### The State of Tesla Electric Vehicles

Presented to the APCUG 8/21/2021 by Michael Young





#### History of Tesla

- Founded in 2003, Elon Musk became CEO in 2004
- Produced their first production electric car, the Roadster, in 2008.
- Produced their first production electric sedan, Model S, in 2012
- Produced their first electric SUV, Model X, in 2016
- Produced their first electric mass production electric car, Model 3, in 2017

### Lineup



Groups

#### **Future of Tesla Vehicles**

- 2022 Semi-truck, 500+ mile range with 80k lbs
- 2022 Roadster 2 Fastest production car ever, 600+ mile range
- 2022 CyberTruck, 500+ mile range, 14k lbs towing, bullet-proof
- 2023 Model 2, 300 mile range, \$25k

### Coming soon...





Groups

#### What makes Tesla unique?

- Committed to electric powered cars. Only produce electric cars.
- Not compliance cars
- Not slow cars
- Safest car EVER made
- SuperCharger network
- Disrupting the auto industry
- Over The Air updates. The car gets better over time.
- Autonomous driving
- FUN!

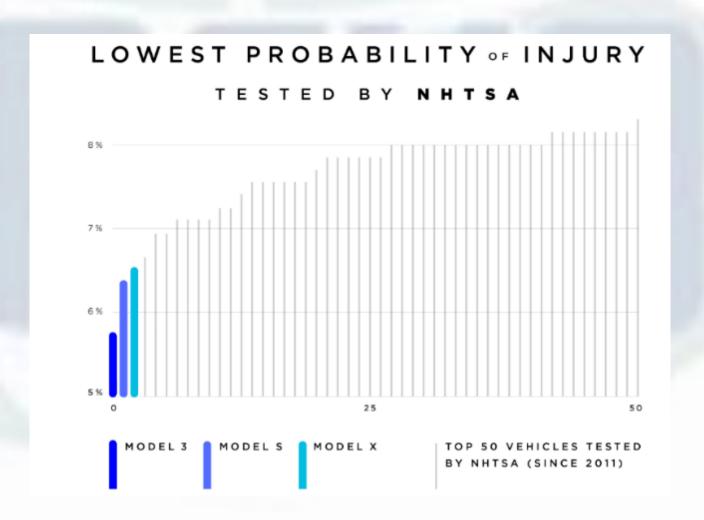
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#### Safest Cars Ever Built

- Model 3 achieves the lowest probability of injury of any vehicle ever tested by NHTSA
- Based on the advanced architecture of Model S and Model X, which were previously found by the National Highway Traffic Safety Administration (NHTSA) to have the lowest and second lowest probabilities of injury of all cars ever tested, we engineered Model 3 to be the safest car ever built. Now, not only has Model 3 achieved a perfect 5-star safety rating in every category and sub-category, but NHTSA's tests also show that it has the lowest probability of injury of all cars the safety agency has ever tested.

#### Safest Cars Ever Built (cont.)



#### SuperChargers



#### Charging your car at home

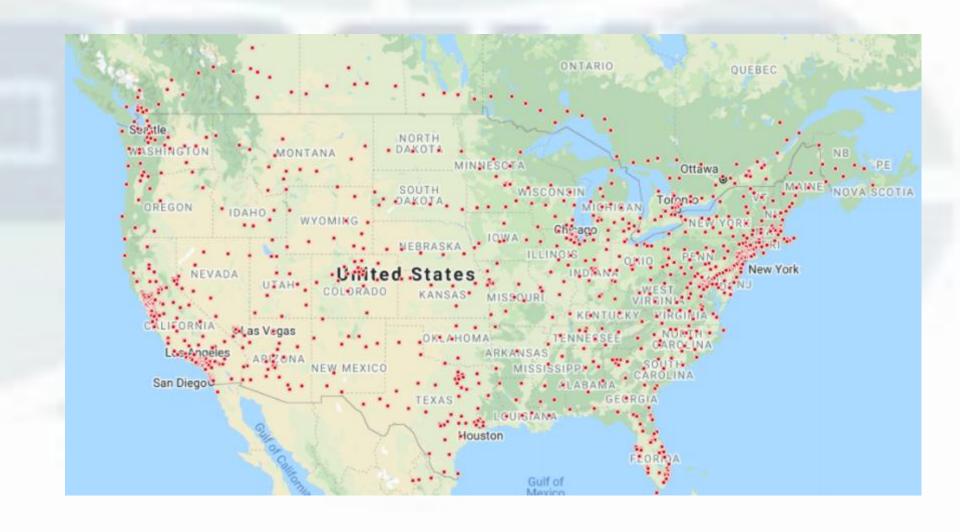
- Most of the time you will charge your car at home.
- There are many options to install home chargers.



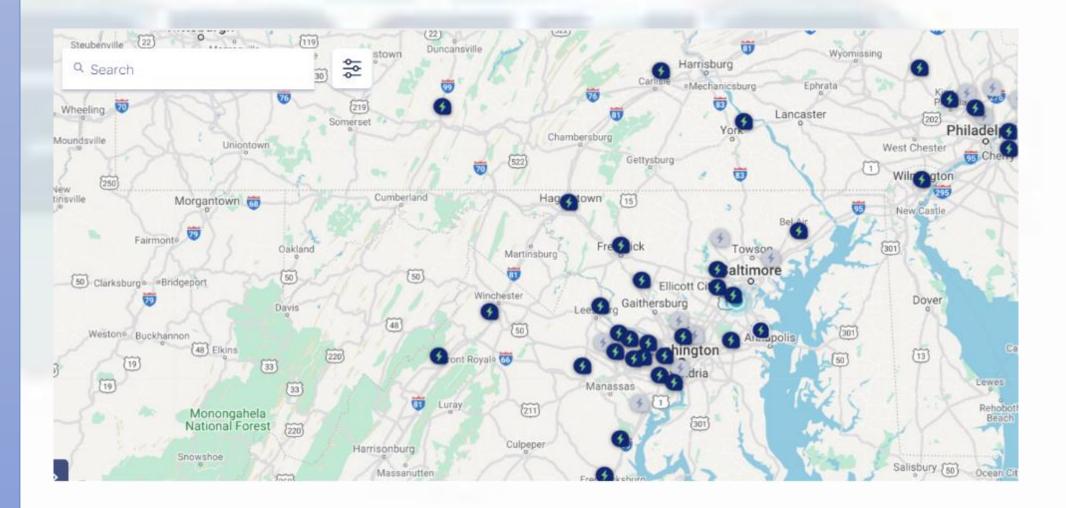




#### SuperCharger Network



#### **Electrify America**



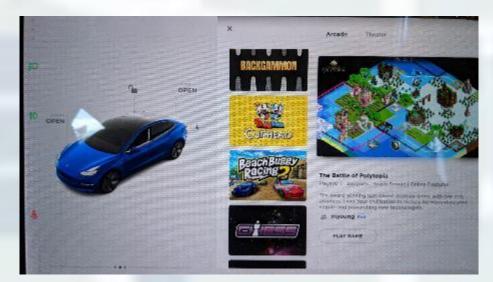
#### Software Updates

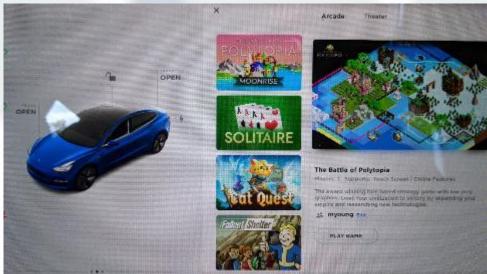
- Our cars regularly receive over-the-air software updates that add new features and enhance existing ones over Wi-Fi.
- When updates become available, you'll receive a notification on your center touchscreen display, with the option to install the update immediately or schedule for later. To ensure the fastest and most reliable delivery of software updates, connect your car to Wi-Fi.

### Autonomous driving



#### **FUN!**







#### What's Next?

#### Full Autonomous Driving

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**Full automation:** the vehicle can perform all aspects of dynamic driving tasks under all conditions.

**High automation:** the vehicle can handle all dynamic driving tasks in a specific environment without intervention.

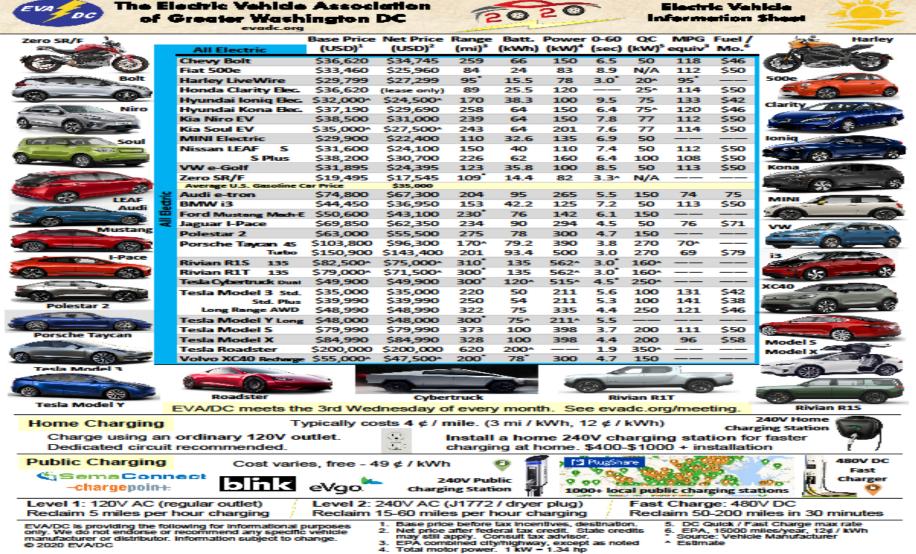
**Conditional automation:** the vehicle can handle all dynamic driving tasks in a specific environment but it may request human intervention.

**Partial automation:** at least two functions of driving are handled autonomously.

**Driver assistance:** one aspect of driving is controlled autonomously, e.g. automatic braking.

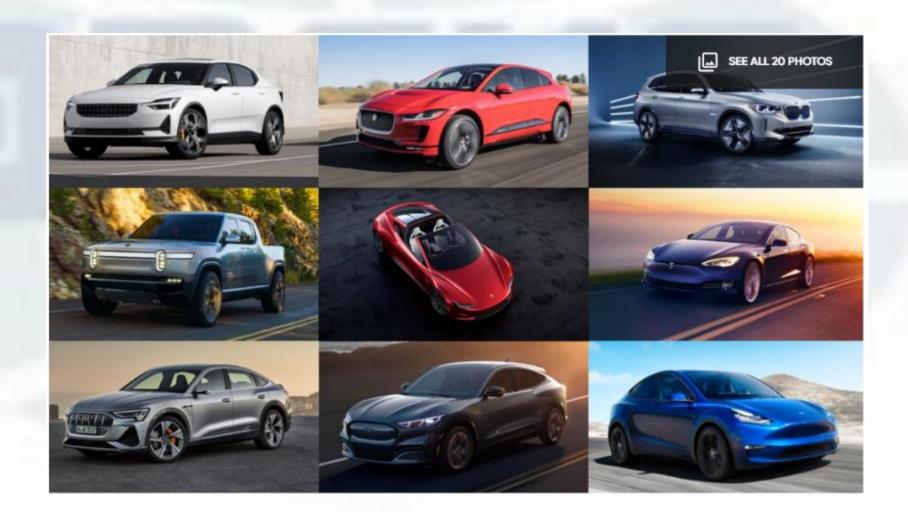
**No automation:** classic driving in which the driver controls all aspects of dynamic driving task.

#### Many EVs, Many on the way



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#### EV's of 2021



#### Popular EVs of 2021







#### Coming in the near future



#### The Tesla Network

- Your car works for you.
- 85%+ of the time your car is parked.
- 100% of the time, you are paying for it.
- Your vehicle could be 'earning it's keep' by taking others to their destination.
- You could request a different type of vehicle if you have the need (truck, SUV, etc.)
- Coming in the next 5 years!

#### CyberTruck in the wild



#### CT in the wild (cont.)



#### Questions?

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