

TESLA

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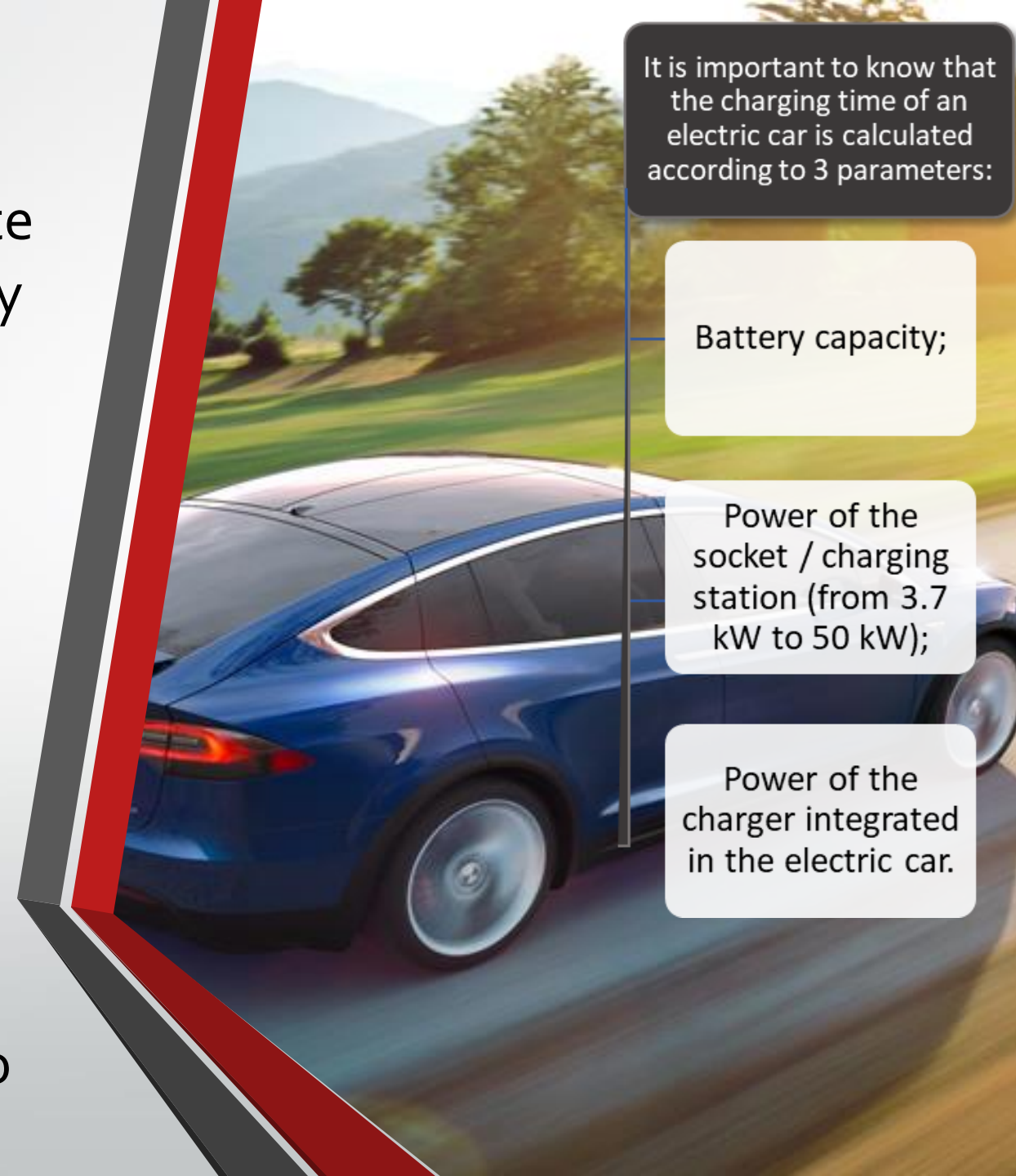
Introduction of Tesla

- Released in 2008 ,the Roadster unveiled state-of-the-art battery technology and the Tesla electric transmission system.
- The second car produced by Tesla is the MODEL S (2012) , a 100% electric luxury sedan ,there are 4 more models in development :Tesla Roadster (2008),MODEL X (2015), MODEL 3(2017) and MODEL Y(2020) .
- Although it manufactures cars , Tesla produce software and hardware solution .
- Thus ,the company manages to provide online software updates (“over-the-air”)and streamline the free functionality and performance of its machines .
- In 2012 , Tesla began building a 480V network of fast charging station. As of December 2019 ,there are 1,716 fast charging station operating globally .



Aims and objectives

- The AIM of this company is: "accelerate the advent of sustainable transport by bringing compelling mass-market electric cars to market as soon possible".
- The objectives are as follows:
 1. To create business value without harming the environment .
 2. To unique positive in the auto market ;Luxury Design .
 3. To produce large capacity (up to 1,000 vechicles per week).



It is important to know that the charging time of an electric car is calculated according to 3 parameters:

Battery capacity;

Power of the socket / charging station (from 3.7 kW to 50 kW);

Power of the charger integrated in the electric car.

Revolutionary background of tesla

- Tesla was founded by a group of engineers in 2003.
- The roaster debut Tesla's cutting-edge battery technology and electrical motor in 2008.
- Tesla automobiles are manufactured.
- Tesla have four models with a different version to choose.

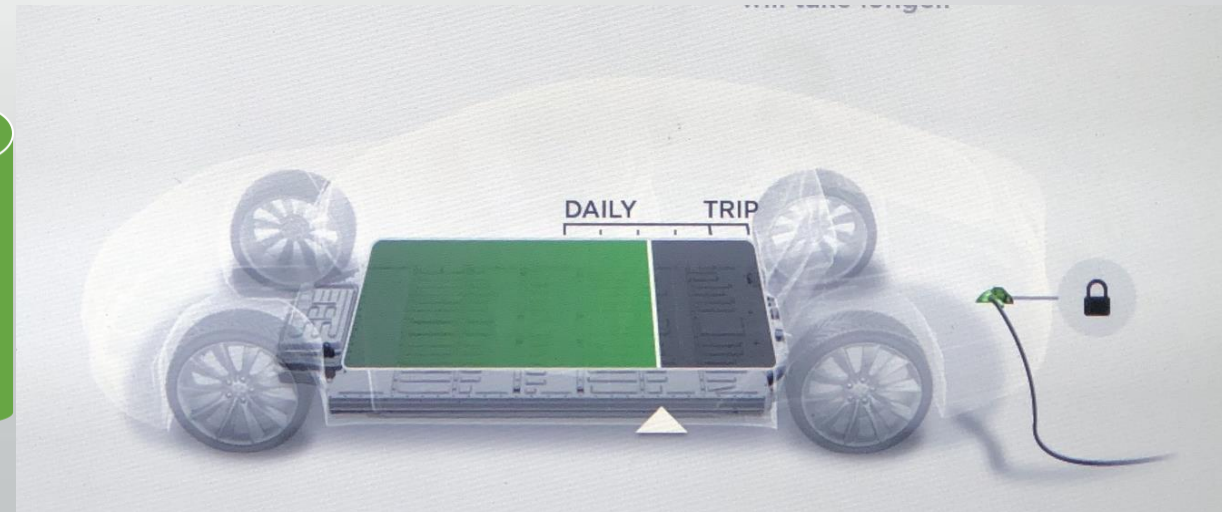
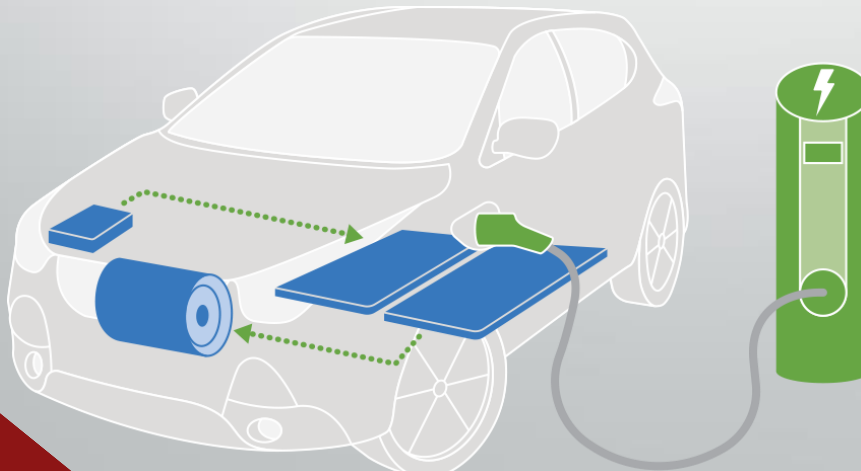


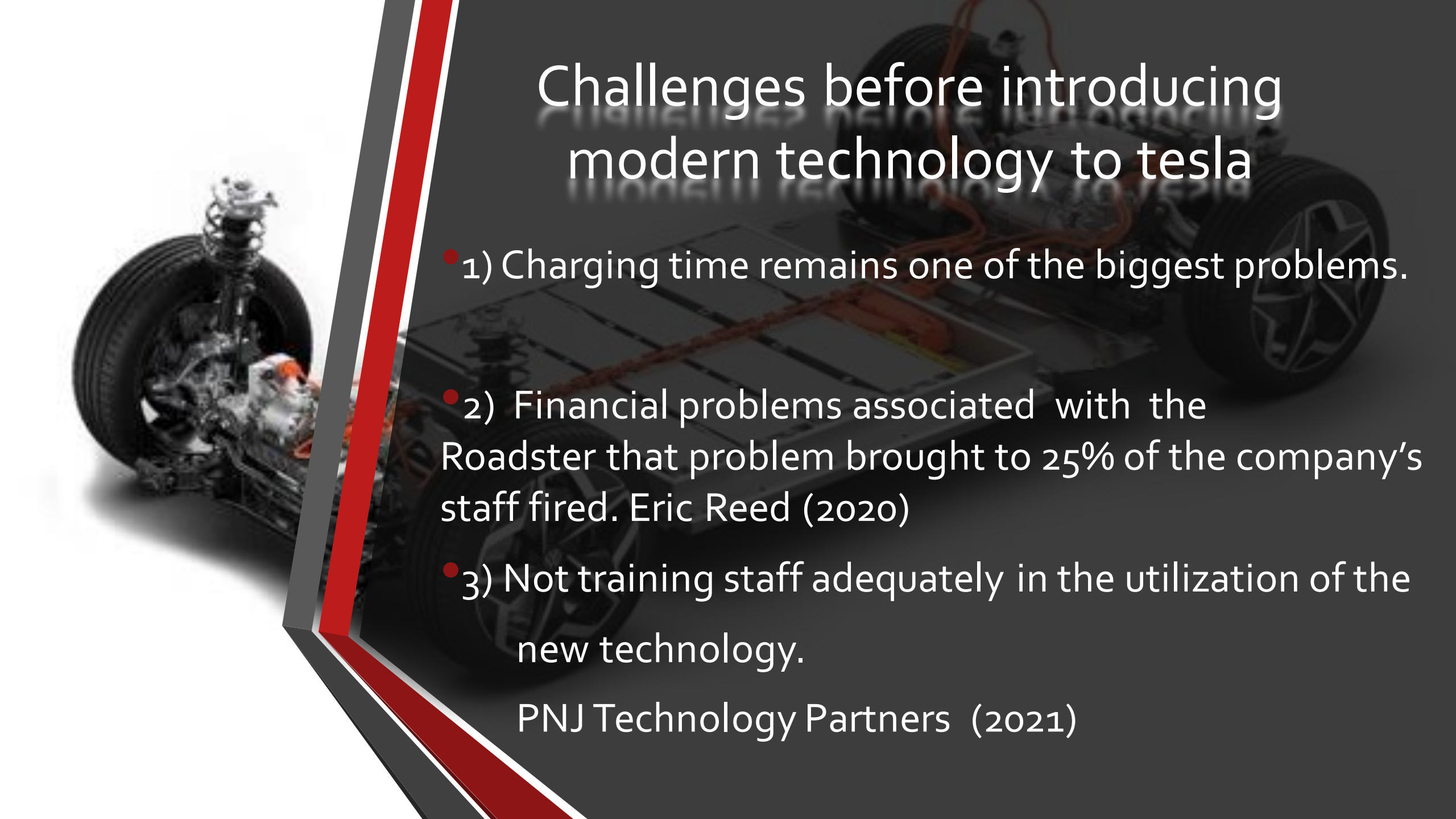
Revolutionization of electric battery

The new 4680 battery cell which was installed a 130kwh battery pack in the same area as a current 74kwh.

Tesla engineers have created sophisticated computer simulations of vehicles energy flow.

The battery pack resistance with the ac compressor.



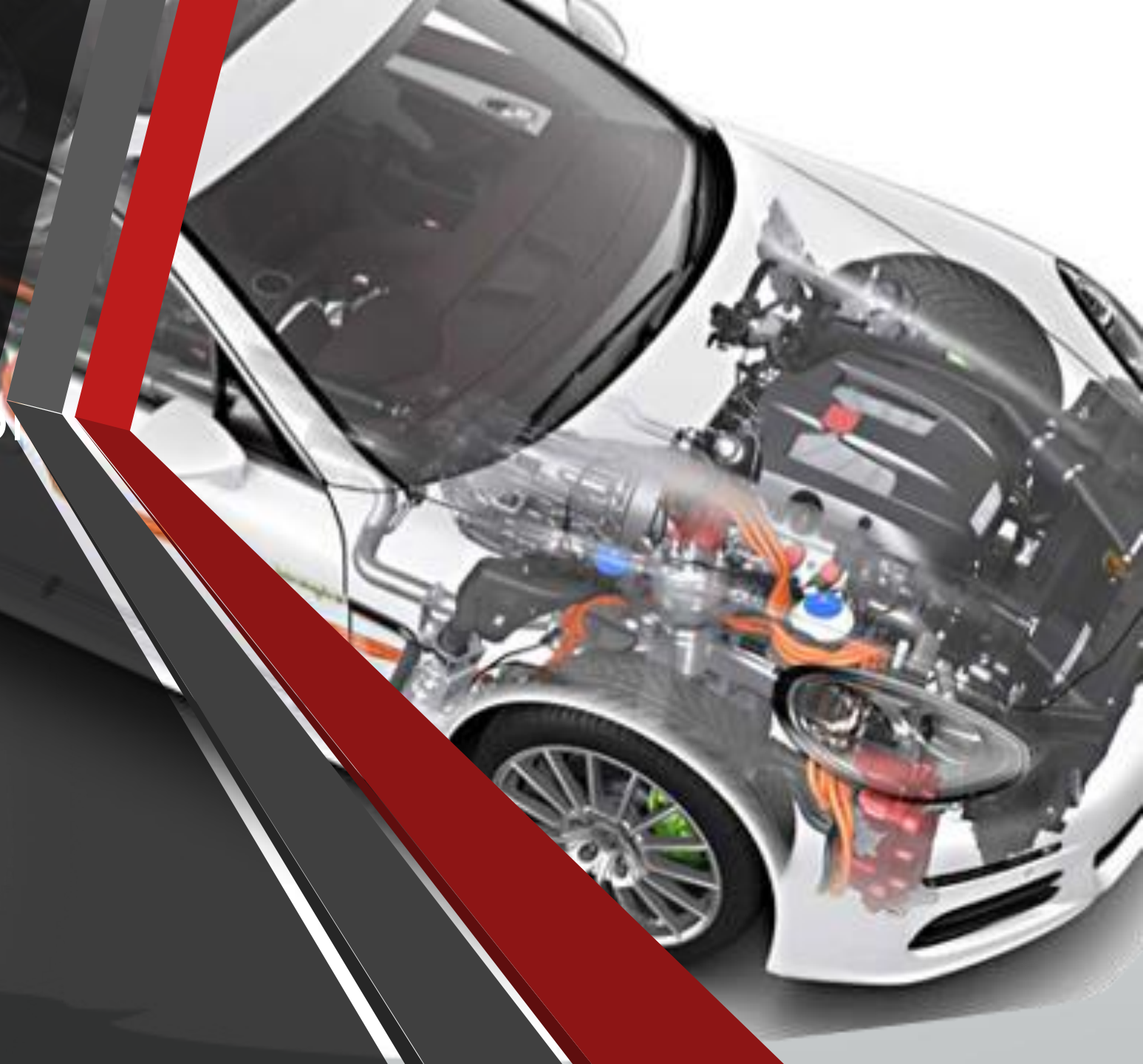


Challenges before introducing modern technology to tesla

- 1) Charging time remains one of the biggest problems.
- 2) Financial problems associated with the Roadster that problem brought to 25% of the company's staff fired. Eric Reed (2020)
- 3) Not training staff adequately in the utilization of the new technology.

PNJ Technology Partners (2021)

4) All of these batteries come from a single source, and it usually doesn't have enough of them. Brandon Gaille (2020)

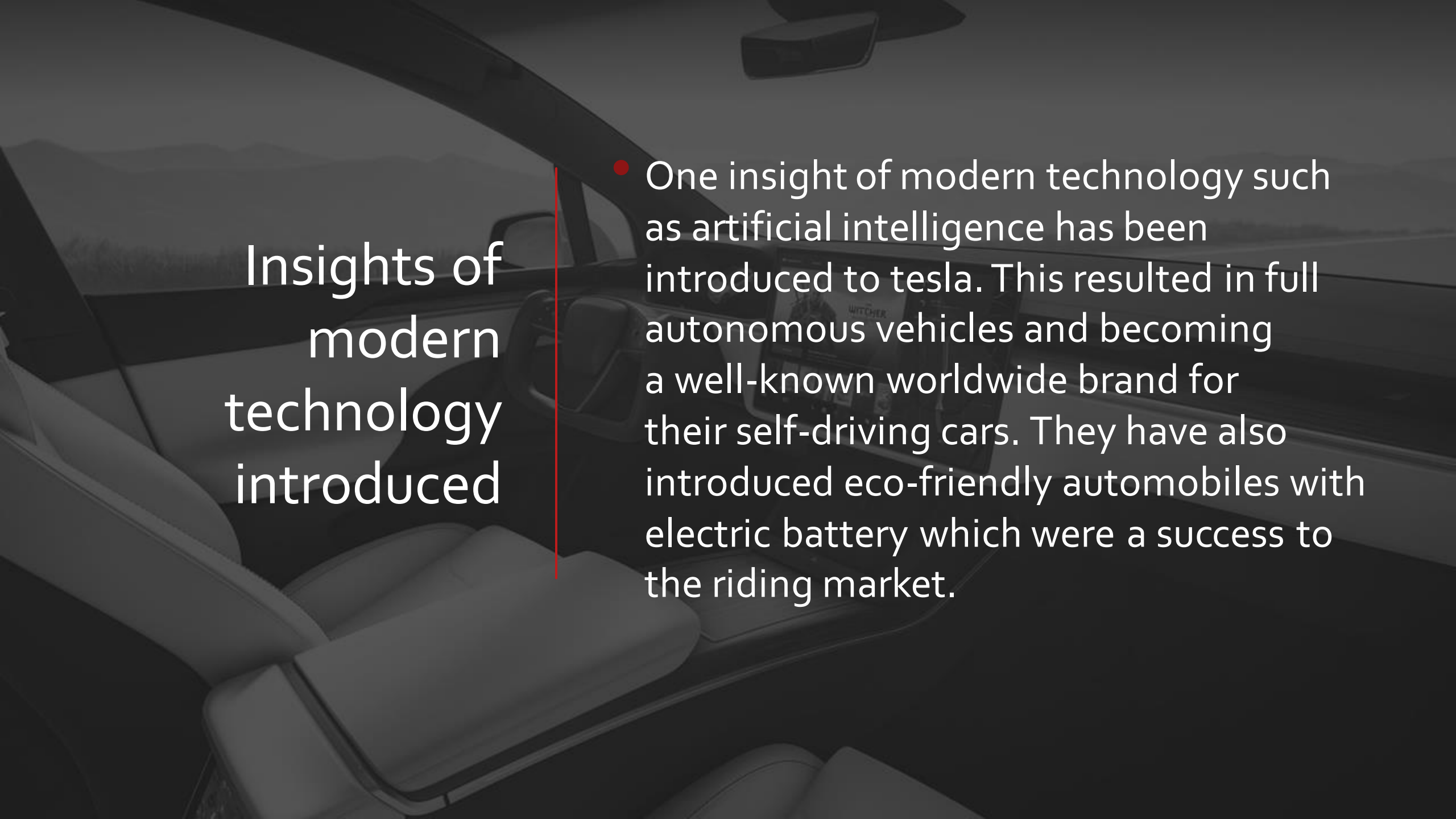


Impacts of modern technology

Modern technology such as electric battery technology introduced has impacted tesla majorly on the traditional fuel and vehicles. Thus, they have made billions by focusing on the niche market of electric cars and expanding it to mainstream market.

\$1.5 Billion worth of bitcoin was bought by tesla to improve flexibility to further diversity and maximising cash, as the cryptocurrency was growing. Tesla has made 727 billion in just ten months. This profit is also a result of Elon musk influence on the audience through twitter which made cryptocurancy skyrocket.





Insights of modern technology introduced

- One insight of modern technology such as artificial intelligence has been introduced to tesla. This resulted in full autonomous vehicles and becoming a well-known worldwide brand for their self-driving cars. They have also introduced eco-friendly automobiles with electric battery which were a success to the riding market.

Car technology with manual transmissions

ADVANTAGES :

- 1 .low purchase price;
- 2 . Low ,maintenance costs;
- 3.Lower consumption;

DISADVANTAGES :

- 1 . It takes a longer period to adapt to driving manually;
- 2 . Several tasks must be coordinated at the same time in order to drive manually(attention to the road, clutch, gearbox and acceleration ...) ;
- 3 . Lower performance capabilities and no comfortability as you must be attentive



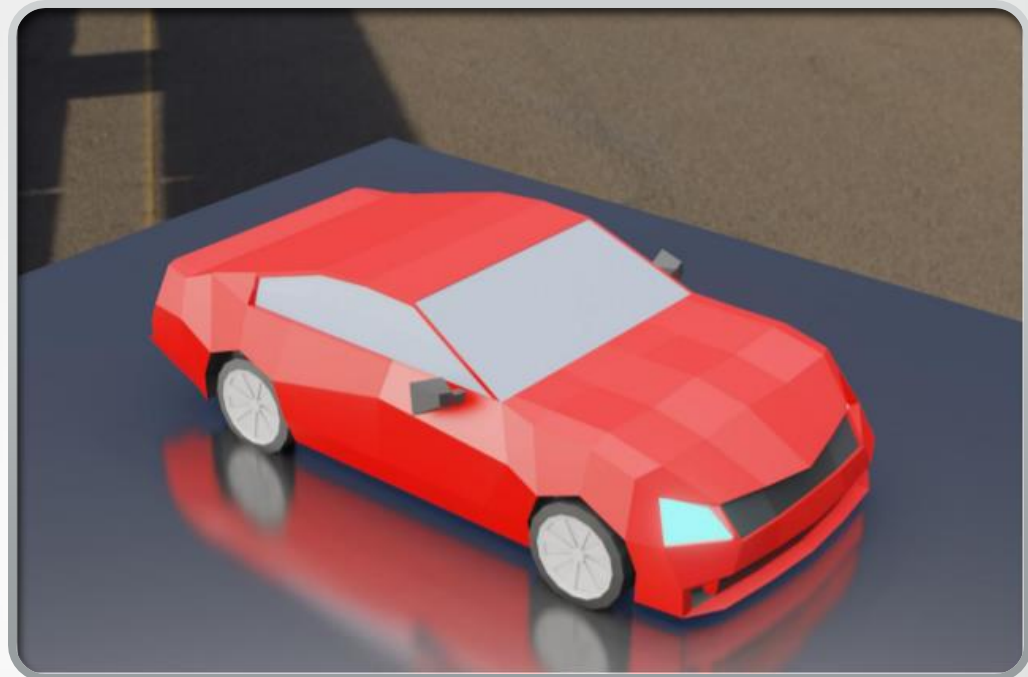
Modern car technology autopilot

- Several accidents are prevented
- ✓ Great support for people with disabilities
- ✓ It reduces fatigue and lets you to be more relaxed during the journey; ✓ Requires less costs.

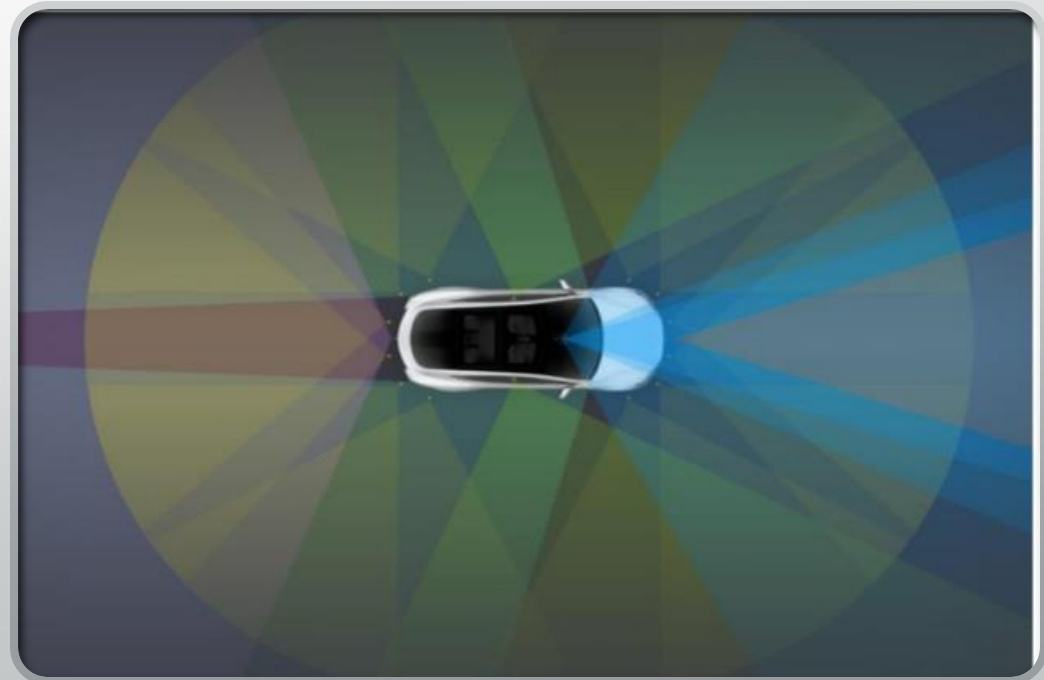




Manual transitions cars
without sensors



Tesla's and its sensors





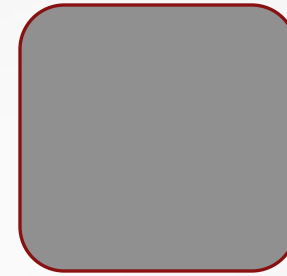
The future prospect



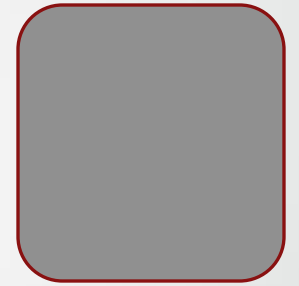
The most
successful car
company of
this century;



To produce
the van type



To transfer the
whole globe to
environmentally
friendly cars



To increase
car
production
to 1 million
cars a year

IMPORTANCE OF MODERN TECHNOLOGY FOR ORGANIZATION



- Money
- Reputation



THE CONSEQUENCES OF NOT USING MODERN TECHNOLOGY





Conclusion

- In conclusion I would like to say that tesla, eclectic battery is a good impact on our community as its going to help us decrease the co2 and harmful gases produced by non-electric cars and helps being more environment friendly .
- Me and my colleagues believe that the future will certainly be an electric and environmental friendly one.

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