



# Automotive Market Trends

## Q1 2022

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**Marty Miller**

Director, Product Data and Implementation

June 2022



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# Today's speaker

## Marty Miller

Director, Product Data and Implementation  
Experian Automotive

### What's on the road

VIO by model year, segment, age and market share

U.S. light duty vehicles through March 31, 2022.

New, Used and other market changes Industry news  
and special market analysis:

- *Average Vehicle Age Myths & Facts*
- *Used Vehicle Market Analysis*
- *Electric Vehicle Market Analysis*



# Experian Automotive

Driving the automotive industry forward

**The right vehicles. The right customers.  
The right data to know the difference.**

- We deliver an integrated perspective using the highest quality automotive information and market intelligence focused on these key areas:
  - **Automotive Credit**
  - **Automotive Marketing**
  - **Vehicle Market Statistics**
  - **AutoCheck<sup>®</sup> Vehicle History**
- Our success comes from delivering actionable insights and lasting partnerships with our clients

<https://www.experian.com/automotive/auto-data>

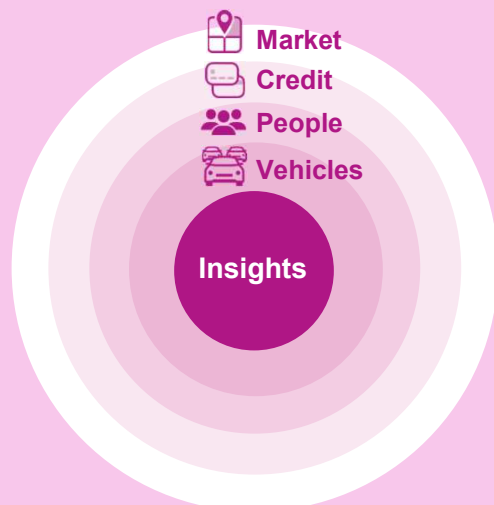
# The power of Experian data

Your unified source of automotive data. Enabling you to link insight into action



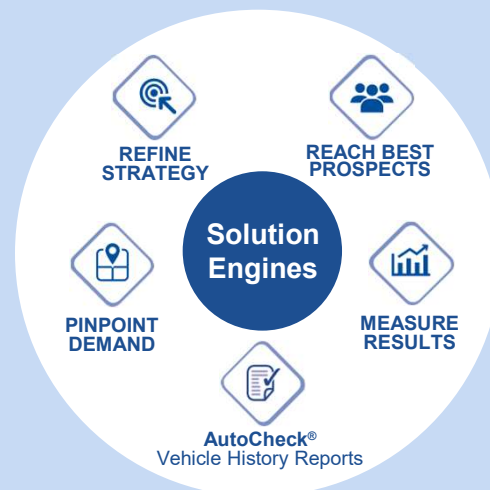
## Best-in-class data, unified and enhanced

Experian's vehicle, consumer, online and credit data enable unified data intelligence to identify and target vehicle buyers.



## Creating unparalleled market-wide insights

Use our unparalleled insights to turn competitive market strategies into action.

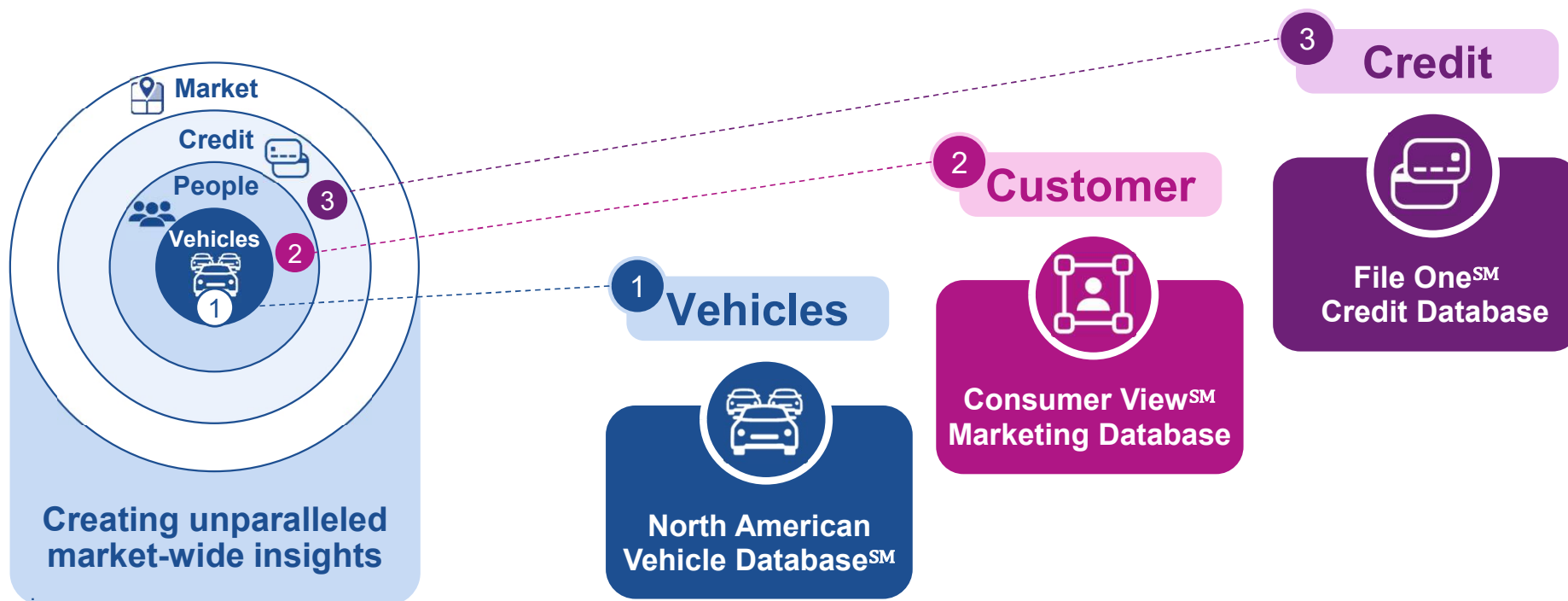


## Powering innovative solution engines that drive results

For instance, Experian marketing solutions pinpoint car shoppers, automate media planning and optimize results with the most sophisticated attribution models.

# It takes 3 things to sell a vehicle...

Experian is the only primary data source for all 3



# U.S. & Canada total Vehicles in Operation (VIO) = 333.2M

## Light Duty

Passenger Cars, Light Trucks, Vans  
Cars and GVW Class 1 – 3

## Medium & Heavy Duty

Large Vans, Delivery Trucks, Buses, RVs,  
Cement Trucks, Semi-Tractors  
GVW Class 4 - 8

## Power Sports

Motorcycles, All-Terrain,  
Utility Task, Snowmobiles



### Types of vehicles by weight class

#### Cars and CUVs



#### CLASS 1 6,000 lbs. or less



#### CLASS 2 6,001 to 10,000 lbs.



#### CLASS 3 10,001 to 14,000 lbs.



#### CLASS 4 14,001 to 16,000 lbs.



#### CLASS 5 16,001 to 19,500 lbs.



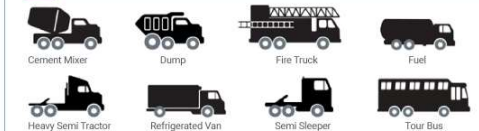
#### CLASS 6 19,501 to 26,000 lbs.



#### CLASS 7 26,001 to 33,000 lbs.



#### CLASS 8 over 33,000 lbs.



#### Power sports



# Q1 2022 Velocity Vehicles in Operation

What's on the road today?

## LIGHT DUTY VEHICLES



# Changes in U.S. vehicles in operation

Light duty vehicles\* over the last 12 months

Q1 2022 Total\*

**283.9**  
MILLION

Vehicles on the road

Q1 2022 VIO changes



**14.5**  
MILLION  
NEW Vehicles  
Registered



**11.2**  
MILLION  
Vehicles went  
out of operation



**41.8**  
MILLION  
USED vehicles  
changed owners

=



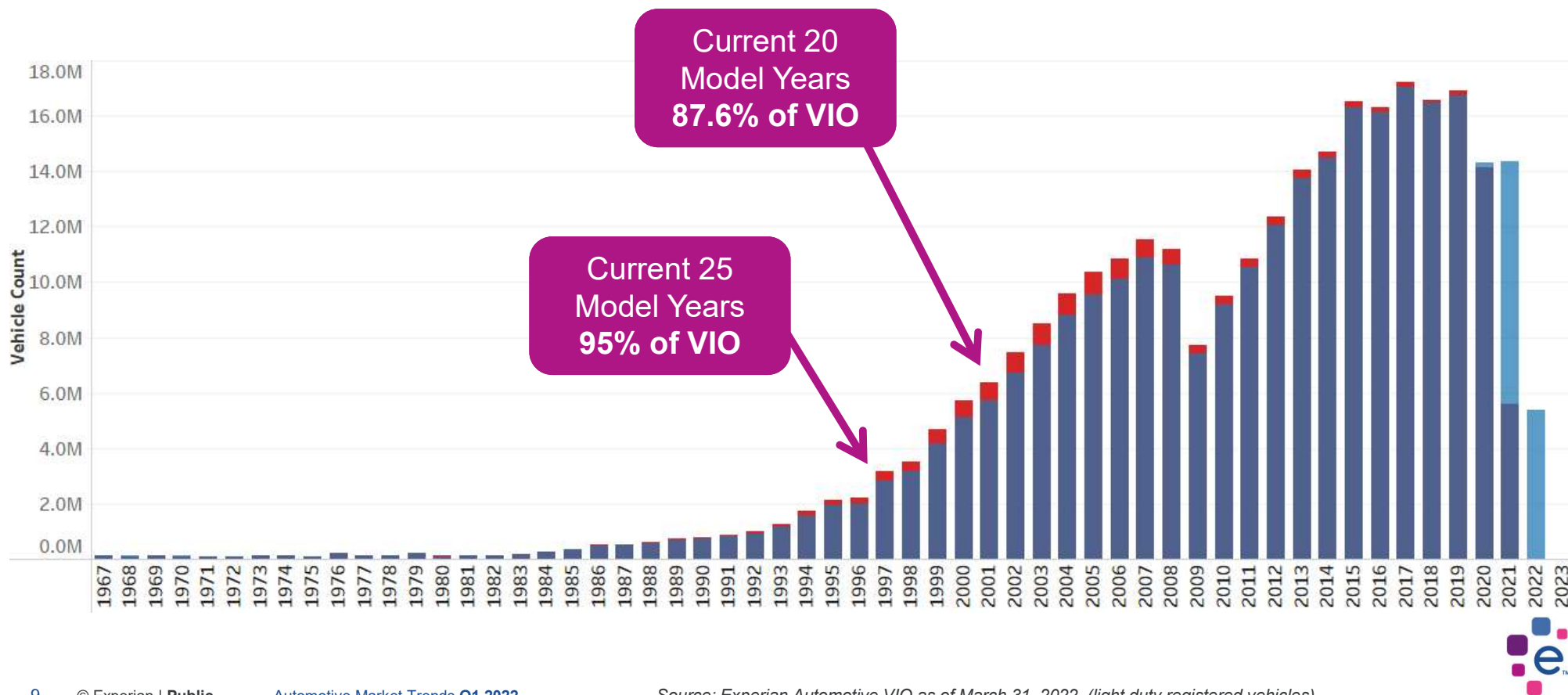
**29.8%**  
Total VIO  
changes<sup>1</sup>

\*U.S. Vehicles in Operation data as of March 31, 2022 sourced from Experian Automotive, including U.S. and Puerto Rico (U.S. light duty vehicles only).  
1 – includes estimated annual households that relocated with the same vehicle(s)

# U.S. VIO change by Model Year (in millions)

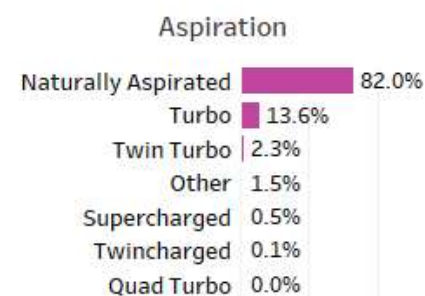
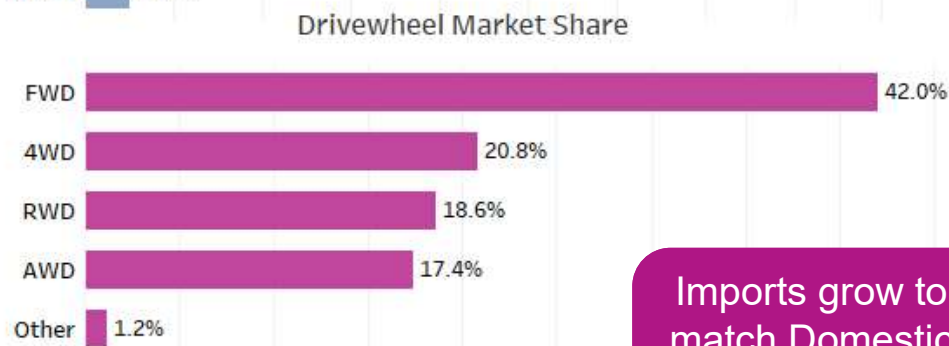
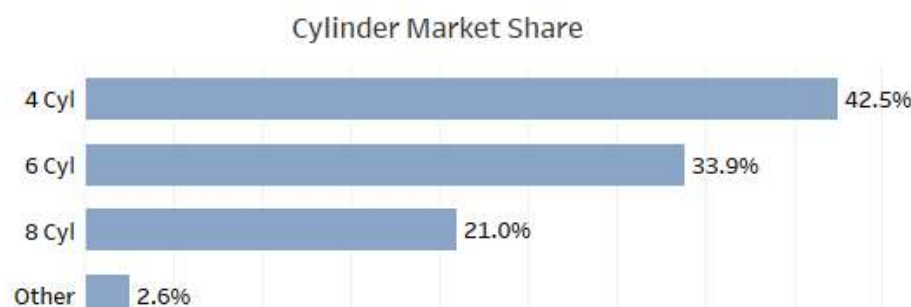
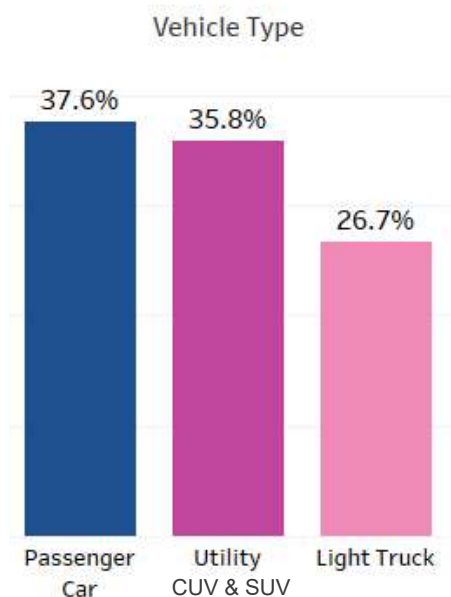
Q1 2021 to Q1 2022

Out of operation  
New vehicle sales  
Carryover vehicles



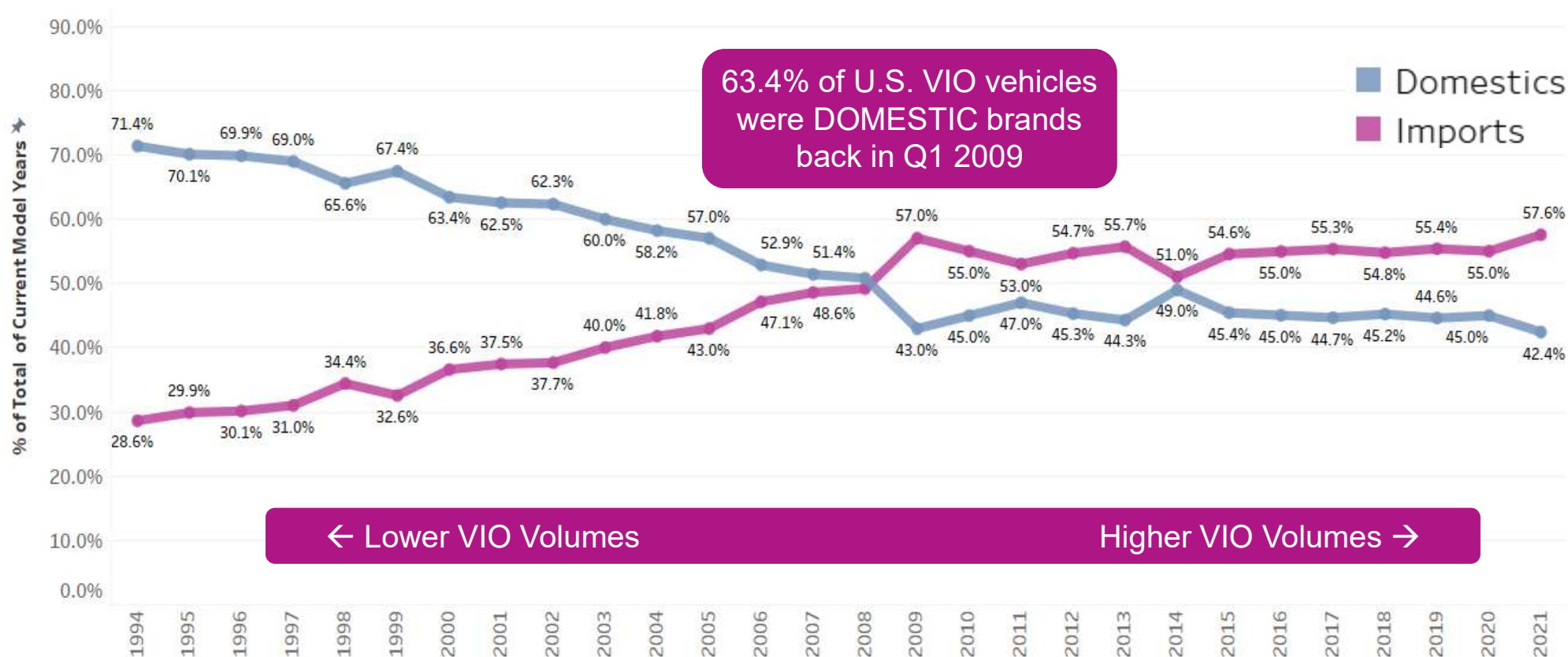
# U.S. Summary Stats – for all light duty VIO

as of Q1 2022



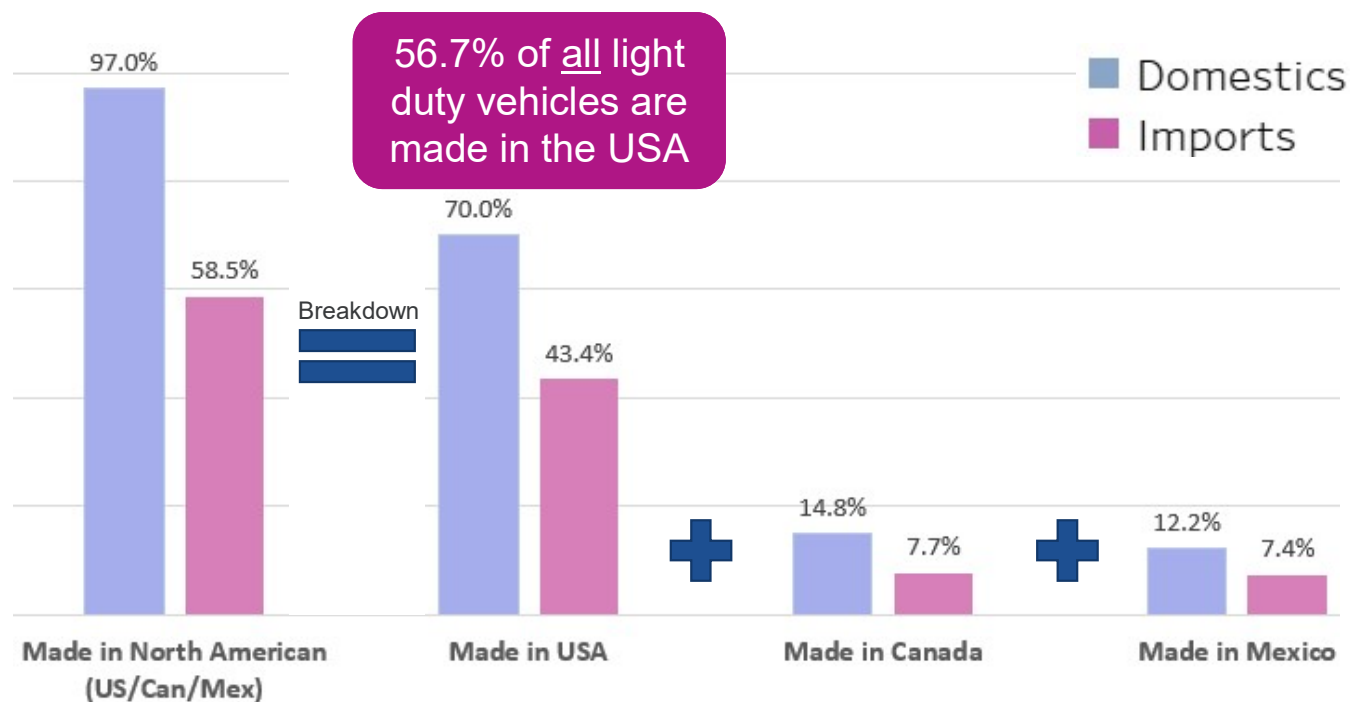
Imports grow to match Domestic brands in U.S. for the 1<sup>st</sup> time

# What changed for brands? Current VIO mix of Dom/Imp brands



# Where are they made? Current VIO mix of Dom/Imp brands

56.7% of all light duty vehicles on U.S. roads today were produced in the U.S.A. (Dom and Imp)



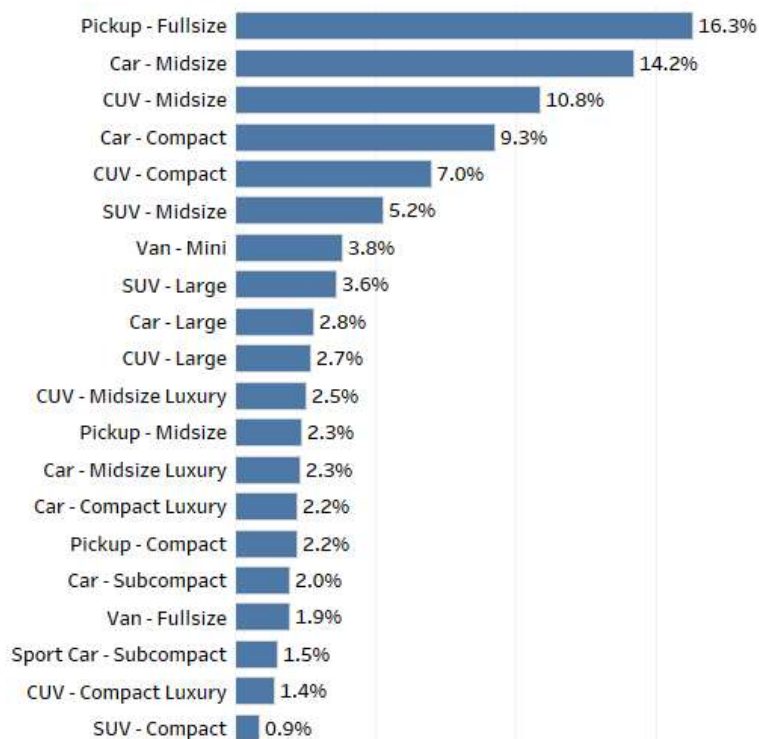
22.2% of IMPORT brand vehicles were produced in Japan (largest country supplier outside N.A.)

Of all vehicles produced in the U.S.A., 61.8% of vehicles are DOMESTIC brands

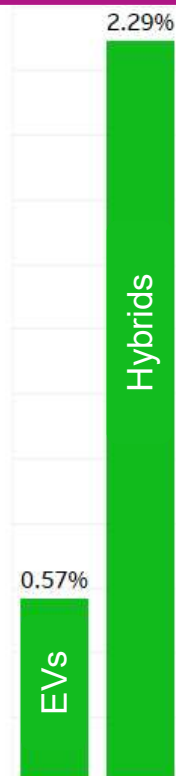
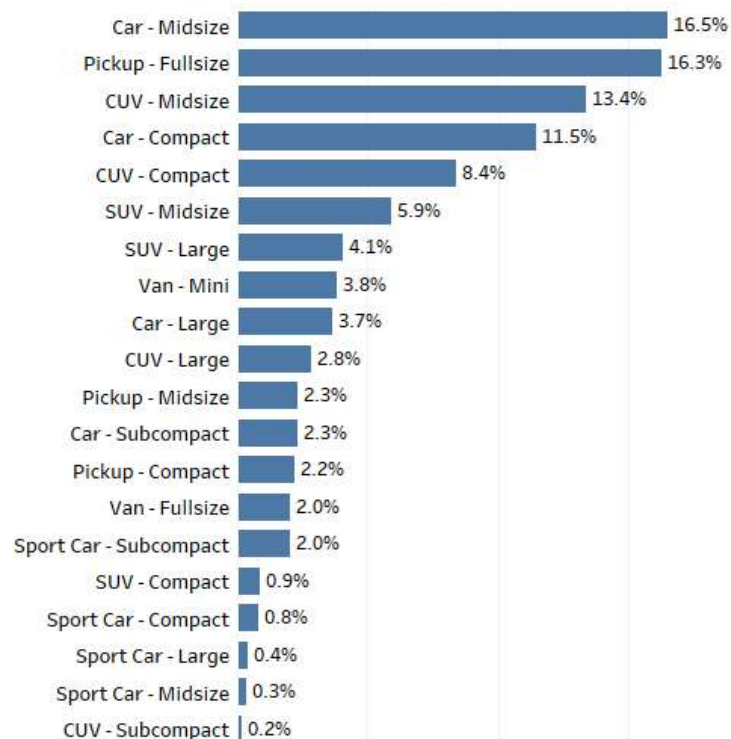
# U.S. VIO Top 20 segments on the road market share

Hybrid, Electric & Hydrogen Vehicles

Top 20 Vehicle Segments with Class

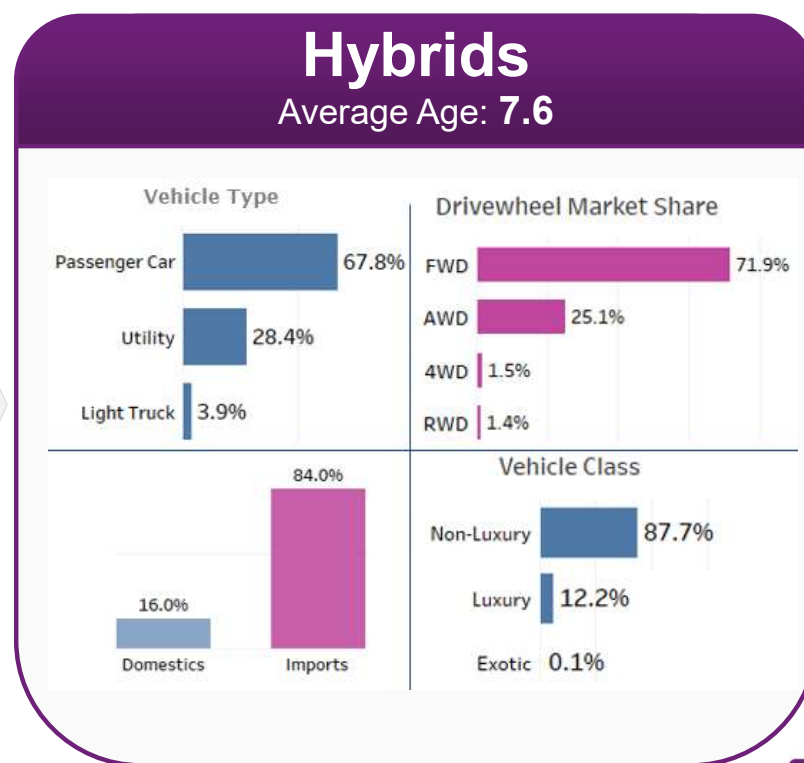
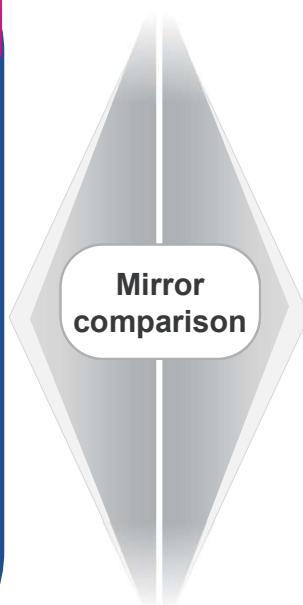
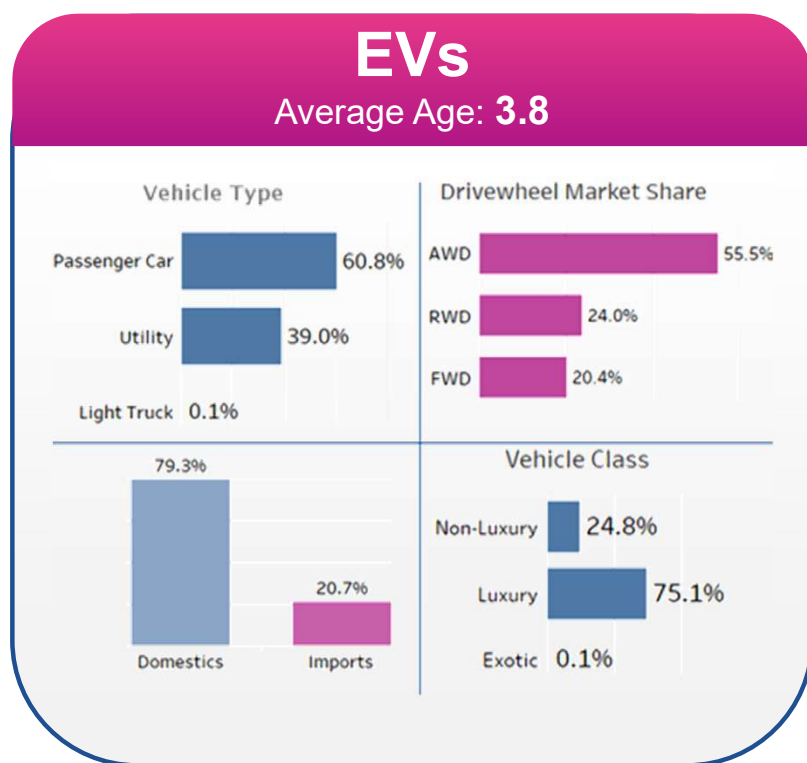


Top 20 Vehicle Type and Size (no Class)



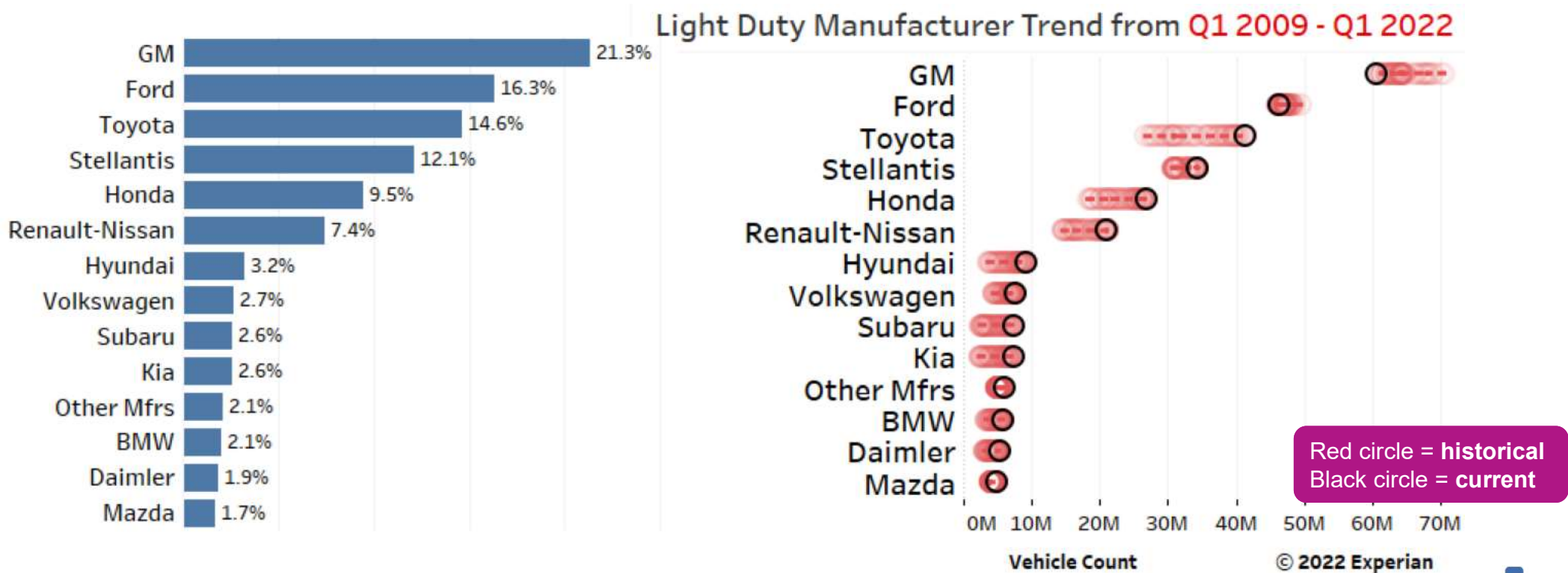
# U.S. Vehicles in Operation

## EVs versus Hybrids – Mirror comparison



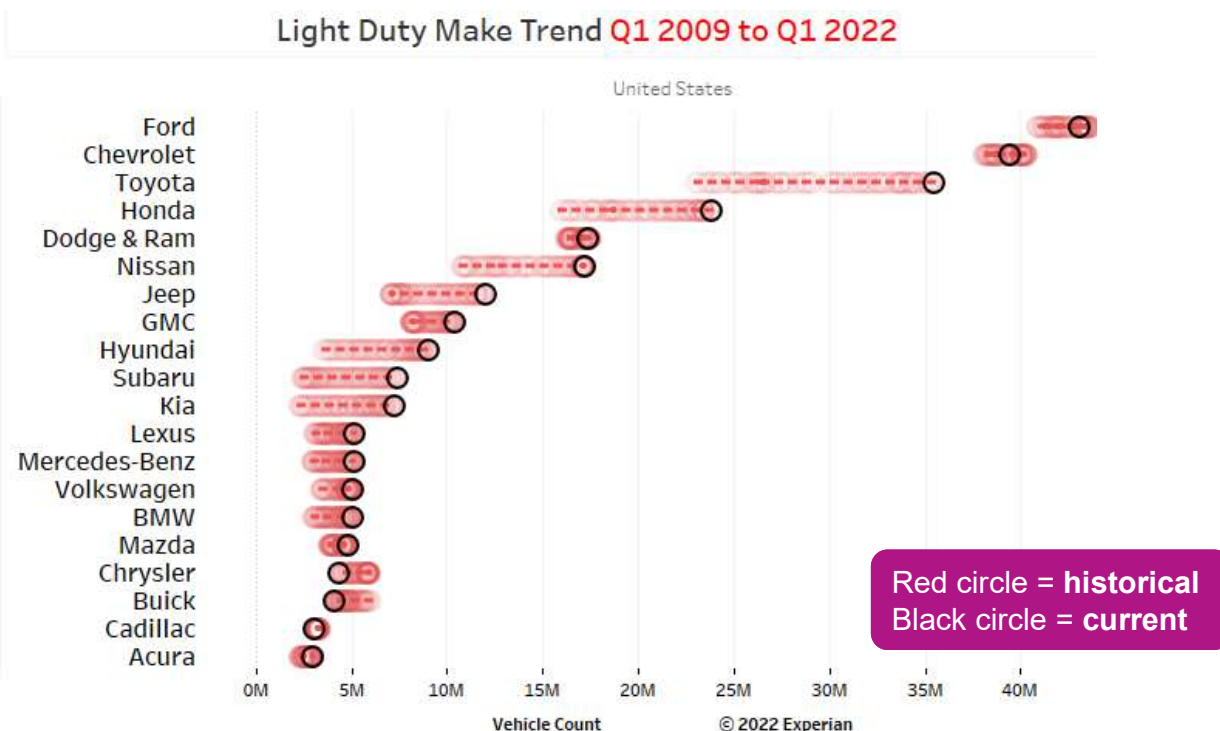
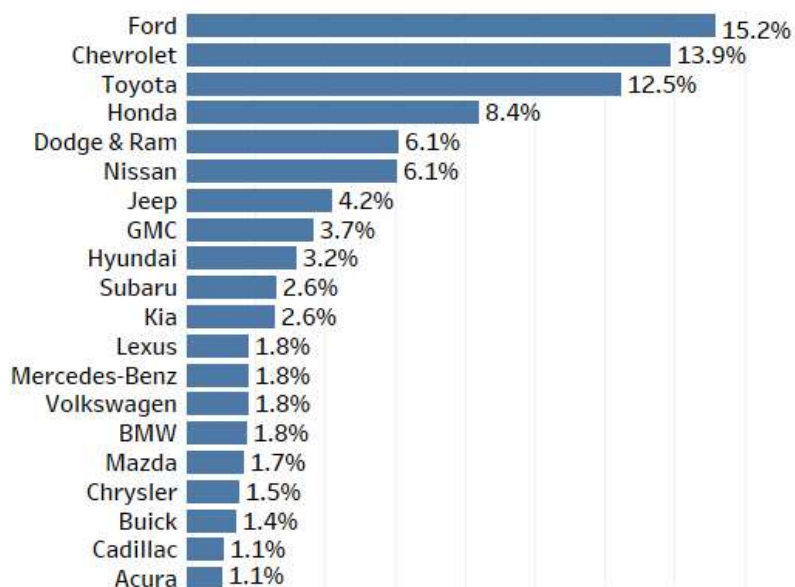
# U.S. VIO by manufacturer market share vs volume trend

GM declining, Toyota growing



# U.S. VIO Top 20 brands market share vs volume trend

Chevrolet down, Toyota up



# The aftermarket “Sweet Spot” overview

“Post” and “Pre” Sweet Spot defined

## The Aftermarket “Sweet Spot”

- 6 to 12 model year old vehicles
- Aged out of general OEM manufacturer warranties for any repairs
- Likely require more part replacement & services (e.g. shocks, timing belt service, engine repairs) that may be performed by aftermarket service shops using parts from aftermarket part manufacturers
- Sizing the Sweet Spot helps identify overall market potential and changes can have implications to those that service it

## “Post Sweet Spot” vehicles

- 13 model years old & older
- Less costs may be spent to service them due to their age and lower vehicle value

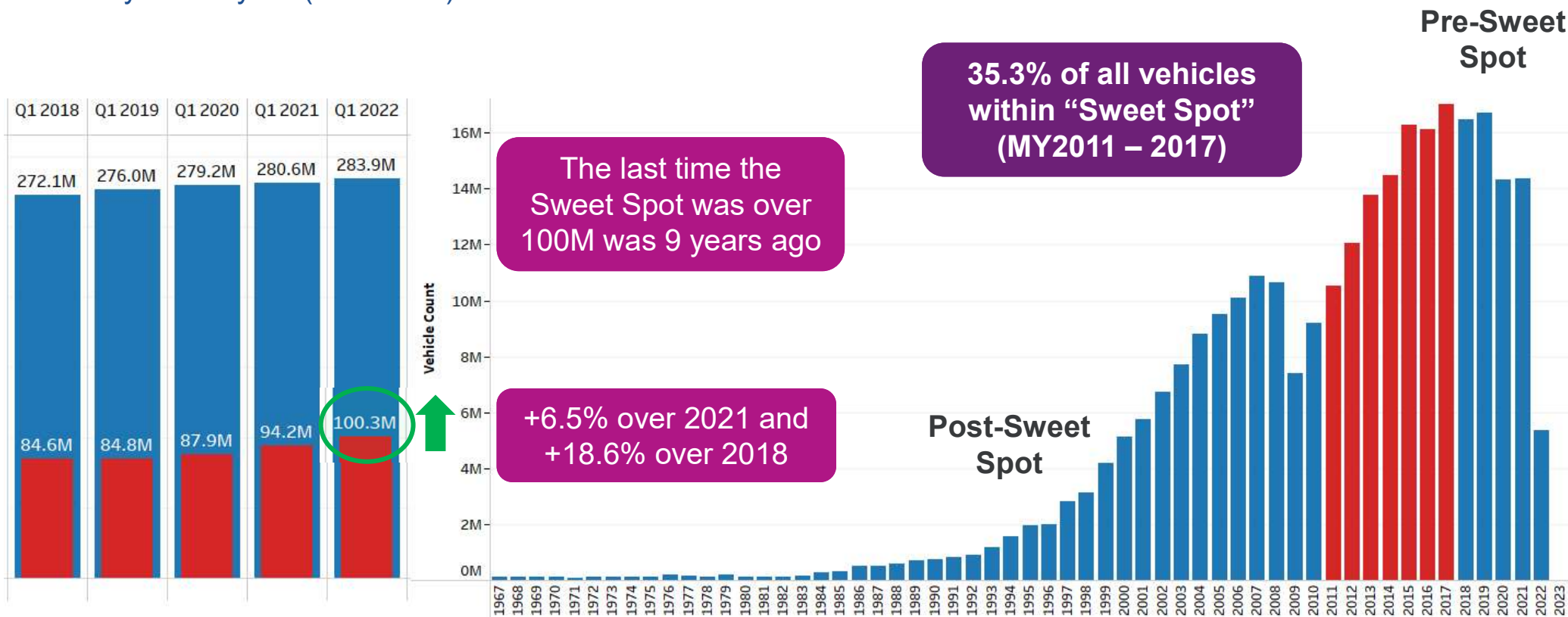
## “Pre Sweet Spot” vehicles

- 5 model years old & newer; many covered by the vehicle’s manufacturer warranty
- Identifies models coming into the Sweet Spot



# U.S. trend of total VIO compared to sweet spot volumes

VIO by model year (in millions)



# U.S. Sweet Spot

## Opportunities and Growth

Highest Sweet Spot Volume: **104M** (Q1 2011)

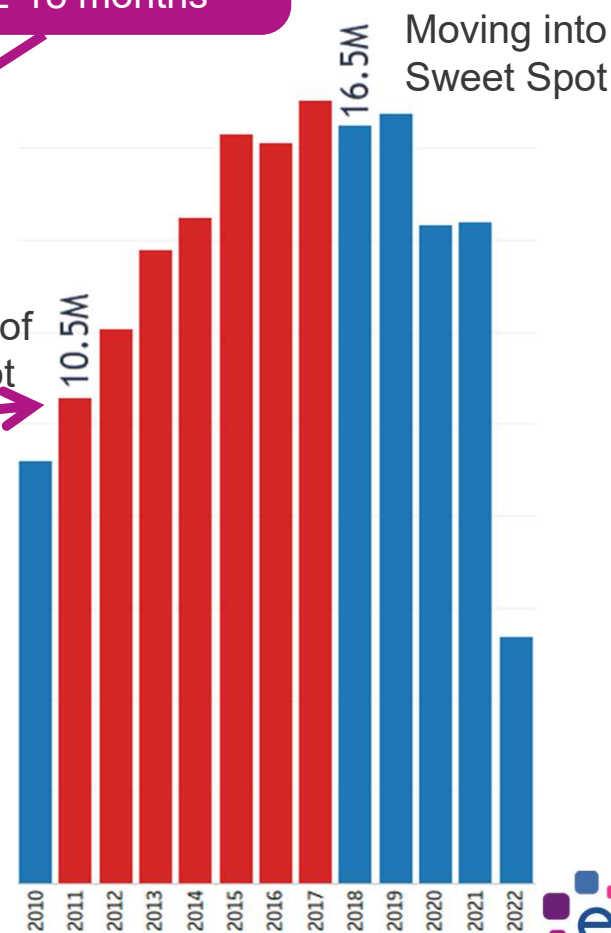
Highest Sweet Spot Share of VIO: **43.2%** (Q1 2010)

(VIO 2008 and newer)

This max volume record will be broken over the next 12-18 months

Moving out of Sweet Spot

Over the next few years, more opportunities for Sweet Spot growth are coming as low volume Model Years in 2011, 2012 are replaced by higher volume Model Years in 2018, 2019



# U.S. Average Vehicle Age – What is it?

## *Facts*

### What it is...

- A metric that shows the overall mean (average) age of vehicles based on a calculation of the age times the volume of the vehicles in operation
- The metric is affected by an increase or decrease in the new vehicle registrations over time
  - A decrease in new vehicles increases the average age initially
- The overall **average age will naturally increase** every year as more model years and vehicles are added to the base of vehicles on U.S. roads

## *Myths*

### What the Average Age does not indicate...

- Vehicles are **lasting longer or more durable**
- People are owning or **keeping their vehicles longer**
- Signals potential growth or decline for **Aftermarket service dollars**



# **Myth:** Higher Avg Age = ‘More durable’ or ‘Longer lasting’

Question – How would you define a durable or longer lasting vehicle?



A 15-year-old pickup with 380,000 miles, engine has failed and needs replacement, transmission needs fixed and cost to repair everything is \$12,000; Current market value \$3,700 if operational.



A 15-year-old sports car with 36,000 miles, runs though in need of \$12,000 in service; Current market value \$71,000

The pickup in this example has clearly had frequent use, seems ‘durable’ for lasting 380k miles, but is likely to go out of operation due to the costs to repair vs vehicle value. Once out of operation, it is not used in the Avg Age calculation.

The sports car, in great shape and low miles, clearly worth fixing because of high market value, has an owner who can afford an expensive vehicle and is likely to invest more money into to retain the value and keep it operational. Does that make this vehicle longer lasting or more durable than the pickup?

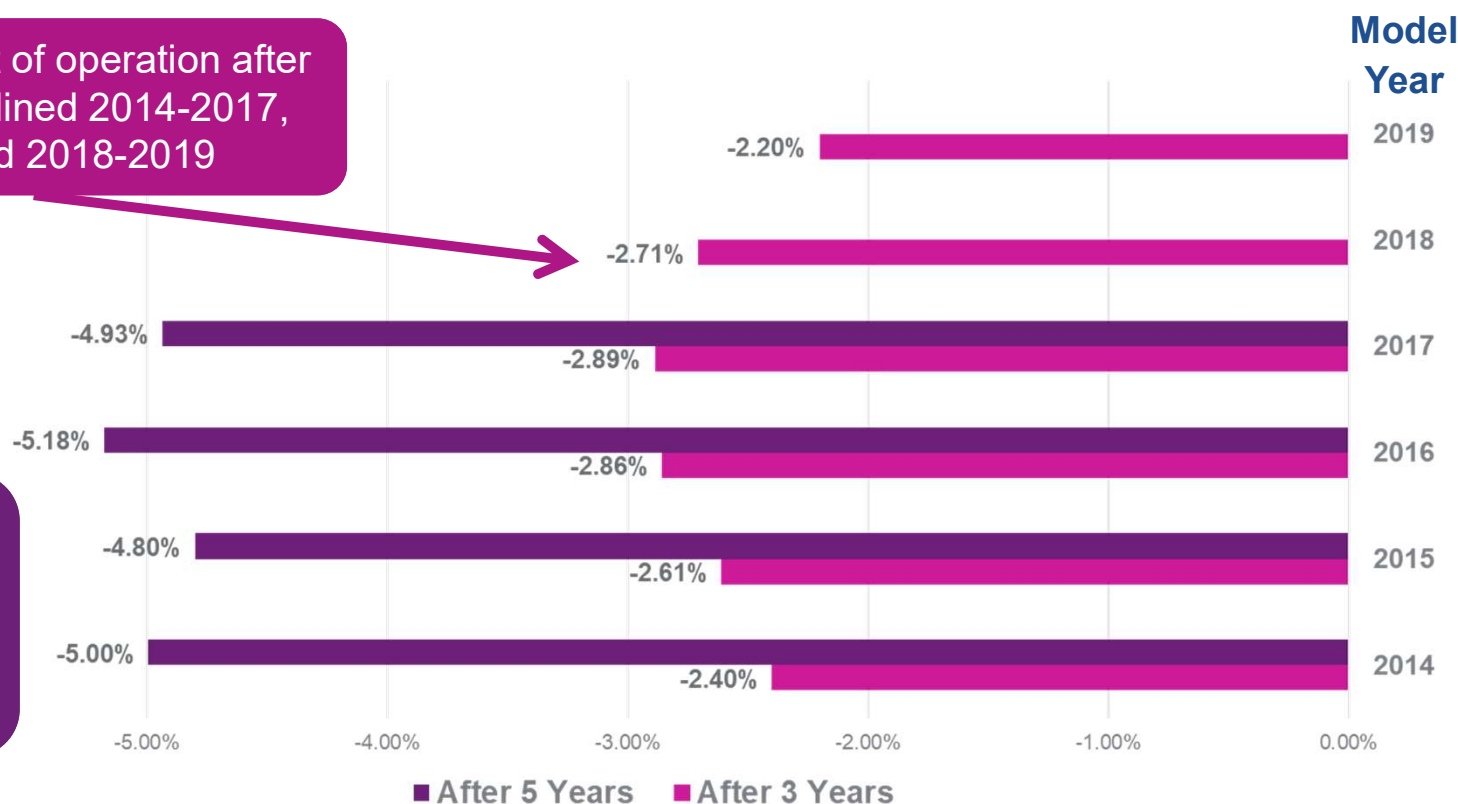
The **Avg Age** metric measures the mean of an ever-growing market size and does not relate to durability or longer lasting.

# Myth: Higher Avg Age = 'More durable' or 'Longer lasting'

Analysis of Model Year changes over time demonstrate various changes not effected by Avg Age

Varying % out of operation after 3 years, declined 2014-2017, improved 2018-2019

Varying % out of operation after 5 years, inconsistent



**Debunked!**  
The Avg Age metric does not relate to durability or longer lasting



## Myth: Higher Avg Age = 'longer ownership'

Are people really hanging onto their vehicles longer than in the past?

**Debunked!**  
The Avg Age  
metric does not  
relate to longer  
ownership

	Calendar Year				
Vehicle Type	2018	2019	2020	2021	Q1 2022
Exotic	3.00	3.04	3.11	3.01	N/A
Luxury	4.41	4.29	4.19	4.10	4.16
Non-Luxury	4.88	4.81	4.73	4.57	4.36
All Vehicles	↑ 4.81	↓ 4.73	↓ 4.65	↓ 4.50	↓ 4.35
Avg Age	↑ 11.54	↑ 11.61	↑ 11.72	↑ 11.88	↑ 12.10

Length of ownership (in years)  
varies by vehicle type

Length of ownership **decreasing** since 2019

Avg Age **increased** each year



**Myth:** Avg Age = Growth for Aftermarket service \$\$

**Fact:** Avg Age - Use a weighted calculation

All vehicles 1967+ (includes collector vehicles) vs Current 25 Model Years (weighted)



FALSE-POSITIVE  
Includes a larger vehicle base than prior years

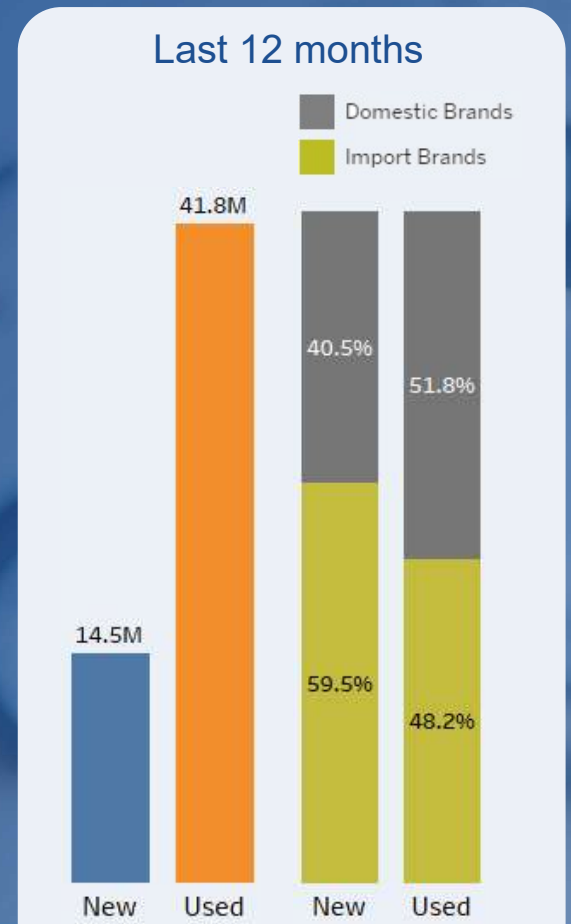
Uses a weighted "Apples-to-Apples" comparison

A **weighted** Avg Age calculation focuses more on daily driver vehicles, not collectible vehicles

Debunked! As new registrations lower, it causes the weighted Avg Age to increase – meaning less Sweet Spot \$\$\$ in the near future

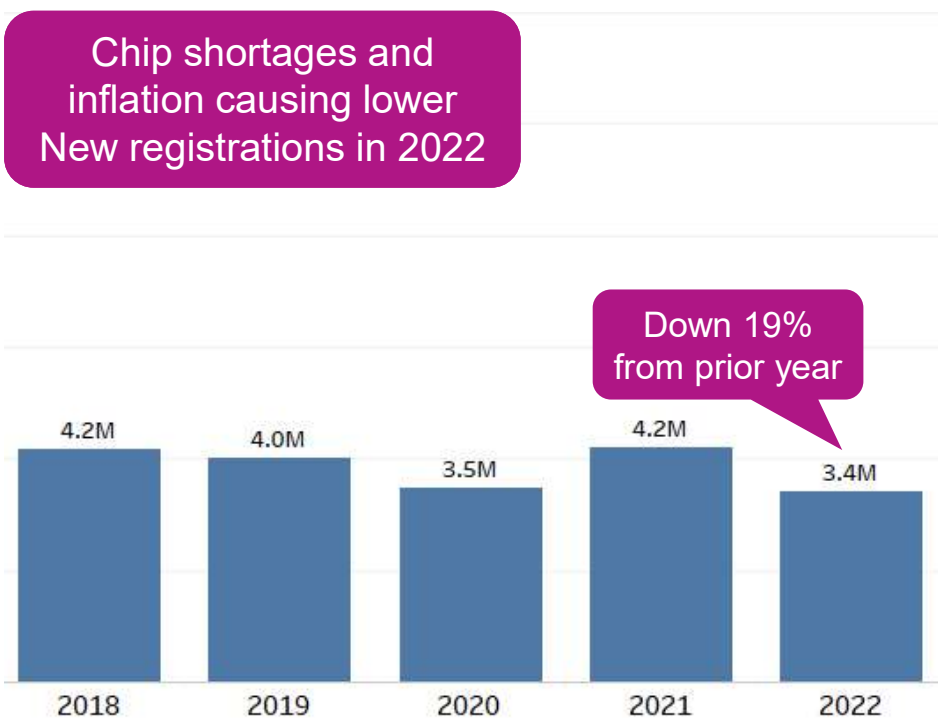
# Q1 2022 New & Used Vehicles

- Volumes of New vs Used and Domestic vs Import over the last 12 months
- Market analysis through the 1st quarter
- Chip shortages continue and scrambles for Used vehicles drives up market prices

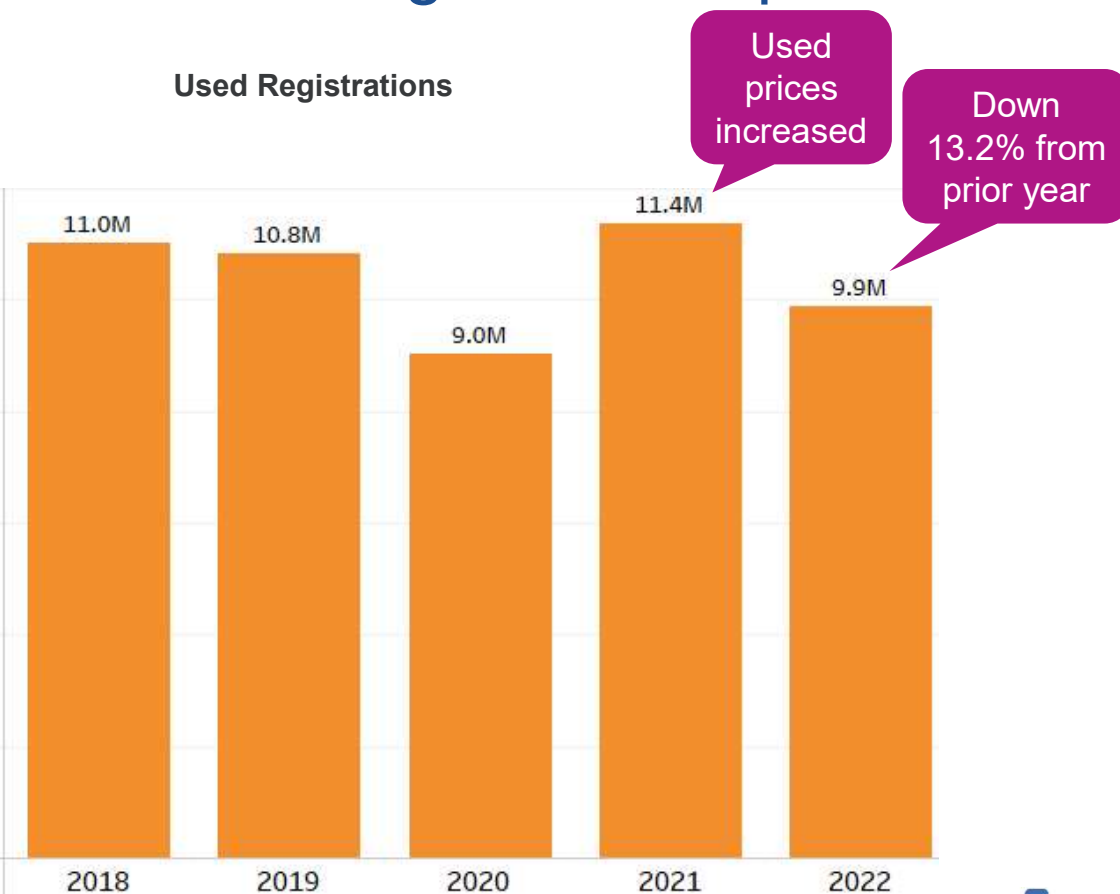


# New and Used vehicle registrations through the 1st quarter

New Registrations

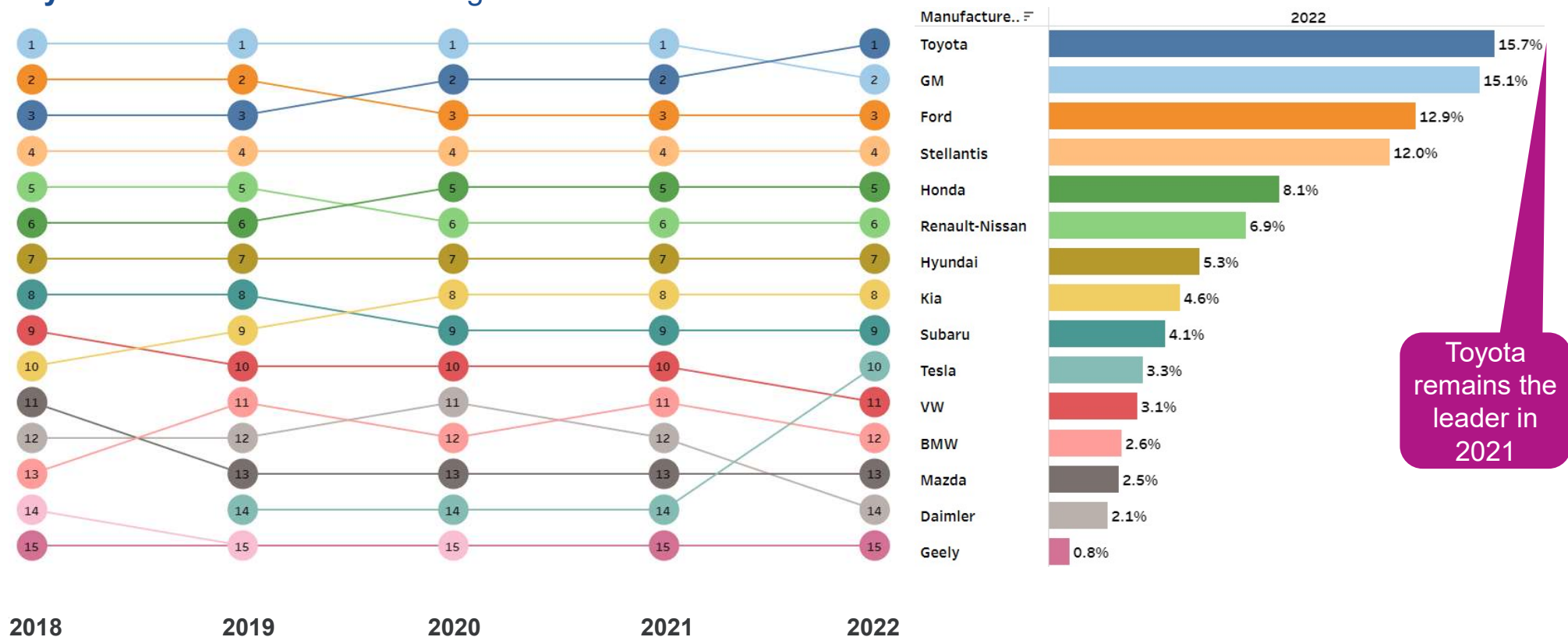


Used Registrations



# New vehicle Mfr rank and share through the 1st quarter

By manufacturer – Total new registrations

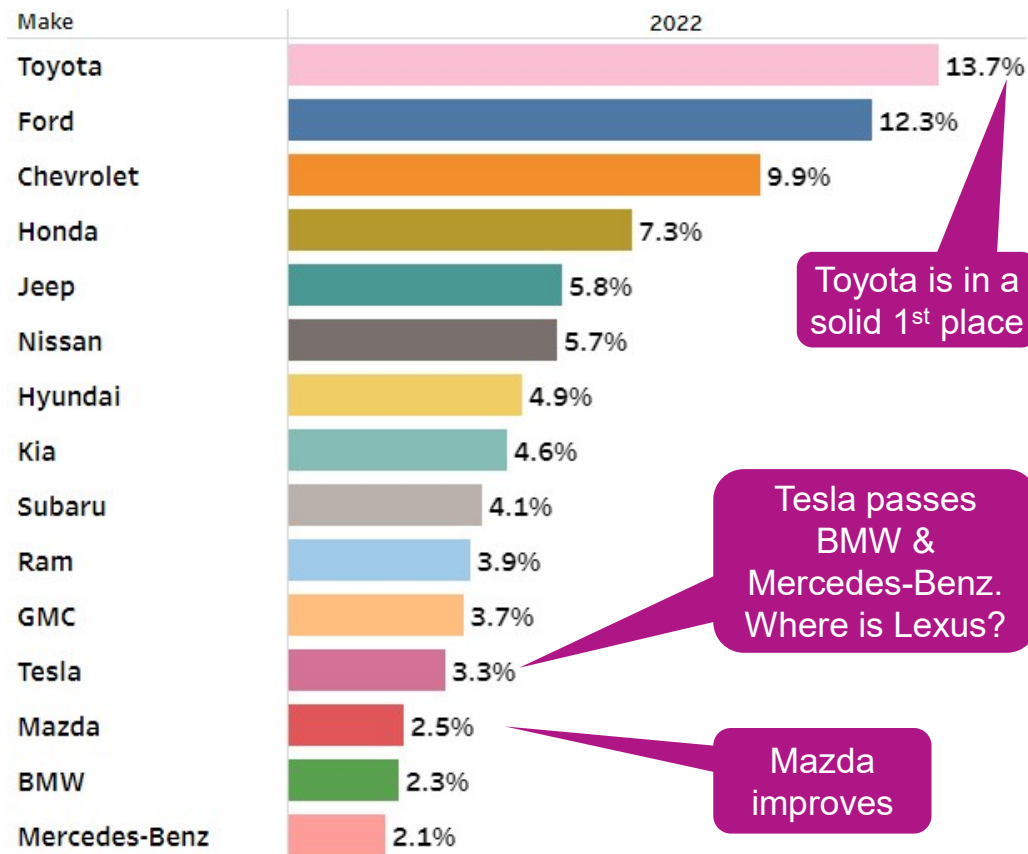
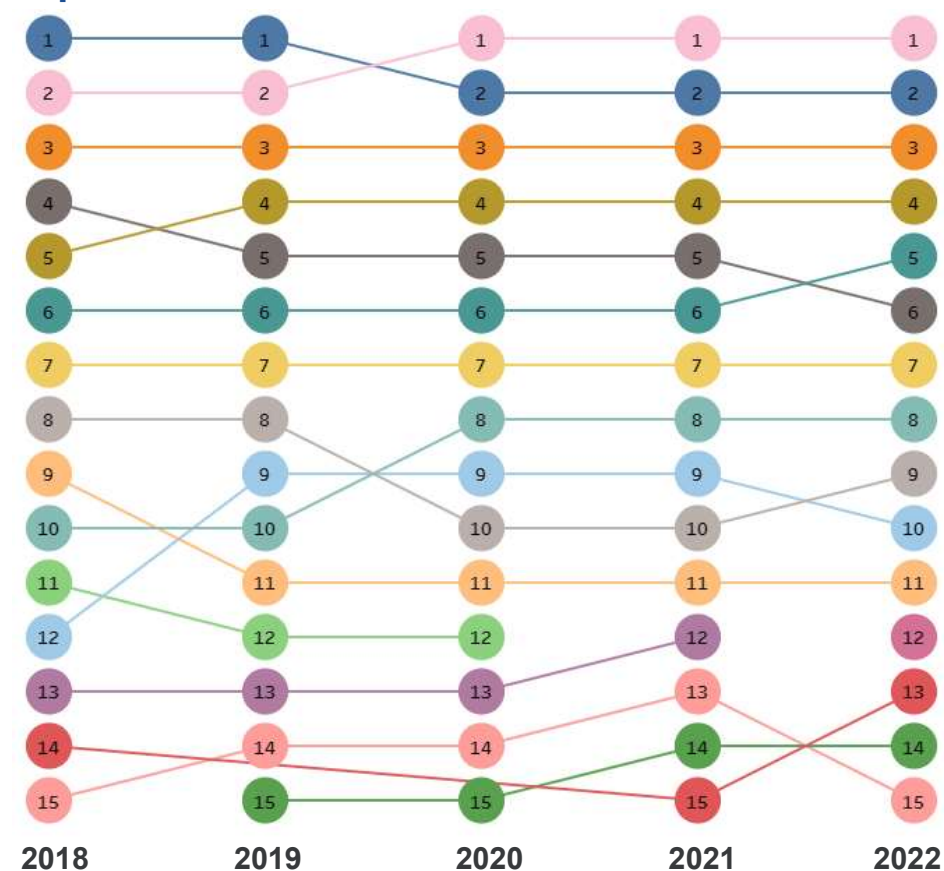


Toyota remains the leader in 2021



# New vehicle Make rank and share through the 1st quarter

## Top 15 brands – Total Share



Toyota is in a solid 1<sup>st</sup> place

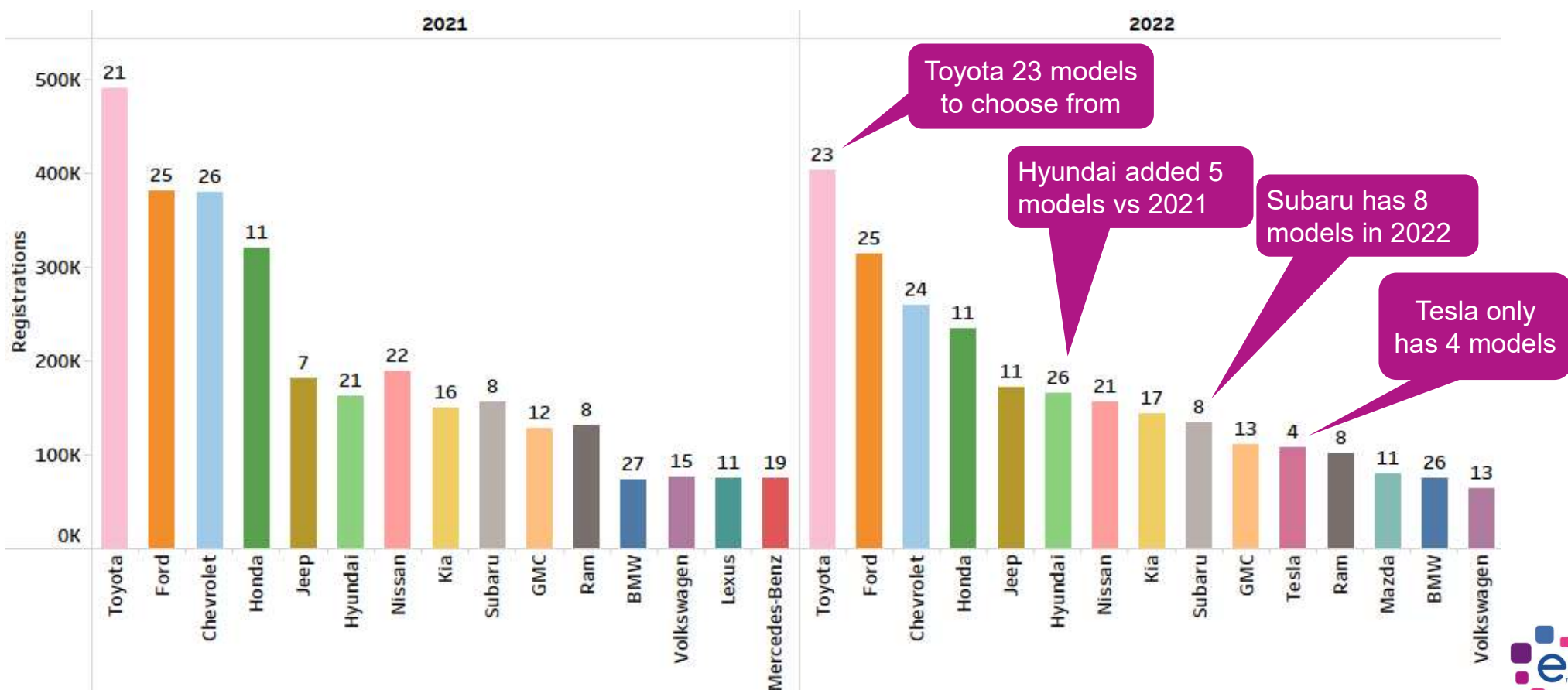
Tesla passes BMW & Mercedes-Benz. Where is Lexus?

Mazda improves



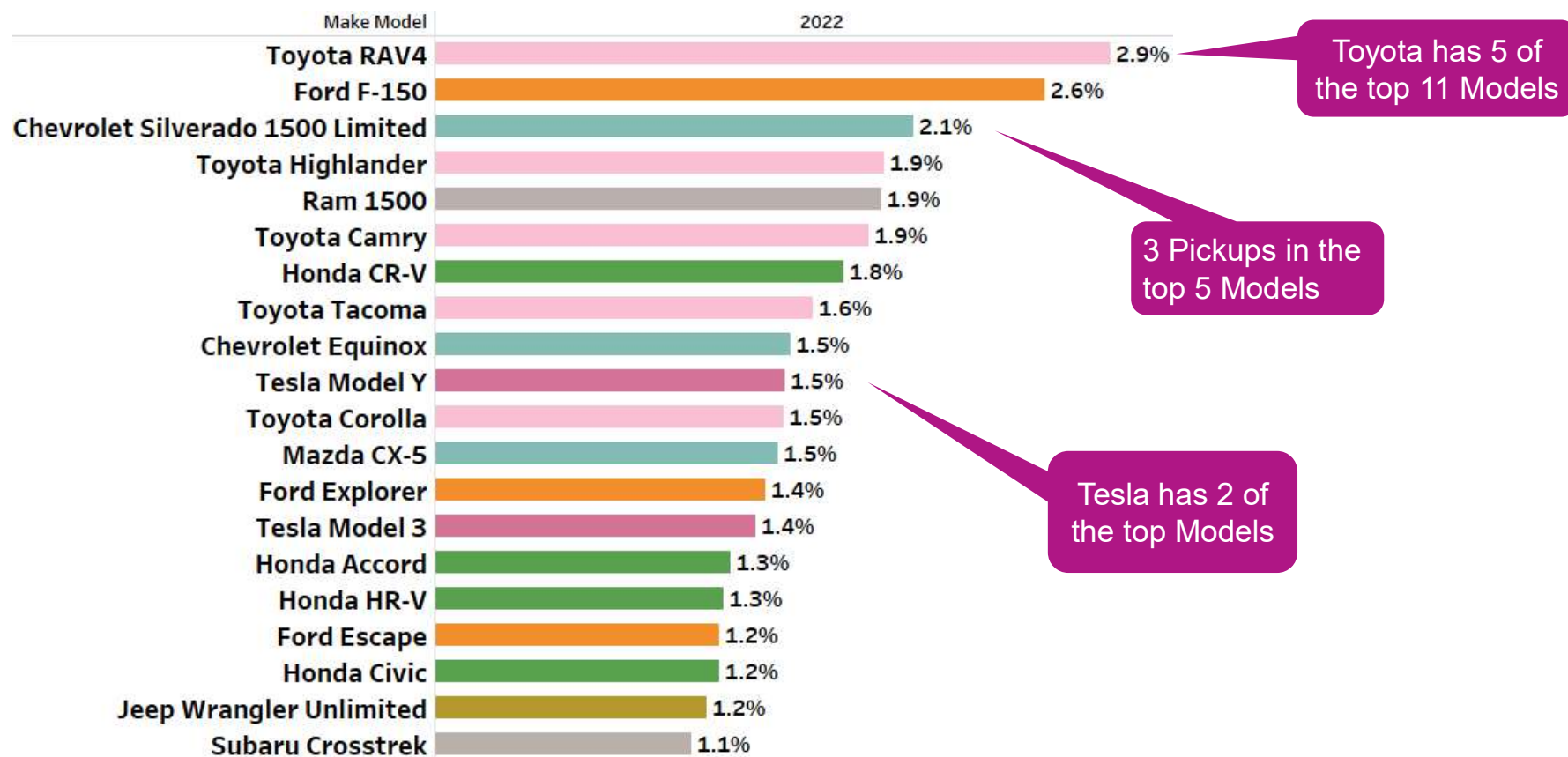
# New vehicle share through the 1st quarter

By top 15 Brands – Total Registrations and Count of Models (2021 vs 2022)



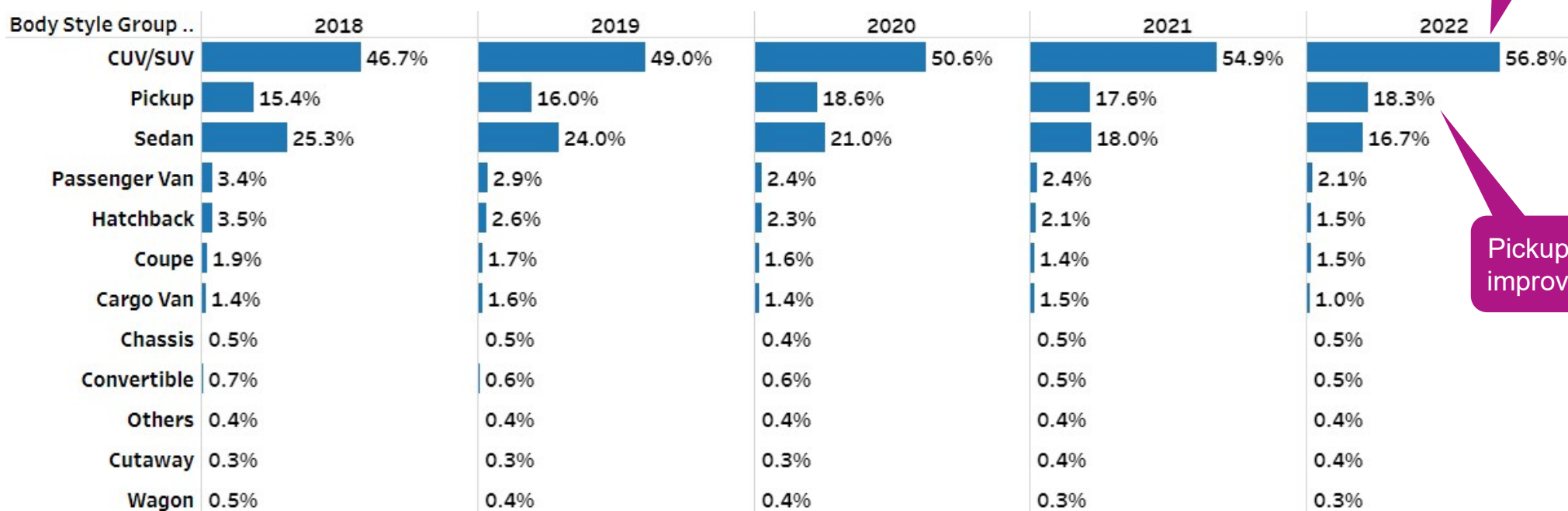
# New vehicle share through the 1st quarter

By top 20 make/models – Total Registrations (color coded by Make)



# New vehicle registrations through the 1st quarter

By body style type – Total Registrations



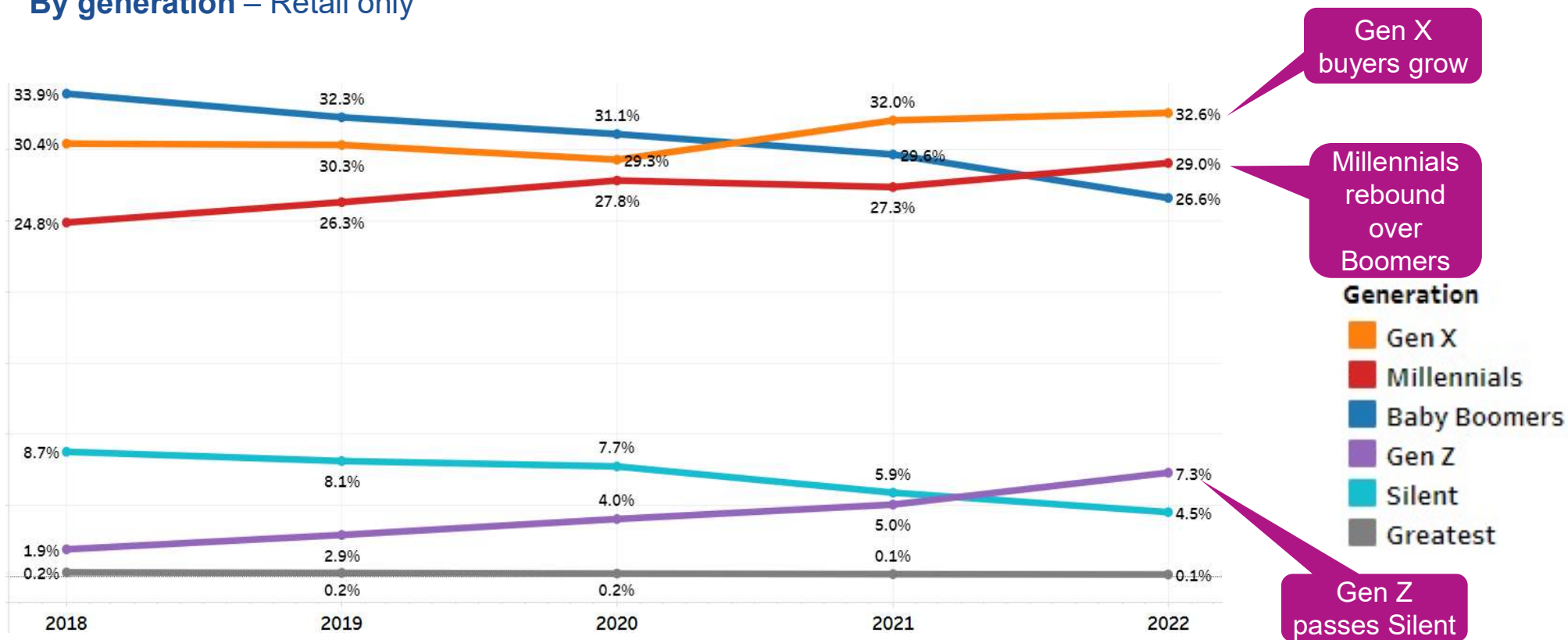
Utilities continue to grow

Pickups improve



# New vehicle registrations through the 1st quarter

By generation – Retail only





# Q1 2022 Vehicle Analysis

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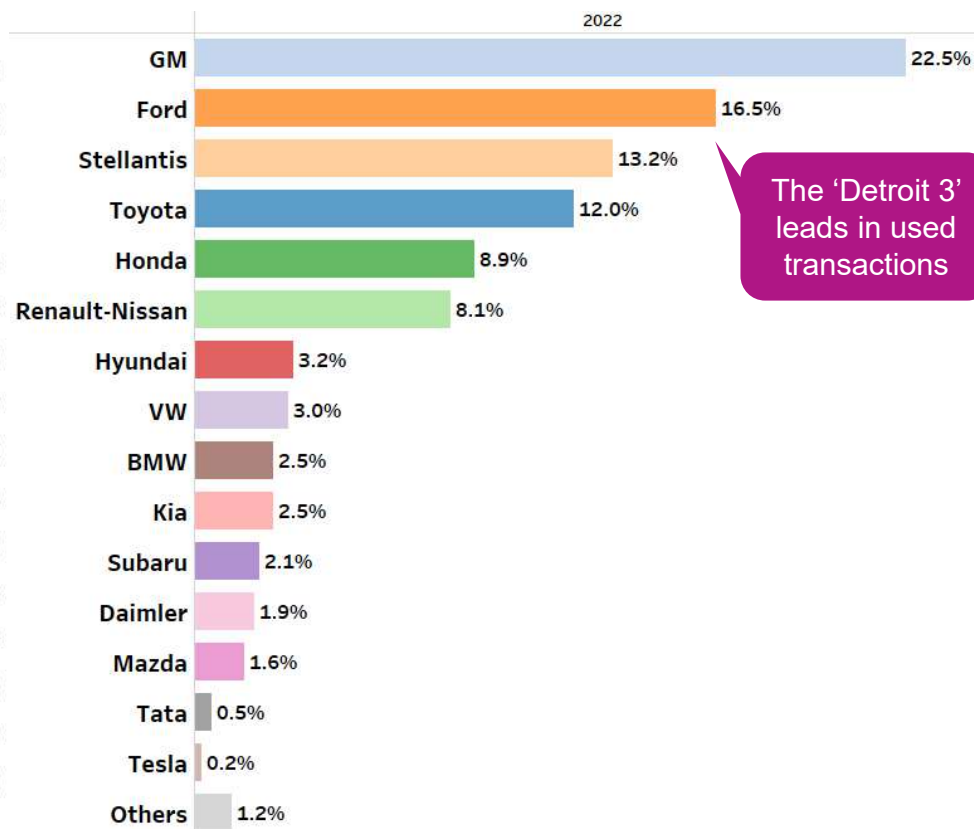
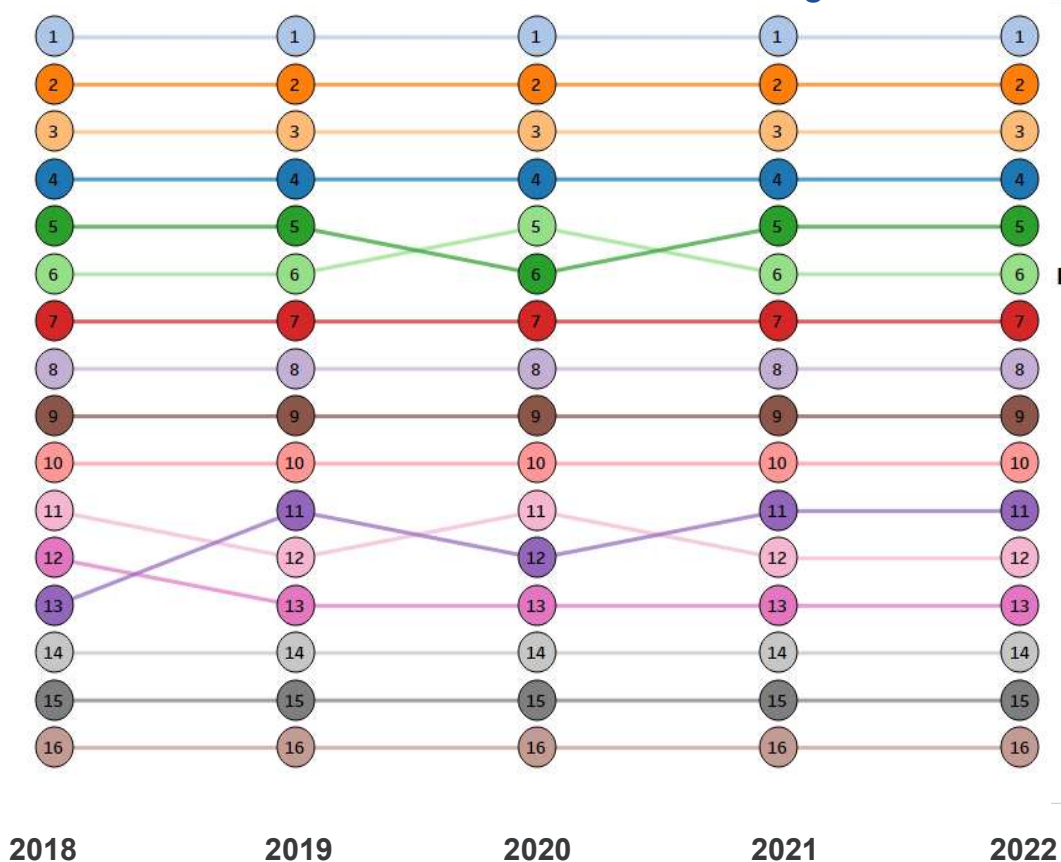
## Spotlight on Used Vehicles

**9.9M in Q1 2022**

Used vehicle registrations  
Includes CPO and all used registrations

# Used vehicle registrations through the 1st quarter

More domestic manufacturer vehicles change hands

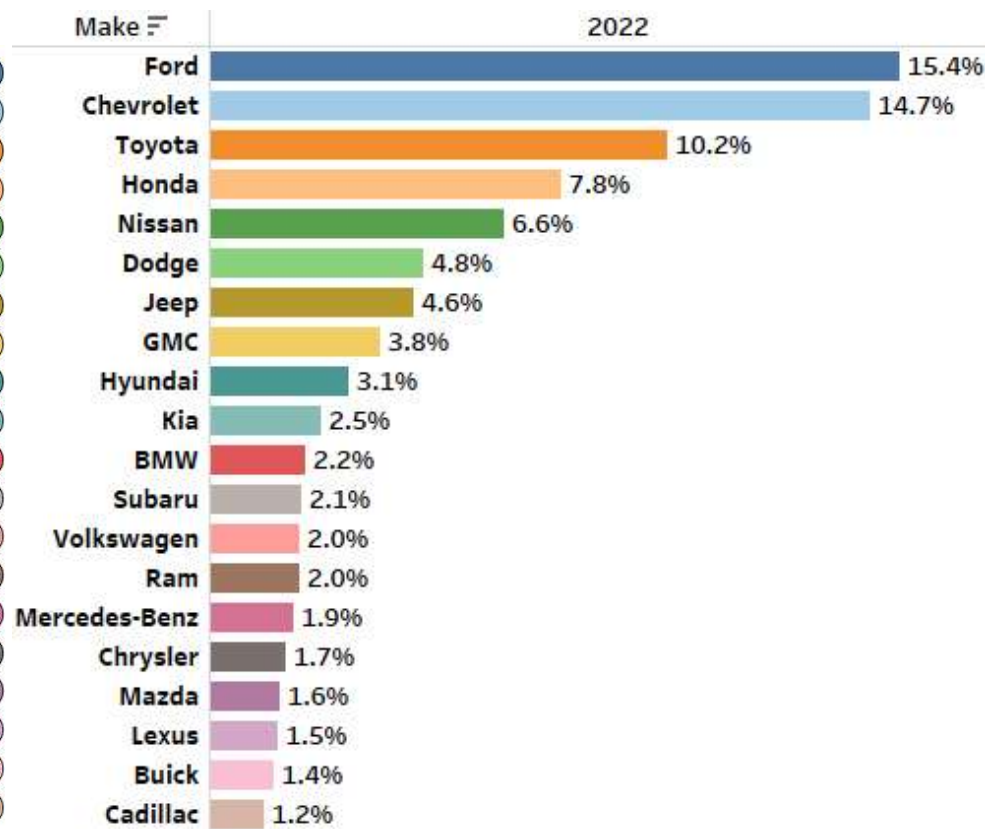
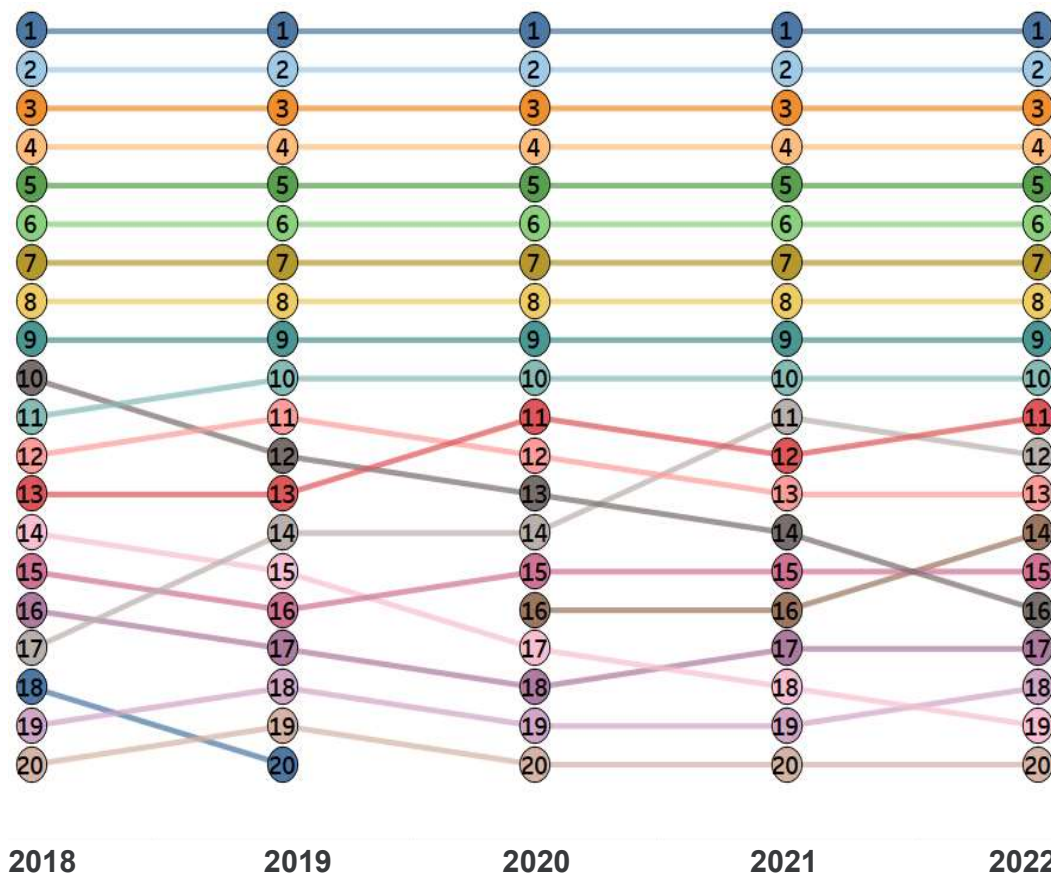


The 'Detroit 3' leads in used transactions



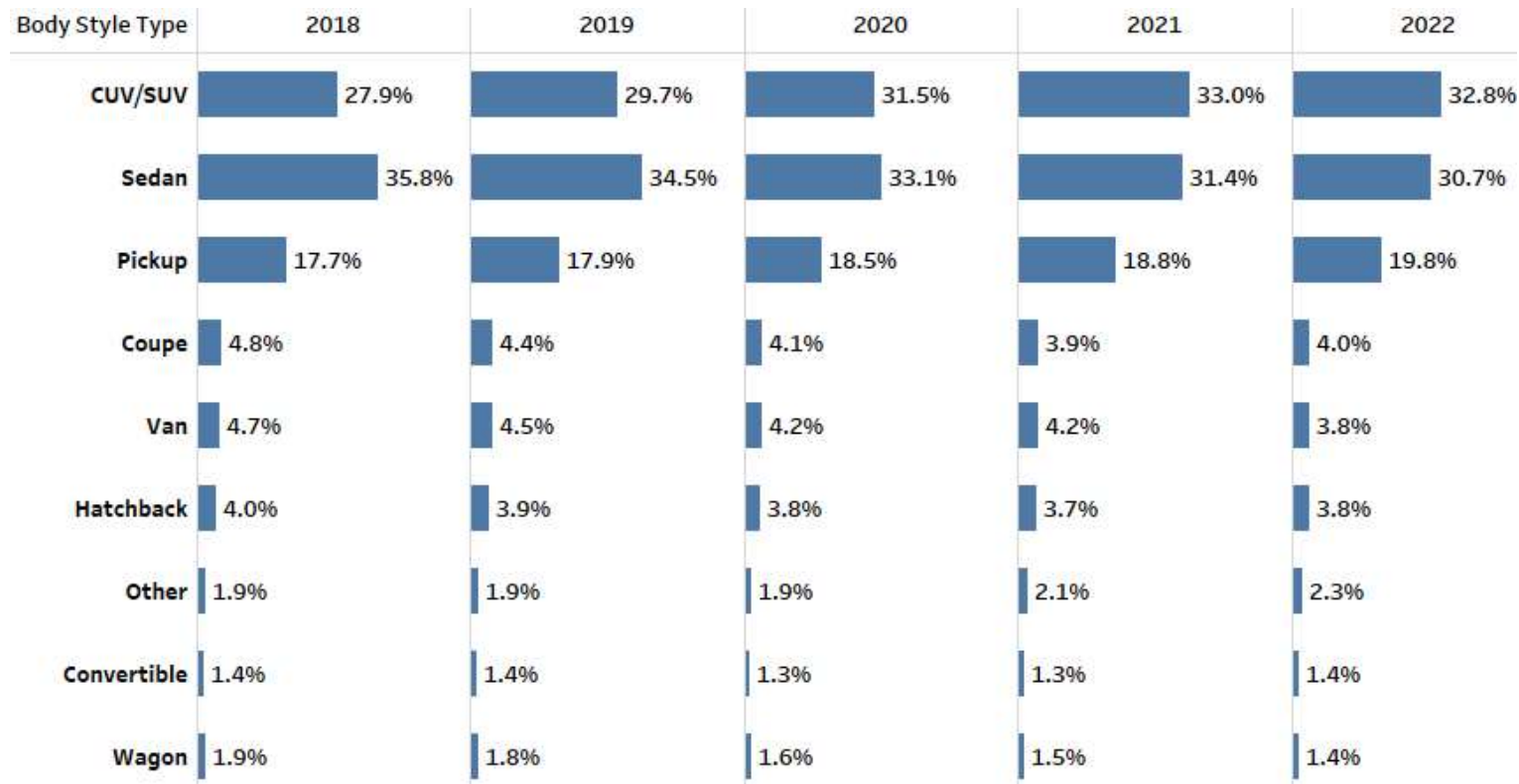
# Used vehicle registrations by brand through the 1st quarter

Consistency in the top 9 brands year over year



# Used registrations by body style

Used registrations favor CUV/SUV, though Sedan is a close 2<sup>nd</sup> overall

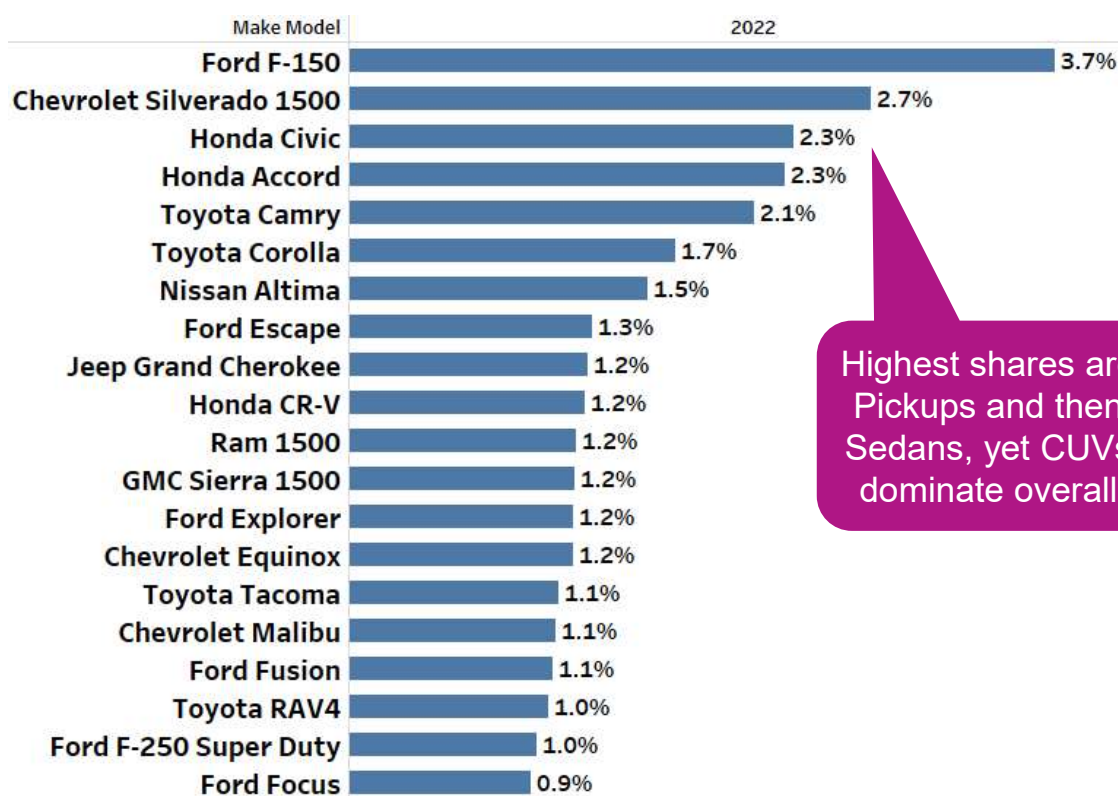


Sedans are popular used vehicles, yet declining to CUV/SUV

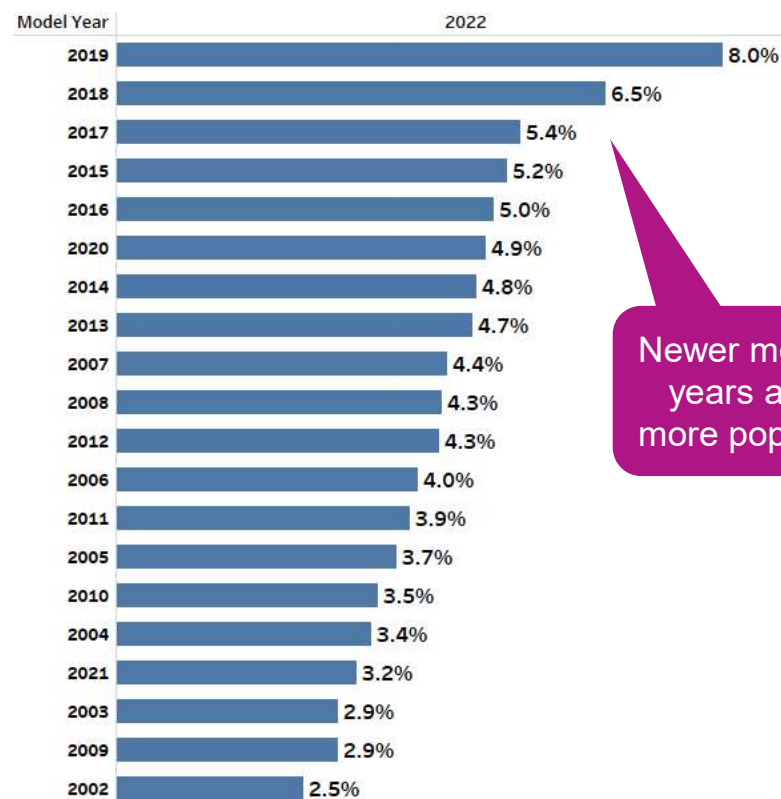


# Used registrations by Make/Model and Model Year

Used registrations favor popular models



Highest shares are Pickups and then Sedans, yet CUVs dominate overall



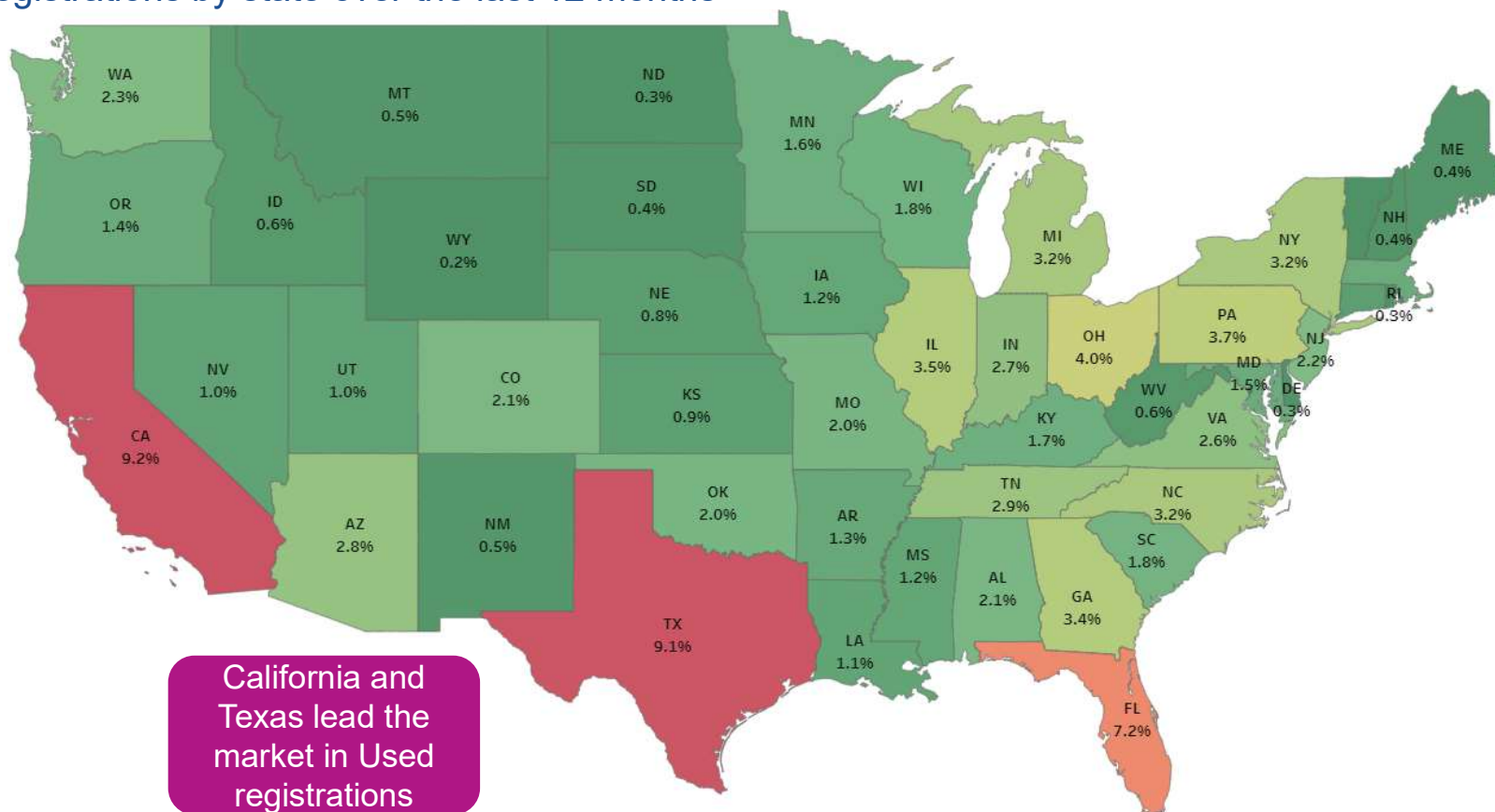
Newer model years are more popular

2018 2019 2020 2021 2022



# Used vehicle registrations – where are they being bought?

Used registrations by state over the last 12 months





# Q1 2022 Vehicle Analysis

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Spotlight on the electric & hybrid vehicle market

## **Electric Vehicles**

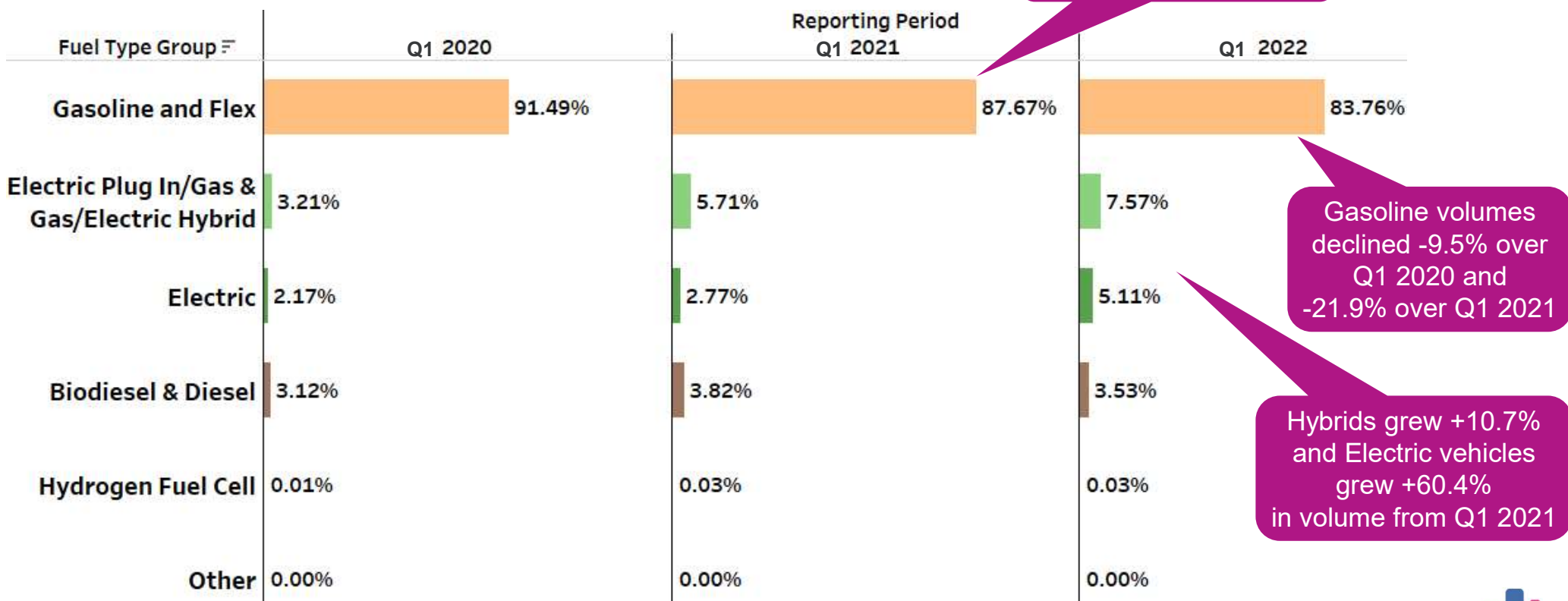
4.64% of Q1 2022  
New Registrations

## **Hybrid Vehicles**

7.18% of Q1 2022  
New Registrations

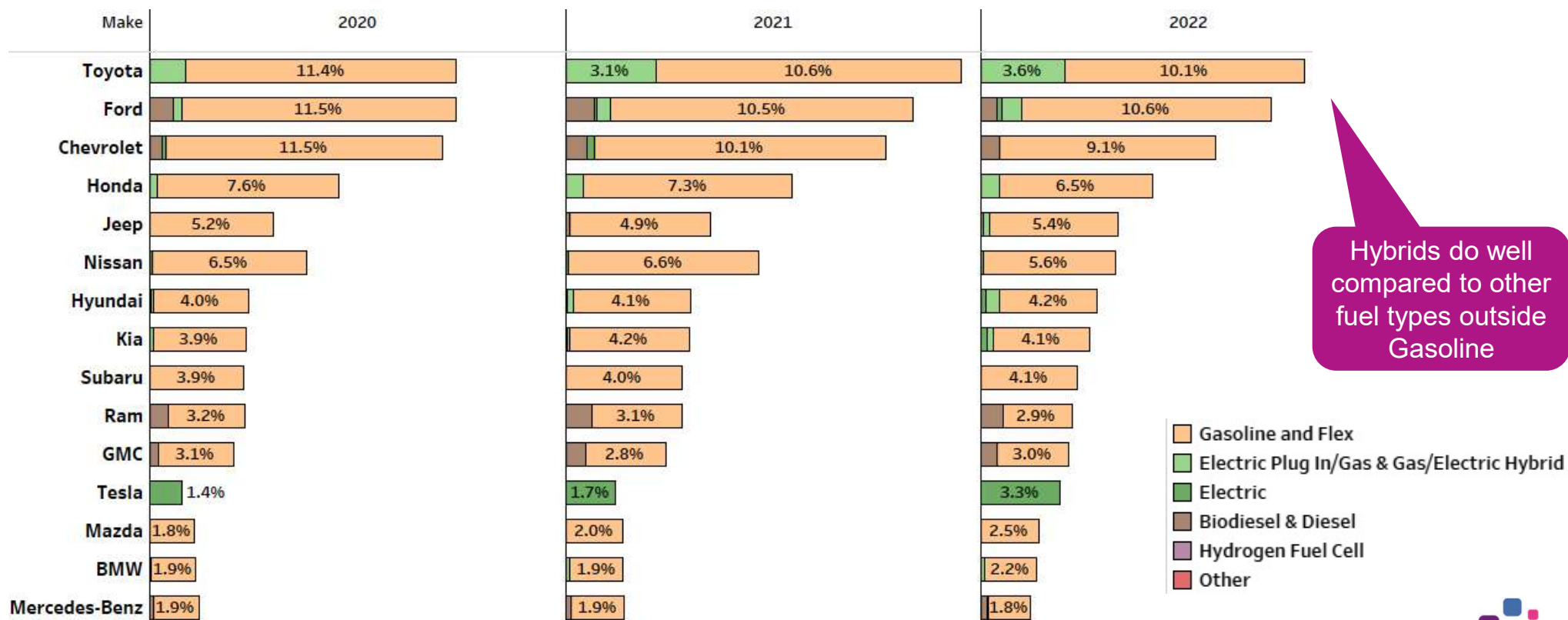
# U.S. Fuel type share

New registrations volumes for Q1 of each time period



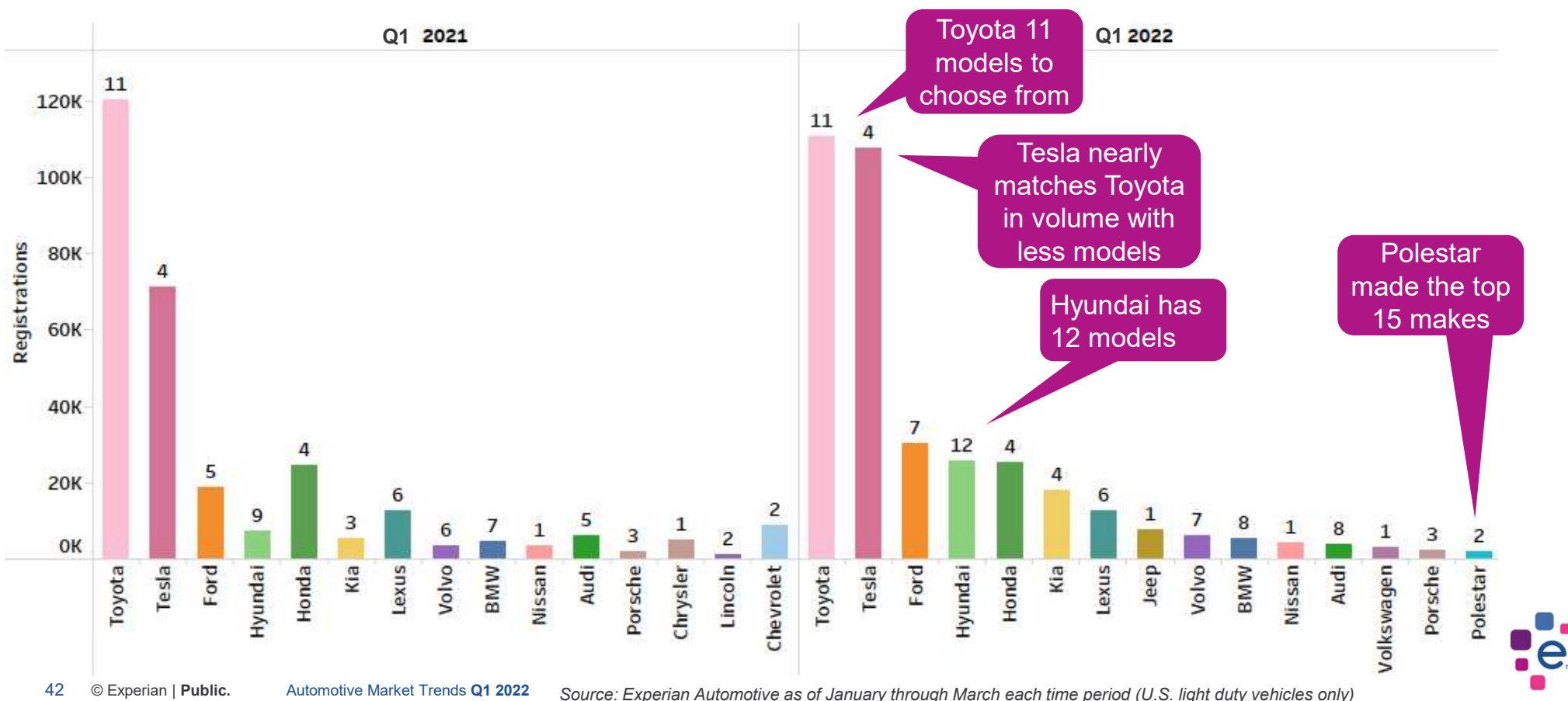
# U.S. Fuel type share by Brand

New registrations (top 15) for Q1 of each time period



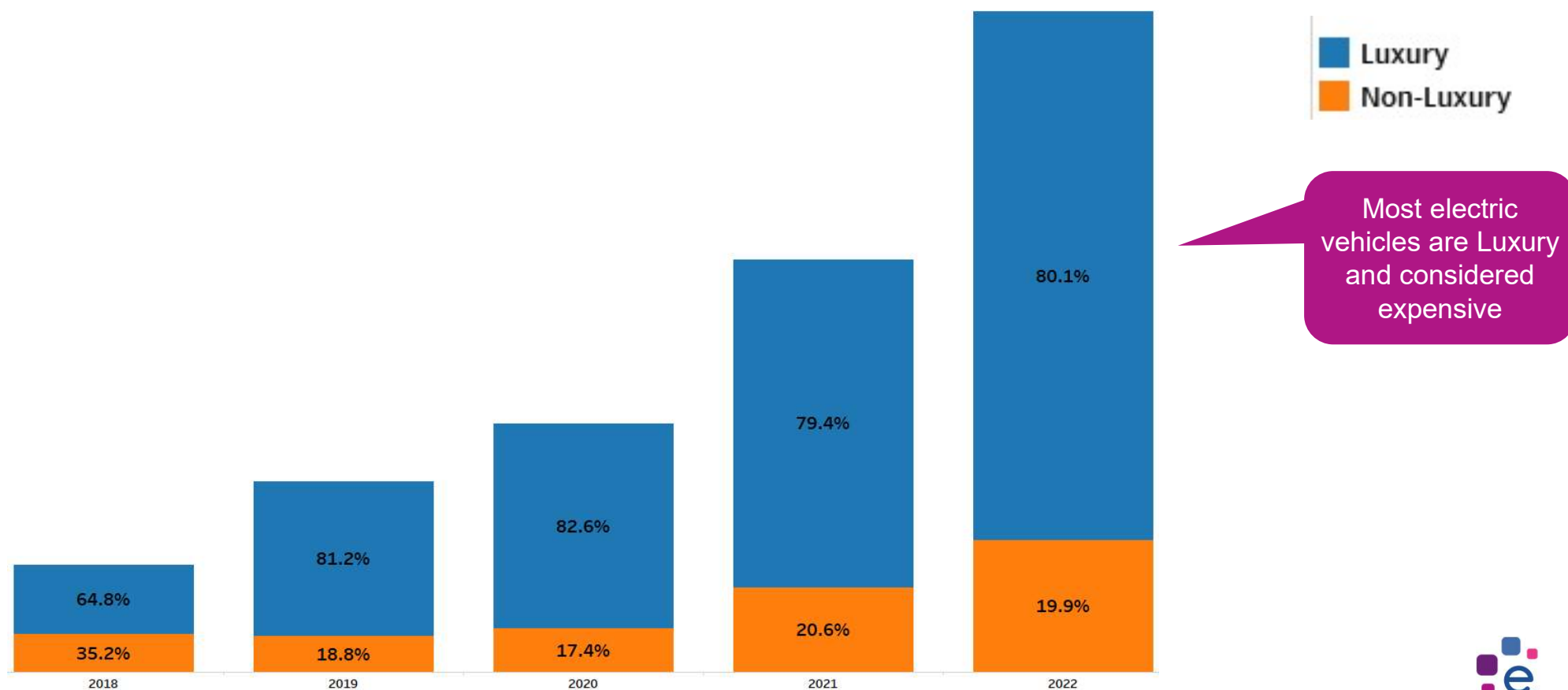
# Electrics & Hybrids “Electrified” new registrations - 1st quarter

By top 15 Makes – Total Registrations and Count of Models (2021 vs 2022)



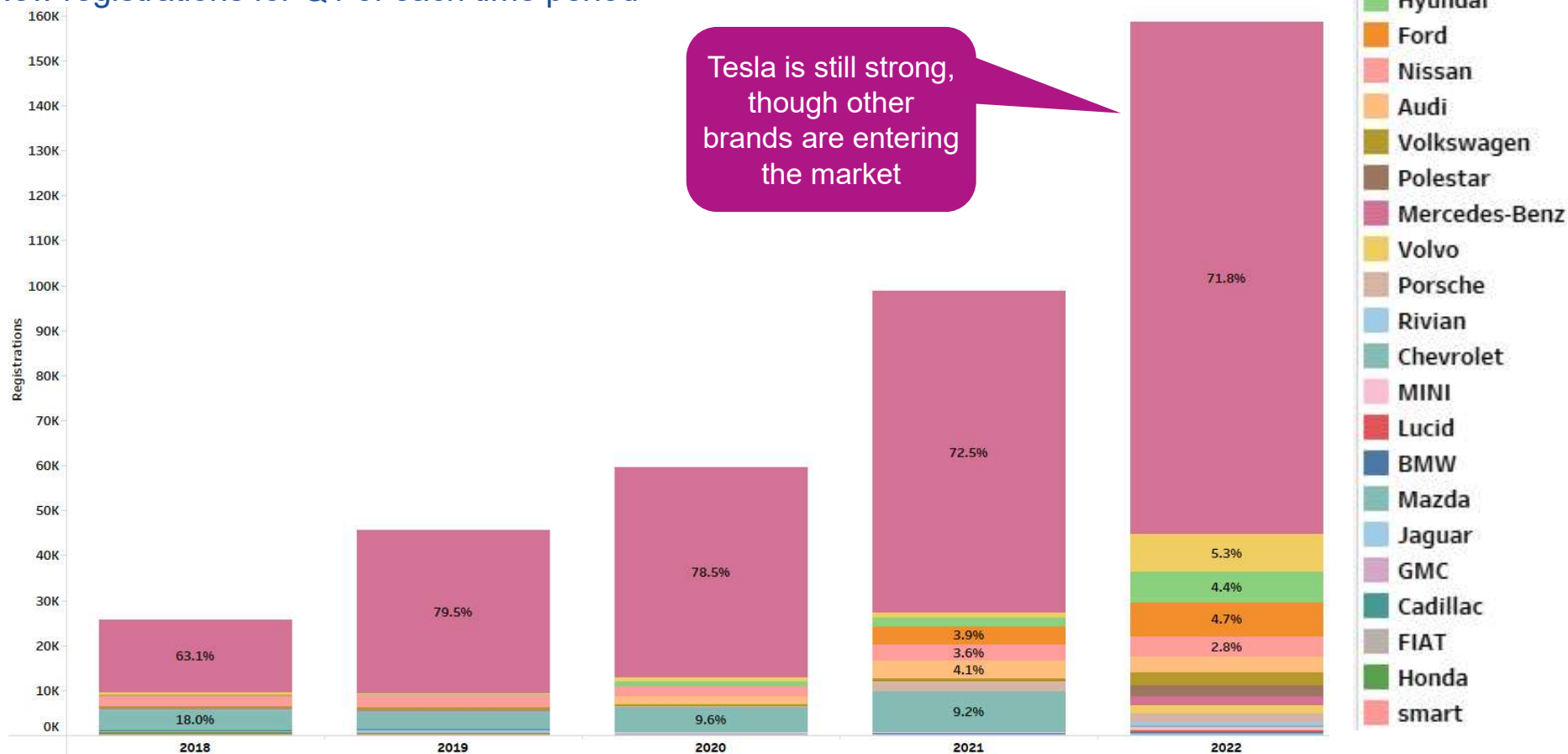
# Pure Electric share by Class

New registrations for Q1 of each time period



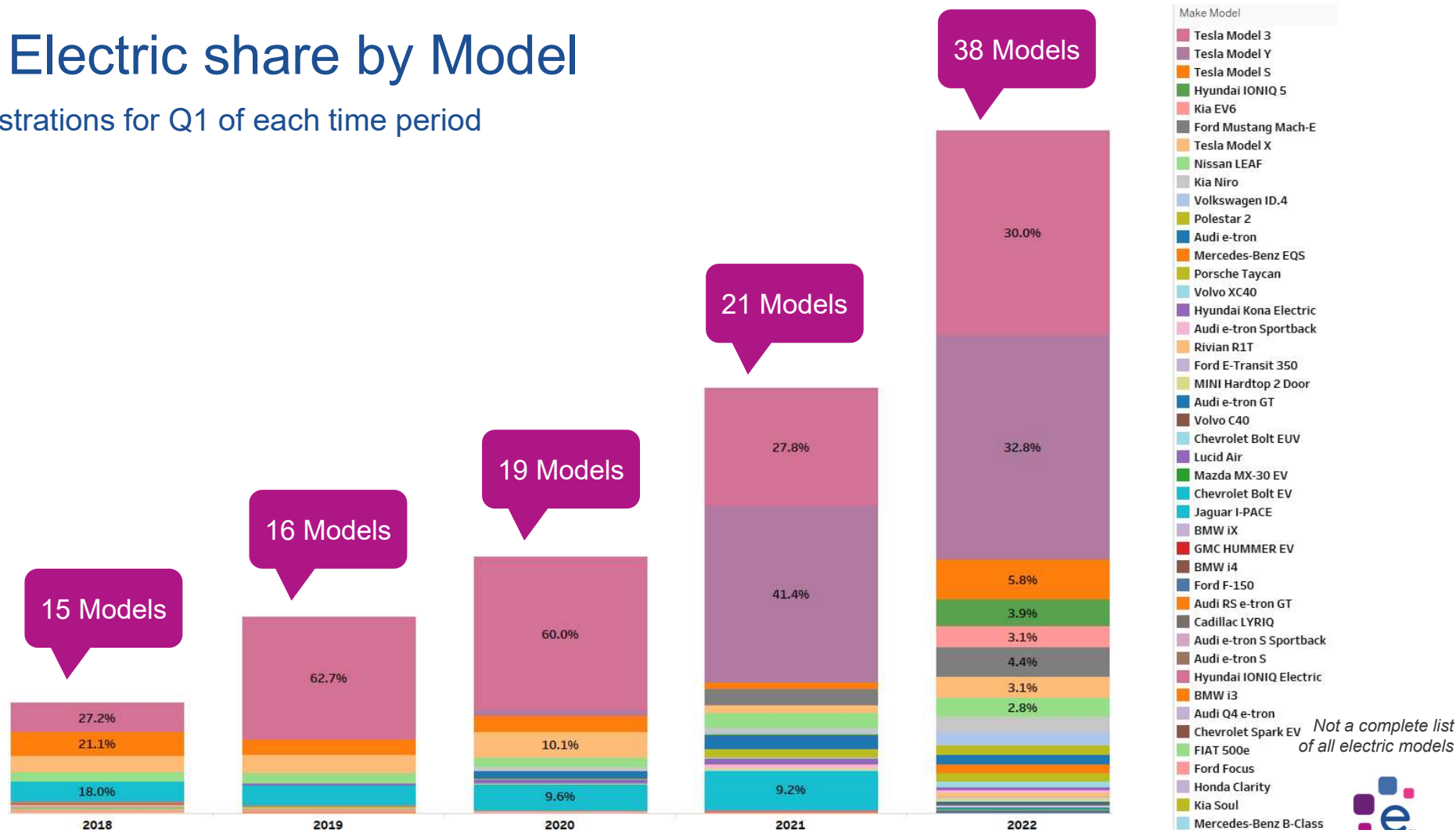
# Pure Electric share by Make

New registrations for Q1 of each time period



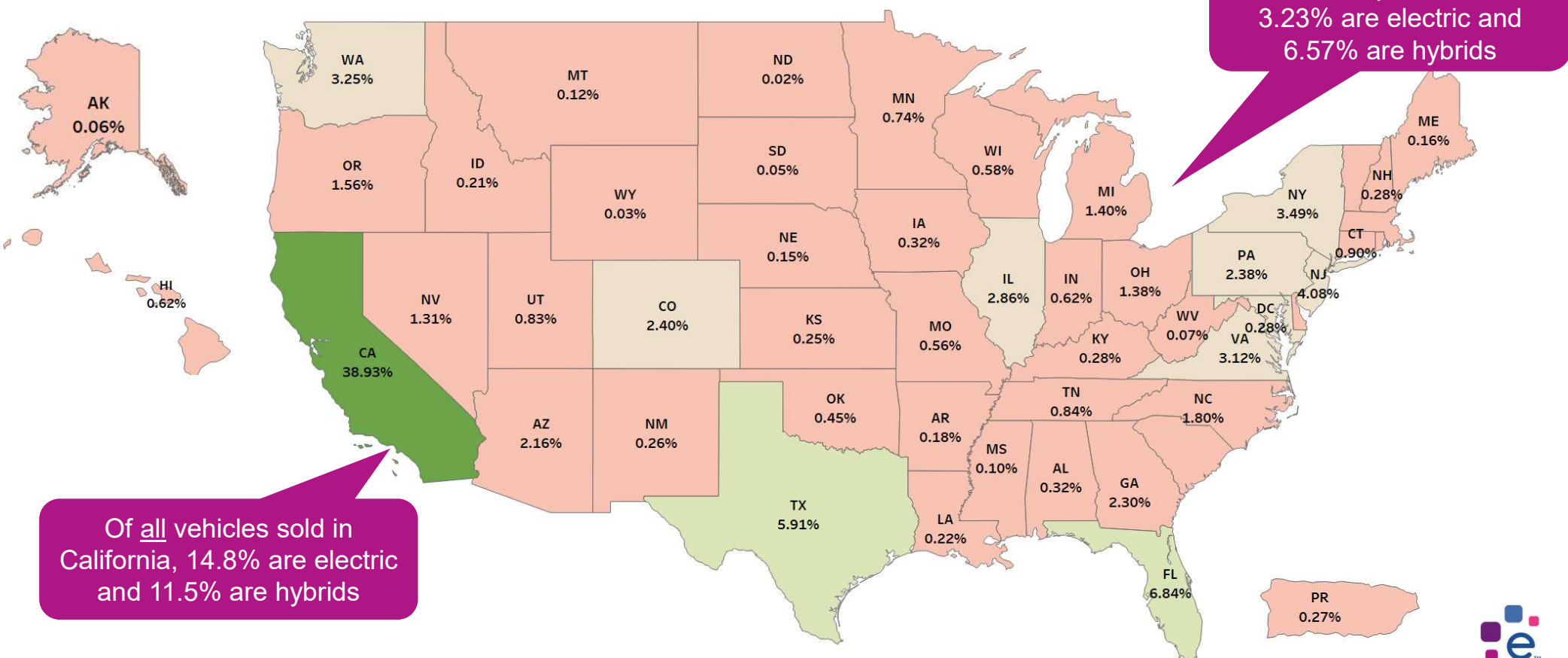
# Pure Electric share by Model

New registrations for Q1 of each time period



# U.S. New Pure Electric registrations by state share

New registrations January – March 2022



# Q1 2022 Summary

Driving the automotive industry forward

- Total light duty VIO is currently at **283.9 million** in the U.S. market. The big news this quarter within VIO is there **now is a 50/50 mix of Domestic vs Import brand names** on U.S. roads.
- The aftermarket **Sweet Spot** continues to grow and is **up 6.5%** over last year and has **increased to over 100M in volume for the first time in 9 years**. The Sweet Spot is expected to grow for the next several years and surpass a previous high of 104M in 2011.
- **Myths have been debunked that link the Average Age to durability, higher service opportunities or longer vehicle ownership**. The Fact was shown when an increase in the weighted Average Age occurs, it signals a future drop of the Sweet Spot volume as less new vehicles are currently entering the market.
- **New registration volumes are down to 14.5M over the last 12 months**, and the wild ride has shaken up the top models, the top generations who buy them and the availability of certain models.
- By manufacturer and by make name, **Toyota is the light duty brand leader of new registrations** for Q1 2022. Toyota has 5 of the top 11 new model registrations which has pushed them to the top spot.
- **Used vehicle registrations are most Domestic brands**, and while the top models are pickups and sedans, the overall favorite vehicle type is a CUV.
- **Electric vehicles (EVs)** in Q1 2022 **continue to increase in registrations volume** with nearly 38% occurring in California. The **number of available EV models has increased to 38** with Tesla dominating the EV market this quarter.

# Today's Presentation



# Q1 2022 Thank You!

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