FACT CHECKING NEW YORK TIMES AD 1/16/22

"DON'T BE A TESLA CRASH TEST DUMMY"

- Crash test dummies is a metaphor. There are several YouTube videos that show Full Self-Driving turning into the path of pedestrians. Check out these:
  - https://hothardware.com/news/tesla-fsd-autoilot-crosswalk-dmca-video-takedown
  - https://www.youtube.com/watch?v=peL0GLc-MdA&t=485s
  - https://www.youtube.com/watch?v=OEC2nyYTewY&t=824s

"Making Computers Safe for Humanity"

Our slogan documented at www.dawnproject.com

"The Dawn Project"

Website: www.dawnproject.com

"We did not sign up our families to be crash test dummies for thousands of Tesla cars being driven on the public roads by the worst software every sold by a Fortune 500 company."

- None of us signed up our families, did you?
- On November 2, 2021 Tesla announced a recall of 11,700 Full Self-Driving cars due to a braking problem. https://www.bloomberg.com/news/articles/2021-11-02/tesla-recalls-full-self-driving-system-after-fixing-sfotware-bug. There are thousands of cars in the Full Self-Driving experiment.
- The videos show that they are being driven on public roads.
- And it is our considered opinion as argued below that Full Self-Driving is the worst of software.

"The Dawn Project is organizing the opposition to Elon Musk's ill-advised Full Self-Driving robot car experiment."

- I think this ad demonstrates that we are organizing an opposition to Full Self-Driving.
- People have been killed by Full Self-Driving (https://www.tesladeaths.com).
- Self-Driving cars are robots.
- Releasing such defective software is an experiment.

"Tesla Full Self-Driving must be removed from our roads until it has 1000 times fewer critical malfunctions."

- This is a demand not a fact.
- Below we show that Tesla Full-Self Driving commits more than 1000 times as many critical errors as human drivers.

"The Dawn Project has analyzed many hours of YouTube videos made by users of Tesla's Full Self-Driving. Our conclusions based on the videos posted online are as follows:"

- The report titled "Tesla Full Self-Driving Safety Analysis" ("Tesla FSD Safety Analysis.docx" in the data package) documents the conclusions of The Dawn Project analysis.
- The report analyzes 22 videos posted on YouTube recording 7:22:45 hours of driving under Full Self-Driving Beta by various members of the public. The links to YouTube are also provided. Copies of the videos have been archived in case they are taken down.
- The drivers repeatedly praise or congratulate Full Self-Driving or Autopilot for doing something as well as a human driver. They repeatedly excuse its mistakes that put lives in danger. By watching the videos you will soon conclude that the videos were all made by fans of Tesla Full Self-Driving.

"If Full Self-Driving was fully self-driving every car, millions would die every day."

- AAA estimate U.S. drivers drive an average of 17,600 minutes per year or 48 minutes per day. The time between likely collisions in the recent videos is measured as 36:25 minutes. So, the average number of likely collisions per day is 1.3. Some days you could be lucky and Full Self-Driving would not crash your car even once!
- The U.S. Bureau of Transportation reported 6,756,000 car crashes in the United States in 2019 with 36,096 fatalities. https://www.bts.gov/content/motor-vehicle-safety-data. This is an average of one fatality per 187 crashes. With an average of 1.3 crashes per car per day, that would mean one fatality each day for every 144 cars. If all 1 billion or so vehicles in the world were all using Full Self-Driving for full self-driving, approximately 7 million people would die per day.

"About every 8 minutes, Full Self-Driving malfunctions and commits a Critical Driving Error according to the California DMV Driving Performance Evaluation."

- References [1] and [2] of the Report are links to the California Department of Motor Vehicles driving test performance criteria. The definition of Critical Driving Error is in reference [2] of the Report.
- The Report records 67 Critical Driving Errors by Full Self-Driving in 7:22:45 hours.

- This averages to one Critical Driving Error every 6:36 minutes. In videos posted in 2020 the average is 4:08 minutes. In videos posted more recently the average is 8:34 minutes.

"About every 36 minutes, Tesla Full Self-Driving commits an unforced error that if not corrected by a human would likely cause a collision."

- The Report records that in 7:22:45 hours of videos, Full Self-Driving made 17 errors that would have likely resulted in a collision had the driver not taken control.
- That averages one likely collision every 26:03 minutes. In videos posted in 2020 the average is 15:08 minutes. In videos posted recently, the average is 36:25 minutes between unforced errors that would have likely caused a collision if Full Self-Driving were driving autonomously (without driver intervention).

"Unassisted, Full Self-Driving can't reliably drive for one day without crashing, but human drivers drive many years between crashes"

- https://newsroom.aaa.com/2016/09/americans-spend-average-17600-minutes-driving-year. According to AAA, the average American drives 48 minutes per day. That is longer than the time between likely crashes of unassisted Full Self-Driving, which is 36 minutes.
- https://www.bankrate.com/insurance/car/auto-insurance-statistics: There are approximately 5.9 collision insurance claims per 100 years of insured coverage in the U.S., an average of 16.9 years between claims.

"Humans are thousands of times better at driving than Tesla Full Self-Driving"

- The report uses two different ways to measure how much worse Full Self-Driving is than an average human driver, one gave a result of 8,506 times worse, the other 26,546 times worse.

"The Dawn Project is offering $10,000 to the first person who can name another commercial software product that has a critical malfunction every 8 minutes. To apply, and for full Terms and Conditions, please visit www.dawnproject.com/contest.html)

- Follow the link.

Dan O'Dowd, Founder

- www.DanODowd.com

Description of the data package

- "Tesla FSD Safety Analysis.docx" is the Dawn Project Report titled "Tesla Full Self-Driving Safety Analysis." It documents the conclusions of The Dawn Project Report on Full Self Driving.
- "Tesla FSD Safety Data" is a spreadsheet containing the raw data analysis that supports the Report. There are 4 tabs in the spreadsheet.
- FSD Analysis
    - The calculations used in the body of the Report.
- v8 Videos
- v9 Videos
- v10 Videos
    - The v8, v9, v10 Videos tabs in the spreadsheet annotate every video we analyzed. v8, v9, v10 refer to the last 3 versions of Full Self-Driving. It provides a link to the original posting on YouTube and it shows every incident that we counted including a description of the incident, the time in the video when the incident took place and a link which drops you into the video just before the incident.
    - The cells with a white background demonstrate Maneuver Errors according to the California DMV (every 3 minutes).
    - The cells with orange background demonstrate Critical Driving Errors that would flunk a driver's test (every 4 to 8 minutes).
    - The cells with red background show an incident in which Full Self-Driving made an unforced error such that had the driver not intervened Full Self-Driving would have likely caused a collision (every 15 to 36 minutes).
    - This allows anyone to reproduce our results or to make their own analysis.