# **EREWASH LOCAL PLAN ASSESSMENT**

FIGURES DOCUMENT V4.1





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### FIGURES DOCUMENT V4.1

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	Checked by	Helen O'Mara	Associate Director	07/02/2023	the client

Erewash Local Plan Assessment	
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# **INTRODUCTION**

Figure 1. EMGM Model Extent

Figure 2. Erewash Local Plan Area of Influence



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Land

Trailore

District

Land

La

East Midlands Gateway - Model Area

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Figure 1. EMGM Area



Model Boundary

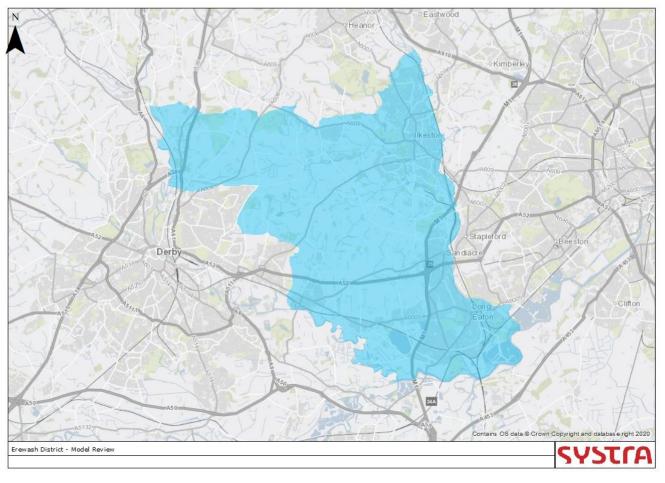


Figure 2. Erewash Borough Boundary



## REFERENCE CASE DEVELOPMENT

Figure 3. 2037 Reference Total Congestion AM

Figure 4. 2037 Reference Total Congestion PM



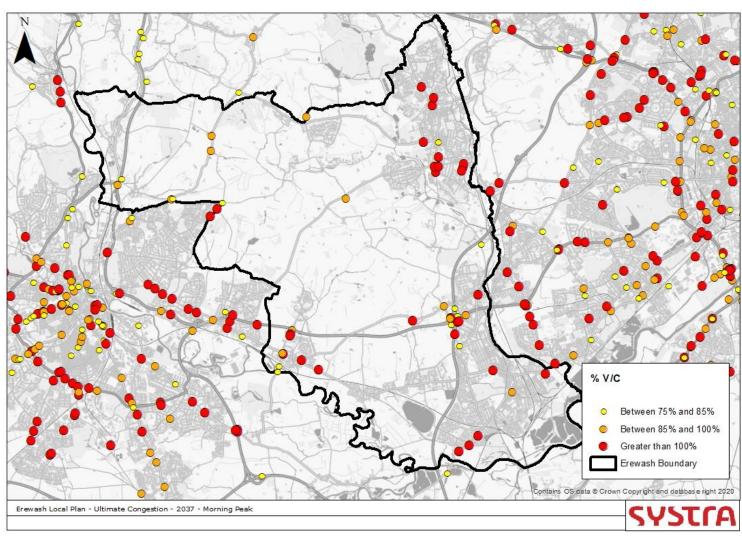


Figure 3. 2037 Reference Case Total Congestion AM



% V/C Between 75% and 85% Between 85% and 100% Greater than 100% Erewash Boundary

Erewash Local Plan - Ultimate Congestion - 2037 - Evening Peak

Figure 4. 2037 Reference Case Total Congestion PM



# **EREWASH LOCAL PLAN DEVELOPMENT PLOTS**

0	Figure 5.	Erewash Local Plan Developments
0	Figure 6.	Trip Distribution 2037 AM
0	Figure 7.	Trip Distribution 2037 PM
0	Figure 8.	Reassignment Impact 2037 AM
0	Figure 9.	Reassignment Impact 2037 PM
0	Figure 10.	Flow Change 2037 AM
0	Figure 11.	Flow Change 2037 PM
0	Figure 12.	Change in Already Congested Junctions 2037 AM
0	Figure 13.	Change in Already Congested Junctions 2037 PM
0	Figure 14.	Change in Junctions Pushed over 85% V/C 2037 AM
0	Figure 15.	Change in Junctions Pushed over 85% V/C 2037 PM
0	Figure 16.	Total Congested Junctions 2037 AM
0	Figure 17.	Total Congested Junctions 2037 PM



Figure 5. **Erewash Local Plan Developments** 

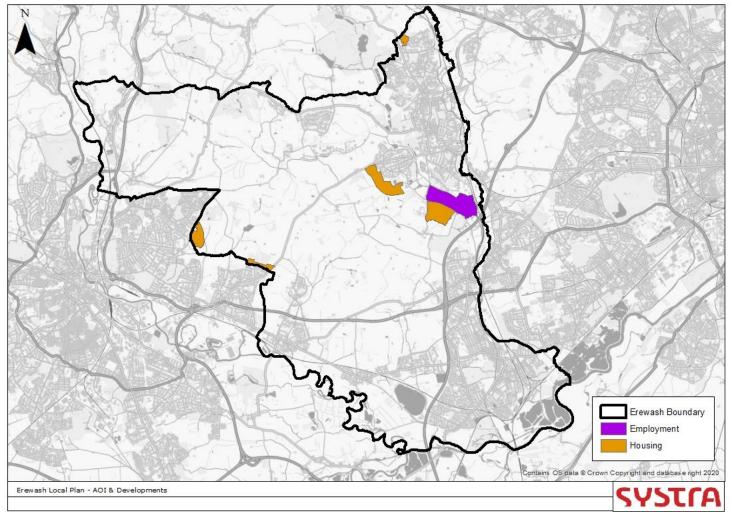




Figure 6. Trip Distribution 2037 AM

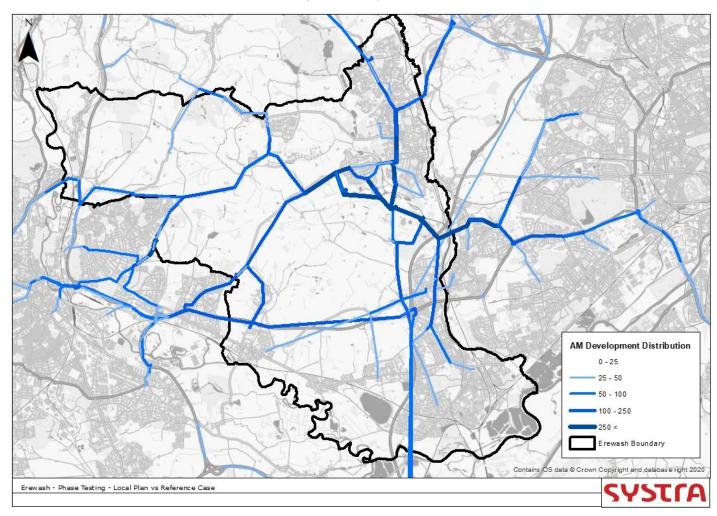




Figure 7. Trip Distribution 2037 PM

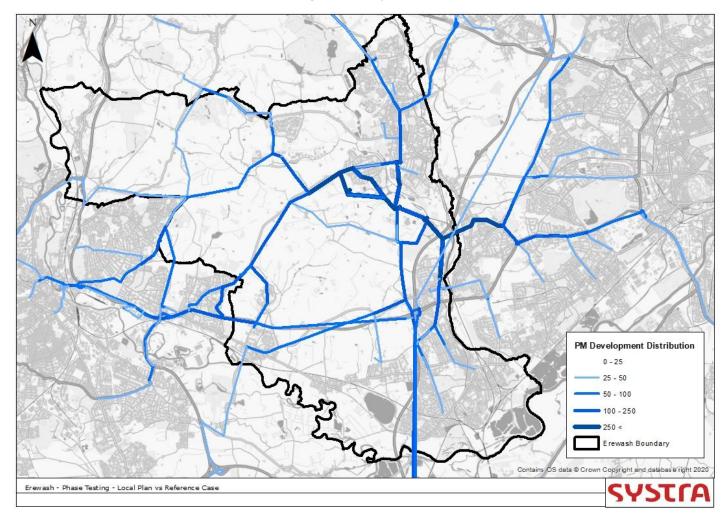




Figure 8. Reassignment Impact 2037 AM

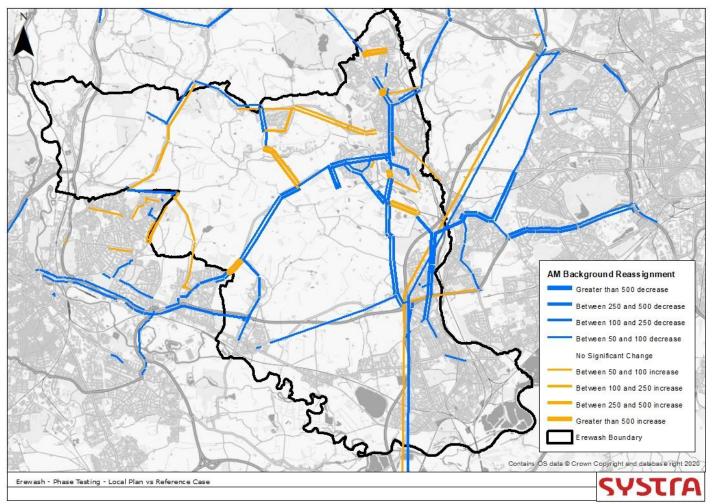




Figure 9. Reassignment Impact 2037 PM

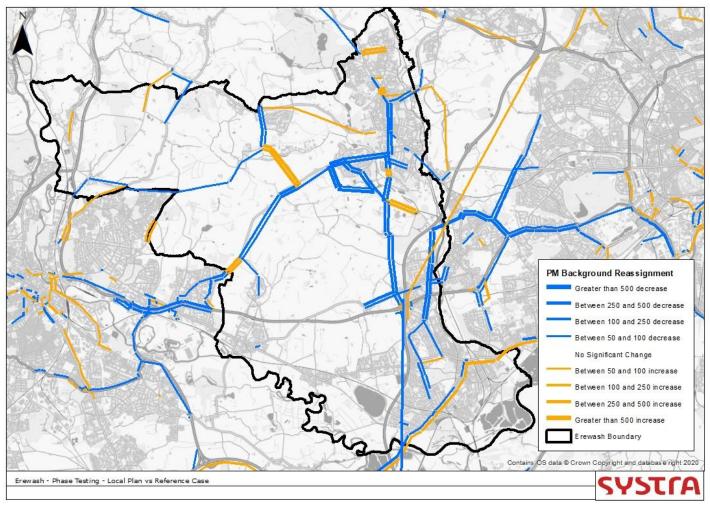




Figure 10. Flow Change 2037 AM

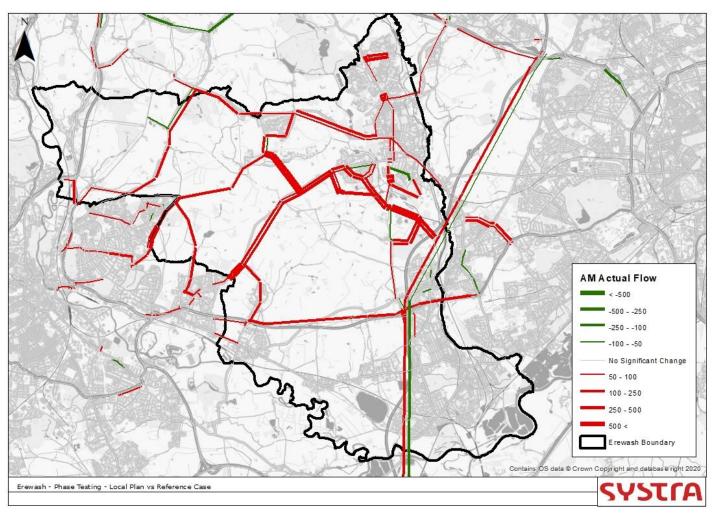
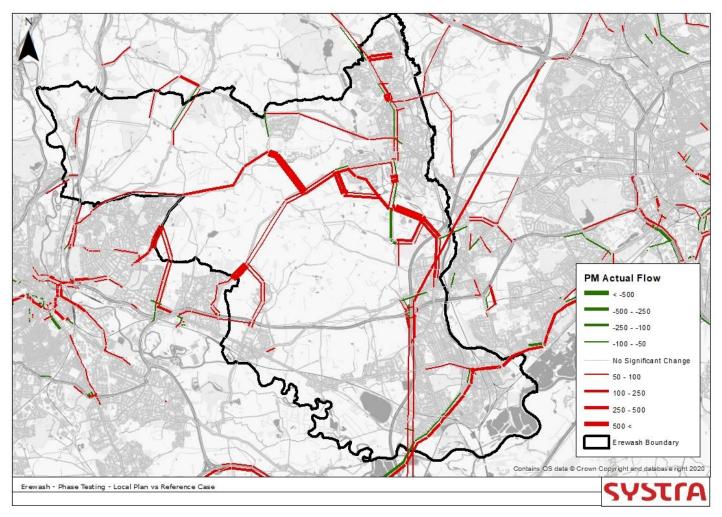




Figure 11. Flow Change 2037 PM





AM Already V/C% Change < -15% -15% - -10% · -10% - -5% No Significant Change **5**% - 10% 10% - 15% Erewash Boundary Contains OS data @ Crown Copyright and database right 2020 Erewash - Phase Testing - Local Plan vs Reference Case

Figure 12. Change in Already Congested Junctions 2037 AM



PM Already V/C% Change < -15% -15% - -10% · -10% - -5% No Significant Change **5**% - 10% 10% - 15% Erewash Boundary Contains OS data @ Crown Copyright and database right 2020 Erewash - Phase Testing - Local Plan vs Reference Case

Figure 13. Change in Already Congested Junctions 2037 PM



AM Pushed V/C% Change -15% - -10% · -10% - -5% No Significant Change 5% - 10% Erewash Boundary Contains OS data @ Crown Copyright and database right 2020 Erewash - Phase Testing - Local Plan vs Reference Case

Figure 14. Change in Junctions Pushed over 85% V/C 2037 AM



PM Pushed V/C% Change < -15% -15% - -10% · -10% - -5% No Significant Change **5**% - 10% Erewash Boundary Contains OS data @ Crown Copyright and database right 2020 Erewash - Phase Testing - Local Plan vs Reference Case

Figure 15. Change in Junctions Pushed over 85% V/C 2037 PM



Figure 16. Total Congested Junctions 2037 AM

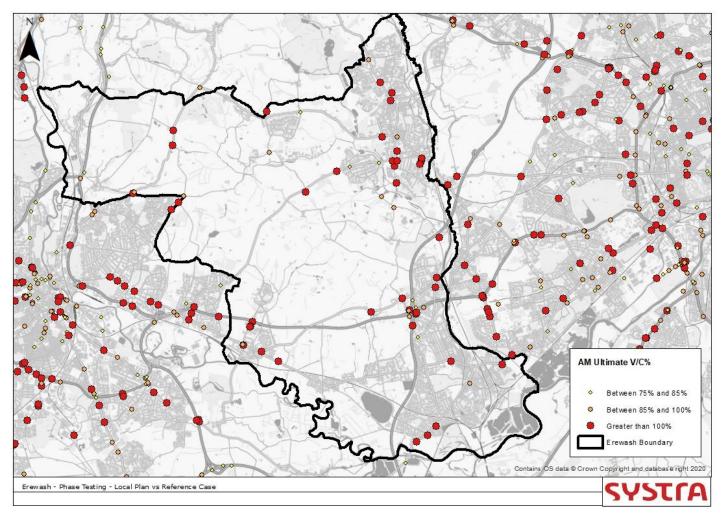
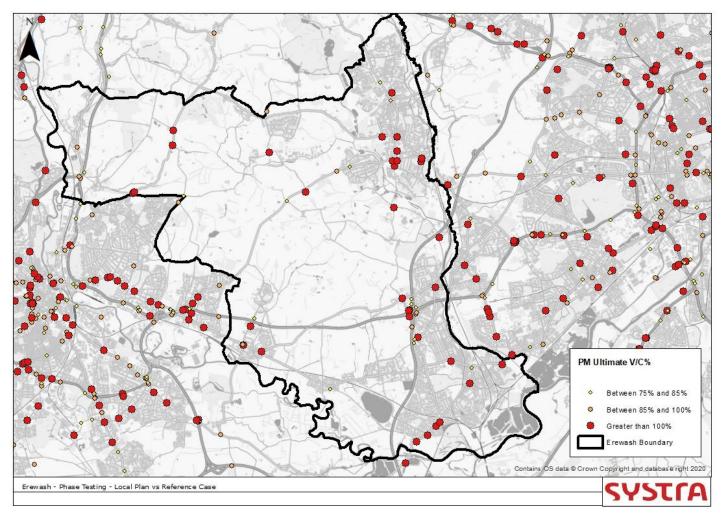




Figure 17. Total Congested Junctions 2037 PM



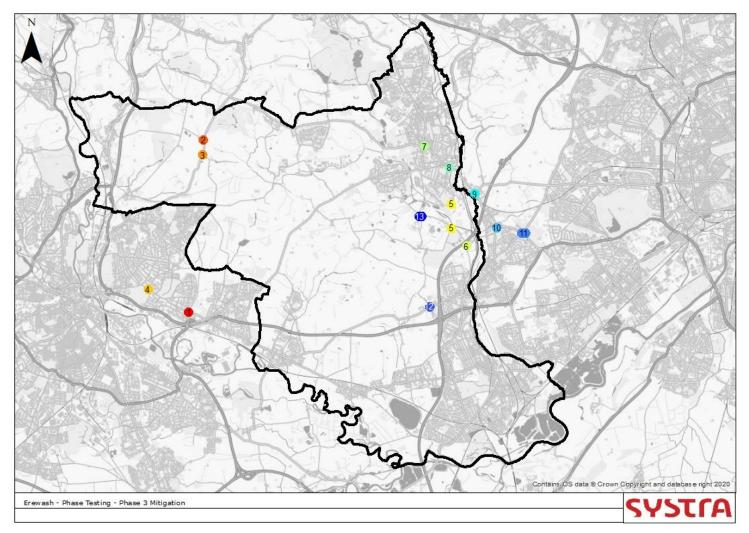


### **MITIGATION PLOTS**

- Figure 18 Phase 3 Mitigation Locations
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- Figure 30 Mitigation Scheme Phase 3 Congestion Change Vs Local Plan Scenario (PM Peak)



Figure 18. Phase 3 Mitigation Sites





AM Actual Flow < -500 -500 - -250 -250 - -100 -100 - -50 No Significant Change 100 - 250 Erewash Boundary Contains OS data @ Crown Copyright and database right 2020 SYSTIA Erewash - Phase Testing - Phase 1 vs Local Plan

Figure 19. Mitigation Scheme Phase 1 Flow Change vs Local Plan Scenario (AM Peak)



PM Actual Flow -500 - -250 -100 - -50 No Significant Change 50 - 100 100 - 250

Figure 20. Mitigation Scheme Phase 1 Flow Change Vs Local Plan Scenario (PM Peak)



AM V/C% Change -10% - -5% No Significant Change 5% - 10% 10% - 15% 15% < Erewash Boundary

Figure 21. Mitigation Scheme Phase 1 Congestion Change Vs Local Plan Scenario (AM Peak)



PM V/C% Change < -15% -15% - -10% · -10% - -5% No Significant Change 10% - 15% Erewash Boundary Erewash - Phase Testing - Phase 1 vs Local Plan

Figure 22. Mitigation Scheme Phase 1 Congestion Change Vs Local Plan Scenario (PM Peak)



**AM Actual Flow** < -500 -500 - -250 -250 - -100 -100 - -50 No Significant Change 50 - 100 100 - 250 Erewash Boundary Erewash - Phase Testing - Phase 2 vs Local Plan

Figure 23. Mitigation Phase 2 Flow Change vs Local Plan Scenario (AM Peak)



PM Actual Flow -500 - -250 -250 - -100 -100 - -50 No Significant Change 50 - 100 100 - 250

Figure 24. Mitigation Phase 2 Flow Change vs Local Plan Scenario (PM Peak)



AM V/C% Change < -15% -15% - -10% -10% - -5% No Significant Change **5**% - 10% 10% - 15% 15% < Erewash Boundary

Figure 25. Mitigation Scheme Phase 2 Congestion Change Vs Local Plan Scenario (AM Peak)



PM V/C% Change < -15% -15% - -10% -10% - -5% No Significant Change **5**% - 10% 10% - 15% 15% <

Figure 26. Mitigation Scheme Phase 2 Congestion Change Vs Local Plan Scenario (PM Peak)



**AM Actual Flow** < -500 -500 - -250 -250 - -100 -100 - -50 No Significant Change 50 - 100 100 - 250 Erewash Boundary

Figure 27. Mitigation Phase 3 Flow Change vs Local Plan Scenario (AM Peak)



PM Actual Flow < -500 -500 - -250 -250 - -100 -100 - -50 No Significant Change 50 - 100 100 - 250 Erewash Boundary

Figure 28. Mitigation Phase 3 Flow Change vs Local Plan Scenario (PM Peak)



Figure 29. Mitigation Scheme Phase 3 Congestion Change Vs Local Plan Scenario (AM Peak)



5% - 10%10% - 15%15% <</li>

PM V/C% Change < -15% -15% - -10% -10% - -5% No Significant Change **5**% - 10% 10% - 15%

Figure 30. Mitigation Scheme Phase 3 Congestion Change Vs Local Plan Scenario (PM Peak)



15% <

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