Biking in Seattle

Coursera Capstone Report Presentation
By: Saad Bin Manjur Adit
October 2020



Data Set

- Seattle DOT Collision Records Dating April 2004 to
- Present / 194,673 total collision records
- 5,527 total collisions involving a bicycle
- 4,805 bicycle collisions that resulted in a serious
- injuries <a> Link to Data

Variables

- 4,407 bicycle collisions occurred on Dry Road Conditions80% of the total bicycle collisions
- 3,146 bicycle collisions occurred at Intersections
 56.92% of total bicycle collisions
- 4,370 collisions involved a front end at angle impact79% of total bicycle collisions

Selected Collision Pool

- When combined 2,479 collisions on Dry Roads at Intersections
 - 80% of all collisions that occurred at intersections
- 2,276 of those collisions involved front end at angle impacts
 - 41% of total bike collisions

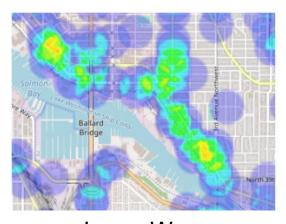
What do these collisions tell?

- Dry Roads played little factor into the stopping distance or cause of the crash
- Intersections means at least one party should be stopped or stopping
- Front end at angle impacts means one party either didn't obey traffic signal or didn't see the other

Dangerous Intersections



Downtown



Leary Way
Between Ballard Bridge and 3rd Ave



U of Washington Campus



Green Lake Area



Phiney Ave & Green Ave

What Can Be Done?

- Campaign directed towards bicyclist to stop at all intersections
 - Includes added enforcement
- Study Bike Lane use in high collision areas to determine if they are being used or need re-routed
- Study Intersection design to see if a different layout would lower the number of collisions

Conclusions

- While the collision numbers per year are small a bicyclist is 3x as likely to be seriously injured in a collision than a motorist
- Updating bike lanes and intersections can also reduce the number of pedestrian collisions as well
- Getting riders to abide by traffic laws will be difficult but will save lives