



Presentation on Digital Skills and Research Methods

Alpha Kamara (2020079)

Biser Kolev (2022842)

Gabriele

Di Franco(2022721)

Gohar Amin (2021997)

Martin Naydenov
(2022271)

Lecture:Modak Koushik

Code of the Module
(BMSW4003_LON)

Table of contents.

- ▶ Background of the organisation. Biser Kolev (2022842)
- ▶ The challenges before the introduction of modern technology. Martin Naydenov (2022271)
- ▶ The insights to the modern technology introduced. Gohar Amin (2021997)
- ▶ The impact of the technology introduced. Gabriele Di Franco (2022721)
- ▶ The lessons that can be drawn from the case of study. Alpha Kamara (2020070)



- Tesla was founded in 2003 by a group of engineers that wanted to show the world that we don't need cars that drive on fossil fuels.
- Tesla have around 31.5 billion dollars from all products they sold. They started growing in 2013 where they had 2,014 million dollars. (Statista, 2021)

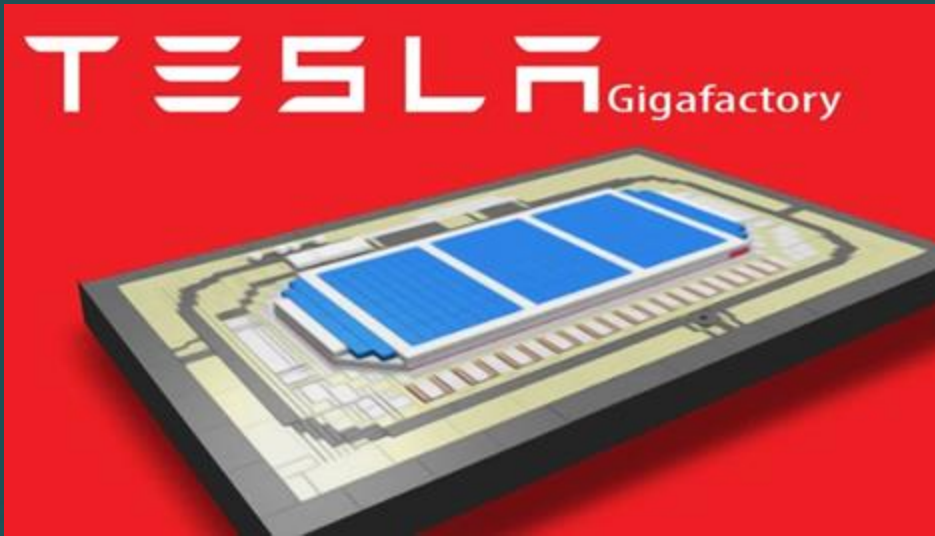
Mission

- is *“to accelerate the world's transition to sustainable energy.”*
(Tesla, 2021)



Vision

- is *“to create the most compelling car company of the 21st century by driving the world's transition to electric vehicles.”*
(Rowland, C. (2018, August 27))



- ✓ Supporting Tesla's automotive and energy products is Gigafactory 1 - a facility designed to significantly reduce battery cell costs.
- ✓ Designed to be a net zero energy factory upon completion, the facility will be primarily powered by solar, and installation is already underway.

- ✓ Tesla moving to a new generation (v9) of its Full Self-Driving software that will remove reliance on radar readings and instead have everything done through computer vision based on cameras.
- ✓ Tesla's system performs all the other driving tasks autonomously, including driving through intersections.





The challenges before the Introduction of modern technology

MARTIN NAYDENOV

STUDENT ID:2022271



Challenges before introducing of Self-Driving

- Driving is one of the most dangerous ways to get around.
- Tesla decide to find a solution of this big problem and start to produce a cars with Self-Driving.
- Acording to the WHO every year die over 1.35 million people as result of road traffic incidents.

Self-Driving Tesla

Self-Driving vehicles are a big part of developing transportation safety and help for better future.

Autopilot presents new highlights and improves existing usefulness to make Tesla more secure and more fit over the long run



Challenges before introducing Giga factory

The pollution of the air, the rivers, because of producing power, bring a big problems like the global warming.

As many other companies, Tesla try to find alternative. And it was successful.





Gigafactory Tesla

- Tesla's mission is to pick up the world's transition to stably energy through more and more affordable electric vehicles and energy products.
- To produce 500,000 cars per year, Tesla alone will require now days, whole worldwide supply of lithium-ion batteries

INSIGHTS OF
MODERN
TECHNOLOGY
Gohar
Amin (2021997)



INSIGHTS OF MODERN TECHNOLOGY

Designing their own software operating systems and dedicated electric cars. The incentive structure is set up. Tesla made his own modern technology programme of stress tests. Tesla is a pioneer company who made a new developed system which is somehow relevant with modern technology like APPLE.CO.



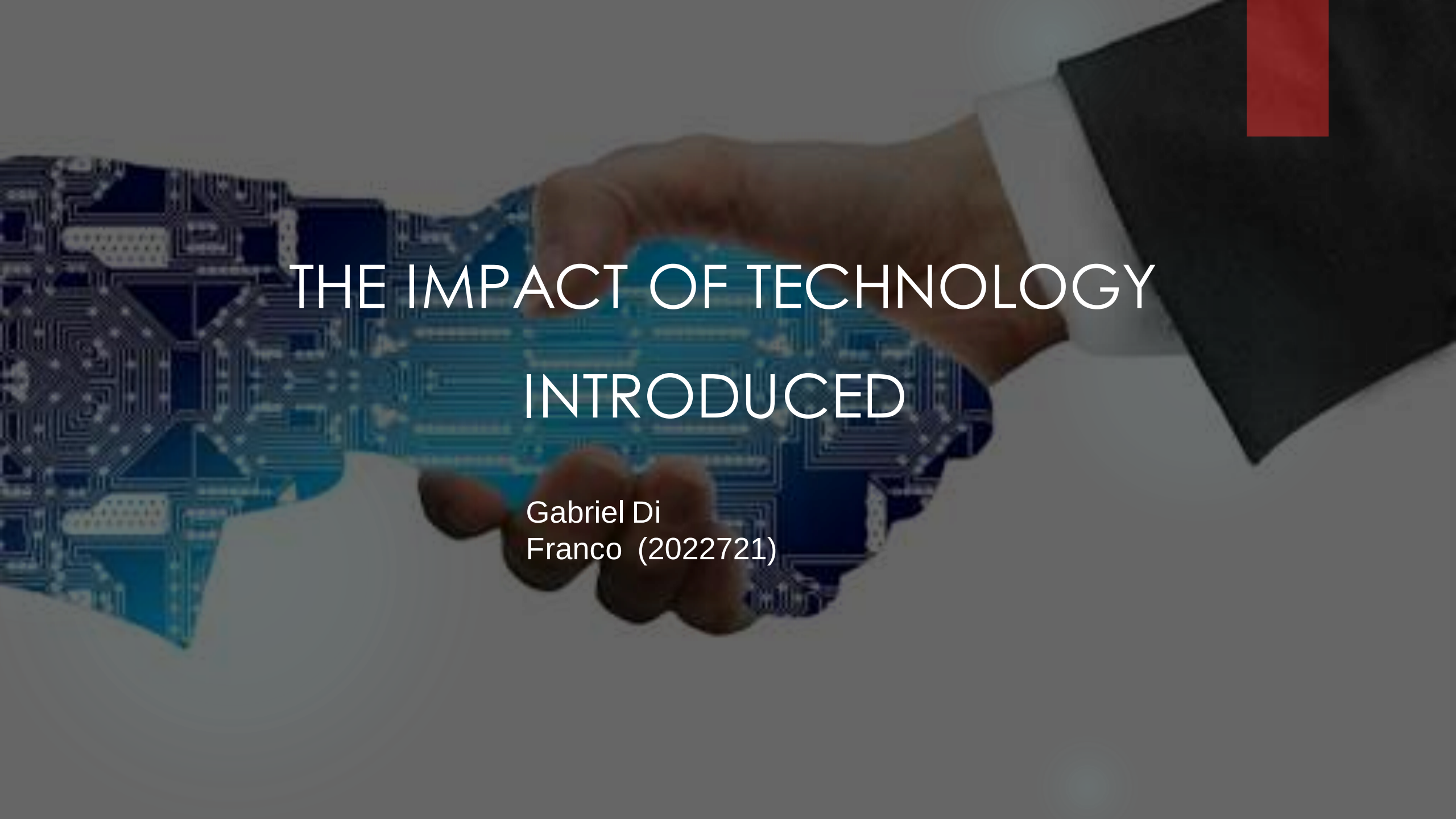
Insights of Modern Technology continue.

- ← Tesla always introduces only new innovations in the field of technology. A perfect use of artificial intelligence through creative and innovative programmes to make a pioneer new products in the automobile industry. Tesla made new programs which are collaborated with sensors and operated directly from silicon valley.
- ← New innovations come from new software engineers not from mechanical engineers. Latest technology is only used when it comes in right hands and in my observation of this time according to automobiles modern technology is in right hands.

GIGA FACTORIES

Tesla has made many mega factories but Tesla cars manufacturing plant is one of the biggest infrastructure ever which is working on our future modern technology they are one of the pioneer company which is working on AI . Our future cars like tesla mega project is growing very fast just because Tesla is doing work on present and future needs of their users with their new and updated products and models .



The background image shows a hand holding a glowing blue circuit board. The circuit board has intricate white and yellow patterns. The hand is positioned in the center, with the fingers gripping the board. The background is a dark, muted blue-grey. In the top right corner, there is a solid red vertical rectangle.

THE IMPACT OF TECHNOLOGY INTRODUCED

Gabriel Di
Franco (2022721)



THE MACHINE THAT BUILDS THE MACHINE

- ▶ RAW MATERIALS
- ▶ Every car generates an environmental impact before they even hit the road.
- ▶ A Tesla car is much dirtier emission-wise than a conventional car.

AUTOPILOT

AUTOPILOT 1

- Front camera (single monochrome)
- Front radar with range of 160 meters (Bosch Mid-range radar sensor)
- 12 ultrasonic sensors with 5 meters



AUTOPILOT 2.5

Front cameras (3 cameras, medium, narrow and wide angle)

Side cameras (4 total, 2 forward and 2 rear-facing, on each side)

Rear camera (1 rear-facing)

Front radar with range of 160 meters (Bosch Mid-range radar sensor)

12 ultrasonic sensors with 8 meters

LESSONS THAT CAN BE DRAWN FROM THE CASE STUDY

THESE STOCKS HAVE THE POTENTIAL DELIVER A SIGNIFICANT CHARGE.

. TESLA [NASDAQ: TSLA] HAS BEEN A MAGNET FOR ATTENTION. AND CRITICISM. IN RECENT YEARS. BUT IT IS HARD TO ARGUE WITH THE RESULTS. SHARES OF THE ELECTRIC VEHICLE MAKER ARE UP MORE THAN 1.000% OVER THE PAST THREE YEARS AS INVESTORS GROW INCREASINGLY EXITED ABOUT THE WAVE OF CHANGE COMING TO THE AUTOMOTIVE INDUSTRY. **TESLA HAS COME A LONGE WAY IN A SHORT AMOUNT OF TIME . BUT IT WILL HARDLY BE ALONE IN BENEFITING FROM THE ELECTRIFICATION OF THE AUTOMOBILE. HERE “S WHY THREE FOOL. COM CONTRIBUTORS BELIEVE FISKER [NYSE: FSR]**

NIO[NYSE:NIO]. AND CHARGE POINT HOLDINGS[NYS:CHPT HAVE THEPOTENTIAL TO DELIVER TESLA .LIKE RETURNS IN THE YEARS TO COME. [LOU WHITEMAN. RICH SMITH. AND AND JOHN ROSEVEAR. APR 10,2021,AUTHOR BIO] .



LESSON THAT CAN BE DRAWN FROM THE CASE STUDY CONTINUE.

- ← .manufacturing vehicles is hard. As tesla has discovered over the years as it tries to scale its operation. And with industry titans like general motors and Volkswagen ready to flood the market with electric vehicles scale is going to matter more than ever in the years to come.
- ← .it was nearly a double for the years as of early march before giving back most of those gain in recent weeks. I cant say for sure it or any stock will experience the sort of run. Tesla has had over the past three years. But the asset-light model. if successful. Gives tesla the chance to generate strong in plant. supply chains and work force.

Conclusion

- ▶ As a conclusion we can say, Tesla is a company which think about the future of our planet, and also whoever married their concept.
- ▶ With this presantation, we hope that the audience, will agree with us ,because we believe, the electricity is not only cleaner it is also better. And maybe from tomorrow, all of you will start to think more about our planet, and how we can preserve it.

References

- ← About Tesla | Tesla. (n.d.-b). Tesla. https://www.tesla.com/en_GB/about?redirect=no (Accessed: 15 April 2021)
- ← AutoPilot Review. 2021. *Tesla Autopilot AP1 vs AP2 vs AP3 - Differences Explained - AutoPilot Review*. [online] Available at: <<https://www.autopilotreview.com/tesla-autopilot-v1-v2-v3-and-beyond-differences/>> [Accessed 9 April 2021].
- ← Andrews, R. (2018, December 12). Powering the Tesla Gigafactory. Energy Matters. <http://euanmearns.com/powering-the-tesla-gigafactory/> (Accessed: 15 April 2021)
- ← BAER,DRAKE,BUSINESSINSIDER.COM.RETRIEVED OCTOBER2,2018.
- ← <https://bernardmarr.com/default.asp?contentID=645>
- ← Edward Taylor,Nori Shirouzu and Joe White
- ← ELON MUSK, FORBES.RETRIEVED FEBRUARY15,2021.
- ← Andrew Krososky Exploring How Different Energy Sources Cause Different Forms of Pollution<https://www.greenmatters.com/p/pollution-by-energy-source> (Accessed: 14April 2021)
- ← Lambert, F., & Lambert, F. (2021, April 14). Tesla next-gen 'Full Self-Driving' is delayed to May-June, subscription coming next month. Electrek. <https://electrek.co/2021/04/14/tesla-next-gen-full-self-driving-delayed-to-may-june-subscription/> (Accessed: 15 April 2021)

References

- ← Lambert, F., & Lambert, F. (2021, April 14). Tesla next-gen 'Full Self-Driving' is delayed to May-June, subscription coming next month. Electrek. <https://electrek.co/2021/04/14/tesla-next-gen-full-self-driving-delayed-to-may-june-subscription/> (Accessed: 15 April 2021)
- ← LOU WHITEMAN, RICH SMITH, AND JOHN ROSEVEAR, Apr 10, 2021, AUTHOR BIO,
- ← Oremus, W., 2021. *How Green Is a Tesla, Really?*. [online] Slate Magazine. Available at: <<https://slate.com/technology/2013/09/how-green-is-a-tesla-electric-cars-environmental-impact-depends-on-where-you-live.html>> [Accessed 17 April 2021].
- ← Rayat, P. S. (2015, November). EV Charging Infrastructure for Smart Cities using IOT & Smart Sensors - v1.00. Slideshare. <https://www.slideshare.net/PrabhdipSinghRayat/ev-charging-infrastructure-for-smart-cities-using-iot-smart-sensors-v100-56259385> (Accessed: 15 April 2021)
- ← <https://www.reuters.com/article/us-autos-tesla-newera-insight-idUSKCN24N0GB>
- ← Rowland, C. (2018, August 27). *Tesla, Inc.'s Mission Statement & Vision Statement (An Analysis)*. Panmore Institute. <http://panmore.com/tesla-motors-inc-vision-statement-mission-statement-analysis> (Accessed: 15 April 2021)
- Statista. (2021, January 28). Tesla's revenue 2008–2020. <https://www.statista.com/statistics/272120/revenue-of-tesla/> (Accessed: 15 April 2021)
- ← Tesla Gigafactory | Tesla UK. (n.d.). Tesla. https://www.tesla.com/en_GB/gigafactory?redirect=no (Accessed: 15 April 2021)

References

- ← <https://www.tesla.com/autopilot>(Accessed: 13 April 2021)
- ← <https://www.tesla.com/blog/all-tesla-cars-being-produced-now-have-full-self-driving-hardware> (Accessed: 14 April 2021)
- ← The Verge. 2021. *Tesla will live and die by the Gigafactory*. [online] Available at: <<https://www.theverge.com/transportation/2018/11/30/18118451/tesla-gigafactory-nevada-video-elon-musk-jobs-model-3>> [Accessed 13 April 2021].
- ← Union of Concerned Scientists. 2021. *Cleaner Cars from Cradle to Grave*. [online] Available at: <<https://www.ucsusa.org/resources/cleaner-cars-cradle-grave#.XFHbjs9Kjfb>>[Accessed 8 April 2021]
- ← Road traffic injuries <https://www.who.int/news-room/fact-sheets/detail/road-traffic-injuries> (Accessed: 12 April 2021)