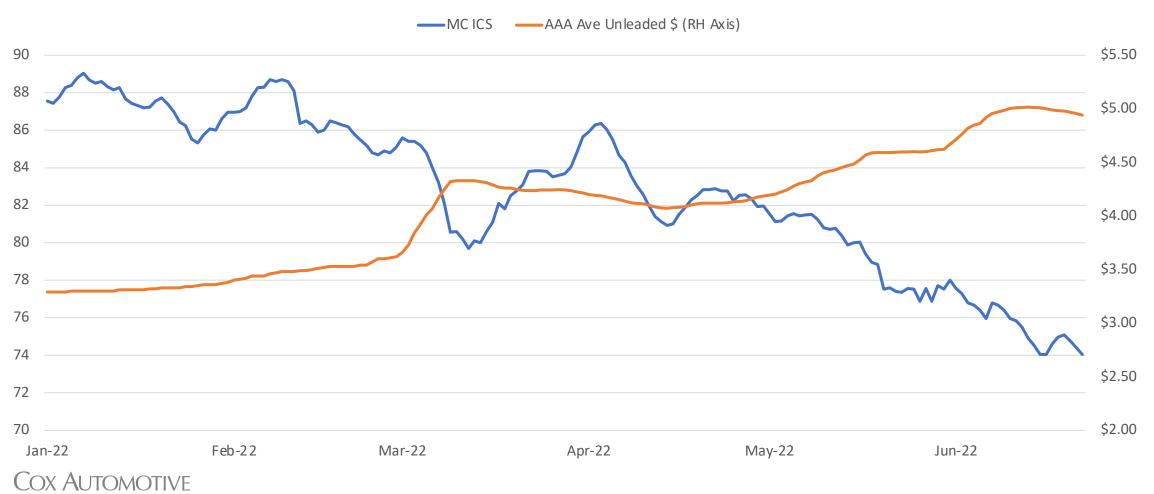


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### State of the Industry

Rough year for Consumer Sentiment: Omicron, war, and inflation

Morning Consult Index of Consumer Sentiment vs. Average Price of Unleaded



## The Economy

Changing macro conditions see more negative trends in near term

Overall Economy	Real GDP Growth	+6.9% (Q4 '21)	-1.5% (Q1 '22)	+2.6% (Q2 '22 F)	
Employment Conditions	U3 Unemployment Rate	5.8% (May '21)	3.6% (Apr '22)	3.6% (May '22)	
Buyer Confidence	UofM Consumer Sentiment	85.5 (Jun '21)	58.4 (May '22)	50.0 (Jun '22)	
Wages	Earnings Growth	2.2% (May '21)	5.2% (May '22)		
Buyer Ability	Disposable Income Y/Y	-2.6% (Apr '21)	-0.3% (Apr '22)		

## The Economy

Consumer demand tailwinds in 2021 become bigger headwinds in 2022

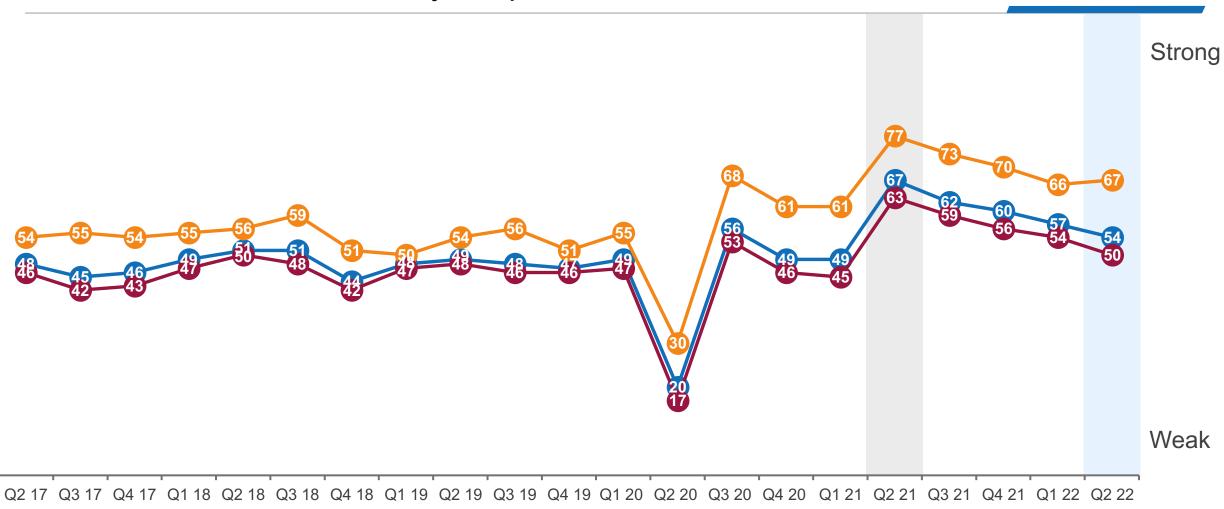
Auto Finance	FRBNY	\$153 billion (Q1 '21)	\$177 billion (Q1 '22)		
Interest Rates	Effective Fed Funds Rate	0.06% (May '21)	0.76% (May '22)		
Borrowing Costs	Average New Auto Loan Rate	4.45% (May '21)	5.08% (May '22)		
Mobility Costs	AAA Average Retail Unleaded Gasoline Price	\$3.05 (May '21)	\$4.67 (May '22)	\$5.00+ (Jun '22)	



## **Dealer Sentiment Index**

SECOND QUARTER 2022

### How would you describe the current market for vehicles in the areas where you operate?



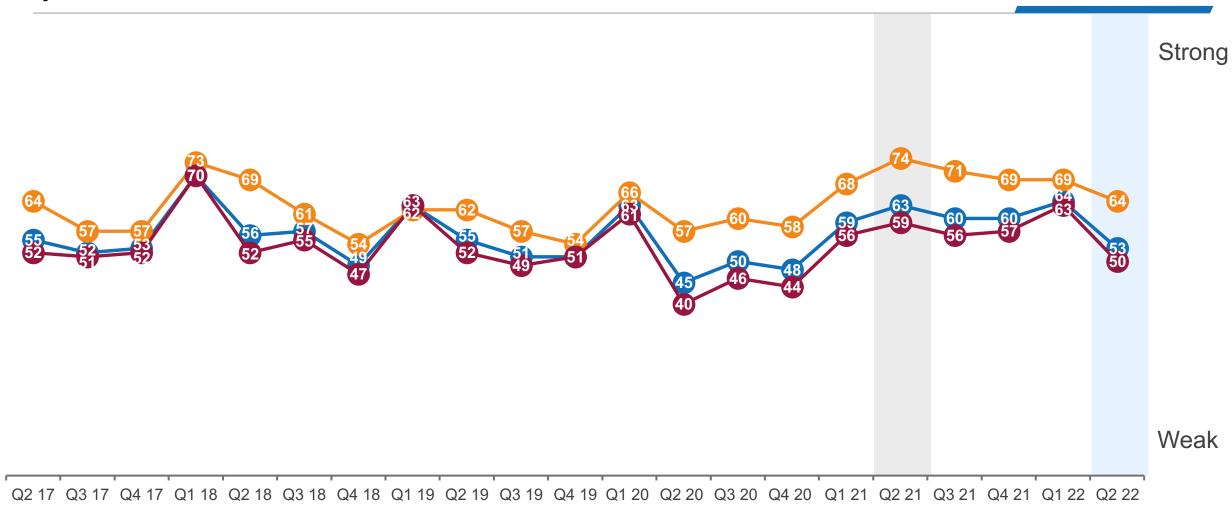


Note: Scale 1 - 100

## **Dealer Sentiment Index**

SECOND QUARTER 2022

## What do you expect the market for vehicles in your area to look like 3 months from now?





→Overall → Franchised → Independent

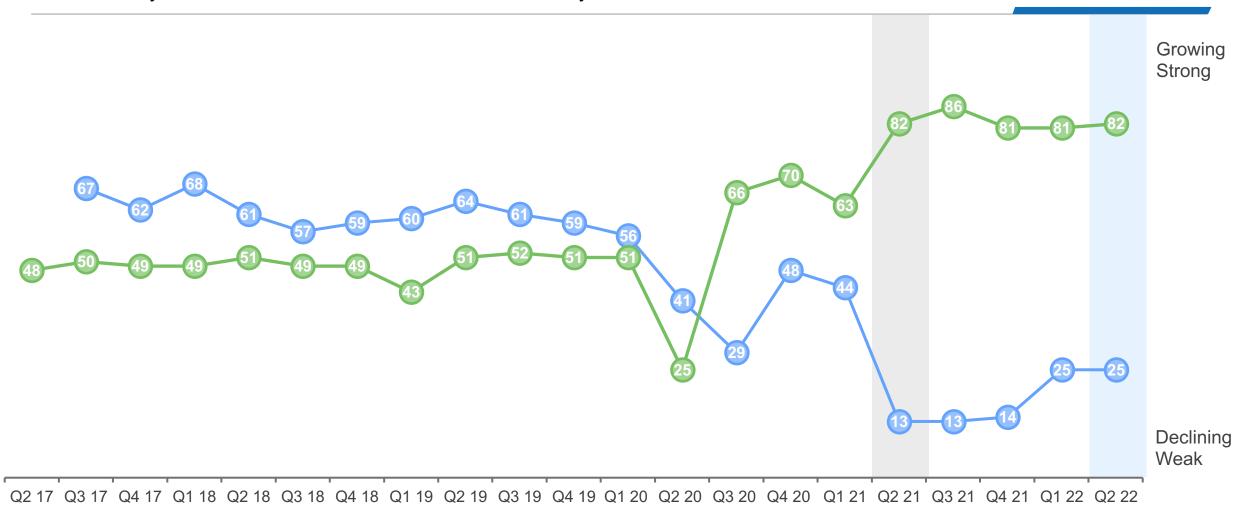
### **Dealer Sentiment Index**

SECOND QUARTER 2022

Inventory/Profits

How would you describe your profits over the past 3 months?

How would you describe the current new-vehicle inventory levels?



Franchised Profits

Note: Scale 1 - 100

New Vehicle Inventory





## **Charlie Chesbrough**

**Senior Economist** 



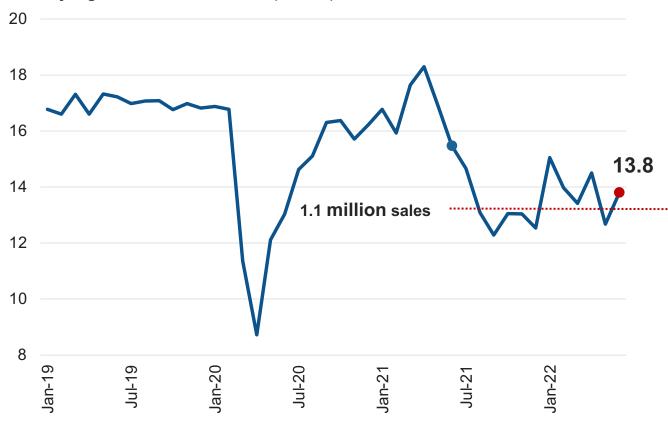
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## New-Vehicle SAAR | Uptick in pace expected this month, but sales remain constrained

Monthly volume averaging 1.1 million sales since August – 2022 downgraded, again



#### Monthly Light Vehicle Sales SAAR (millions)



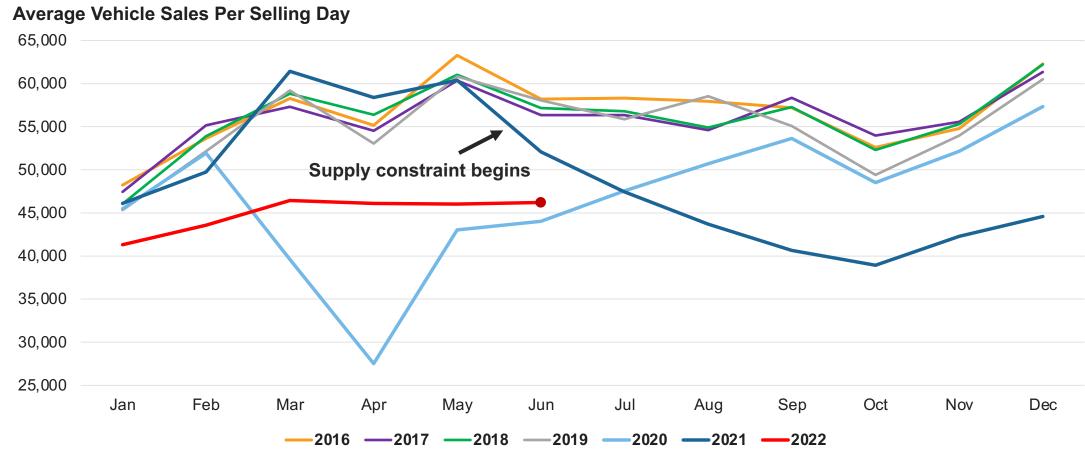
	Sales (millions)	SAAR (millions)
June 2021	1.3	15.5
June 2022	1.2	13.8
change	-7.8%	-11.0%
Q2 2021	4.4	16.9
Q1 2022	3.3	14.1
Q2 2022	3.5	13.7
change Y/Y	-19.2%	-19.1%
change Q/Q	7.8%	-3.5%
YTD 2021	8.3	16.8
YTD 2022	6.8	13.9
change	-17.5%	-17.4%

# 2022 Forecast -16.0 million -15.3 million -14.4 million

### Daily Selling Rate | Averaging just 46,200 this spring

March and May, historically, see sale surges – not in 2022: Supply can't meet demand





## OEM Performance | GM likely to win Q2 sales but Tesla gains most share in first half of 2022

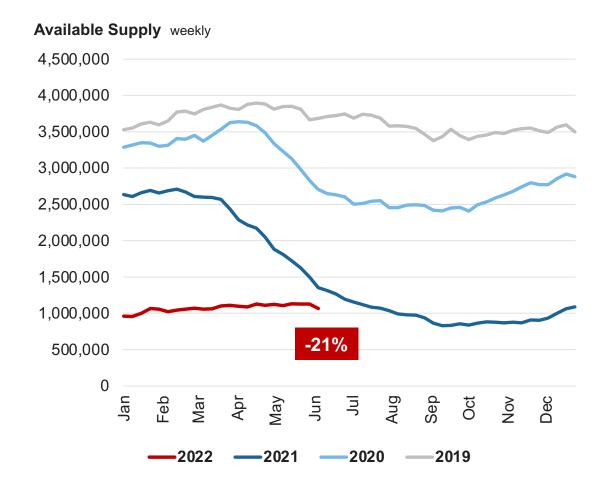
Ford, Hyundai had a relatively strong quarter, Honda declines

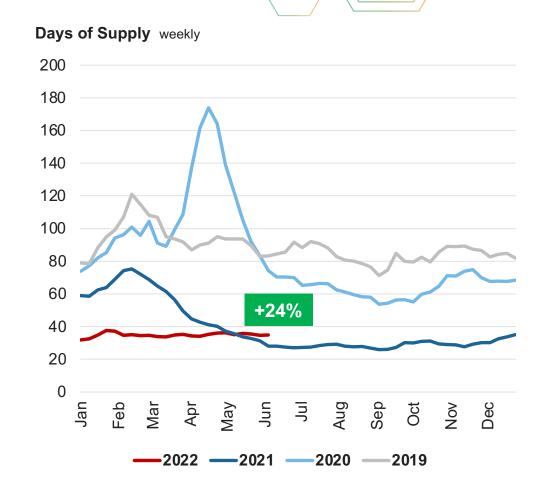
OEM	Q2 2021	Q1 2022	Q2 2022	Y/Y	Q/Q	H1 2021	H1 2022	change	H1 2021 Share	H1 2022 Share	difference
GM	683,696	509,122	575,911	-15.8%	13.1%	1,323,102	1,085,033	-18.0%	15.9%	15.7%	-0.1%
Toyota	688,813	514,592	543,819	-21.0%	5.7%	1,291,879	1,058,411	-18.1%	15.5%	15.3%	-0.1%
Ford	472,260	429,174	496,248	5.1%	15.6%	989,971	925,422	-6.5%	11.9%	13.4%	1.5%
Stellantis	485,312	405,221	412,005	-15.1%	1.7%	954,963	817,226	-14.4%	11.4%	11.8%	0.4%
Hyundai	470,042	322,593	372,956	-20.7%	15.6%	804,944	695,549	-13.6%	9.6%	10.1%	0.4%
Honda	486,419	266,418	254,230	-47.7%	-4.6%	833,510	520,648	-37.5%	10.0%	7.5%	-2.4%
Nissan	323,294	227,481	217,434	-32.7%	-4.4%	637,078	444,915	-30.2%	7.6%	6.4%	-1.2%
Tesla	76,230	129,743	144,845	90.0%	11.6%	145,530	274,588	88.7%	1.7%	4.0%	2.2%
Volkswagen	206,473	113,540	138,661	-32.8%	22.1%	369,534	252,201	-31.8%	4.4%	3.7%	-0.8%
Subaru	160,824	132,346	132,996	-17.3%	0.5%	321,250	265,342	-17.4%	3.8%	3.8%	0.0%
Daimler	92,443	75,939	84,245	-8.9%	10.9%	182,358	160,184	-12.2%	2.2%	2.3%	0.1%
BMW	105,901	80,590	83,499	-21.2%	3.6%	183,619	164,089	-10.6%	2.2%	2.4%	0.2%
Mazda	105,909	82,268	68,409	-35.4%	-16.8%	189,167	150,677	-20.3%	2.3%	2.2%	-0.1%
Geely	36,663	24,267	28,662	-21.8%	18.1%	64,020	52,929	-17.3%	0.8%	0.8%	0.0%
Tata	28,265	18,193	12,910	-54.3%	-29.0%	56,215	31,103	-44.7%	0.7%	0.5%	-0.2%
NATION	4,422,544	3,333,174	3,568,586	-19.3%	7.1%	8,347,140	6,901,760	-17.3%	100.0%	100.0%	0.0%



# New-Vehicle Supply | Only minor improvement since hitting bottom last September

Situation remains – 280 thousand fewer vehicles than 2021, 1.6 million lower than 2020



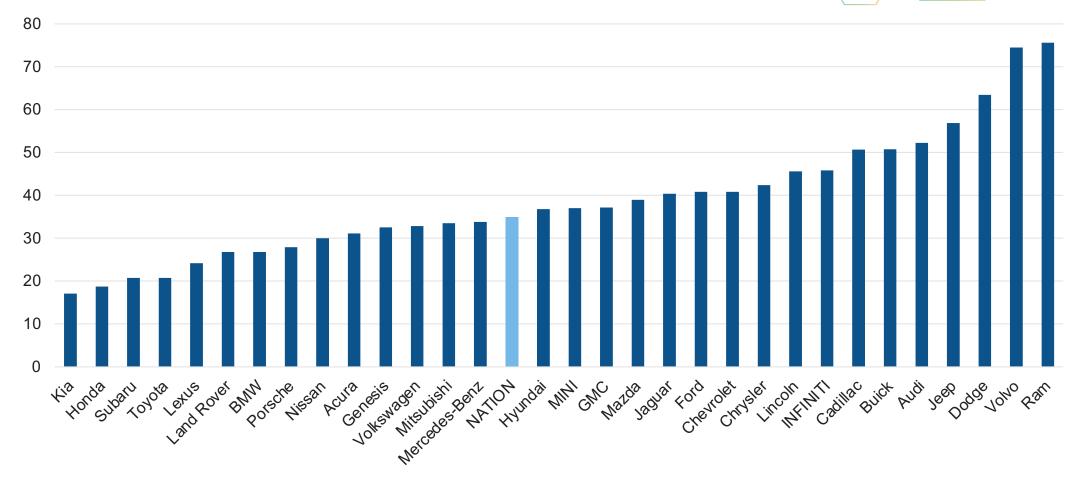




Brand Inventory | Tight supply isn't a problem for everyone

Asian brand extremely tight while American brands have more availability

#### **Days Of Supply**

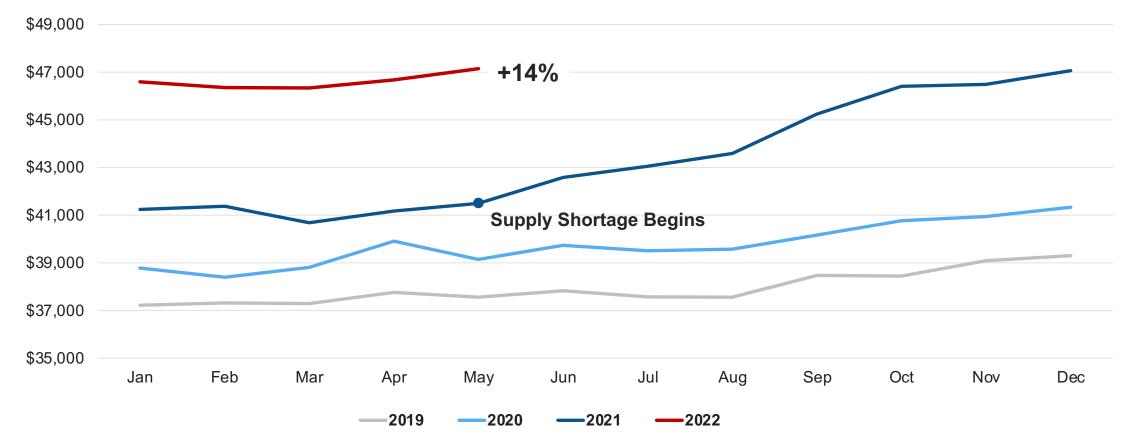




Transaction Prices | High growth rate likely to change soon

Vehicle inflation to slow, but more expensive mix will continue

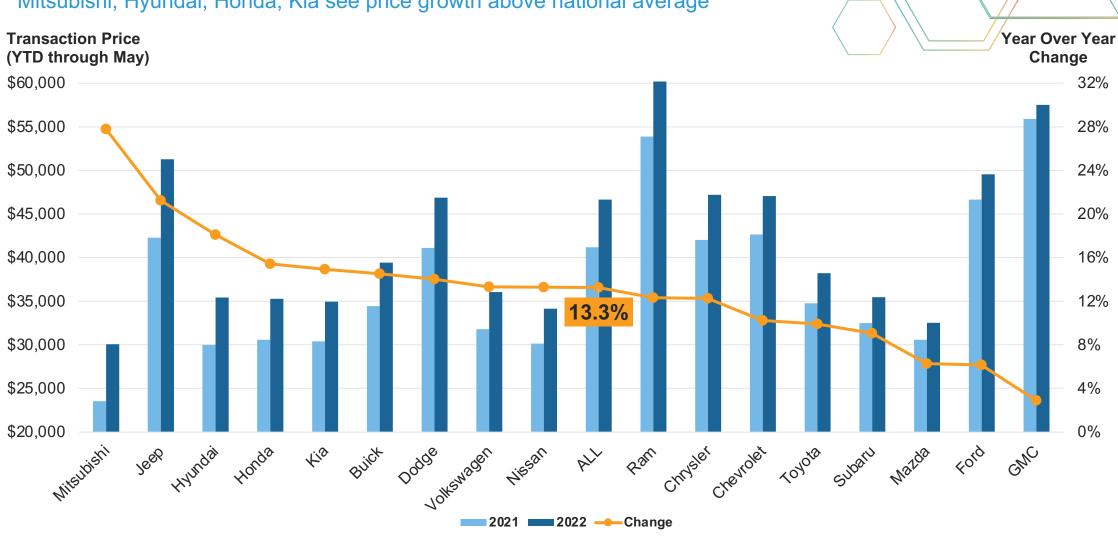
#### **Estimated Monthly Transaction Prices**





## Brand Prices | Some of the lowest-priced brands have the highest inflation

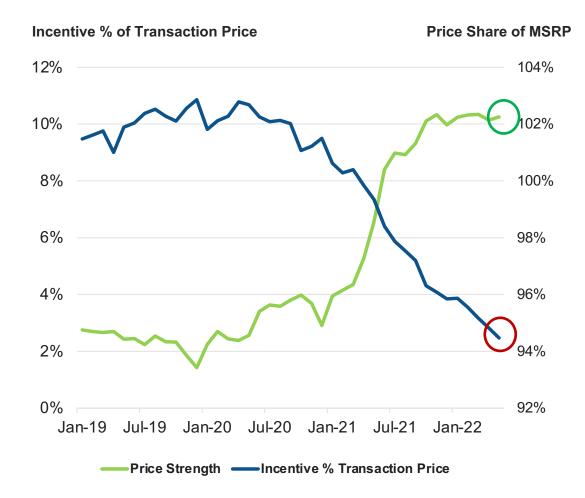
Mitsubishi, Hyundai, Honda, Kia see price growth above national average

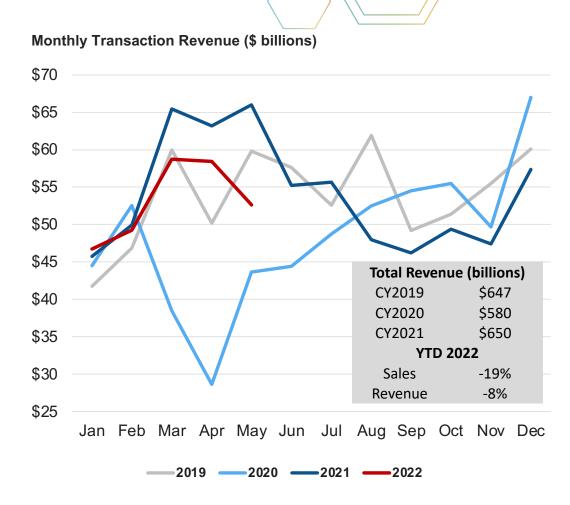




### Seller's Market | Strong margins continue in 2022

Revenues relatively good – but sales declines too big to remain positive





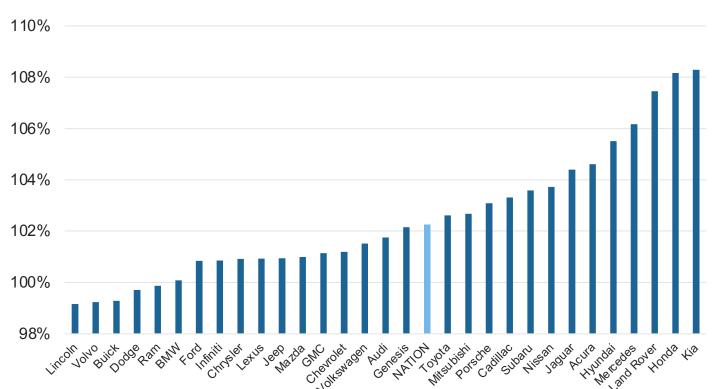


# Brand Pricing Power | Strength varies greatly – depends on supply

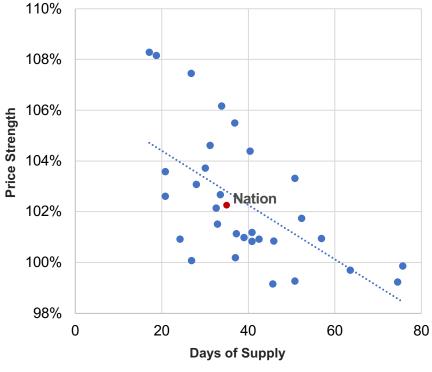
Simple model suggests a 10-day increase of supply reduces price strength 1%





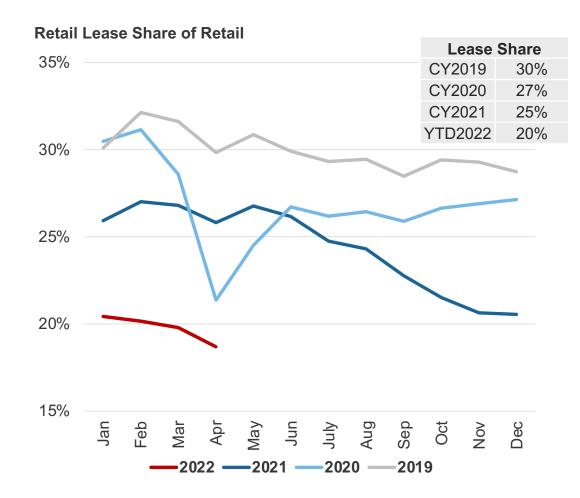


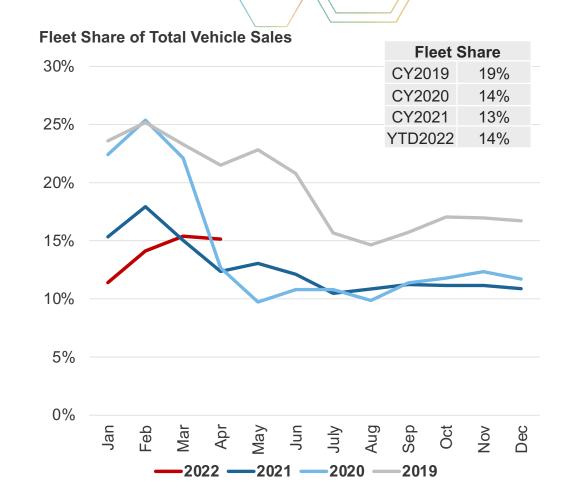
#### Days' Supply - Price Strength Scatterplot



# Sales Channels | More purchasing, fewer lease and fleet post-Covid

Constrained supply keeping these sales low - offers future opportunities for OEMs







#### Summary

Seller's market continues throughout 2022 though economic and inventory challenges remain

**Demand for vehicles** to remain above available supply – keeping the seller's market alive in 2022

#### **Biggest threats to 2022 sales recovery:**

- Chip shortage H2 production must be much better to meet our 14.4 million forecast
- COVID new variants could disrupt the economy and supply chain
- Higher interest rates impacting affordability, threaten economy/employment.

 Ukraine War – gas prices, raw materials, supply chain vulnerable

#### The path ahead:

- Re-stocking dealer lots will be slow ability and enthusiasm will vary
- Vehicle mix likely to continue to be high margin and higher contented
- Fleet and Lease remains muted provides
   OEMs opportunities to stay "lean and mean"
- Higher interest rates will have an impact on buyers
   some brands more vulnerable than others







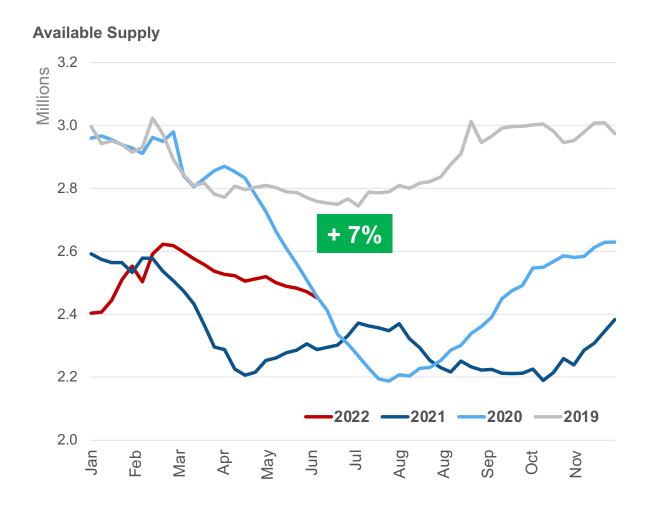
## **Chris Frey**

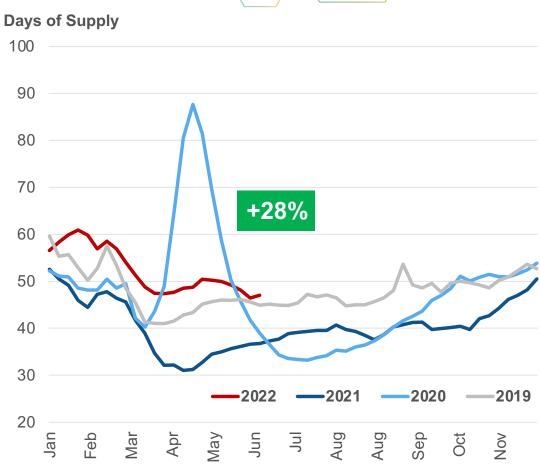
**Senior Manager, Economic and Industry Insights** 

### Used-Vehicle Supply | Supply Above Last Year by 7%

Lower sales keeping days of supply above last year – close to 2019 levels

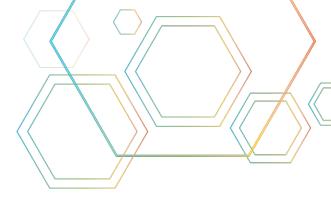




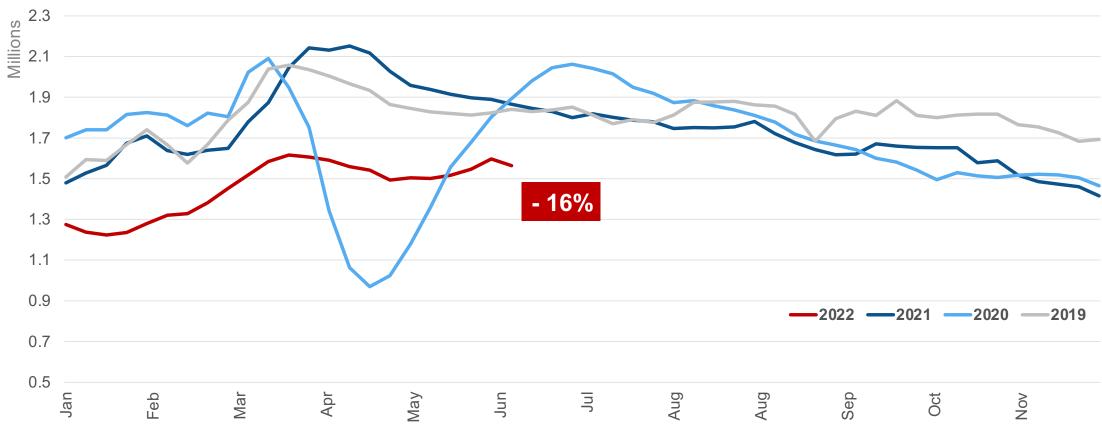


### Used-Vehicle Rolling Sales | Down 16% from 2021

High prices, no stimulus suppressing sales; late tax refunds may be extending spring sales



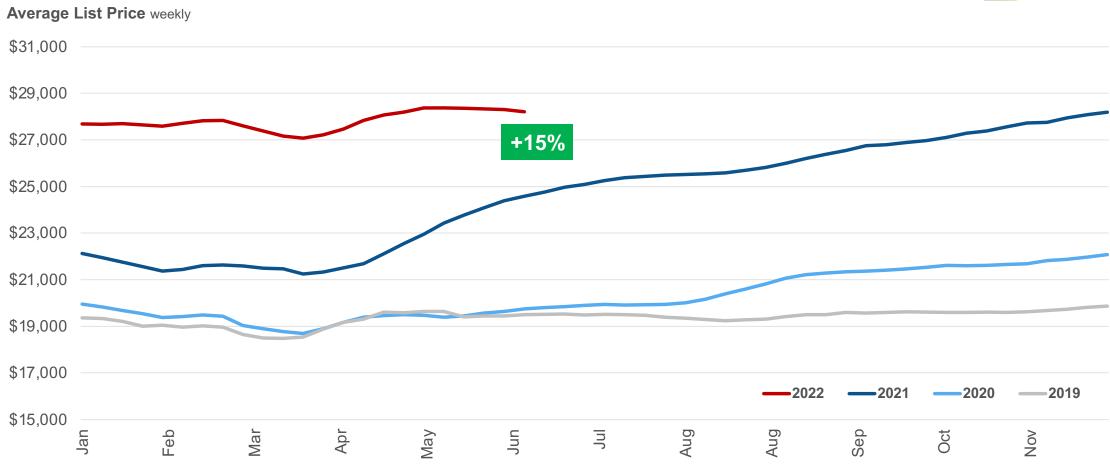
#### Rolling 30 Day Retail Sales weekly



## Used-Vehicle Prices | Up 15% year over year, down 1% from last week

Prices shifted in wake of COVID last spring; remain elevated but growth rate weakening

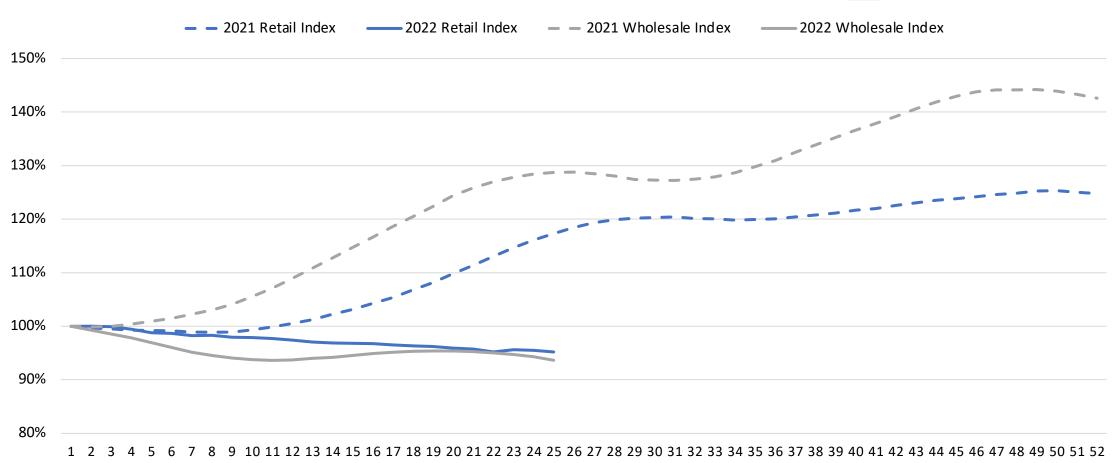




### Price Movement | Declining at a normal, seasonal pace

Tax return delays kept spring market slower and longer than usual

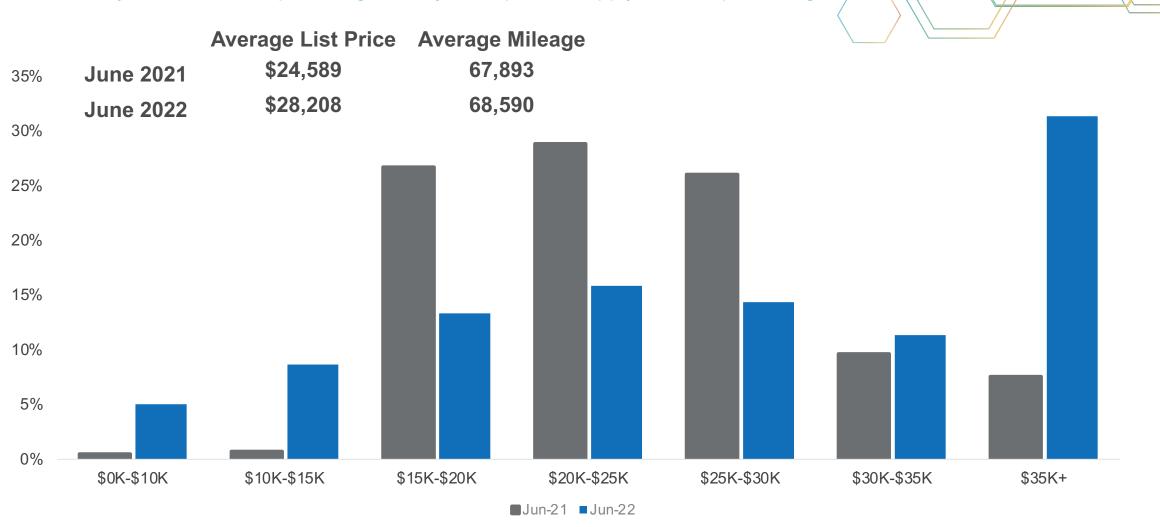
#### MY 2019 Retail and Wholesale Price Index



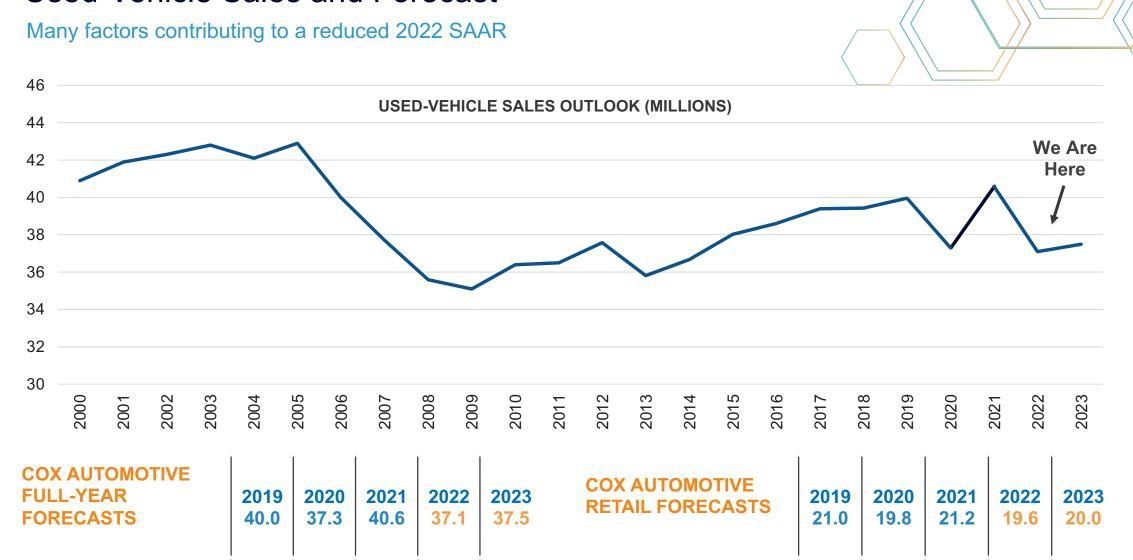


# Retail Inventory | Highest price range continues showing share strength in Q2 2022 vs. 2021

Affordability shifted after chip shortages last year impacted supply in lower price ranges



#### **Used-Vehicle Sales and Forecast**









## **Jonathan Smoke**

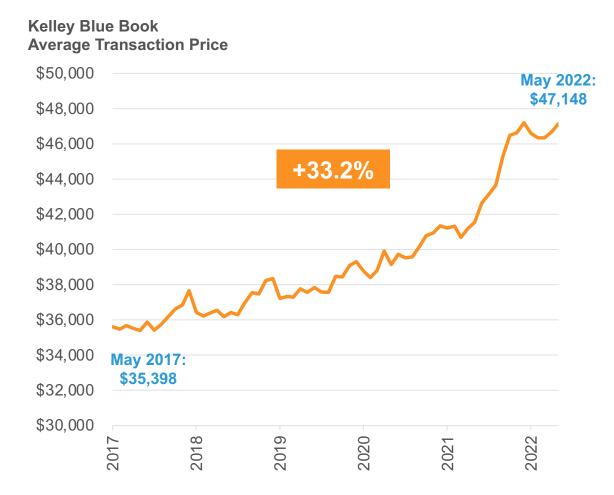
**Chief Economist** 

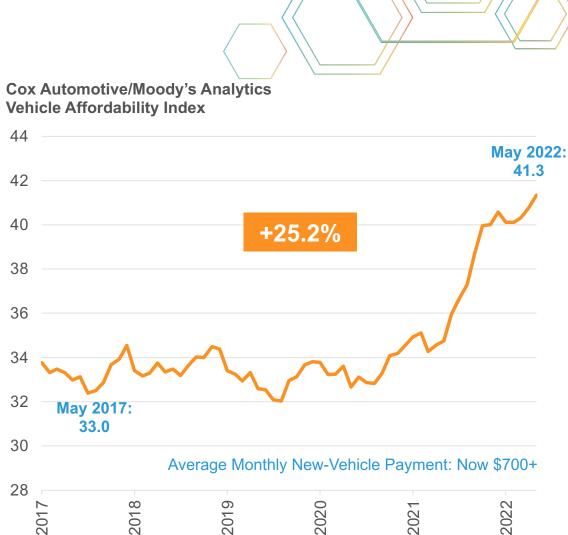
## **Charlie Chesbrough**

**Senior Economist** 

### Price and Affordability Movement 2017 to 2022

Headline numbers hard to ignore





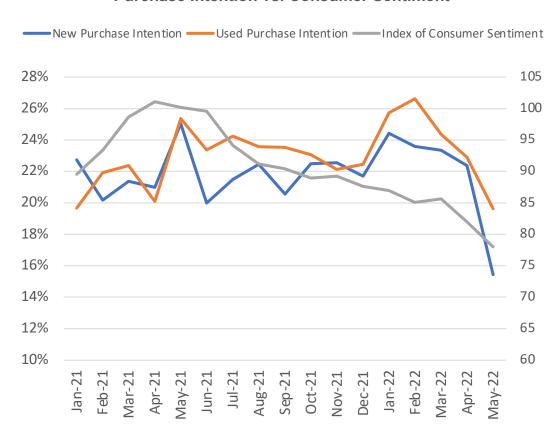


### Inflation, Lower Affordability Impacting Shoppers

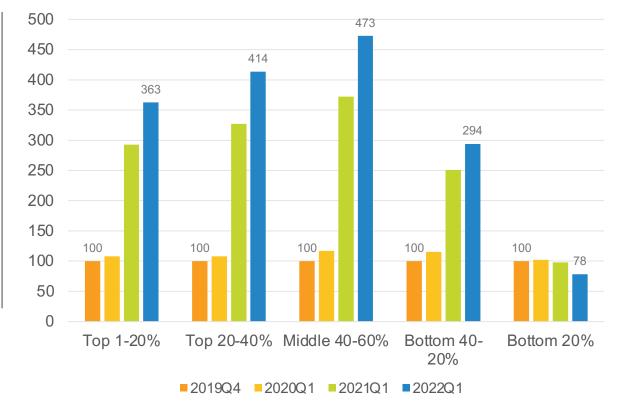
However, 80% of households are in great financial shape with savings GROWING



#### **Purchase Intention vs. Consumer Sentiment**



### Checkable Deposits by Income Quintile Indexed to Q4 2019

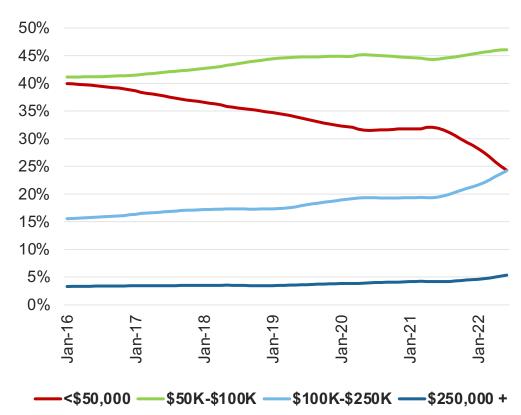


# **Vehicle Buyer Income** | Highest incomes gaining share quickly post-COVID

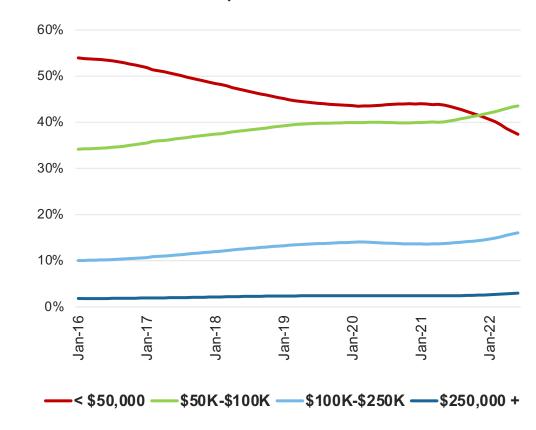
Lowest incomes leaving new-vehicle market for years – now accelerating







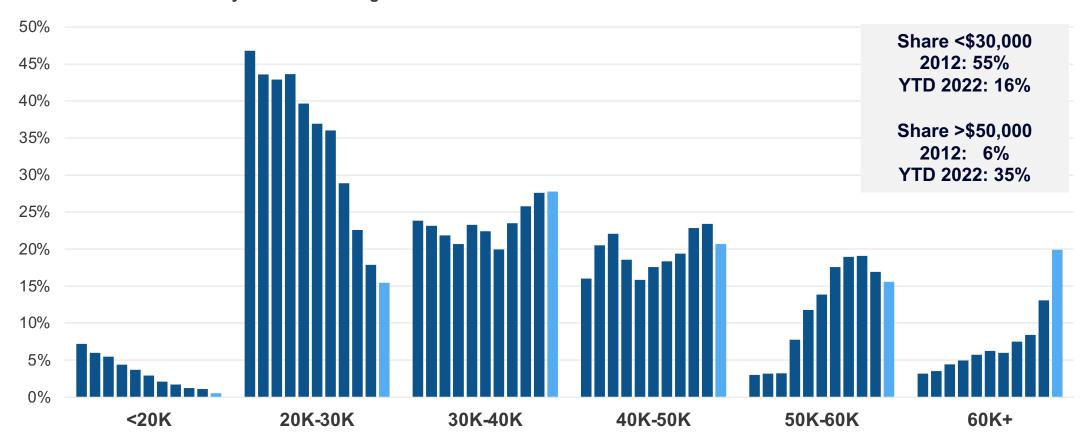
#### **Used Vehicle: Income Group Share of Sales**



# **Affordability** | COVID accelerated shift to more expensive products

Just 16% of sales in 2022 are priced below \$30,000

Share of New-Vehicle Market by MSRP Price Range 2012 – 2021

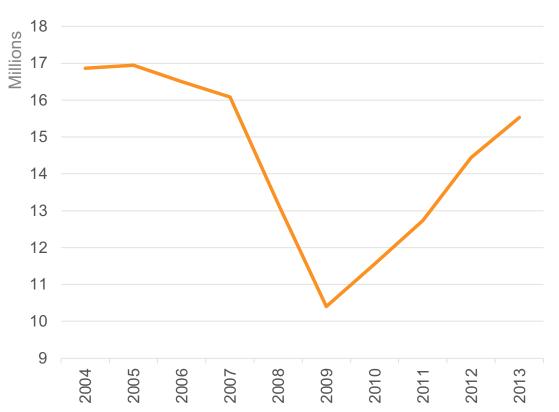




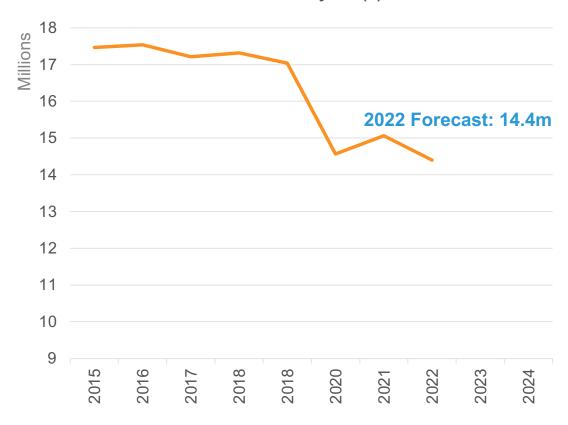
#### New-Vehicle Market – Then and Now

Industry's new-vehicle sales "recession" began in 2022





#### Global Pandemic/ New-Vehicle Sales 2015 to 2022 and Beyond (?)









## **Jonathan Smoke**

**Chief Economist** 



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#### Ten Predictions for 2022





#1: Vehicle Demand Will Remain Robust





#6: Lease Demand Will Improve in 2022





#2: Used-Vehicle Values Will Depreciate Again, After the Spring





#7: Robust Service Revenue Opportunity
Will Continue





#3: Tight Vehicle Supply Will Gradually Improve





#8: Dealership Consolidation Will Continue





#4: EV Growth Will Outpace Industry





#9: Consumer Shift to Online Becomes Dominant





#5: Auto Loan Rates Will Rise





#10: Direct Sales Model Will Force Dealers to Adapt











14.4M NEW SALES

12.6M \ NEW RETAIL SALES

1.8M | FLEET SALES

2022 FORECASTS

**Q2 UPDATE** 



2.7M |

NEW LEASE VOLUME



New

21%

LEASE PENETRATION



2.3M L

New

37.1MU USED SALES

19.6M USED RETAIL SALES

-3%

DEC 2022 Y/Y MANHEIM
USED VEHICLE
VALUE INDEX

Indicates decrease from Q1 forecast

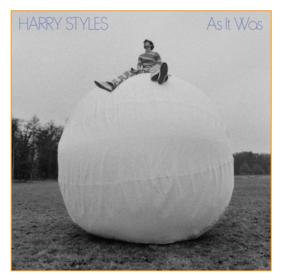
#### Summer 2022 Playlist



Running Up That Hill (A Deal With God)

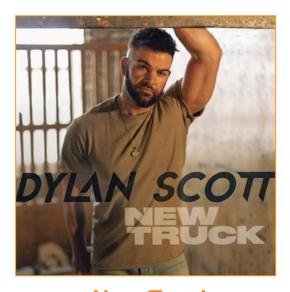
By Kate Bush

The Fed Focusing on Inflation



As It Was
By Harry Styles

**Changing Vehicle Market Dynamics** 



New Truck By Dylan Scott

**Demand and Supply** 



I Ain't Worried By OneRepublic

**Recession Risk** 







#### More Auto Industry Data and Insights from Cox Automotive

The go-to source for insights based on the largest breadth of first-party data in the automotive ecosystem

Cox Automotive Newsroom: www.coxautoinc.com/newsroom/

Fresh content from Chief Economist Jonathan Smoke and the Industry Insights team is published regularly.

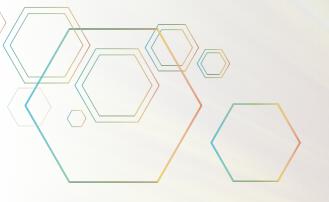
#### **Auto Market Snapshot**: <u>www.coxautoinc.com/marketsnapshot</u>

This dashboard is a one-stop dashboard for the most recent data points our team is tracking.

#### From the Newsroom: www.coxautoinc.com/signup

The Cox Automotive biweekly newsletter, published every other Tuesday, is a round-up of news from Cox Automotive and perspectives from its analysts and experts on topics dominating the automotive industry.





## Thank you for attending!

Contact us with questions or to speak with one of our experts:

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