

Red Bull

1 Day as

Red Bull Analysts

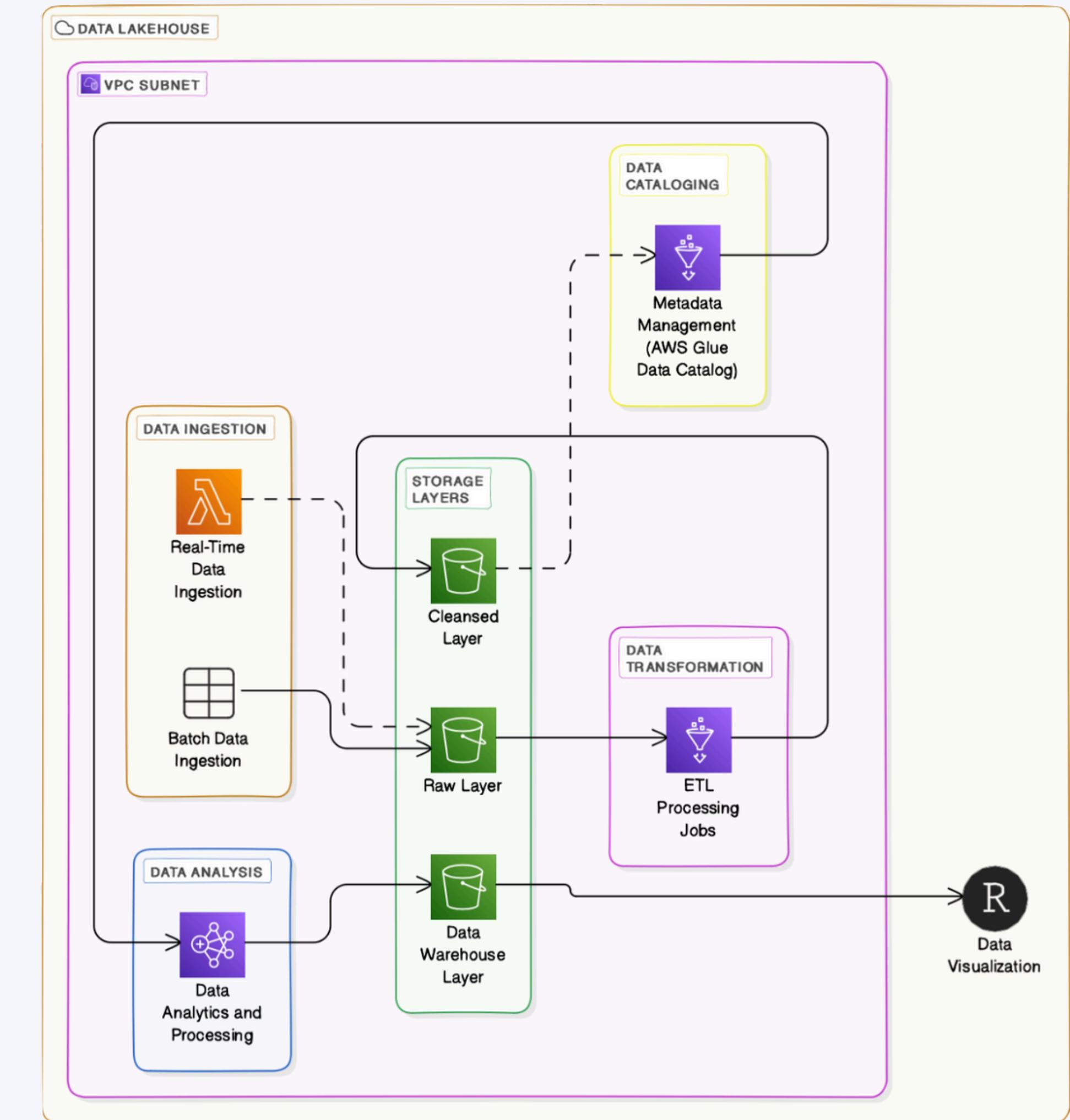
Big Data Final

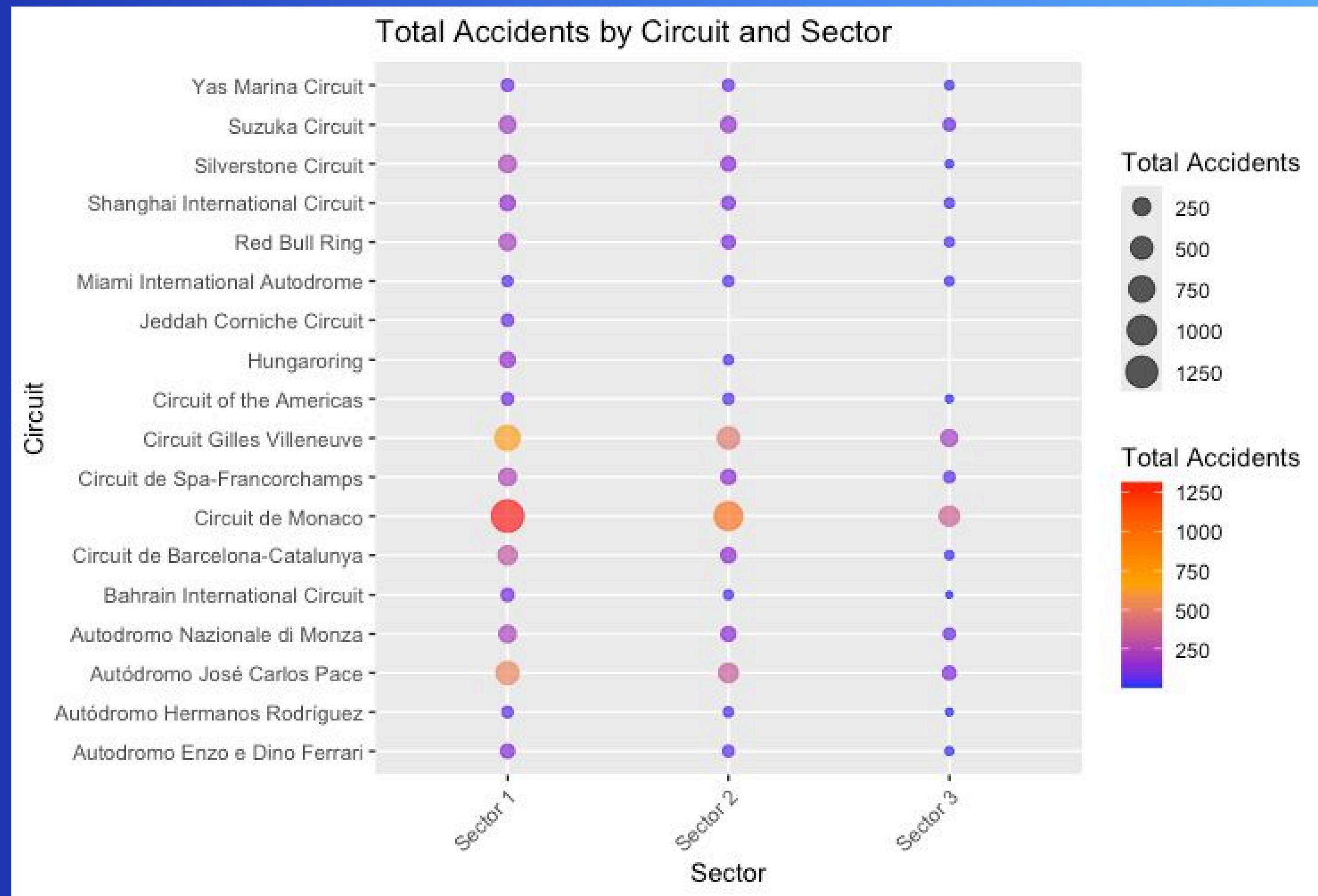
Term Project

Enrique Ulises Báez Gómez Tagle
Sara Rocío Miranda Mateos
Mauricio Ascencio Martínez



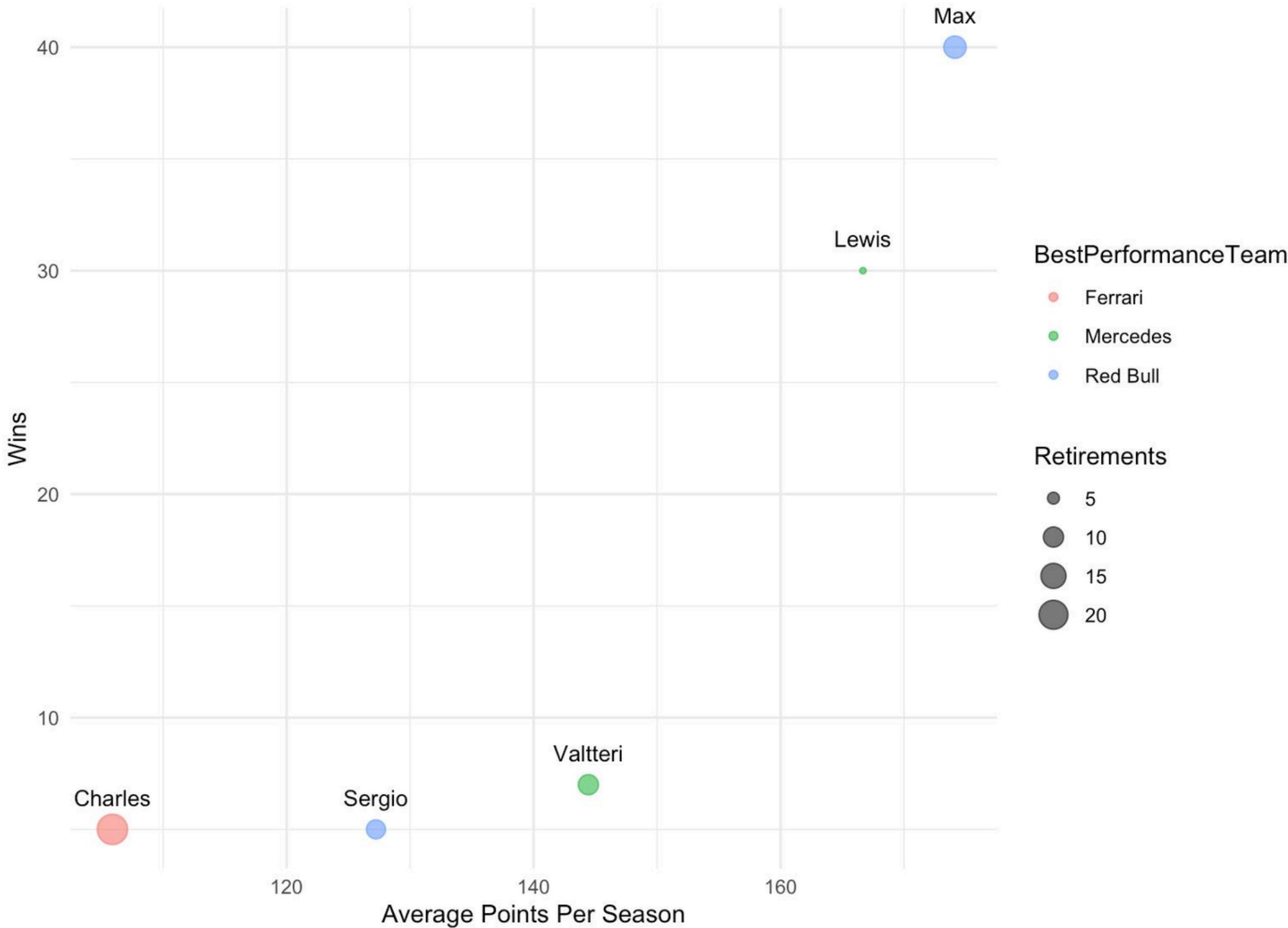
Architecture



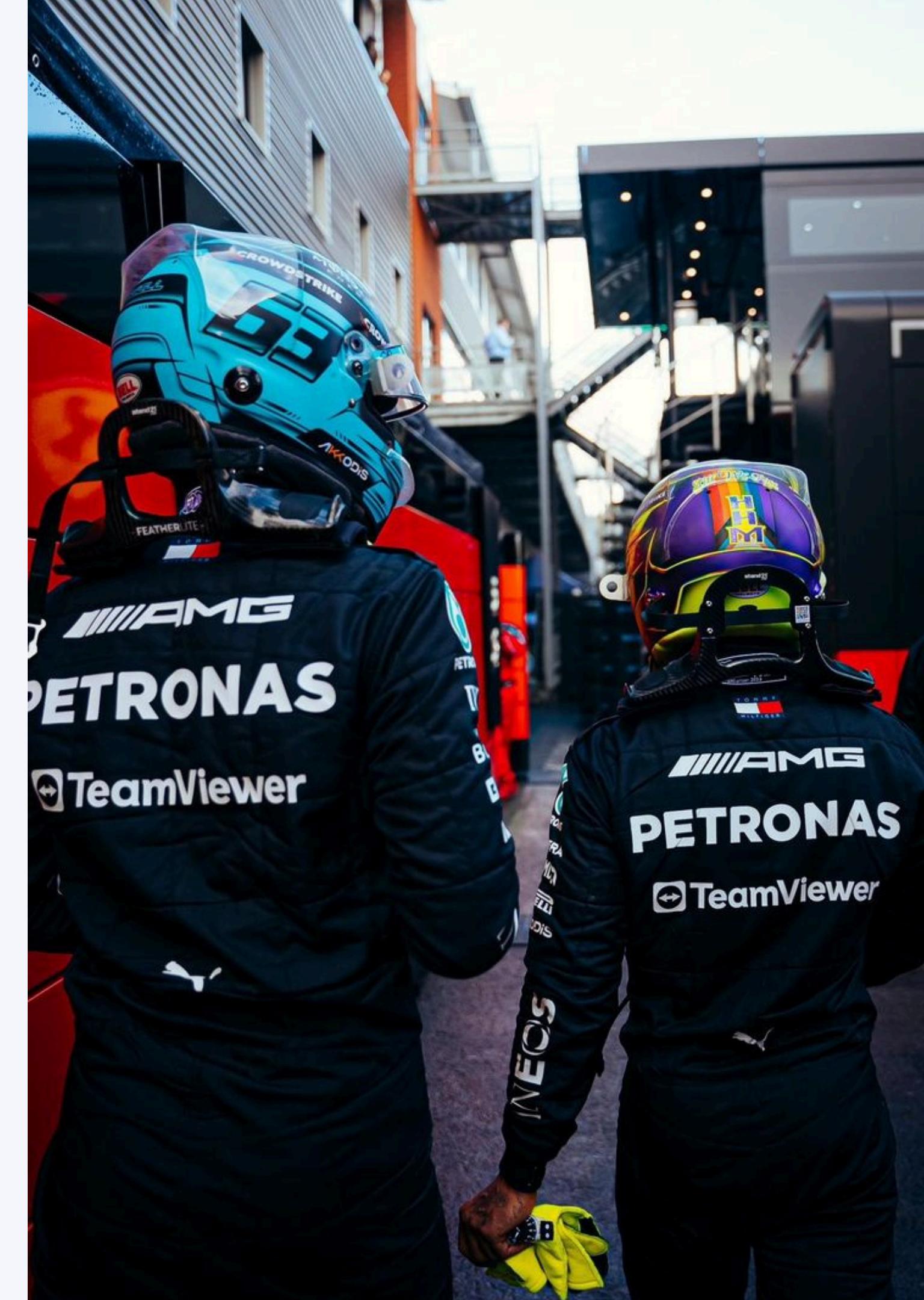


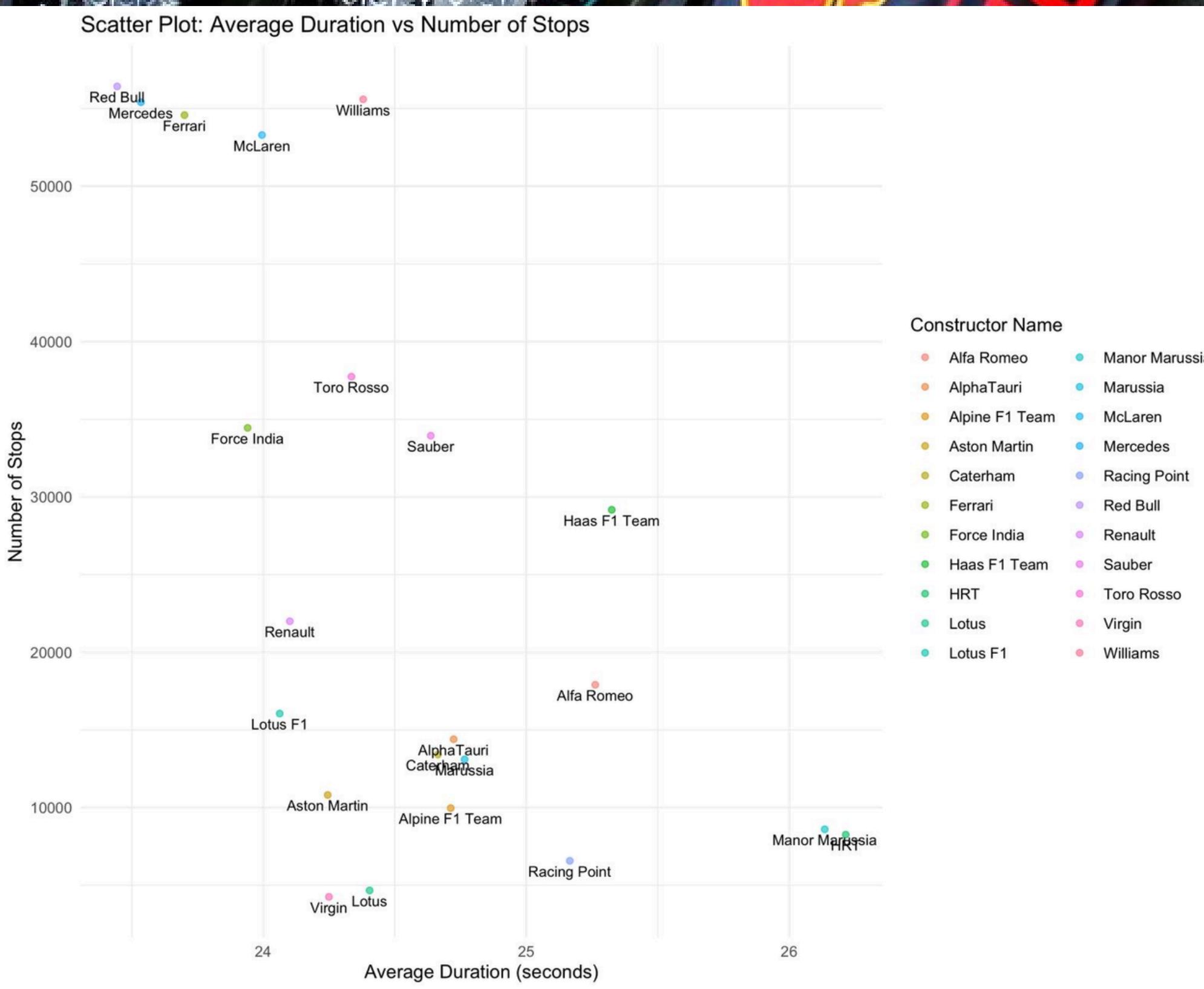
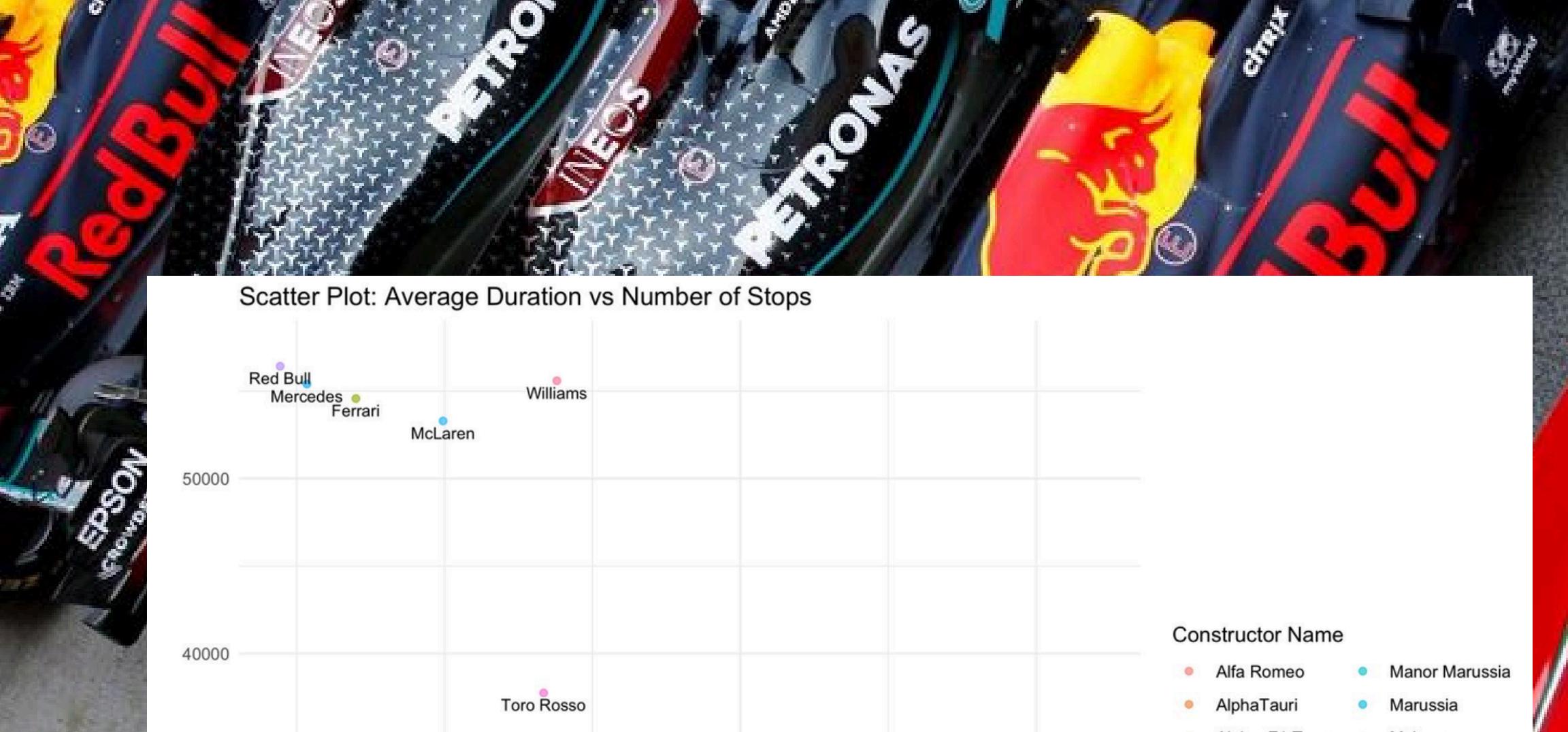
Identifies which sectors of each circuit are more prone to incidents, thereby guiding improvements in safety measures and refining race strategies

Bubble Chart: Average Points Per Season vs Wins



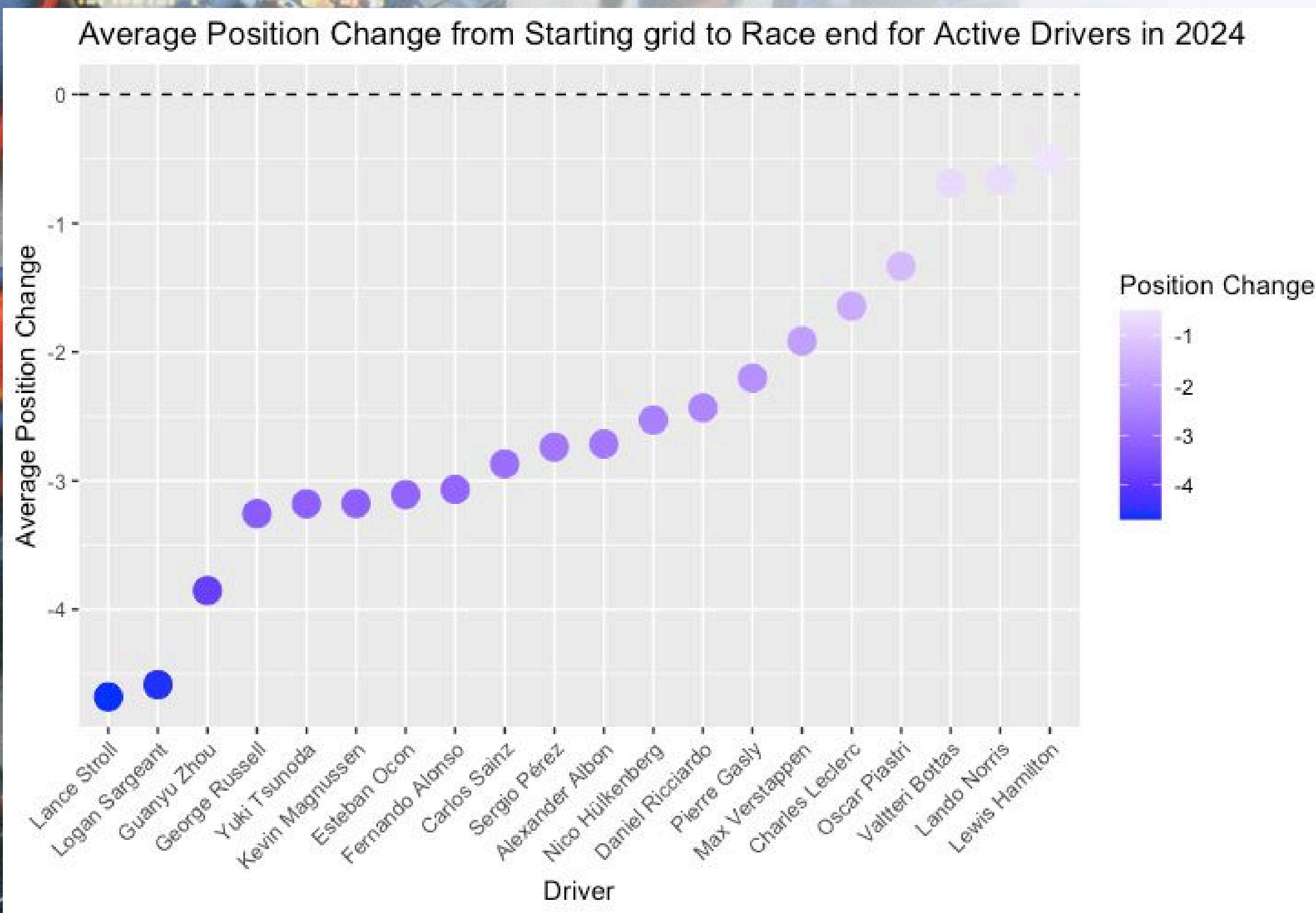
Plots the driver's performance, showcasing the relationship between the average points per season and total wins. This helps us to find the best replacement for Checo :(



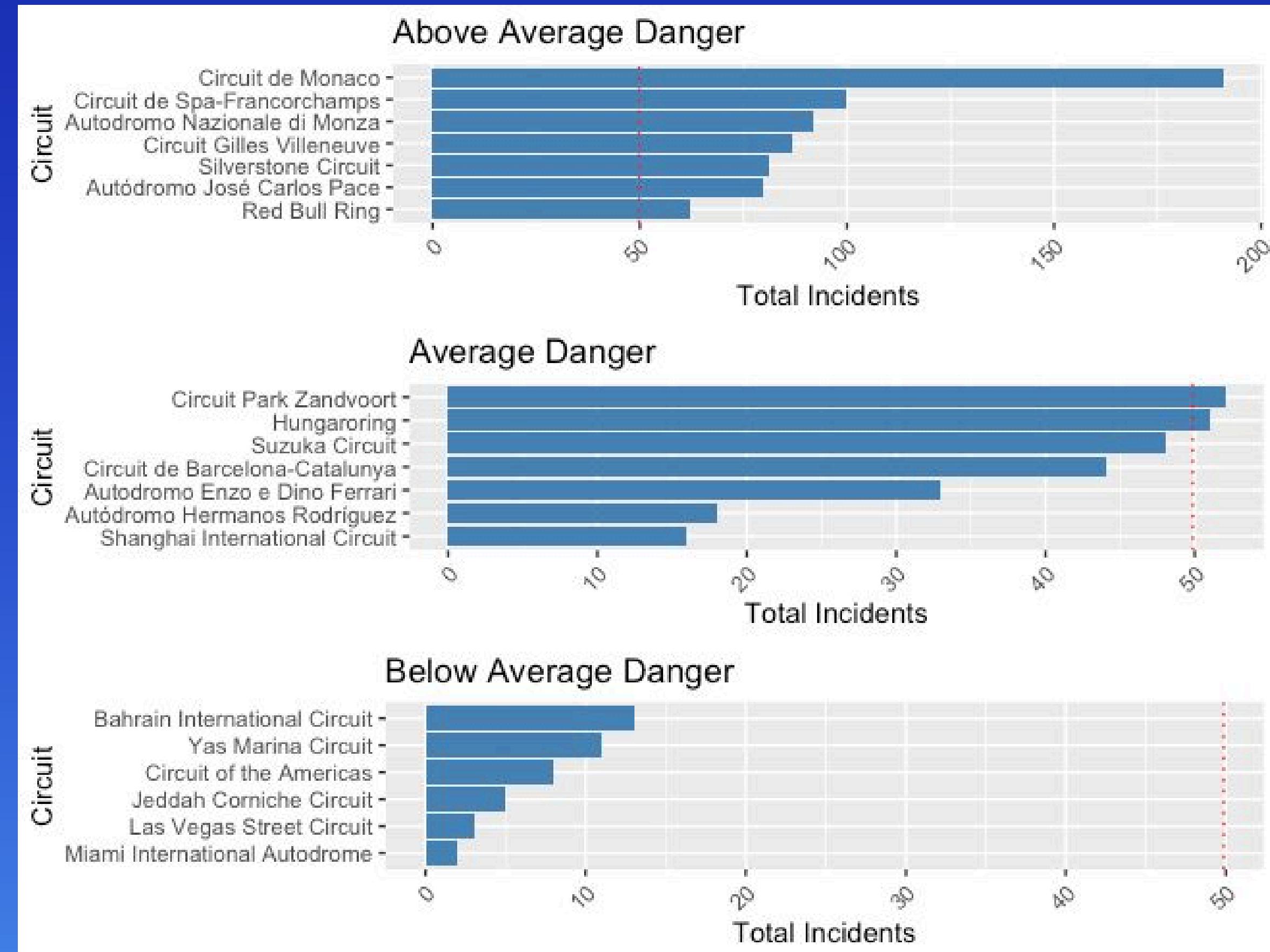


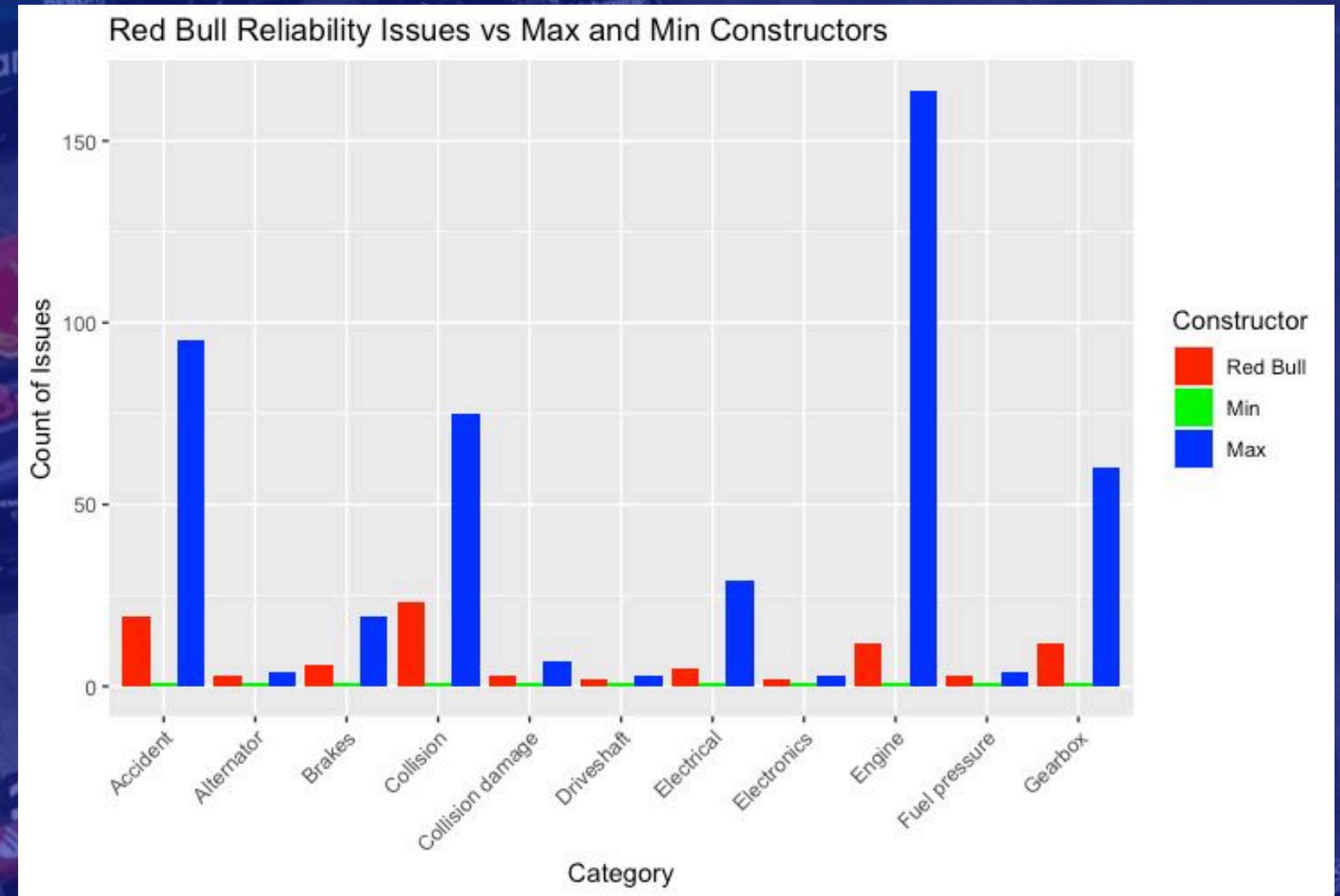
This scatter plot examines the relationship between the average duration of pit stops and the total number of pit stops for each Constructor

It quantifies each driver's ability to maintain or improve their position throughout a race, providing a measure of consistency



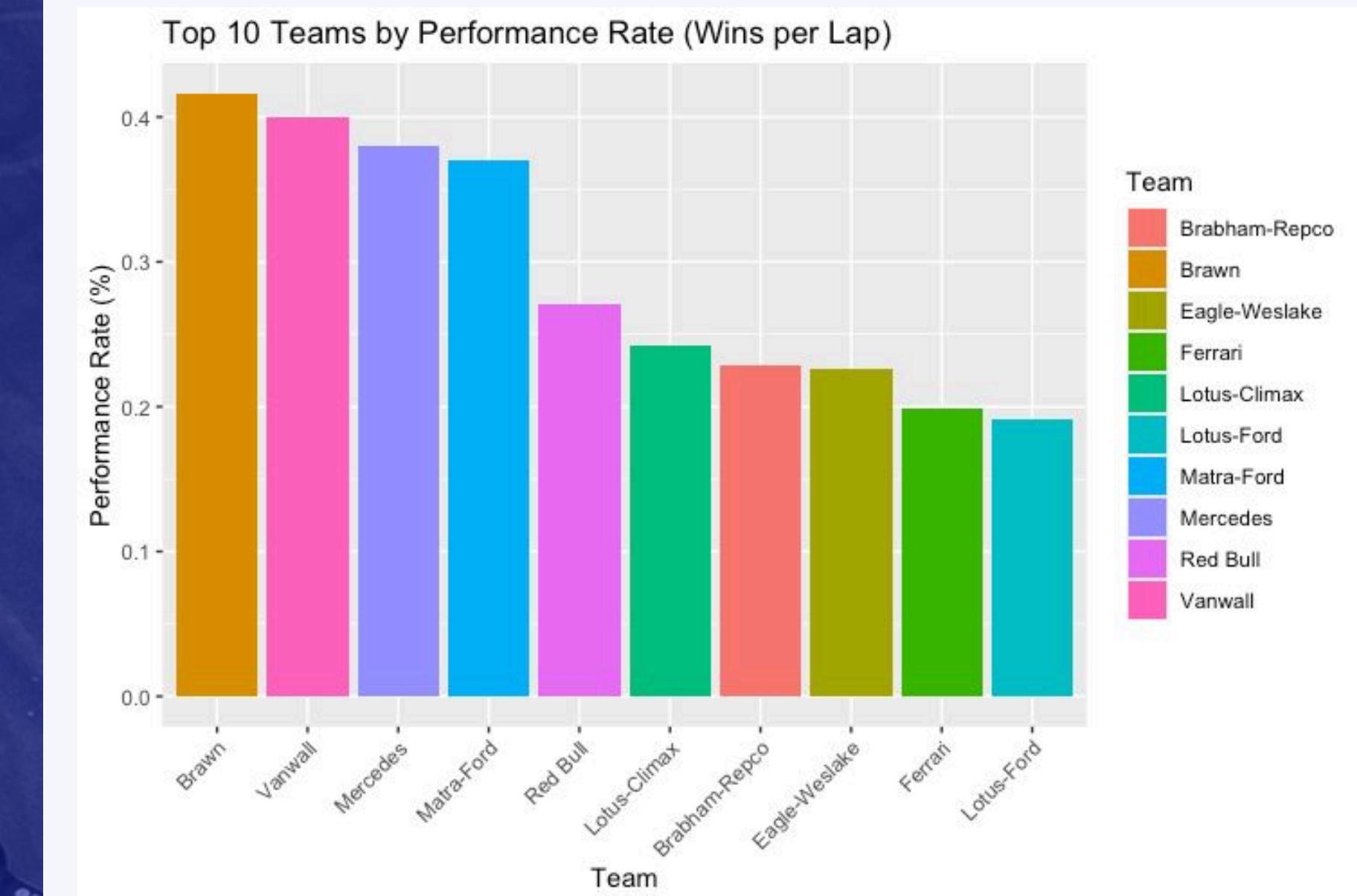
Categorizes various Formula 1 circuits into three tiers based on the total number of incidents reported

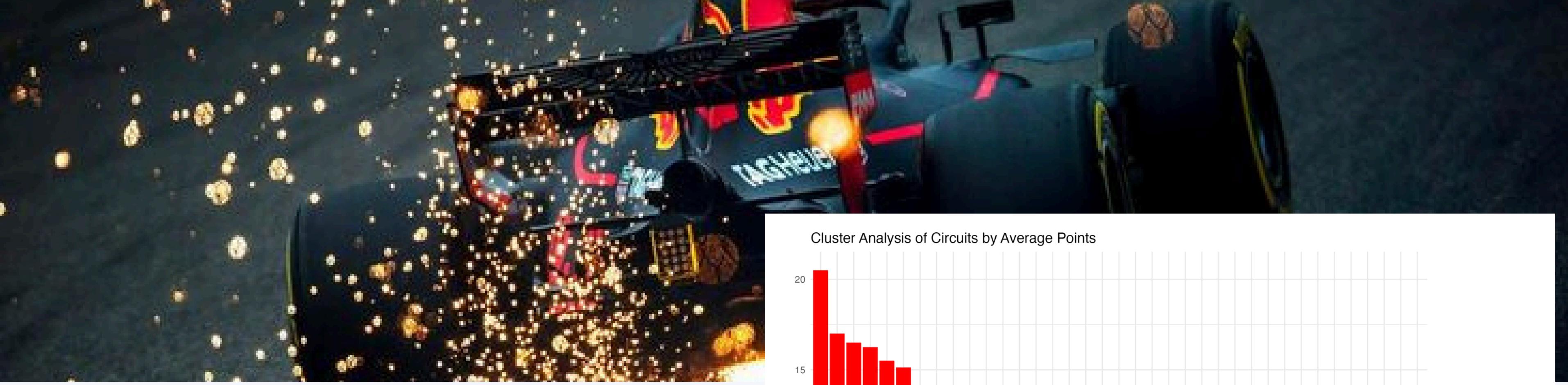




This bar chart provides an analysis of the reliability issues encountered by Red Bull Racing compared to the constructors with the maximum and minimum reliability issues in various categories such as accidents, brakes, engine, and gearbox problem

This bar chart evaluates the performance rate of the top teams by measuring wins per lap completed. This metric provides an efficiency ratio that highlights not just the number of victories, but how effectively each team converts laps into wins

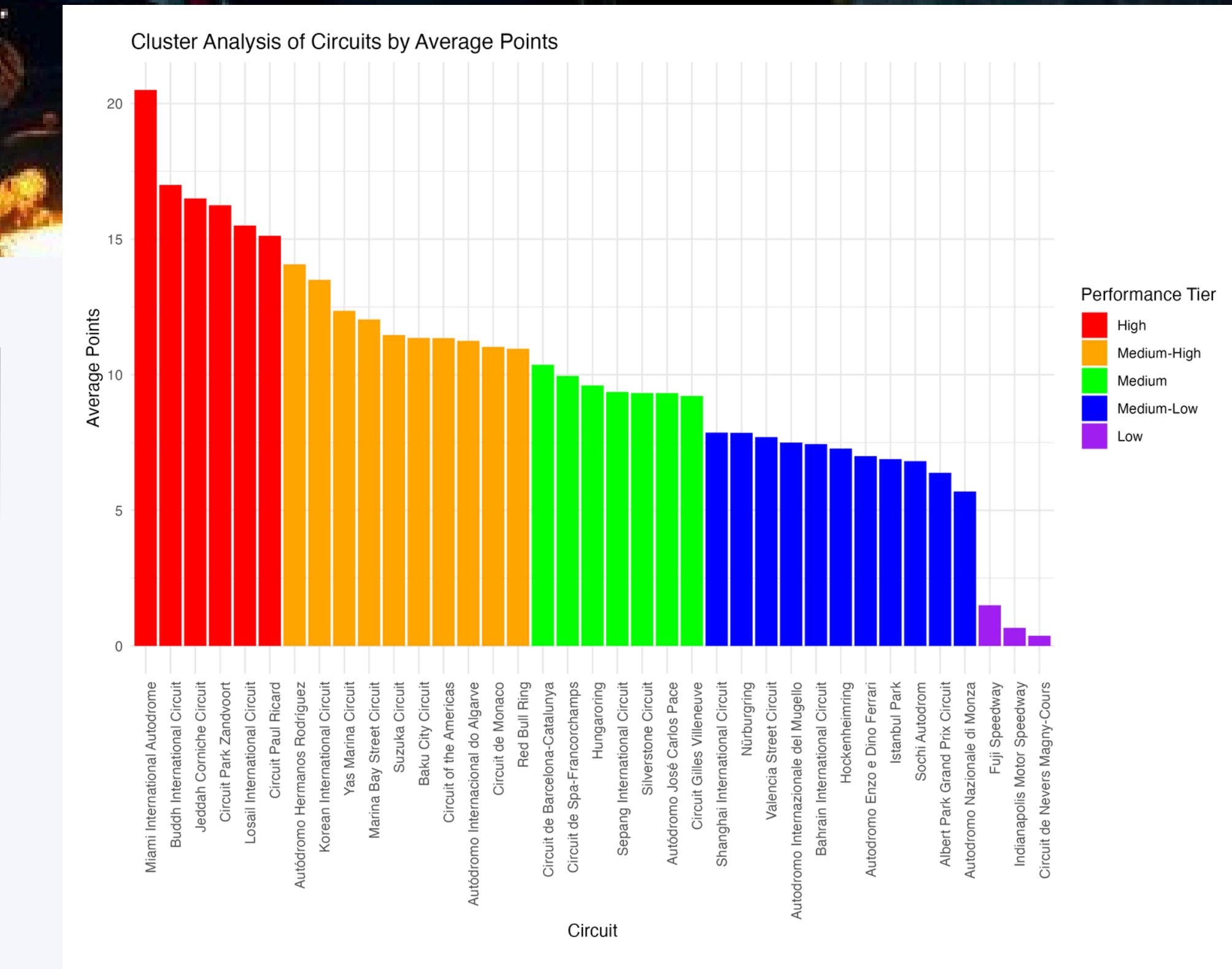




This bar chart employs the K-means clustering algorithm

Data points are grouped by minimizing the sum of distances between each data point and the centroid of the cluster to which it belongs

This plot categorizes Formula 1 circuits based on the average points scored by our drivers in races, illustrating the effectiveness of our team's performance across different tracks





Conclusions

Sara

Enrique

Mauricio