

A Review of
Google Autonomous Car
Testing **Accidents**
(2016 & 2017)

[www.dmv.ca.gov/portal/dmv/
detail/vr/autonomous/testing](http://www.dmv.ca.gov/portal/dmv/detail/vr/autonomous/testing)

About 50% (7/13) of the accidents
Are low speed rear ends of the
Google Autonomous Car

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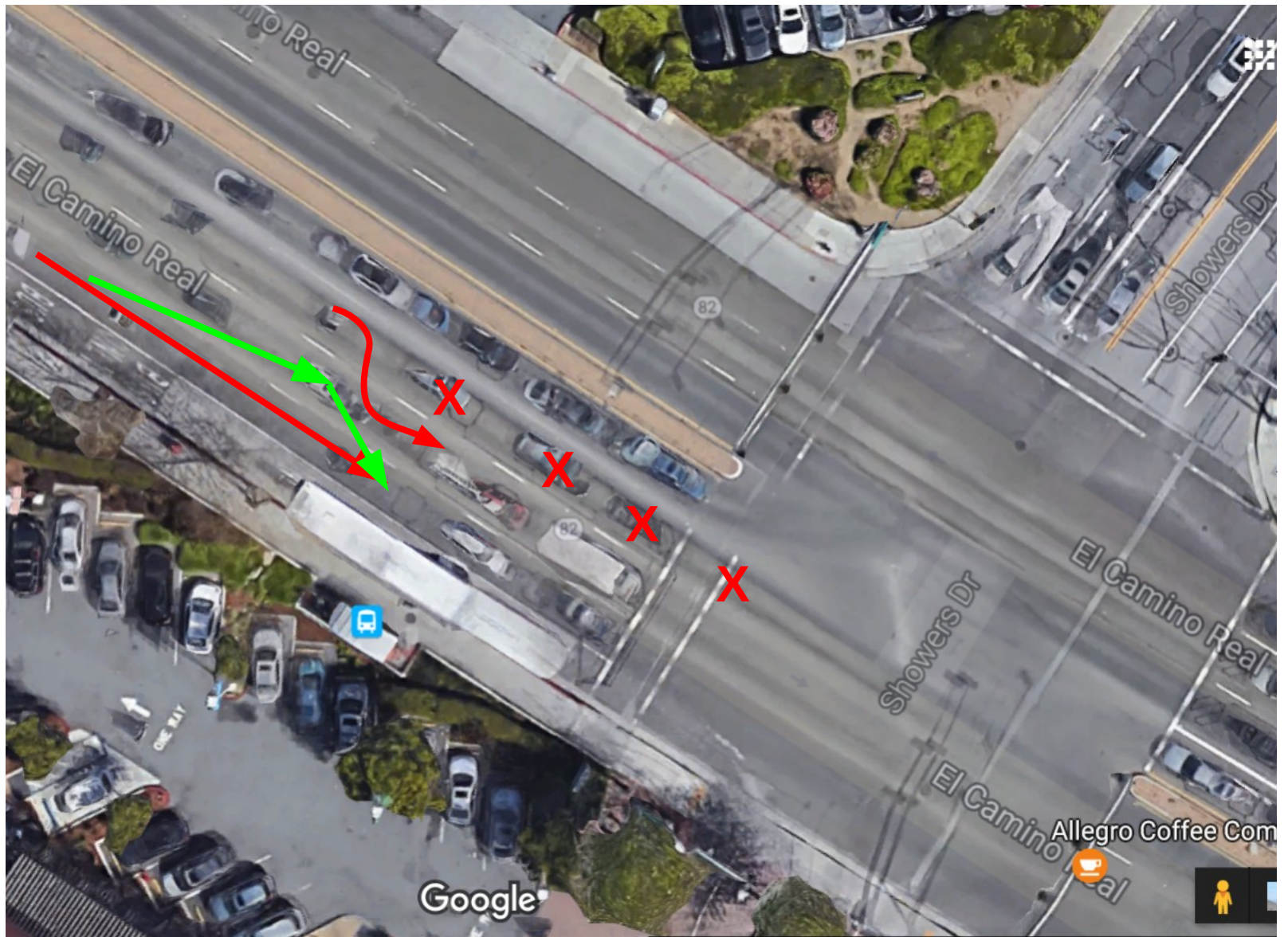
There is a pattern here

Otherwise.....

Google Sep 14, 2016 accident

Google
Human

Bad at
avoidance



Google Sep 23, 2016 accident

Google
Human

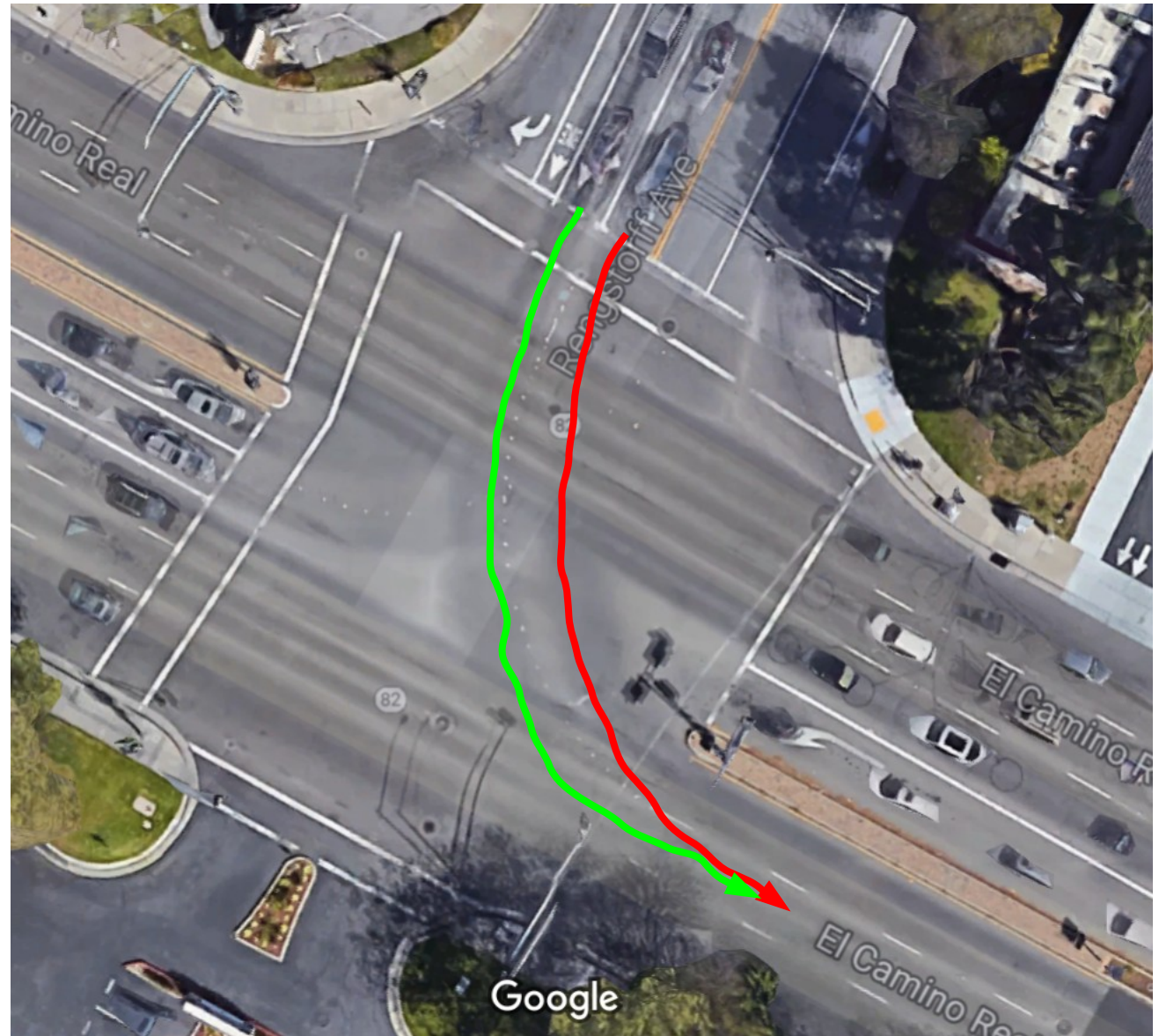
Bad at
avoidance



Google Dec 11, 2016 accident

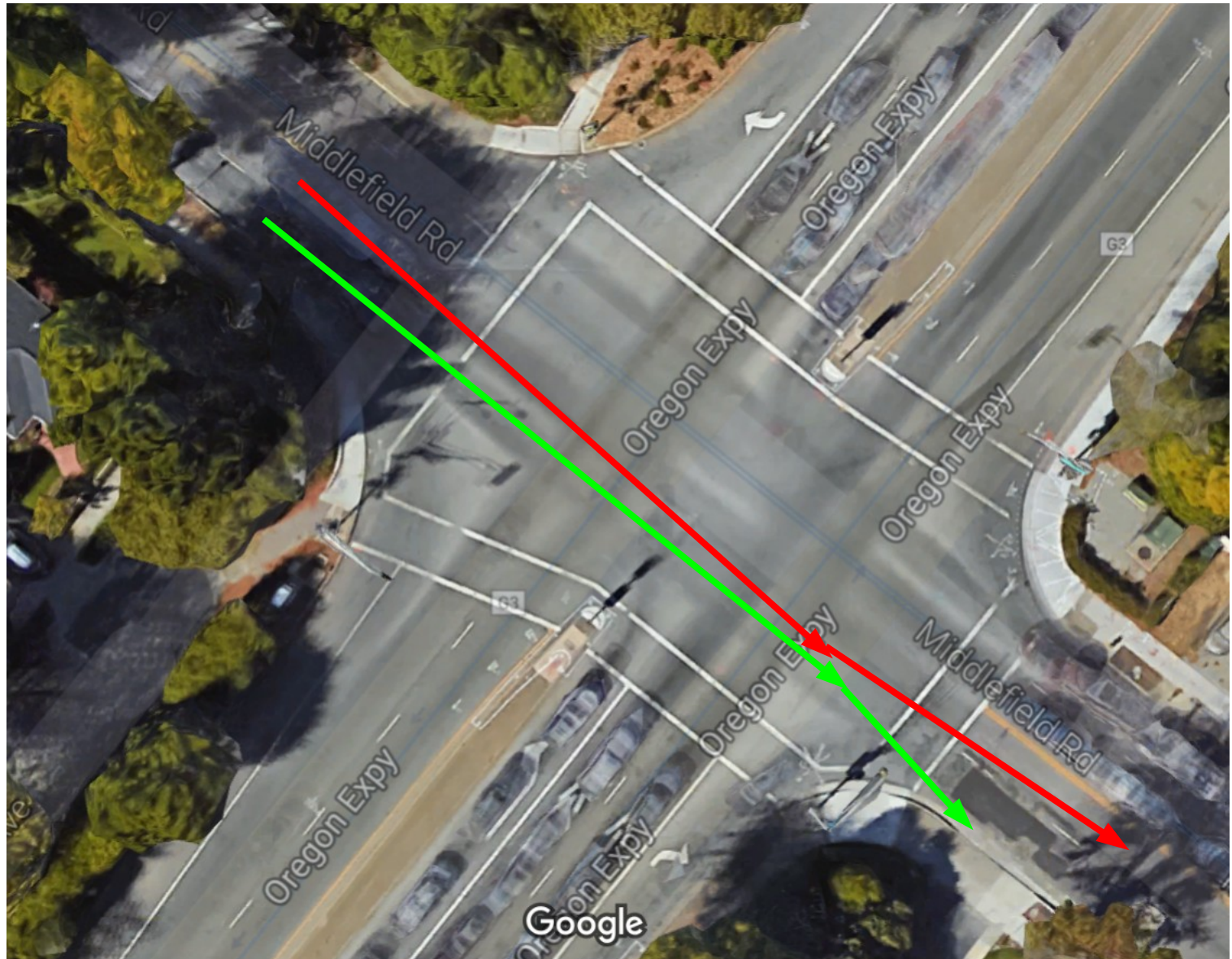
Google
Human

Follow law
Vs convention



Google Apr 17, 2017 accident

Google
Human



Conclusions

1. Waymo appears to represent the leading edge of capability
2. Clearly RoboCars are HIGHLY prone to low speed rear end collisions
3. RoboCars do NOT yet fit in with local driving conventions
 - Follow the law rather than the convention
 - Are overly cautious
4. Accident rates still 3+ times worst than humans
5. Waymo has demonstrated capability for low speed shuttles (local streets, restricted speed)
 - First / last mile needs