Reducing Accidents

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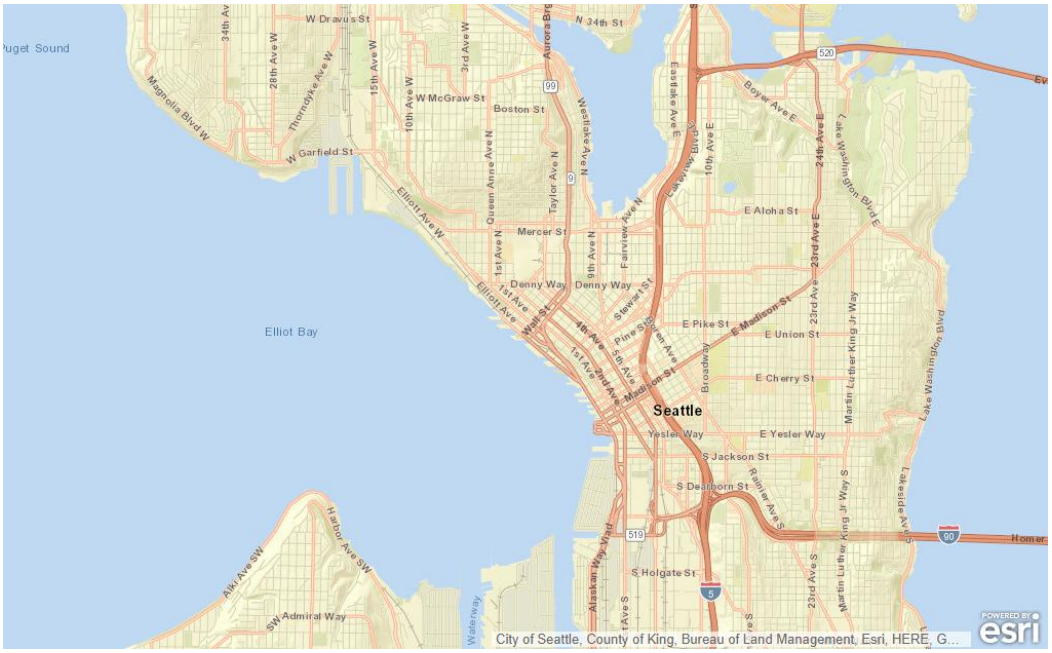
1. Introduction

1.1 Background

With the increase of population comes the need for increased transportation facilities. Fast paced lifestyle of public demands for shorter commute time. Governments however have constraints and may never be able to satisfy each an every one of its citizen on their travel needs each and every time a need arises. Having a personal vehicle is a straightforward and a quick fix to a flexible transport solution. Despite being expensive compared to public transport, it gives its owner round the clock service on any public road.

Developments in engineering and other technology along with increased affordability have exponentially increased the number of vehicles on road.

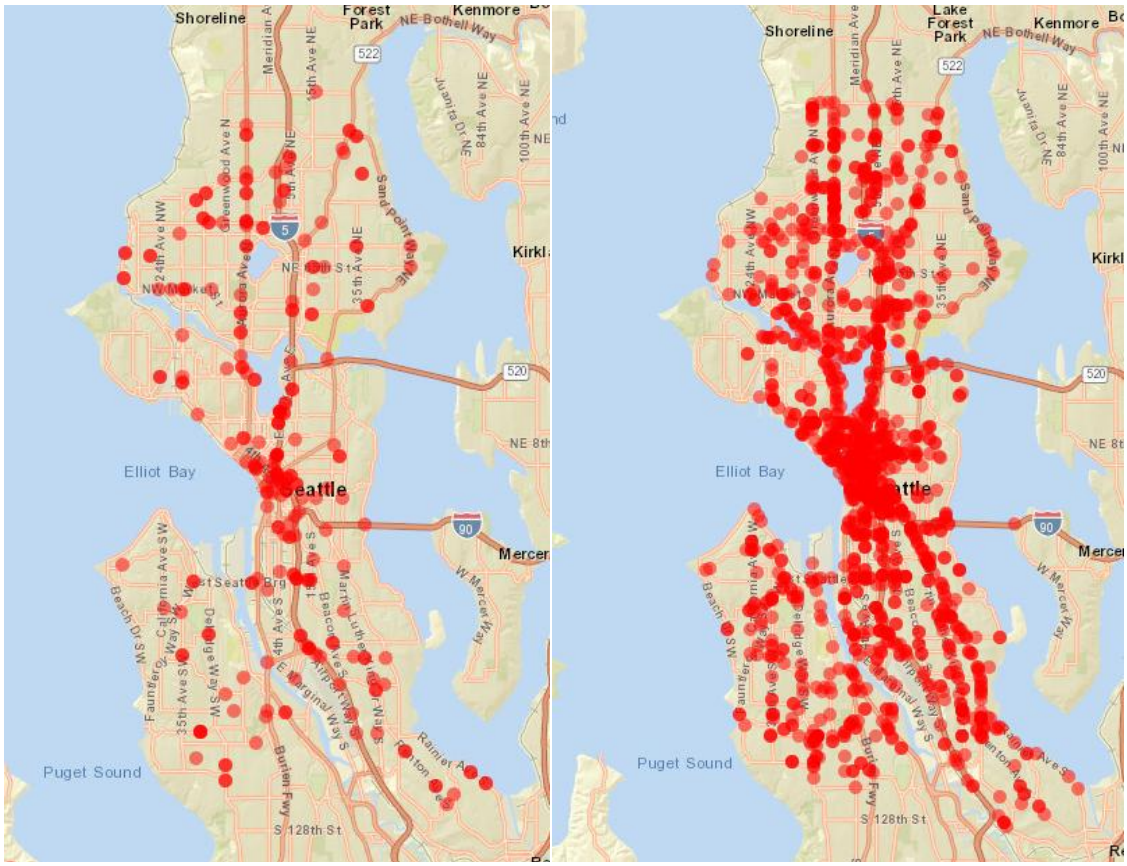
In this report we will be discussing about transport related issues in and around Seattle. We tried to see if we could identify underlying causes for increased number of accidents in certain areas compared to other areas.



Courtesy SDOT

1.2 Problem

Making roads safer for everybody has been a priority for the government and local authorities. We are trying to identify causes of accidents, and to reduce them continuously. We aim to make Seattle an accident free city in Five years time.



The first map shows the 244 fatal accidents that have taken place since January 2004. The second map shows the areas in which serious accidents have occurs during the same period. This clearly shows that certain areas are prone to more accidents and certain areas are relatively safer. There could be firm underlying explanations behind these patterns. Which is what we are trying to identify and address.

1.3 Interest

Seattle Department of Transport , Seattle Police department, Government , drivers, passengers and pedestrians will all would want to have an accident free city. Findings from this research upon verification shall be shared with all concerned parties.

To be continued… The remaining parts of this report will be uploaded by 27th of September 2020 as per requirement #3 of Coursera IBM capstone project on Data science