## INDUSTRY INSIGHTS 2024 WEBCAST

January 8, 2024

Cox Automotive

## WHERE IT ALL CONNECTS

The most complete and connected ecosystem

## - Cox Automotive

Autotrader $(\mathbb{D}$
(D) CentralDispatch
(8) Dealer.com
(t) Dealertrack
(6) EV Battery Solutions
(F) FleetNet America

か)
Fleet Services
(14) Mannheim
© NextGear Capital
(V) vAuto
(i) VinSolutions
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## AGENDA

Time Check: 60 Minutes

Intro \& Cox Automotive
Forecast: 2024
New-Vehicle Market
Electric Vehicle Market
Wholesale and Used-Vehicle Markets
2024 Forecasts \& Playlist
Q\&A

Mark Schirmer, Director, Corporate Communications
Jonathan Smoke, Chief Economist
Charlie Chesbrough, Senior Economist
Stephanie Valdez Streaty, Director, Industry Insights
Jeremy Robb, Senior Director, Economic and Industry Insights
Jonathan Smoke, Chief Economist and Resident DJ
w/ Michelle Krebs, Executive Analyst
Erin Keating, Senior Director, Economic and Industry Insights



## FORECAST: 2024

5 themes to look for in '24

1. Slow Growth Ahead, But It Beats a Recession.
2. Vehicle Supply Is Back to Favoring Consumers, with Downward Pressure on Prices.
3. In 2024, We Officially Bid Farewell to the Seller's Market.
4. In the Electric Vehicle Market, 2024 Will Be the Year of More.

5. Car Buying in America: Normal Is Nice.


SLOW GROWTH AHEAD | An Economic Roadmap for 2024


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## SLOW GROWTH AHEAD | Weak but Stable Job Market

Quarterly Unemployment Forecast (U3 \%)


SLOW GROWTH AHEAD | An Economic Roadmap for 2024


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## SLOW GROWTH AHEAD | Inflation Declines in 2024

Inflation
—Base PPI y/y ——Base CPI y/y


SLOW GROWTH AHEAD | An Economic Roadmap for 2024


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## SLOW GROWTH AHEAD | Consumer Sentiment Improving

Morning Consult Index of Consumer Sentiment vs.
Average Price of Unleaded
—MC ICS ——AAA Ave Unleaded \$ (RH Axis)


SLOW GROWTH AHEAD | An Economic Roadmap for 2024


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## SLOW GROWTH AHEAD | Interest Rates Begin to Decline

Fed Funds Rate, 10 Year, and Average Auto Loan Rates
—US 10 Year Treasury ——New Auto Ave —Used Wtd Ave ——Fed Funds


SLOW GROWTH AHEAD | An Economic Roadmap for 2024


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## SLOW GROWTH AHEAD | Consumer Spending Growth Slows



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## NEW-VEHICLE MARKET

## CHARLIE CHESBROUGH

Senior Economist


## NEW-VEHICLE SALES | 2023 Finishes with 15.46 Million

A bumpy recovery since hitting bottom, and expected to continue through 2024
Monthly Light Vehicle Sales SAAR (millions)


## SALES CHANNELS | Fleet Sales Drive 2023 Gains

Pent-up rental and commercial demand unleashed, but further growth will be more difficult

YTD Change In 2023 Sales


Retail Share (Purchase-Lease) of Total Sales


OEM SALES | GM Wins Title - Honda Gains Most Share
While Toyota, Ford and Stellantis had tough year

| OEM | Q4 2022 | Q3 2023 | Q4 2023 | Y/Y Change | Q/Q Change | CY 2022 | CY 2023 | Change | Share 2022 | Share 2023 | Difference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GM | 618,692 | 669,234 | 619,834 | 0.2\% | -7.4\% | 2,258,429 | 2,577,648 | 14.1\% | 16.3\% | 16.5\% | 0.3\% |
| Toyota | 536,740 | 590,296 | 619,661 | 15.4\% | 5.0\% | 2,108,457 | 2,248,477 | 6.6\% | 15.2\% | 14.4\% | -0.8\% |
| Ford | 479,769 | 497,108 | 484,458 | 1.0\% | -2.5\% | 1,850,925 | 1,981,332 | 7.0\% | 13.3\% | 12.7\% | -0.6\% |
| Hyundai | 386,898 | 430,302 | 402,339 | 4.0\% | -6.5\% | 1,474,224 | 1,652,821 | 12.1\% | 10.6\% | 10.6\% | 0.0\% |
| Stellantis | 347,669 | 380,563 | 343,552 | -1.2\% | -9.7\% | 1,547,076 | 1,527,090 | -1.3\% | 11.1\% | 9.8\% | -1.3\% |
| Honda | 255,250 | 339,143 | 337,511 | 32.2\% | -0.5\% | 983,507 | 1,308,186 | 33.0\% | 7.1\% | 8.4\% | 1.3\% |
| Nissan Mitsu | 211,768 | 239,074 | 221,351 | 4.5\% | -7.4\% | 815,160 | 986,136 | 21.0\% | 5.9\% | 6.3\% | 0.5\% |
| Tesla | 131,574 | 156,621 | 161,375 | 22.6\% | 3.0\% | 522,444 | 654,888 | 25.4\% | 3.8\% | 4.2\% | 0.4\% |
| VW | 143,979 | 167,279 | 176,248 | 22.4\% | 5.4\% | 558,009 | 632,994 | 13.4\% | 4.0\% | 4.1\% | 0.0\% |
| Subaru | 155,466 | 163,131 | 164,863 | 6.0\% | 1.1\% | 556,581 | 632,083 | 13.6\% | 4.0\% | 4.1\% | 0.0\% |
| BMW | 112,057 | 91,849 | 108,795 | -2.9\% | 18.4\% | 361,892 | 385,927 | 6.6\% | 2.6\% | 2.5\% | -0.1\% |
| Mazda | 79,517 | 88,834 | 90,737 | 14.1\% | 2.1\% | 294,909 | 363,354 | 23.2\% | 2.1\% | 2.3\% | 0.2\% |
| MercedesBenz Group | 88,493 | 90,011 | 92,992 | 5.1\% | 3.3\% | 350,949 | 354,723 | 1.1\% | 2.5\% | 2.3\% | -0.3\% |
| Geely Volvo | 32,655 | 36,098 | 39,561 | 21.1\% | 9.6\% | 111,509 | 140,590 | 26.1\% | 0.8\% | 0.9\% | 0.1\% |
| Tata JLR | 21,806 | 21,059 | 21,338 | -2.1\% | 1.3\% | 68,546 | 80,101 | 16.9\% | 0.5\% | 0.5\% | 0.0\% |
| Rivian | 8,054 | 15,564 | 13,972 | 73.5\% | -10.2\% | 20,332 | 50,122 | 146.5\% | 0.1\% | 0.3\% | 0.2\% |
| Lucid | 1,060 | 1,457 | 1,512 | 42.6\% | 3.8\% | 2,656 | 5,779 | 117.6\% | 0.0\% | 0.0\% | 0.0\% |
| Vinfast | 0 | 1,159 | 1,120 | - | -3.4\% | 0 | 3,129 | - | 0.0\% | 0.0\% | 0.0\% |
| Fisker | 0 | 997 | 1,672 | - | 67.7\% | 0 | 2,669 | - | 0.0\% | 0.0\% | 0.0\% |
| NATION | 3,611,447 | 3,979,779 | 3,902,891 | 8.1\% | -1.9\% | 13,885,605 | 15,588,049 | 12.3\% | 100.0\% | 100.0\% | 0.0\% |

NEW-VEHICLE INVENTORY | Finished Up 51\% vs. Last Year
Currently over 900K more units than last year, days of supply at 71 - up 20\%


500,000

Days of Supply weekly


BRAND INVENTORY | Supply Situation Remains Varied
Some brands remain in limited availability while others have accumulation


## CHANGING PRICES | Seller's Market Shifting Towards Buyers

Incentives rising again and price strength is eroding


## DEALER SENTIMENT | Price Pressure Having Impact

As the market returns to normal so is profitability


Growing
Strong

Declining Weak

## ELECTRIC VEHICLE MARKET

## STEPHANIE VALDEZ STREATY

Director, Industry Insights


## EV SALES ESTIMATES | Record Year, Growth Slows

Q4 up only slightly from Q3; year over year growth of 46\% pushes total sales to 1.1 million


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## EV SALES ADOPTION | Uneven, An Opportunity

Low penetration of EVs in some states suggests product knowledge, value proposition and consumer interest lacking


## EV Share of

 Retail SalesCALIFORNIA
21.1\%

WASHINGTON
15.4\%

NEW JERSEY
10.3\%

NATION 7.4\%
CONNECTICUT 6.6\%
TEXAS $5.4 \%$
NEW YORK 4.7\%
PENNSYLVANIA $4.1 \%$
MICHIGAN $3.1 \%$
OHIO 3.0\%
WEST VIRGINIA 1.1\%
NORTH DAKOTA
0.7\%

## EV INVENTORY | Well Above Industry Average

EV inventory increased by $92 \%$ in 2023, averaging 113 days' supply to end the year


## EV TRANSACTION PRICE | Tesla Leads the Way Down

EV prices near parity with ICE, driven by surplus inventory, higher incentives and competition


## EV LEASING | Expected to Rise Further in 2024

Electric vehicle leases continue to increase with stricter eligibility for IRA tax credits.


## POWERTRAIN SHARE ESTIMATES | $24 \%$ in 2024

Role of alternatives rising and will accelerate in coming years.


## EV STAMPEDE｜More Models，More Choice，More Sales

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## EVs AT AUCTION: | Increased Year Over Year at Manheim

Q4 EV transactions growth climbed, +73\% year over year though unit sales were down against prior quarter


## MANHEIM USED VEHICLE VALUE INDEX

## Concept

A single measure of used vehicle price change that is independent of underlying segment shifts in the characteristics of vehicles being sold

## Steps

1. All Manheim U.S. sales
2. Classify by market segment
3. Account for differences in mileage
4. Weight to provide smoother segment mix
5. Seasonally adjust

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## WHOLESALE VALUE | Down in December and Year Over Year

Prices declined 0.5\% from November and were down 7.0\% from December 2022


## THE MUVVI INDEX | A Natural Upward Bias

MUVVI values typically rise by $2.3 \%$ each year on the index, as higher price units enter the sample


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## MMR VALUE TRENDS | Indications of Normalization

Depreciation trends were a bit stronger for most of Q4, with the overall index ending at 84.6\%


## AUCTION CHECK-INS | Off-Lease Volume Remains Low

Repo \& lease check-in rates continue to rise, but a long road to normal for off-lease


## WHOLESALE FLOW | Steady Rise After Hitting Low in 2022

After 13\% decline in 2022, wholesale market should see gradual recovery to 2020 levels by 2028
Estimated Wholesale Volumes by Inflow Channel (Annual Volume)


## RETAIL USED SALES | Constrained Market, Down in 2023

Weekly sales estimates declined at the end of December, up 4\% Y/Y for Week 52; YTD -3\%


## RETAIL USED INVENTORY | Steady Improvement Since Spring

Total supply up 2\% or 37K from last year; Days' supply at 56, down 3\% from the end of 2022

Available Supply weekly


Days of Supply weekly


## RETAIL USED PRICES | Downward Price Pressure Continues

Listing price held lower than 2022 all year and was flat in December


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2024
FORECASTS
Jan. 8, 2024

## 2024 PLAYLIST



Everytime We Touch
By Cascada
Slow Growth Ahead


The Weapon of Choice By Fatboy Slim

Vehicle Supply Is Back to Favoring Consumers


The Pursuit of Happiness (Steve Aoki Remix) By Kid Cudi
Bid Farewell to the Seller's Market


Gonna Make You Sweat (Everybody

Dance Now)
By C+C Music Factory

Year of More


It's Not Unusual By Tom Jones

Normal Is Nice


## MORE AUTO INDUSTRY DATA AND <br> 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: www.coxautoinc.com/marketsnapshot
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 an expert:

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