

5.7 Volume to Capacity Ratios (V/C) for the Do-Minimum Networks

Figure 5-22 to Figure 5-27 present the volume to capacity ratio (V/C) for the AM and PM peak hours in all modelled years. The V/C values of greater than 100% are highlighted in red and those below 100% are in green. The V/C ratio of above 100% are in most cases observed on approaches to junctions and are consistent with the delay plots shown in Section 5.6.

The M55 J1 Westbound approach, junctions on A6 and within Preston urban area are locations expected to operate above the theoretical capacities, particularly in PM peak of 2037 and 2042.



Figure 5-22: Volume to Capacity Ratio – 2022 Do Minimum AM



Figure 5-23: Volume to Capacity Ratio – 2022 Do Minimum PM

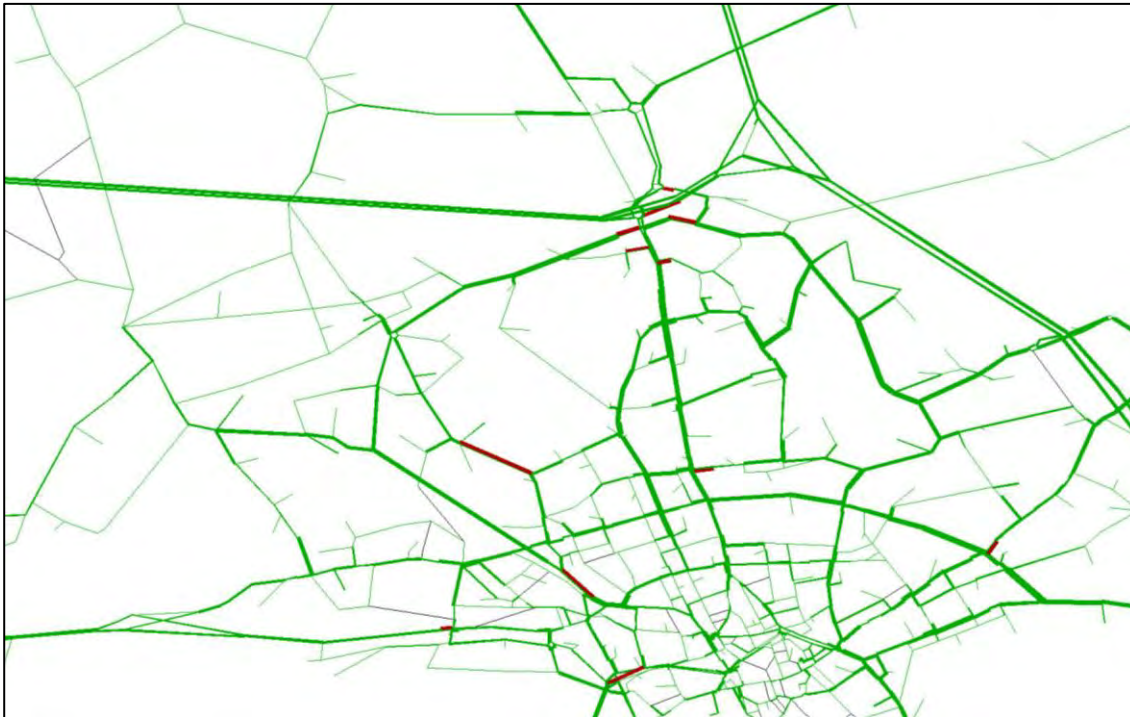


Figure 5-24: Volume to Capacity Ratio – 2037 Do Minimum AM

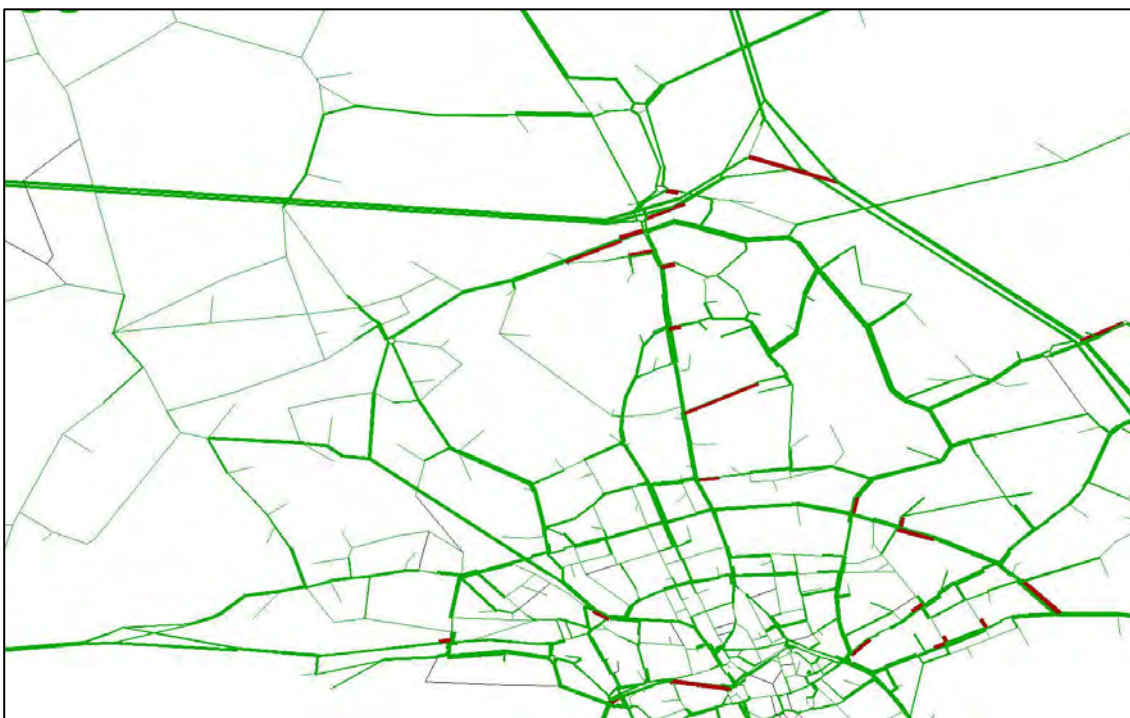


Figure 5-25: Volume to Capacity Ratio – 2037 Do Minimum PM

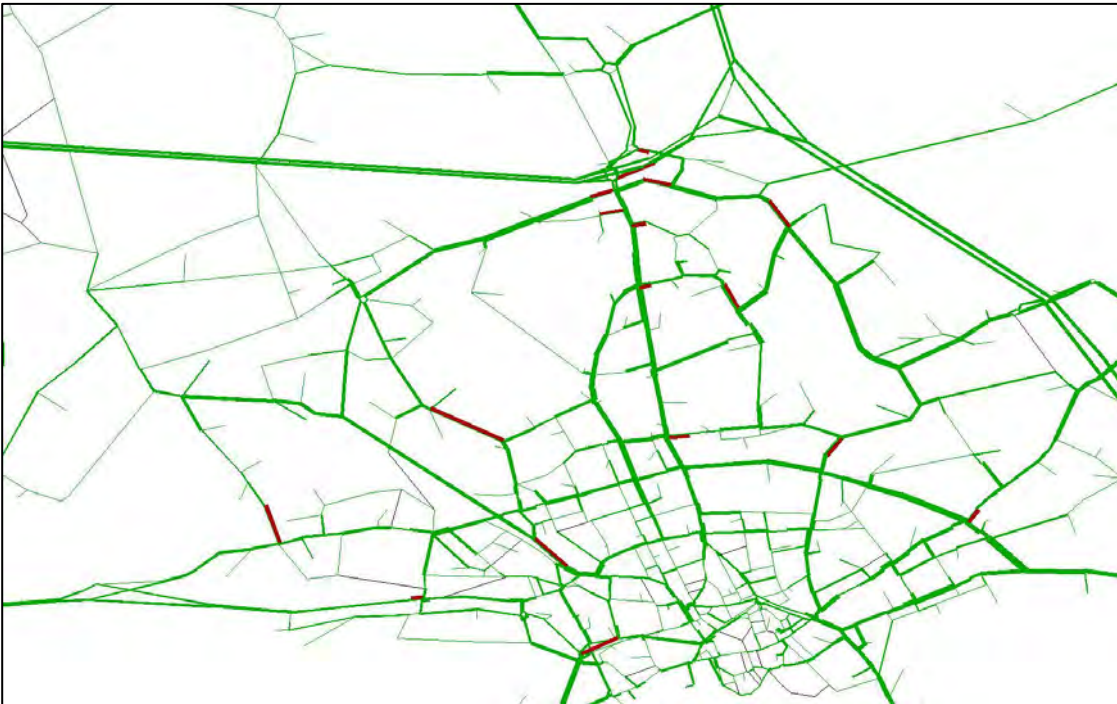


Figure 5-26: Volume to Capacity Ratio – 2042 Do Minimum AM

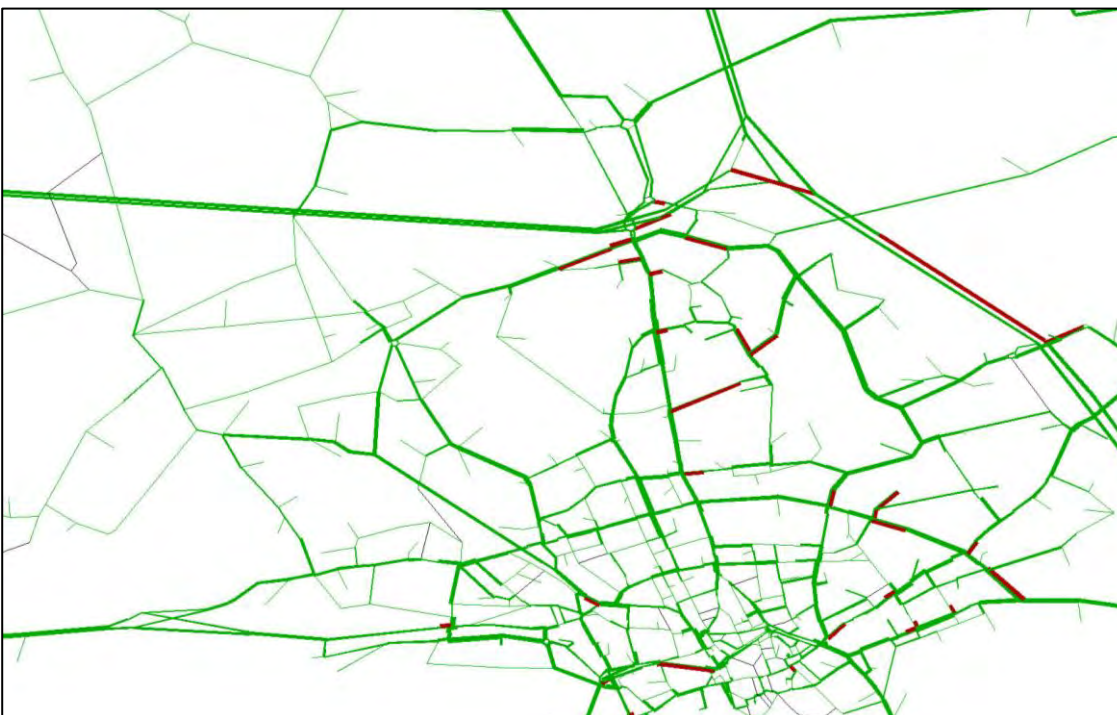


Figure 5-27: Volume to Capacity Ratio – 2042 Do Minimum PM

5.8 Flow Changes Due to the Scheme

The flow changes on the key roads that occur due to the presence of the PWD scheme are presented in Appendix E.

The Figures 5-28 to Figure 5-36 below show the increases and decreases in traffic flow of over 50 PCUs across the simulation network. The changes in flow are only shown on the links which are consistent between the Do Minimum and Do Something scenarios and therefore flow differences on the PWD itself and on the M55 and A583 near the scheme are not shown.

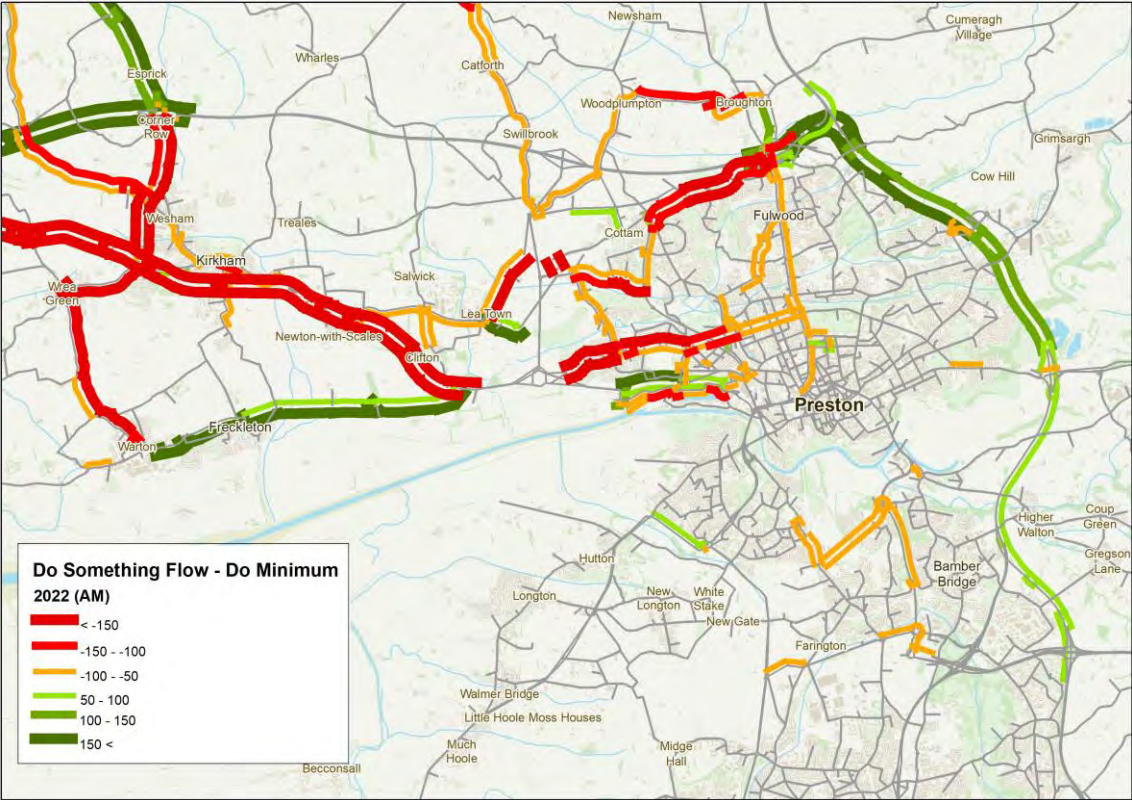


Figure 5-28: Traffic Flow Change Do Something vs Do Minimum (2022 AM)

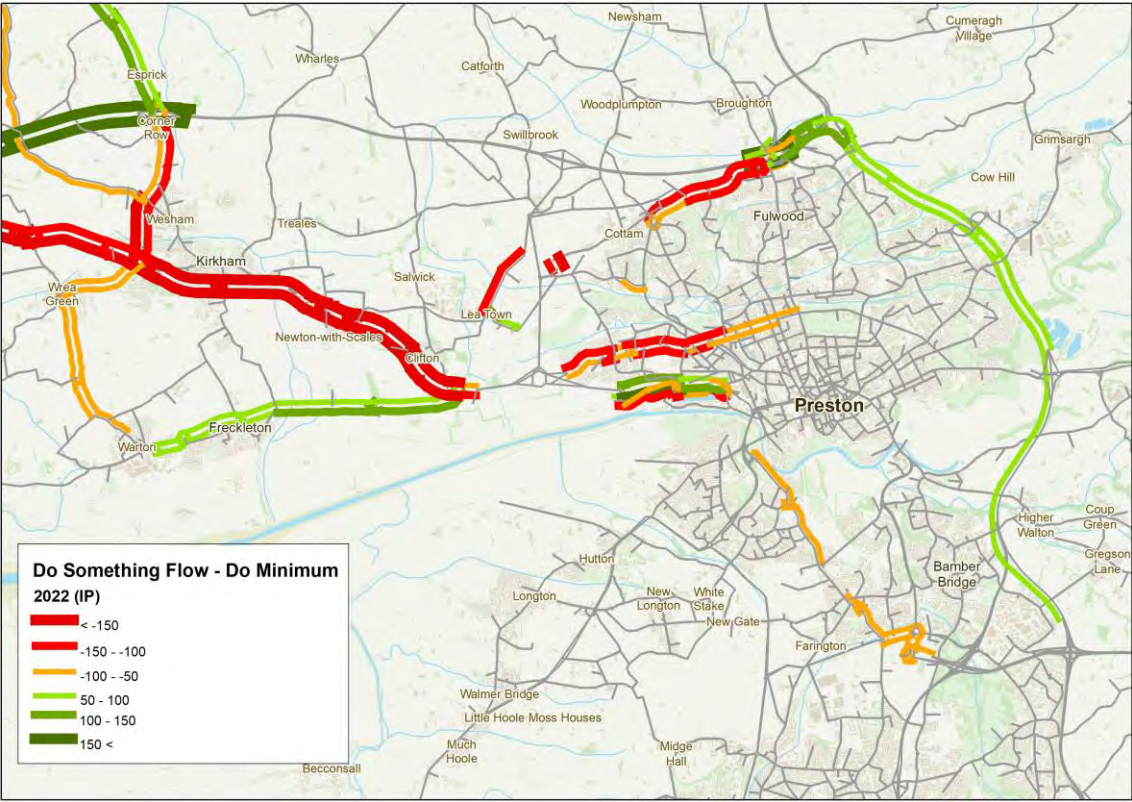


Figure 5-29: Traffic Flow Change Do Something vs Do Minimum (2022 IP)

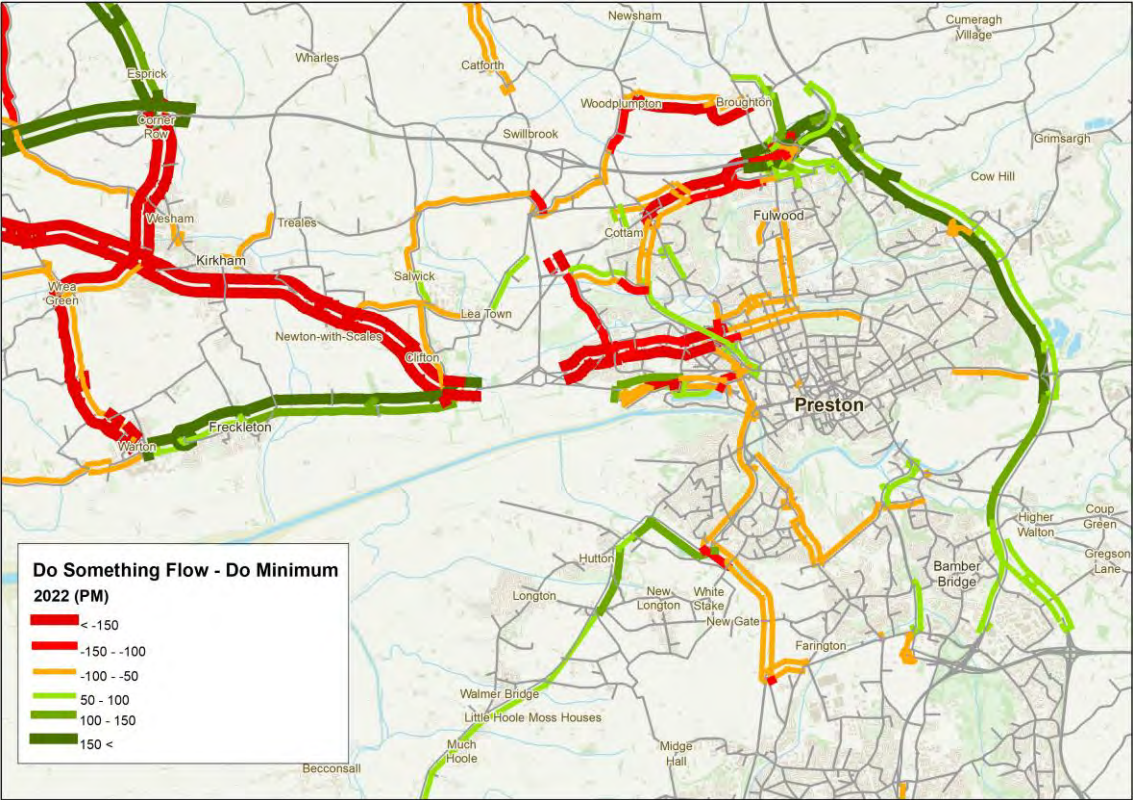


Figure 5-30: Traffic Flow Change Do Something vs Do Minimum (2022 PM)

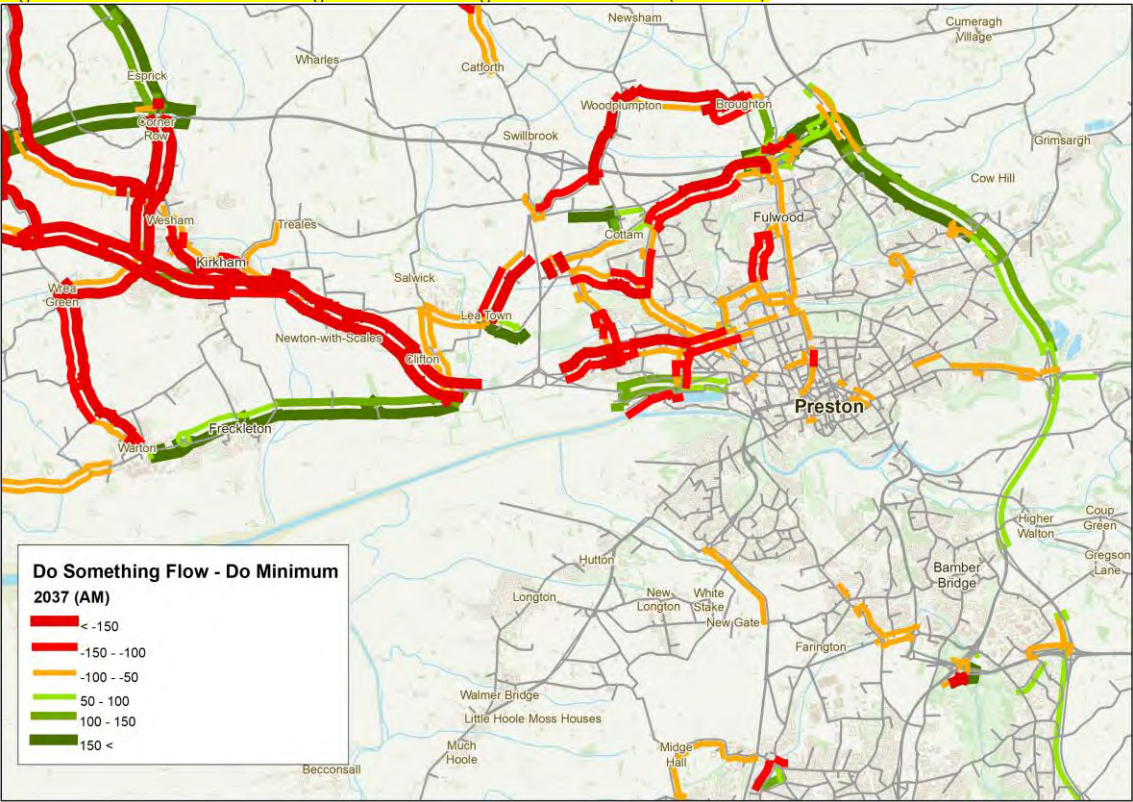


Figure 5-31: Traffic Flow Change Do Something vs Do Minimum (2037 AM)

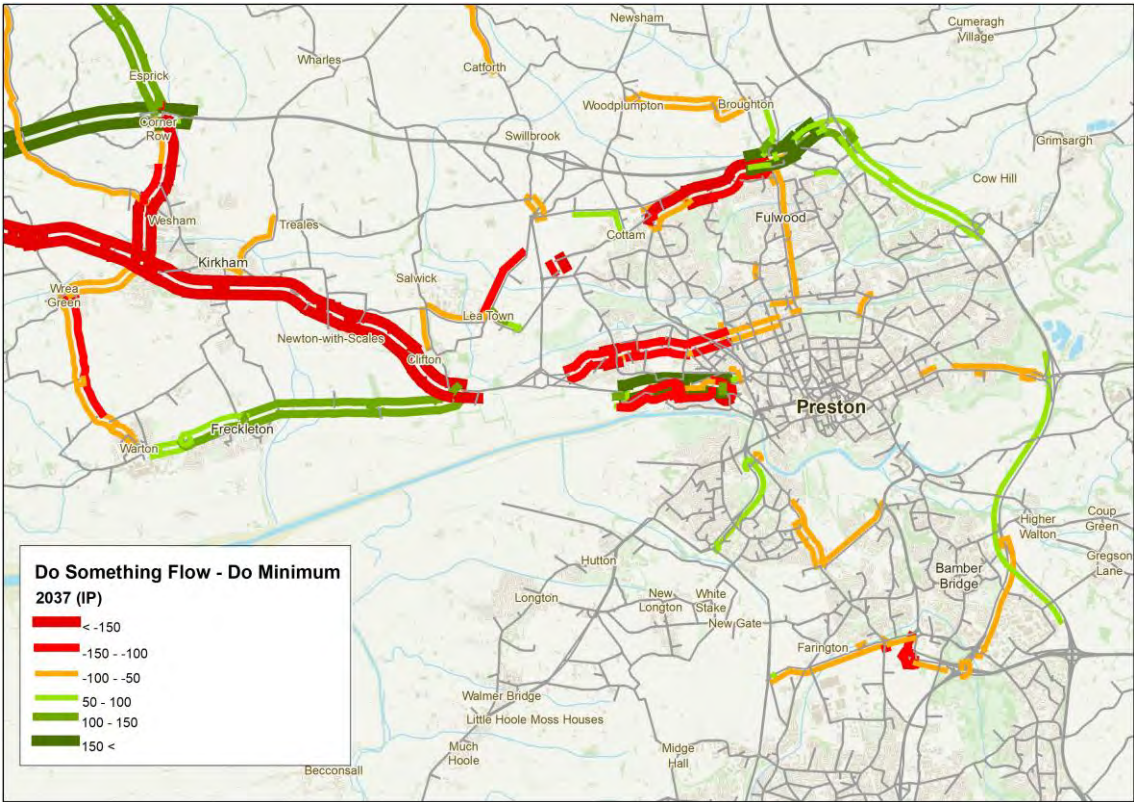


Figure 5-32: Traffic Flow Change Do Something vs Do Minimum (2037 IP)

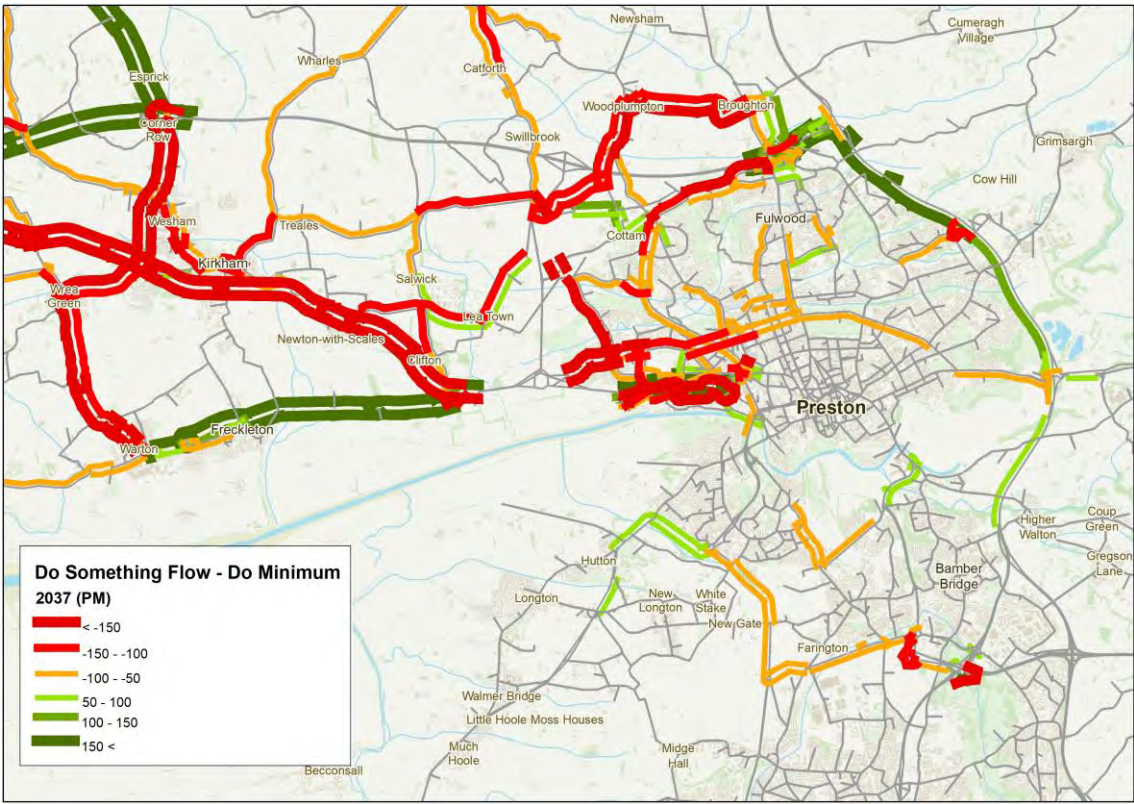


Figure 5-33: Traffic Flow Change Do Something vs Do Minimum (2037 PM)

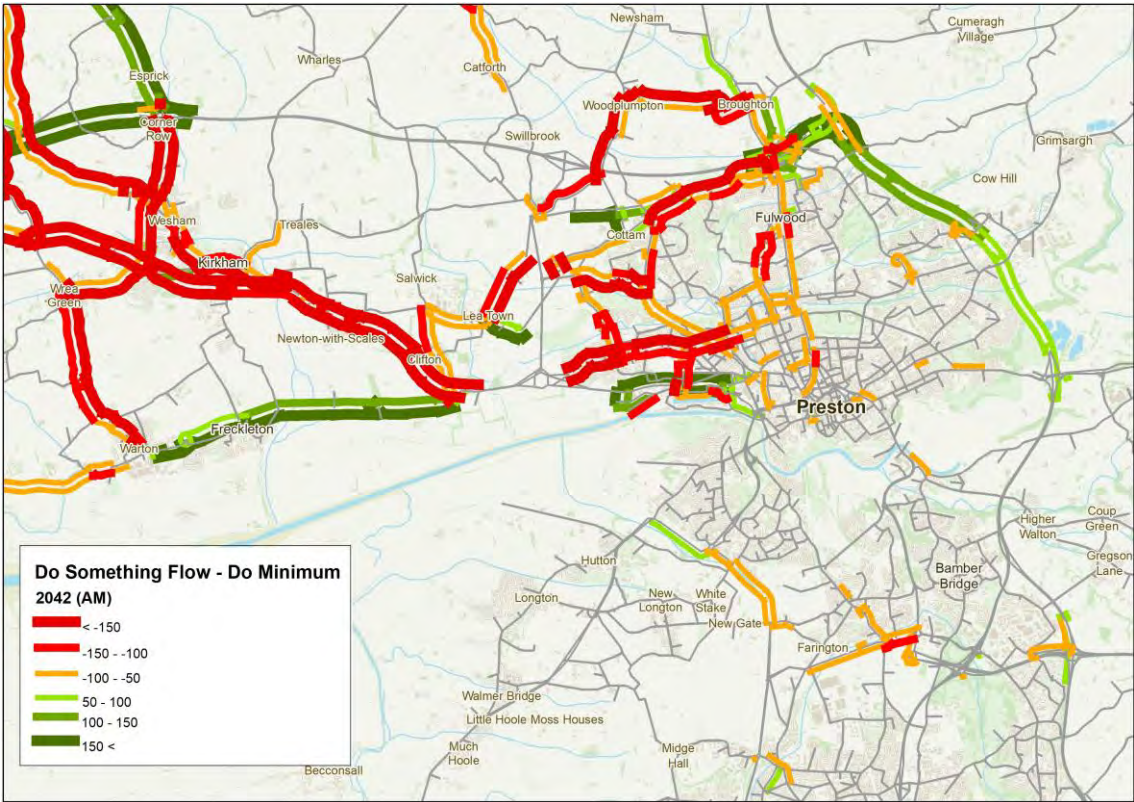


Figure 5-34: Traffic Flow Change Do Something vs Do Minimum (2042 AM)

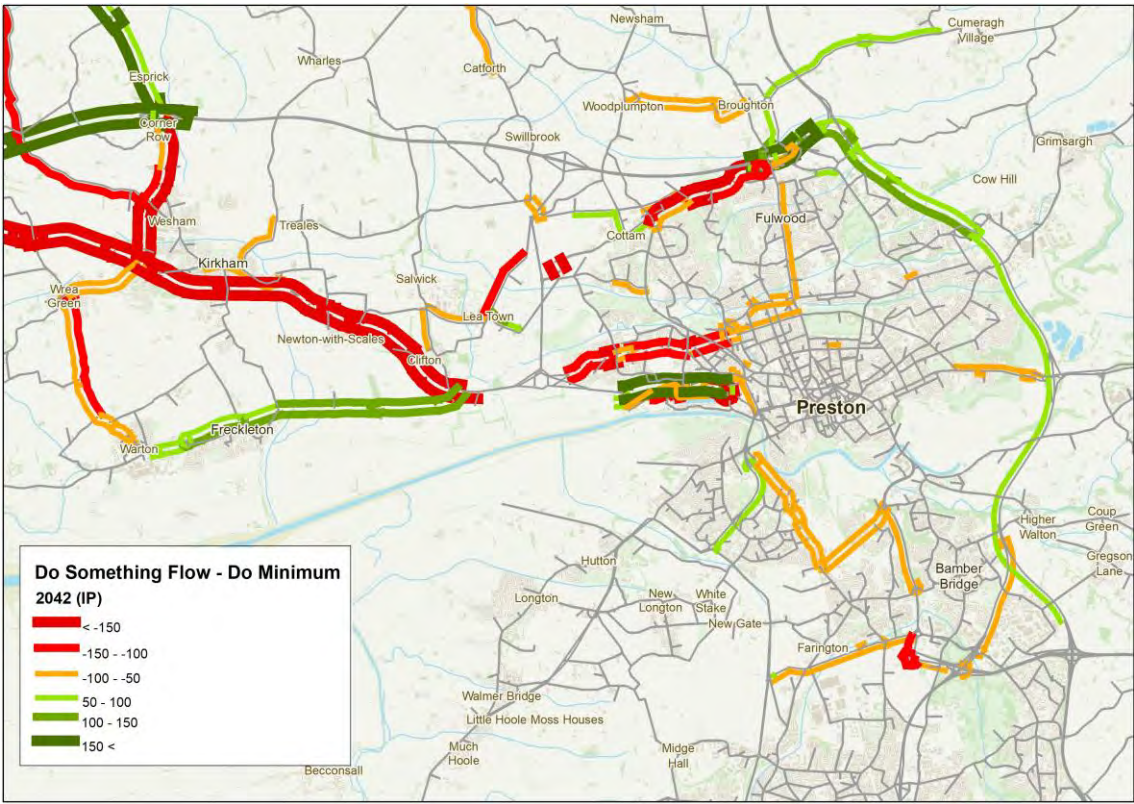


Figure 5-35: Traffic Flow Change Do Something vs Do Minimum (2042 IP)