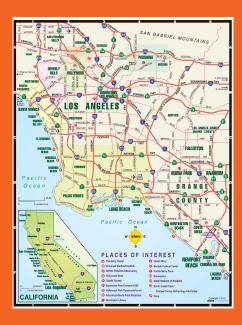
Los Angeles Crime

By: Breanna Ramos, Evelyn Ruiz Lopez, Mayra Varillas, Hayley Todd, and Justin Kim

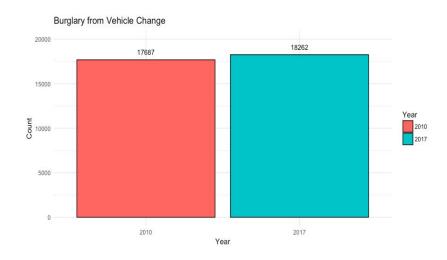


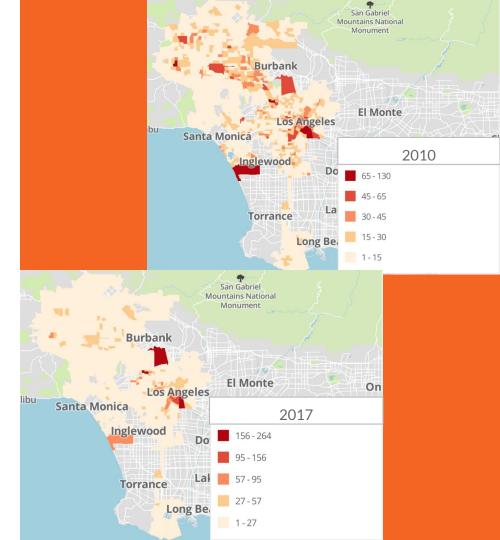
Our Question

→ Considering the advancements of vehicle technology between 2010 and 2017, have both the number of burglaries from vehicles and car collisions in Los Angeles decreased?

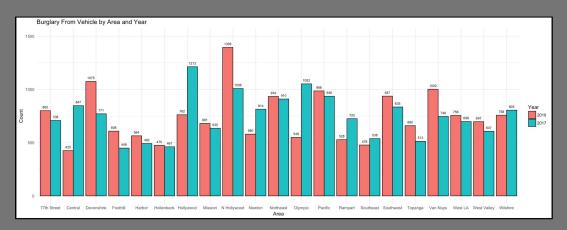
Analysis: Burglary From Vehicles

→ Burglary from vehicles has increased by only 3.25% since 2010





A Breakdown by Area and Ethnicity

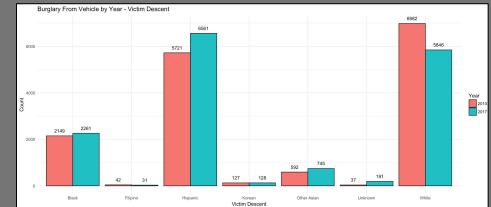


Top Left

- → 21 police department divisions
- → 13 areas decreased in burglaries from vehicles
- → When taking population into account, burglaries from vehicle decreased

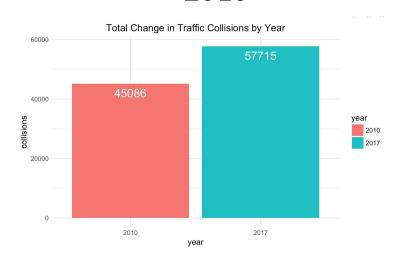
Bottom Right

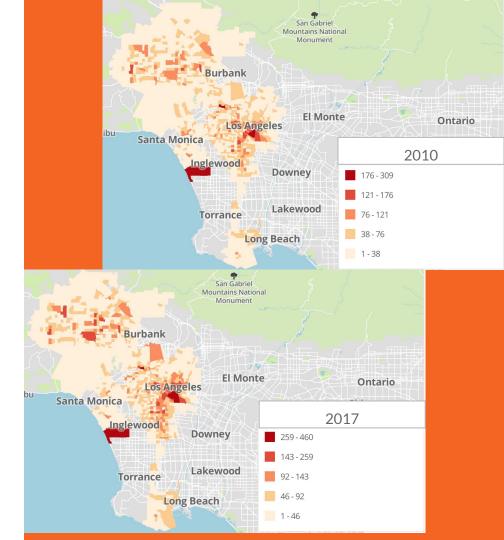
- → Largest **INCREASE** in victim descent: 15% (Hispanic)
- → Largest DECREASE in victim descent: 16% (White)



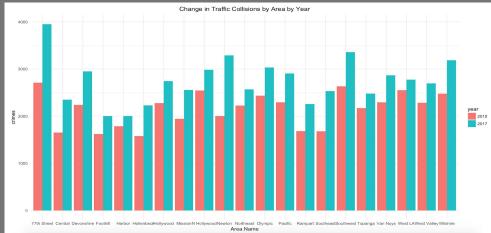
Analysis: Traffic Collisions

→ Traffic collisions have increased by approximately 28% since 2010

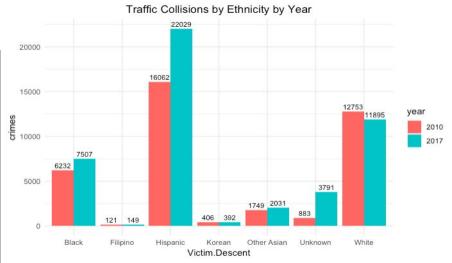




A Closer Look at Areas and Ethnicity

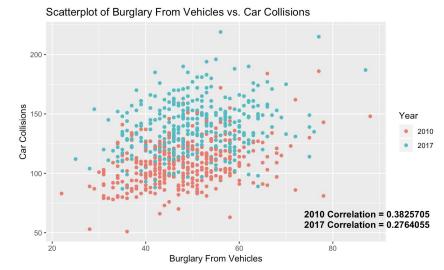


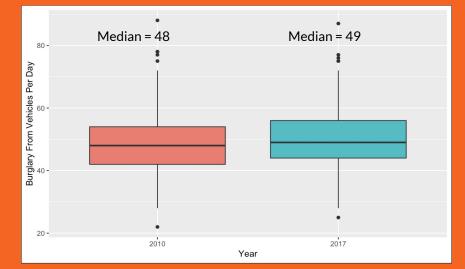
→ Almost every major ethnic group (Black, Hispanic, Other Asian) has experienced an increase in traffic collisions except those of white descent. → All areas have demonstrated an increase; however, 77th Street, Newton, and Southeast area illustrate the highest change

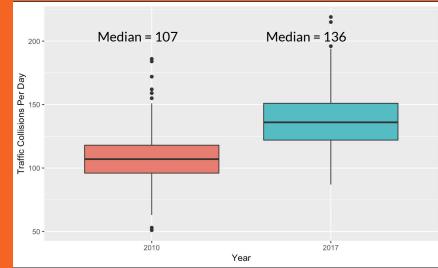


Comparison Between the Two Datasets

- → Slight increase for Burglary from Vehicles
- Major increase for Traffic Collisions



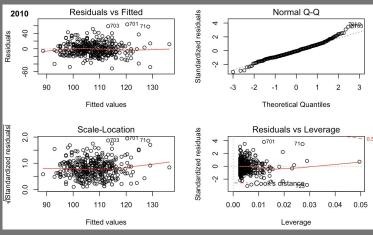


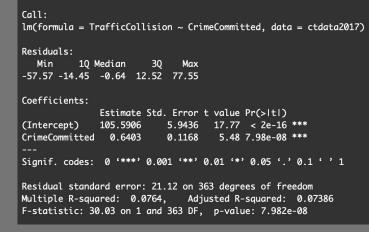


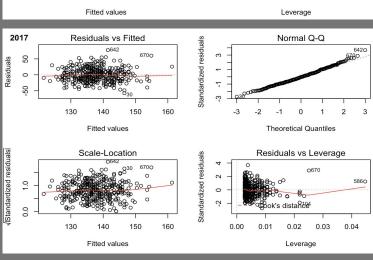
Comparison Between the Two

- → Burglary is significant for both years
- → Plots of both model closely fit model assumptions

```
Call:
lm(formula = TrafficCollision ~ CrimeCommitted, data = ctdata2010)
Residuals:
            10 Median
   Min
-51.629 -10.907 -1.294 9.817 63.592
Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)
              72.73596
                          4.50291 16.153 < 2e-16 ***
CrimeCommitted 0.72230
                                  7.889 3.62e-14 ***
                          0.09156
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 16.84 on 363 degrees of freedom
Multiple R-squared: 0.1464, Adjusted R-squared: 0.144
F-statistic: 62.24 on 1 and 363 DF, p-value: 3.619e-14
```







Conclusion

- → Holding all factors constant, both burglaries from vehicles and car collisions have increased since 2010
- → For future explorations, we would like to analyze other factors that may have impacted our findings, including but not limited to:
 - Declining Prison Populations
 - Distracted Driving Ordinances
 - Implementation of Advanced Car Features

