Derby HMA Local Plan Appraisal **09/01/2026**

Reference number GB01T25E05




STRATEGIC TRANSPORT ASSESSMENT

SYSTRA

DERBY HMA LOCAL PLAN APPRAISAL

STRATEGIC TRANSPORT ASSESSMENT

IDENTIFICATION TABLE	
Client/Project owner	Derby HMA
Project	Derby HMA Local Plan Appraisal
Study	Strategic Transport Assessment
Type of document	Figures Document
Date	09/01/2026
Reference number	GB01T25E05
Number of pages	53

APPROVAL

Version	Name		Position	Date	Modifications
1	Author	Rhian Collier		11/09/2025	
	Checked by	Duncan Irons		11/09/2025	
	Approved by	Duncan Irons		11/09/2025	
2	Author	Rhian Collier		04/12/2025	
	Checked by	Duncan Irons		04/12/2025	
	Approved by	Duncan Irons		04/12/2025	
3	Author	Rhian Collier		09/01/2026	Final Version
	Checked by	Duncan Irons		09/01/2026	
	Approved by	Duncan Irons		09/01/2026	

TABLE OF CONTENTS

LIST OF FIGURES

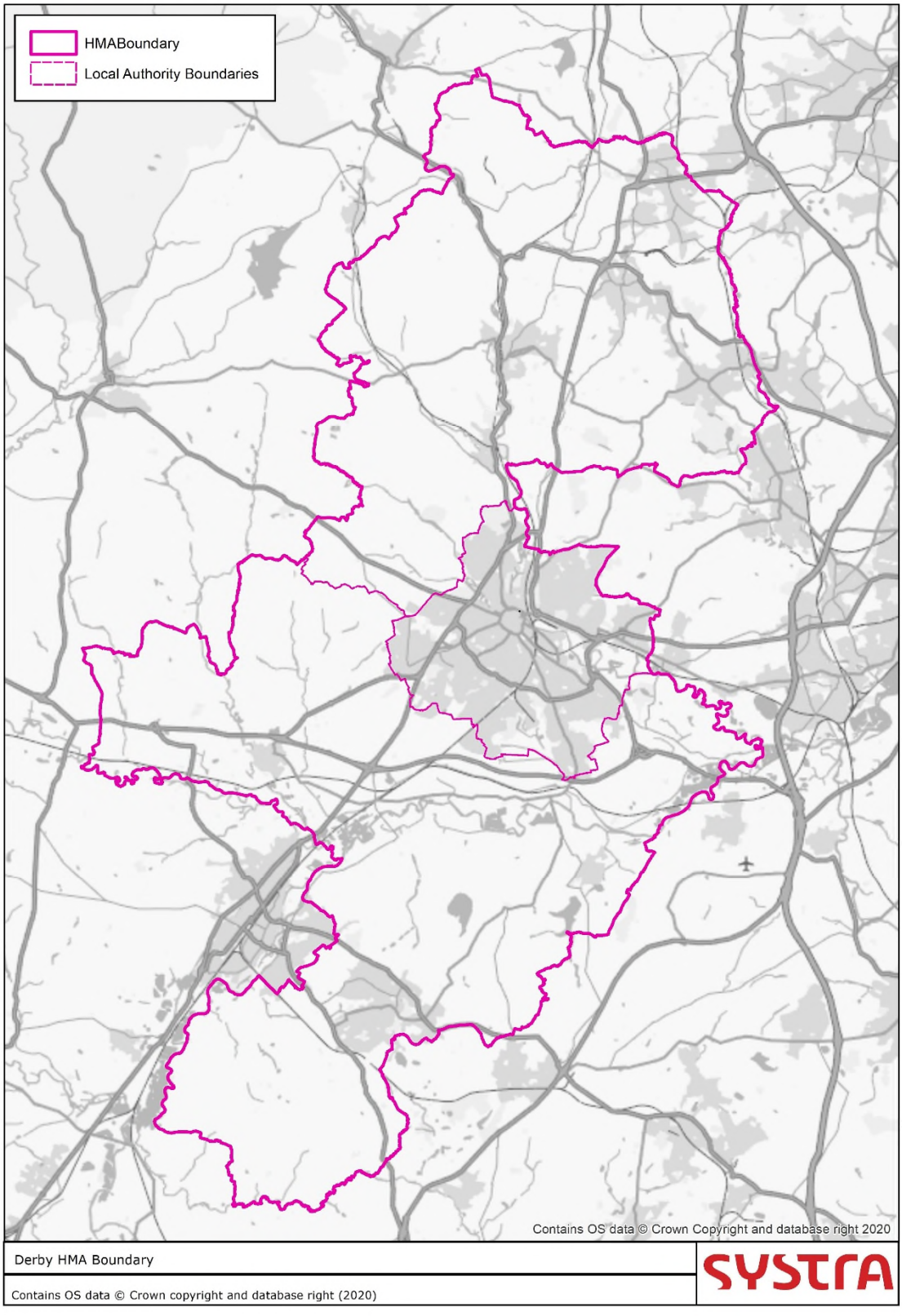
1. INTRODUCTION

No Figures

2. MODELLING METHODOLOGY OVERVIEW

Figure 1. EMGM Simulation Area

Figure 2. Derby HMA Local Plan Area



3. NO HMA DEVELOPMENT (DO MINIMUM)

Figure 3. Development Locations

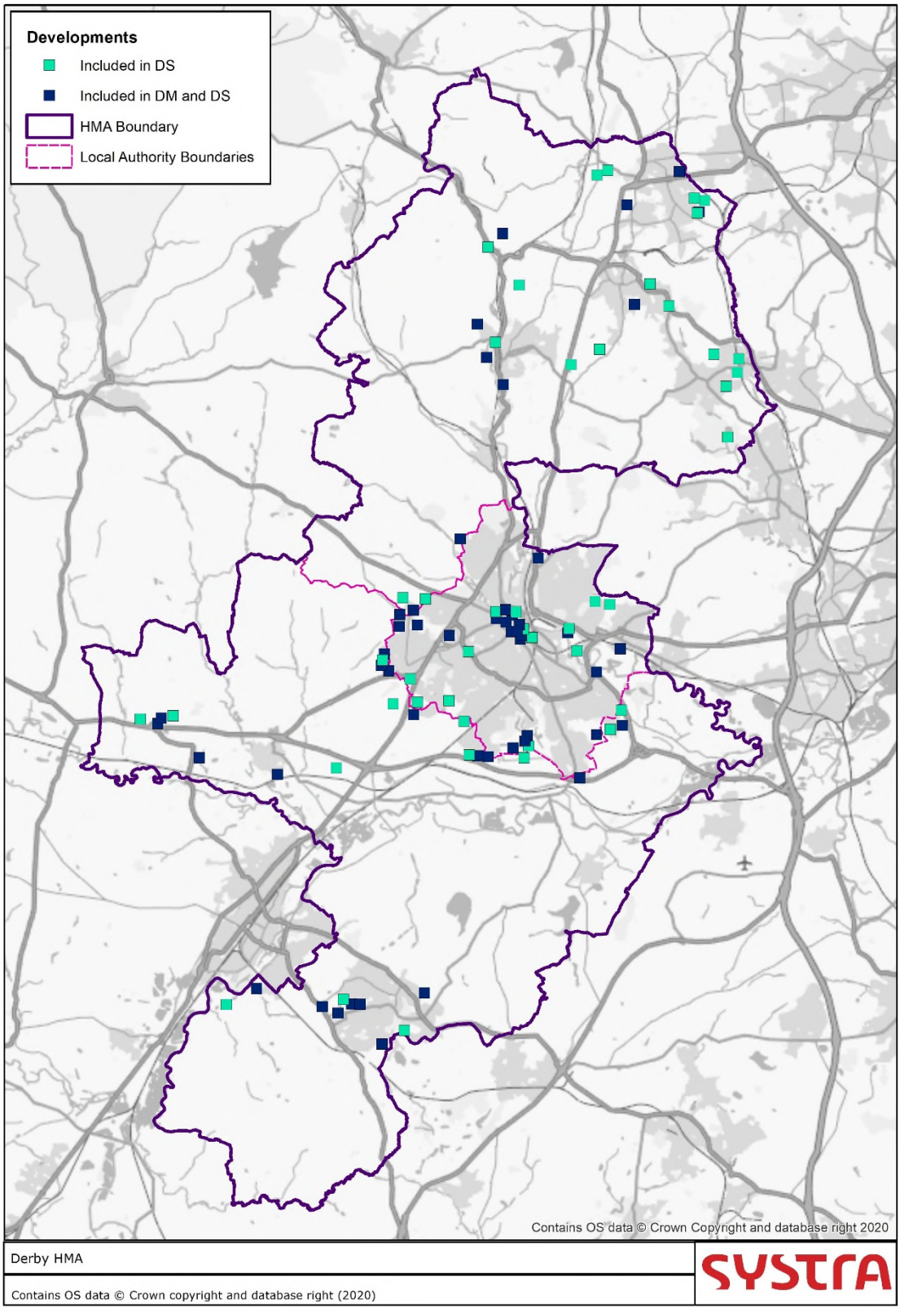


Figure 4. Do Minimum Flows – AM Peak

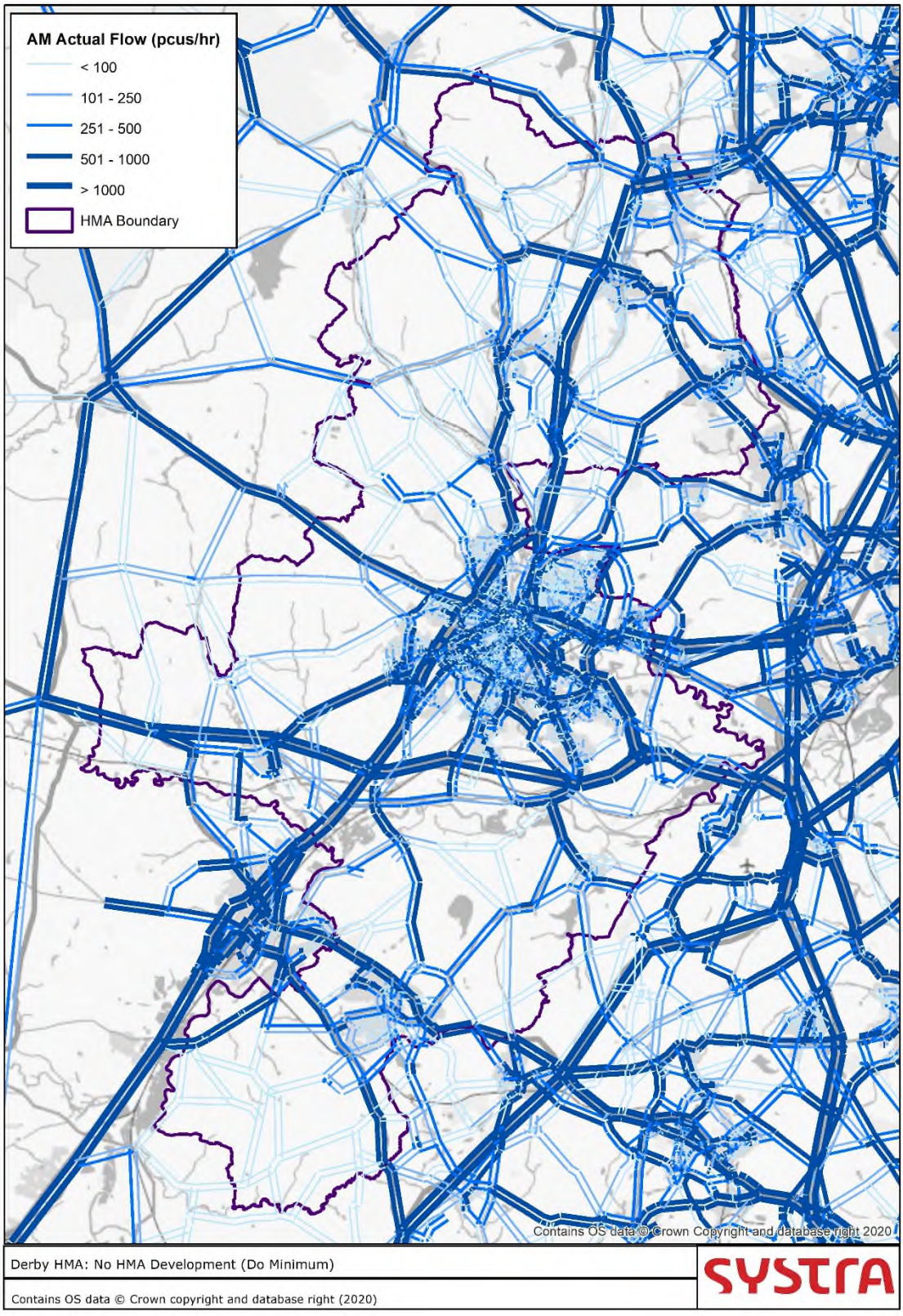


Figure 5. Do Minimum Flows – PM Peak

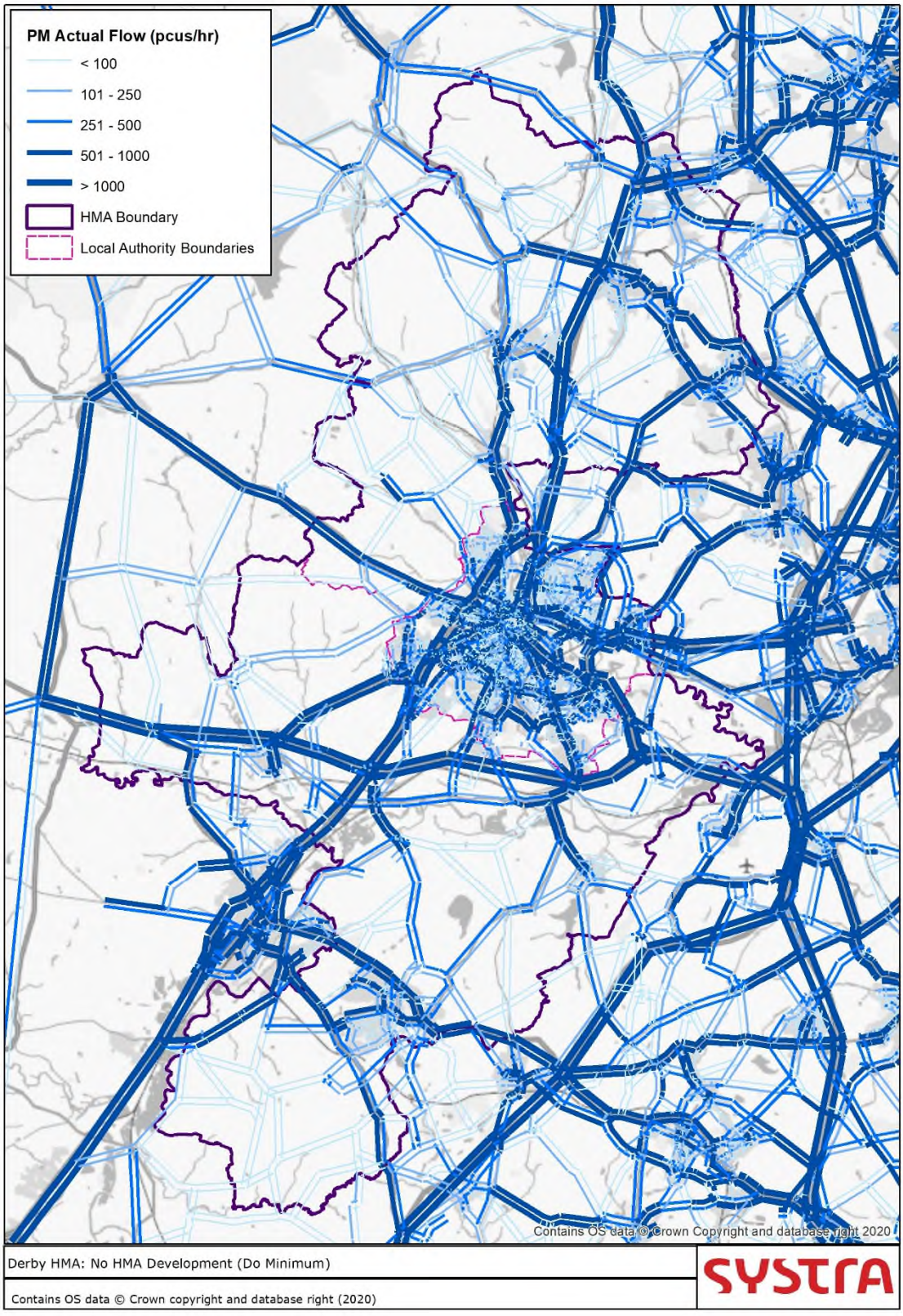


Figure 6. Do Minimum Ultimate Congestion – AM Peak

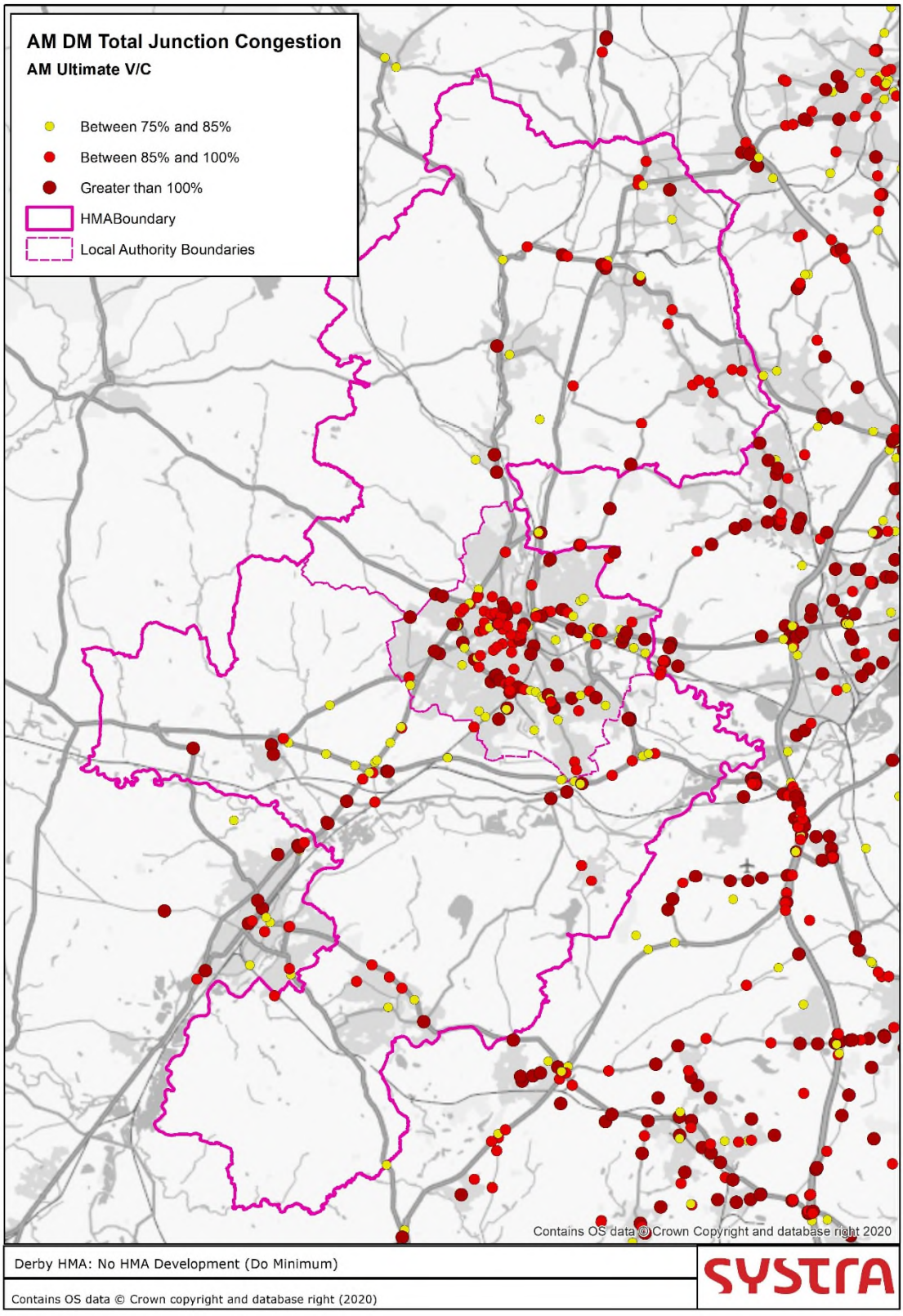
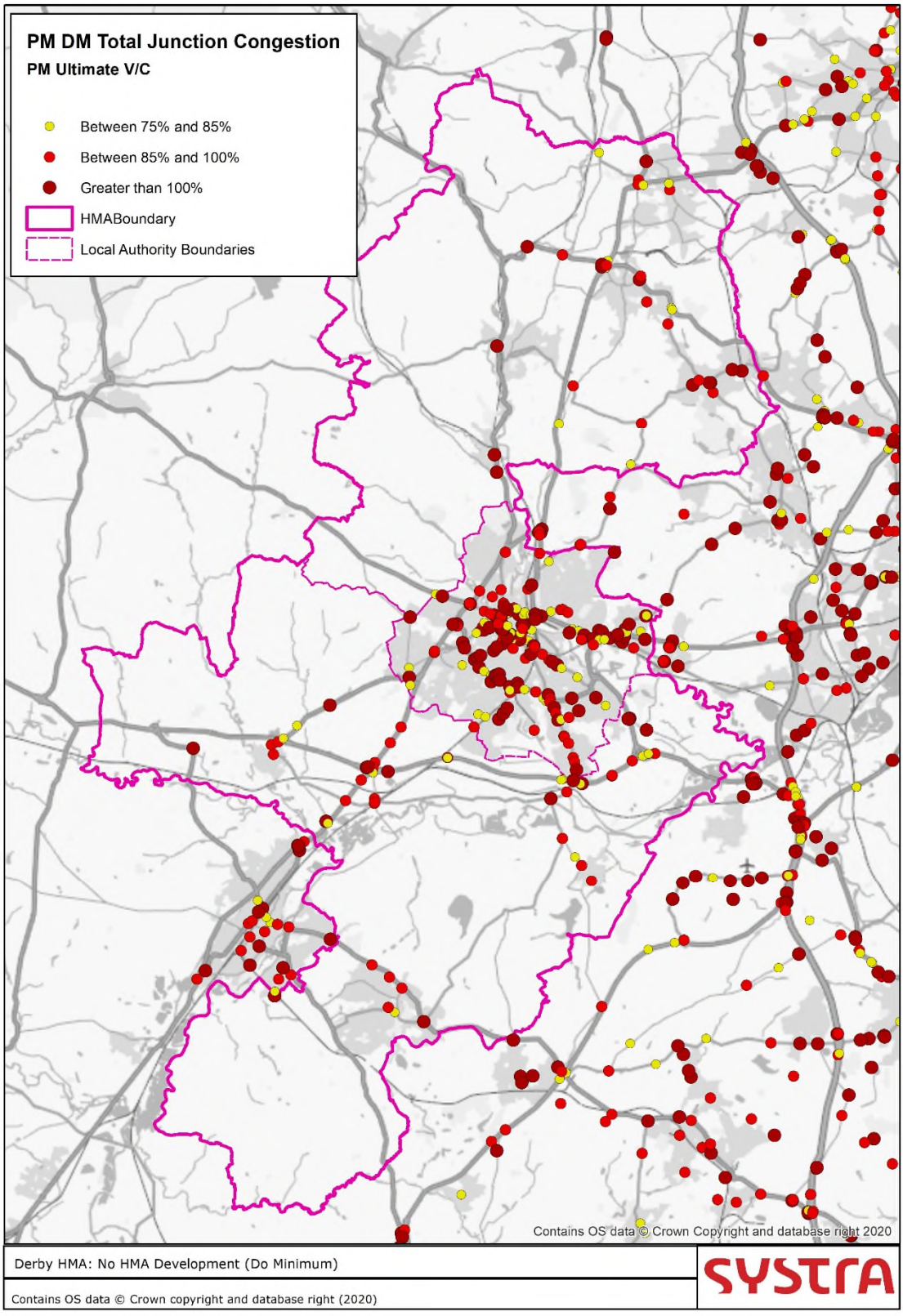


Figure 7. Do Minimum Ultimate Congestion – PM Peak



4. WITH HMA LOCAL PLAN DEVELOPMENT (DO SOMETHING 1)

Figure 8. Do Something 1 Development Distribution – AM Peak

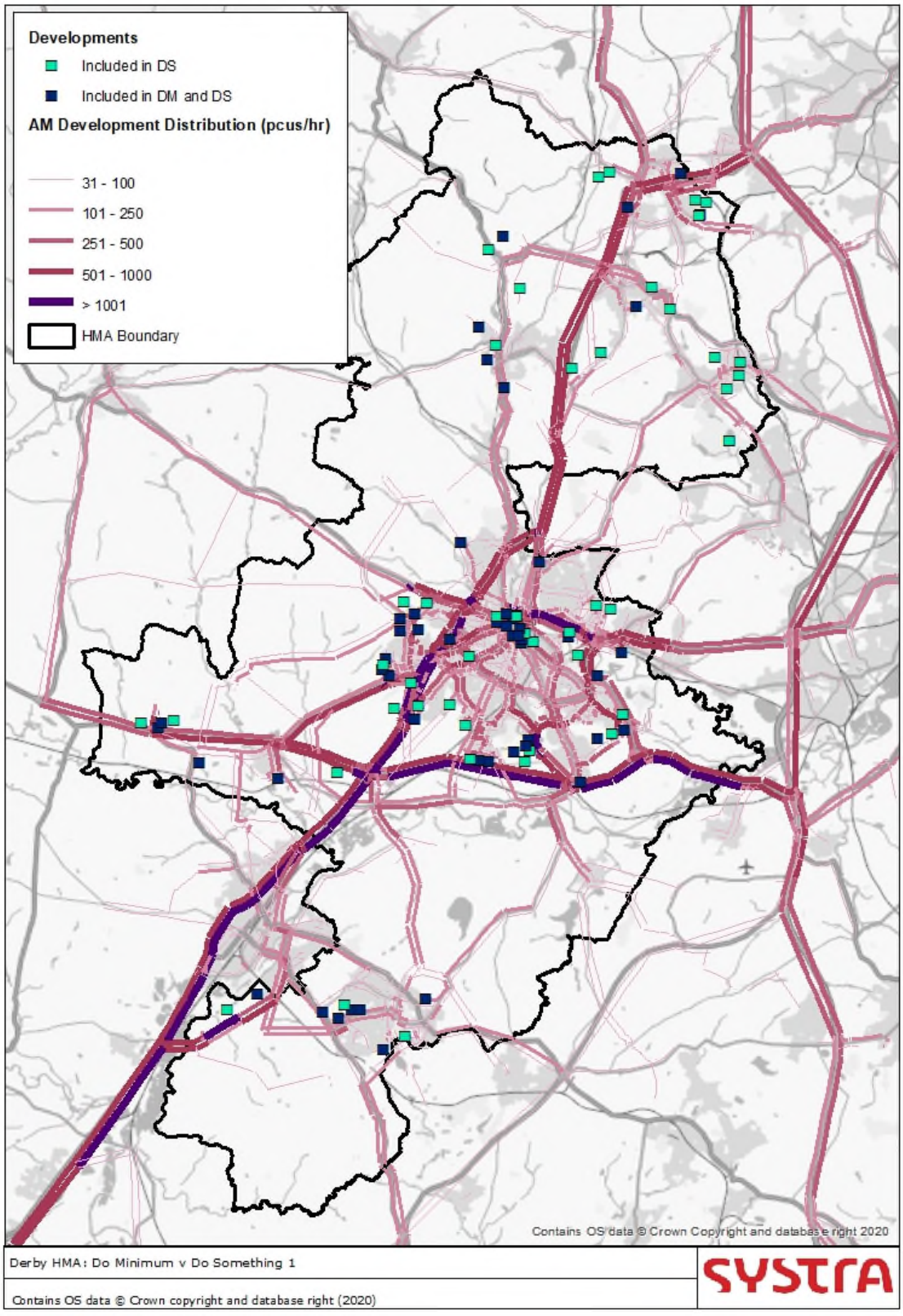


Figure 9. Do Something 1 Development Distributions – PM Peak

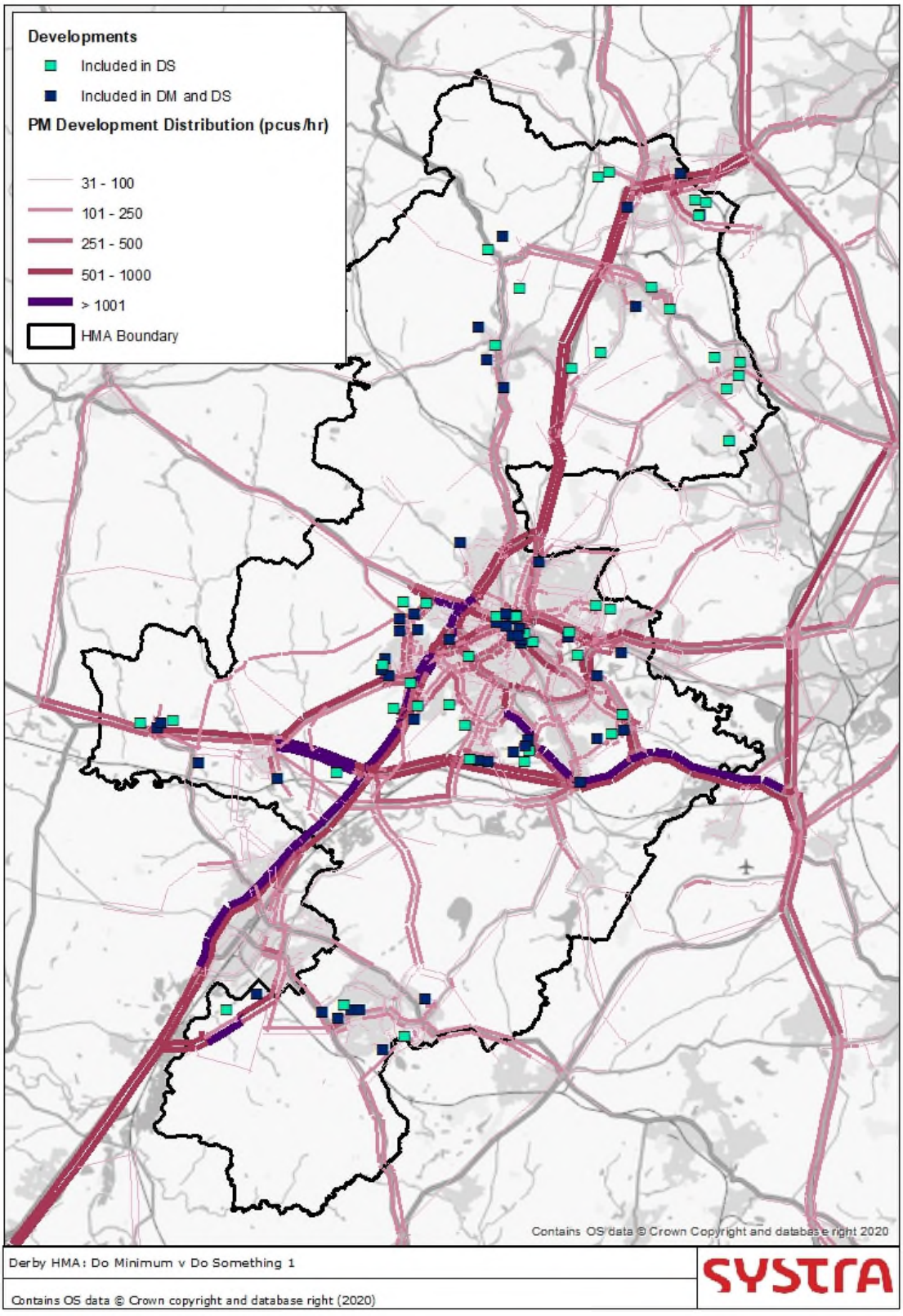


Figure 10. Do Minimum v Do Something 1 Flow Change – AM Peak

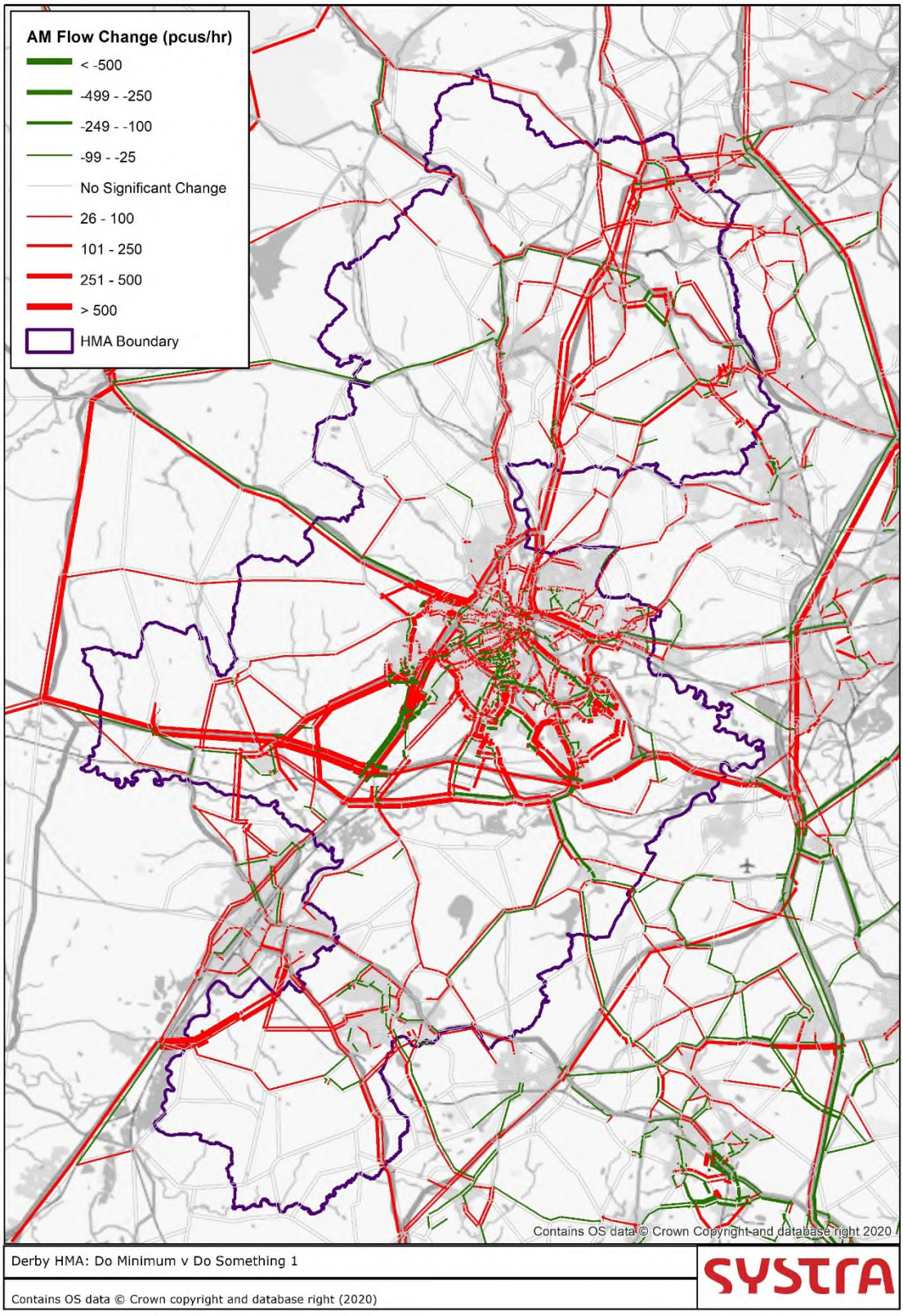


Figure 11. Do Minimum v Do Something 1 Flow Change – PM Peak

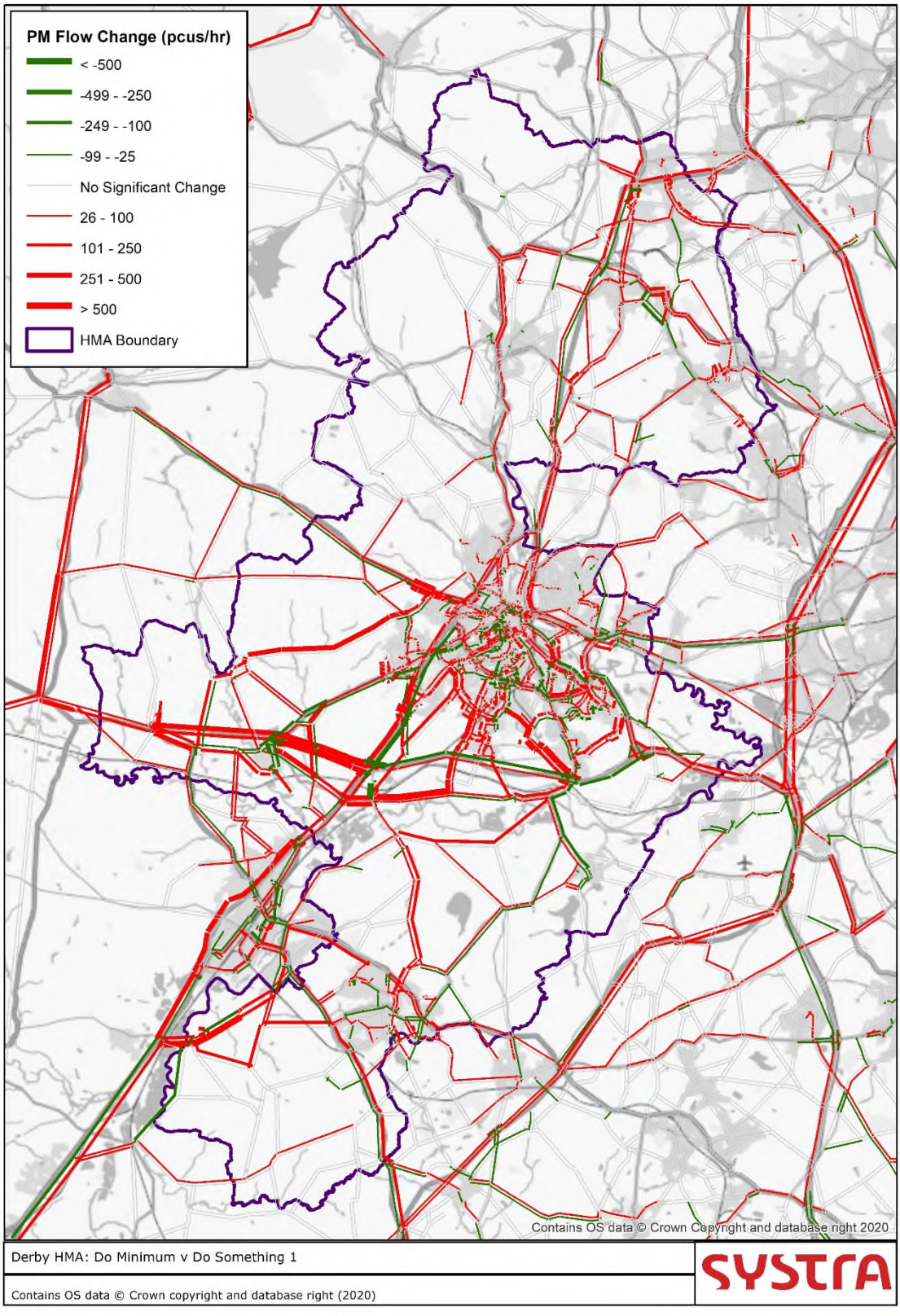


Figure 12. Do Minimum v Do Something 1 Congestion Change – AM Peak

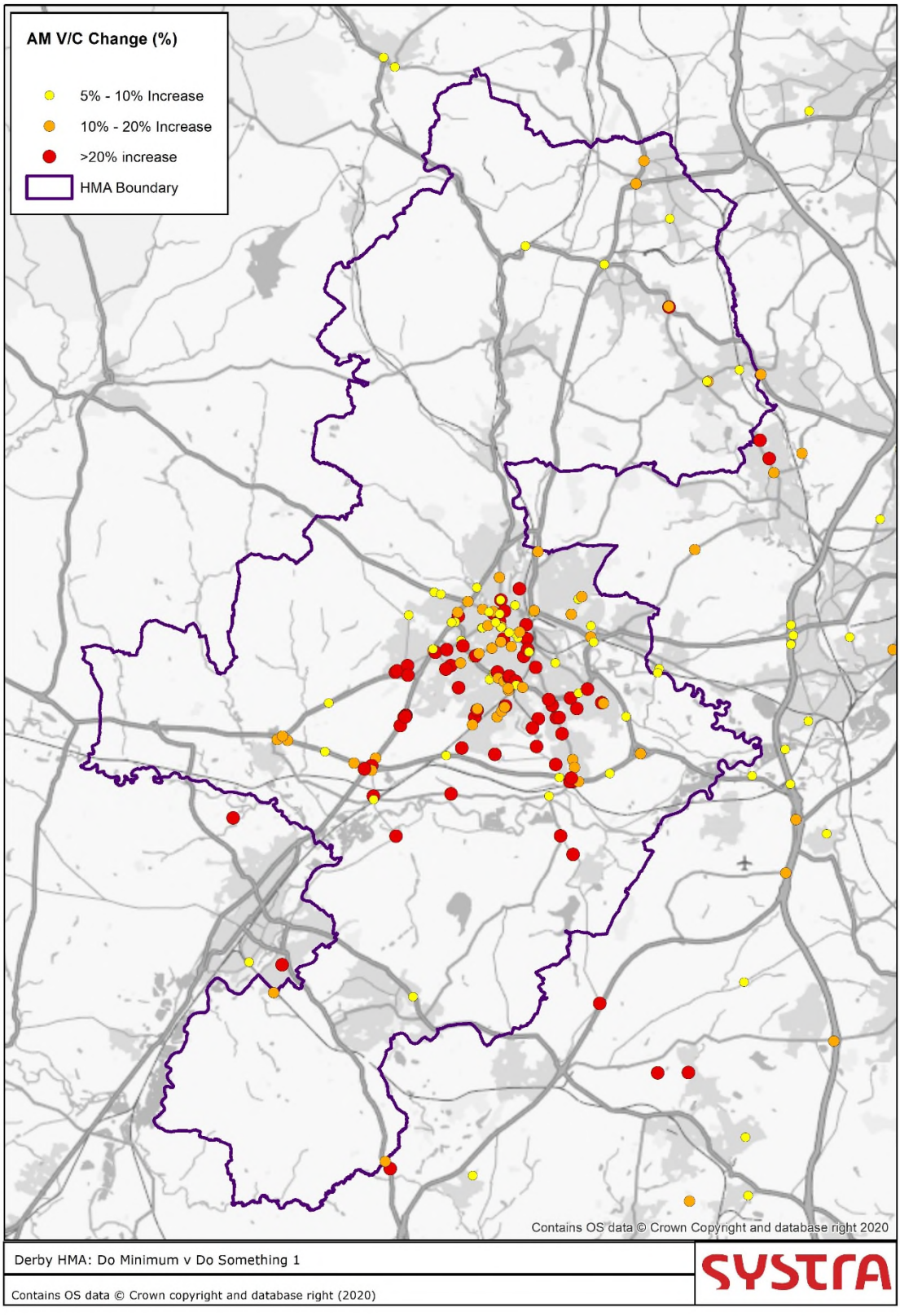


Figure 13. Do Minimum v Do Something 1 Congestion Change – PM Peak

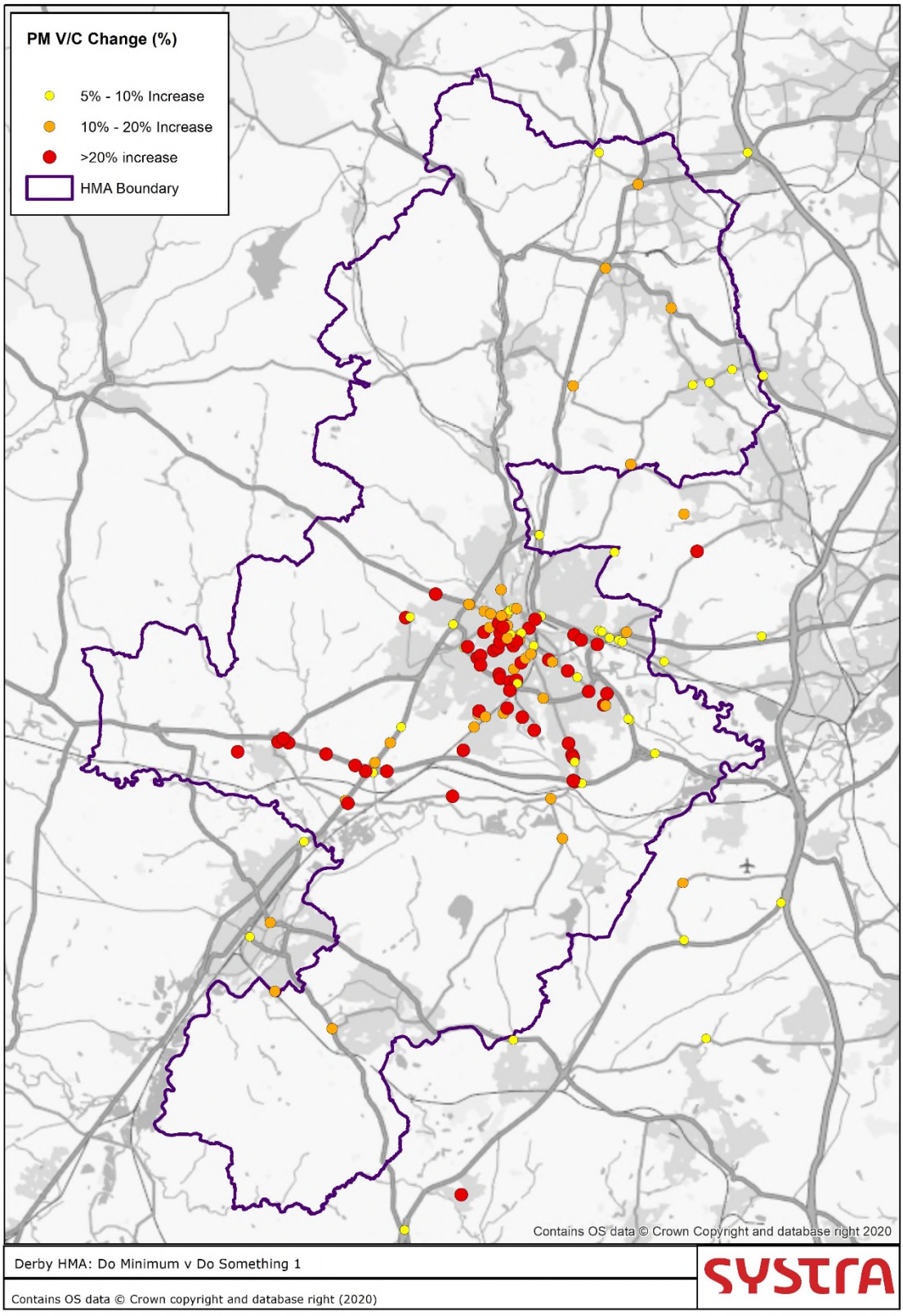


Figure 14. Do Something 1 Ultimate Congestion – AM Peak

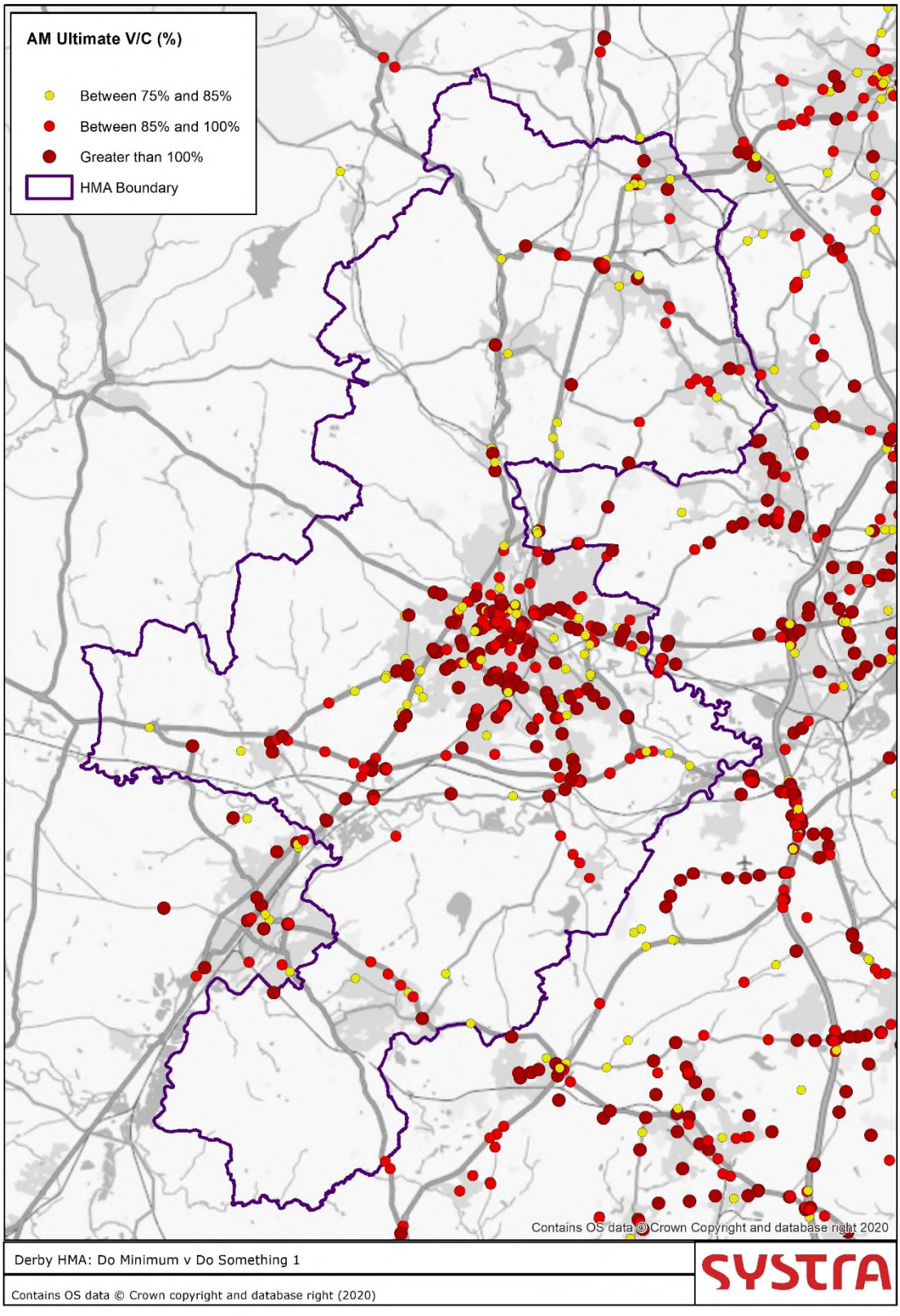
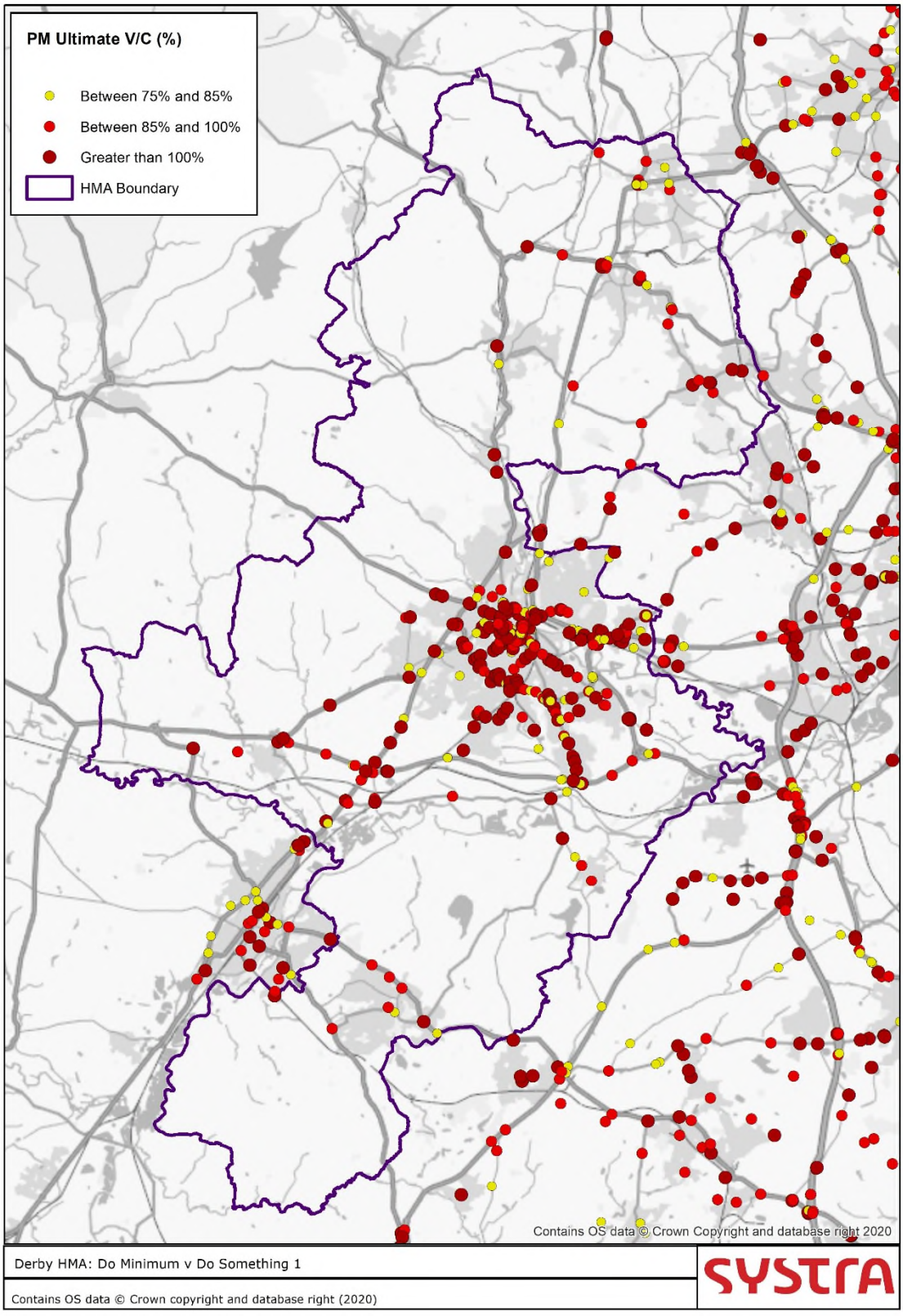


Figure 15. Do Something 1 Ultimate Congestion – PM Peak



5. WITH HMA LOCAL PLAN AND KNOWN MITIGATION (DO SOMETHING 2)

Figure 16. Do Something 1 v Do Something 2 Flow Change – AM Peak

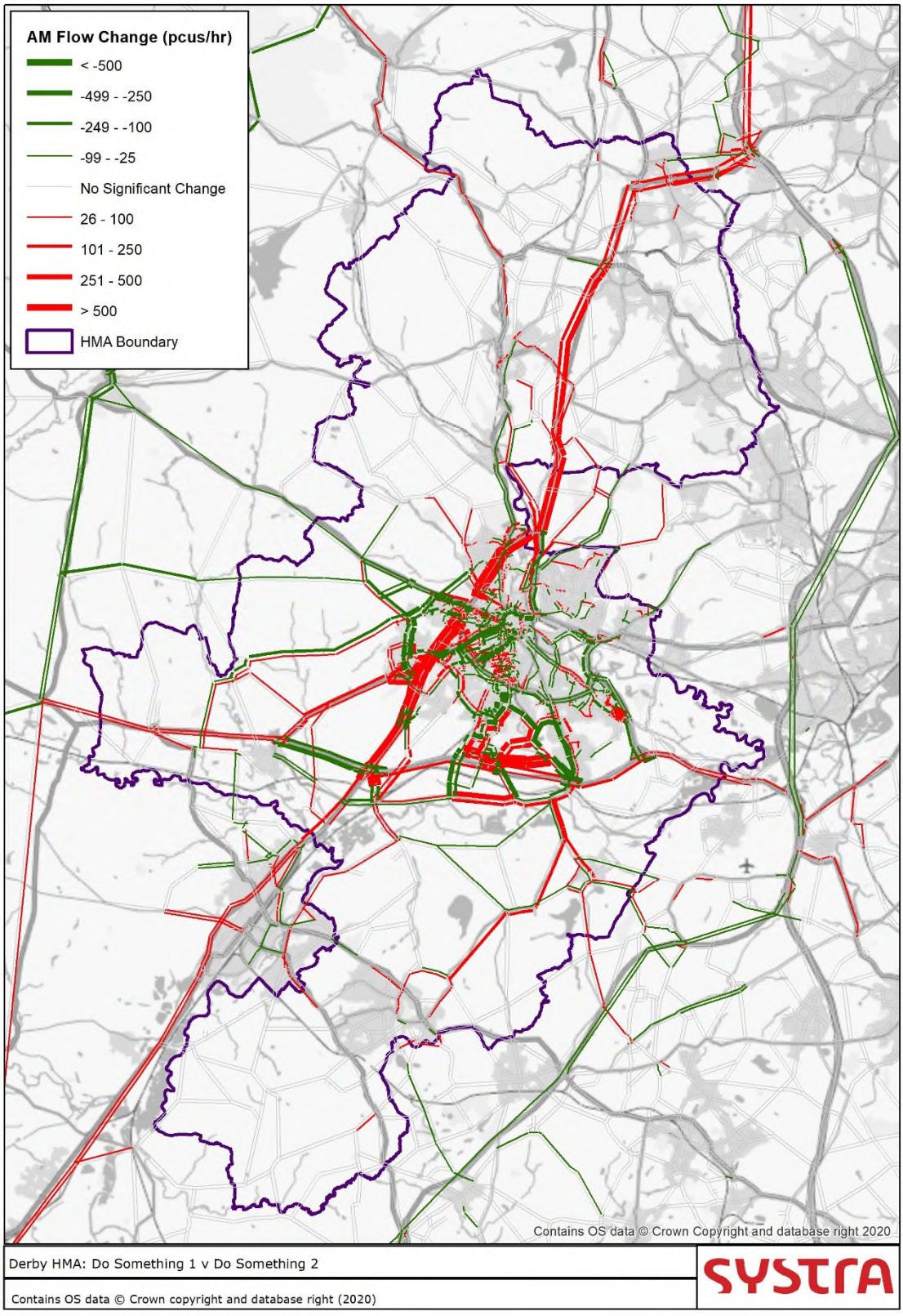


Figure 17. Do Something 1 v Do Something 2 Flow Change – PM Peak

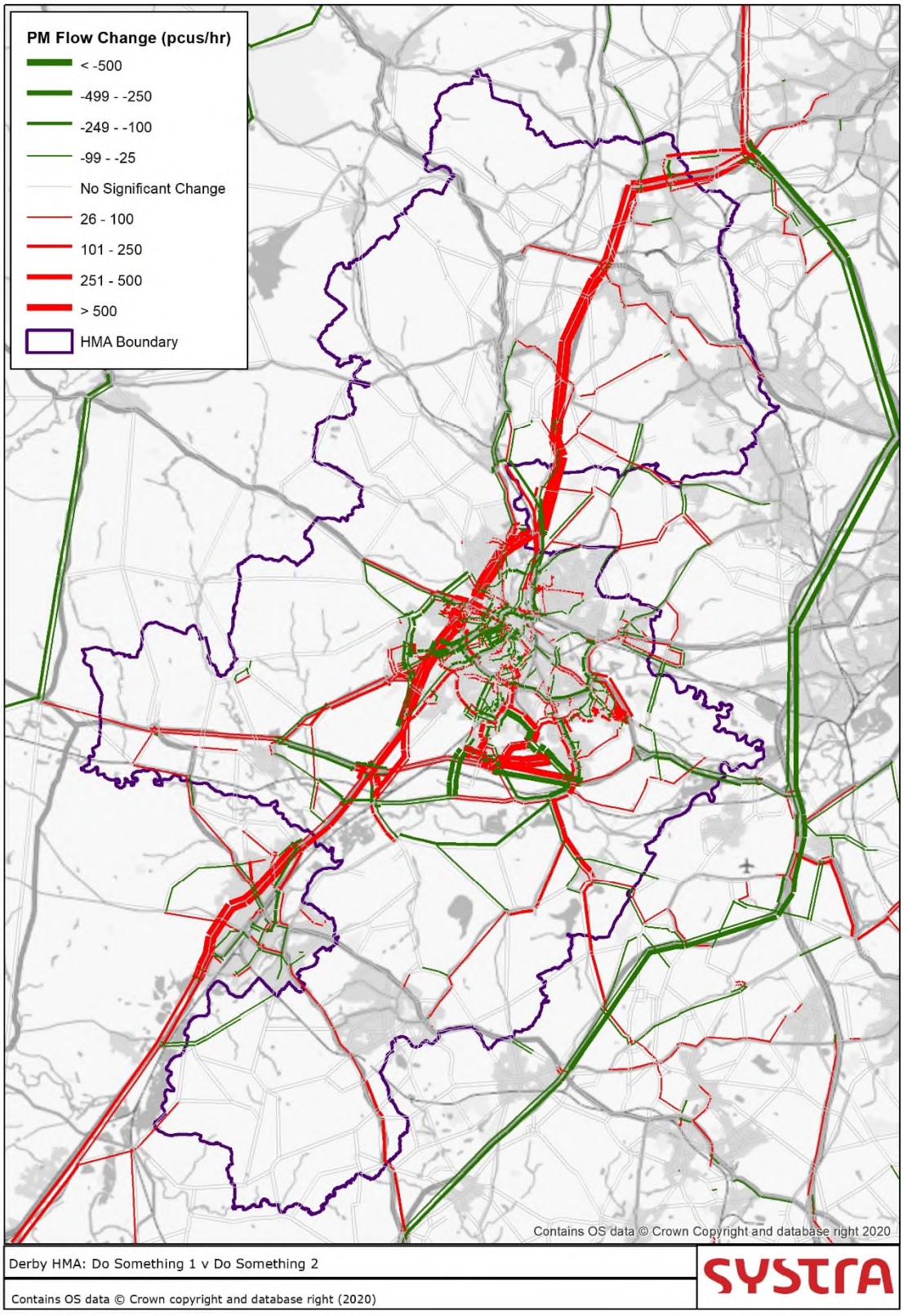


Figure 18. Do Something 1 v Do Something 2 Congestion Change – AM Peak

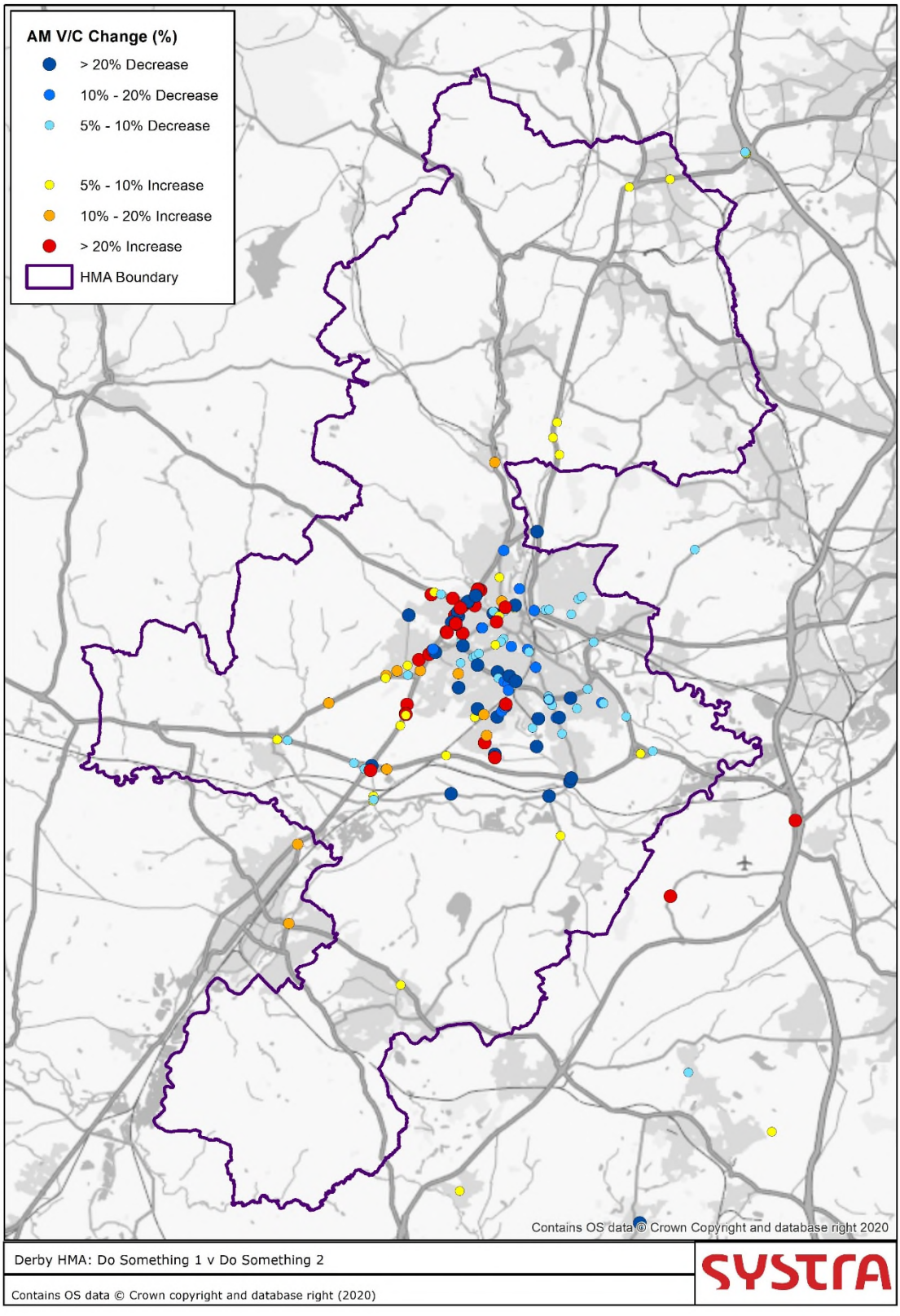


Figure 19. Do Something 1 v Do Something 2 Congestion Change – PM Peak

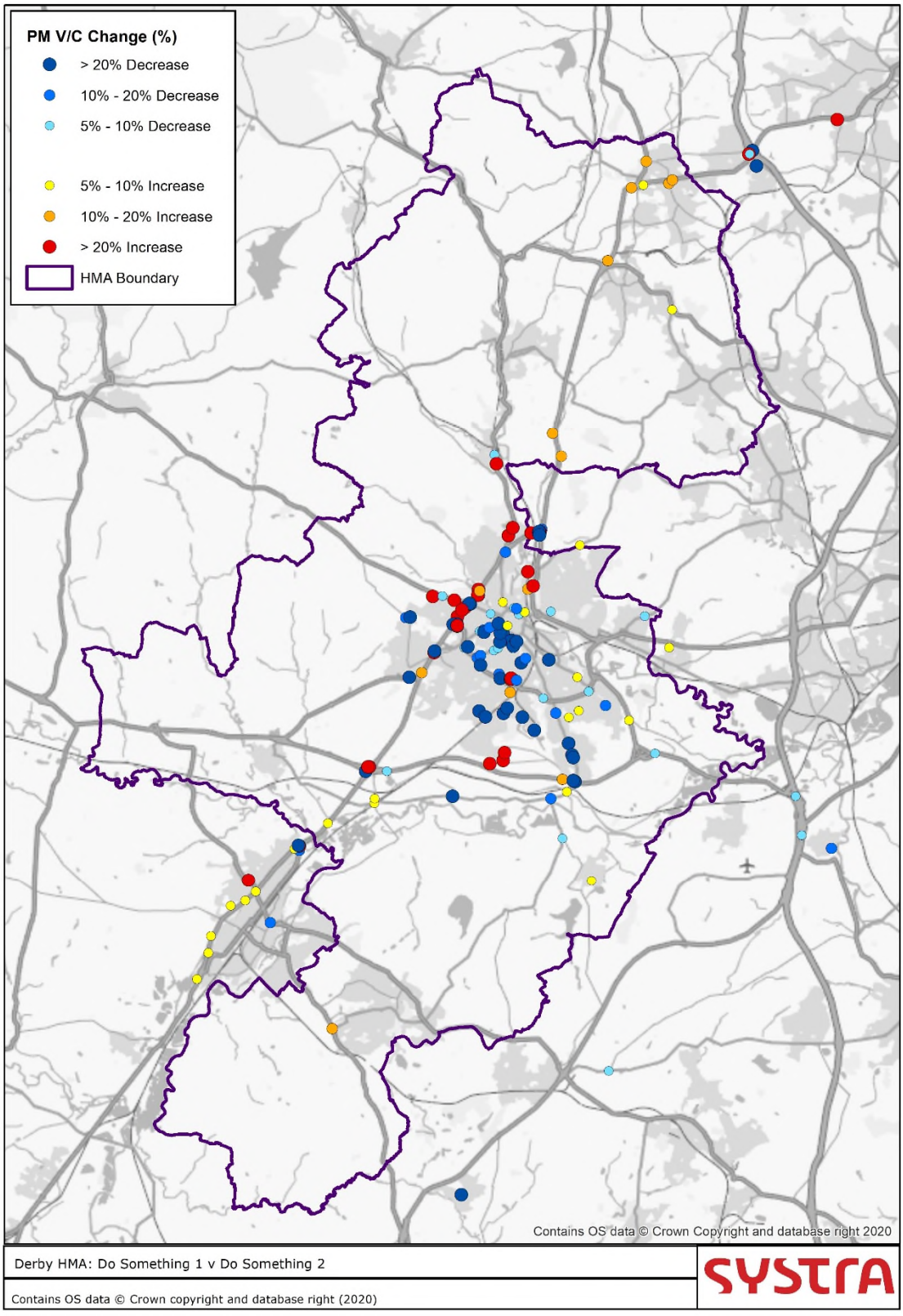


Figure 20. Do Minimum v Do Something 2 Flow Change – AM Peak

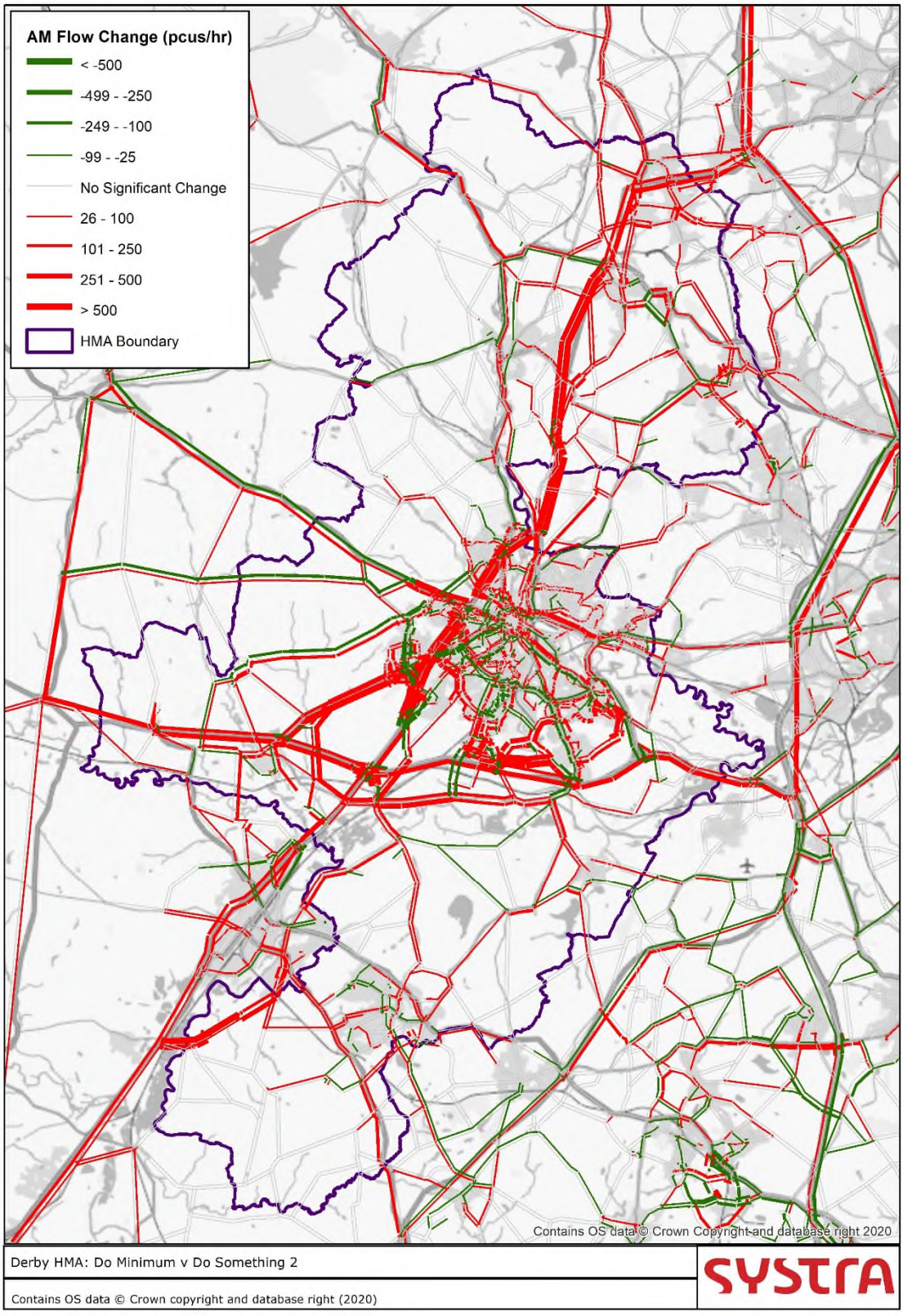


Figure 21. Do Minimum v Do Something 2 Flow Change – PM Peak

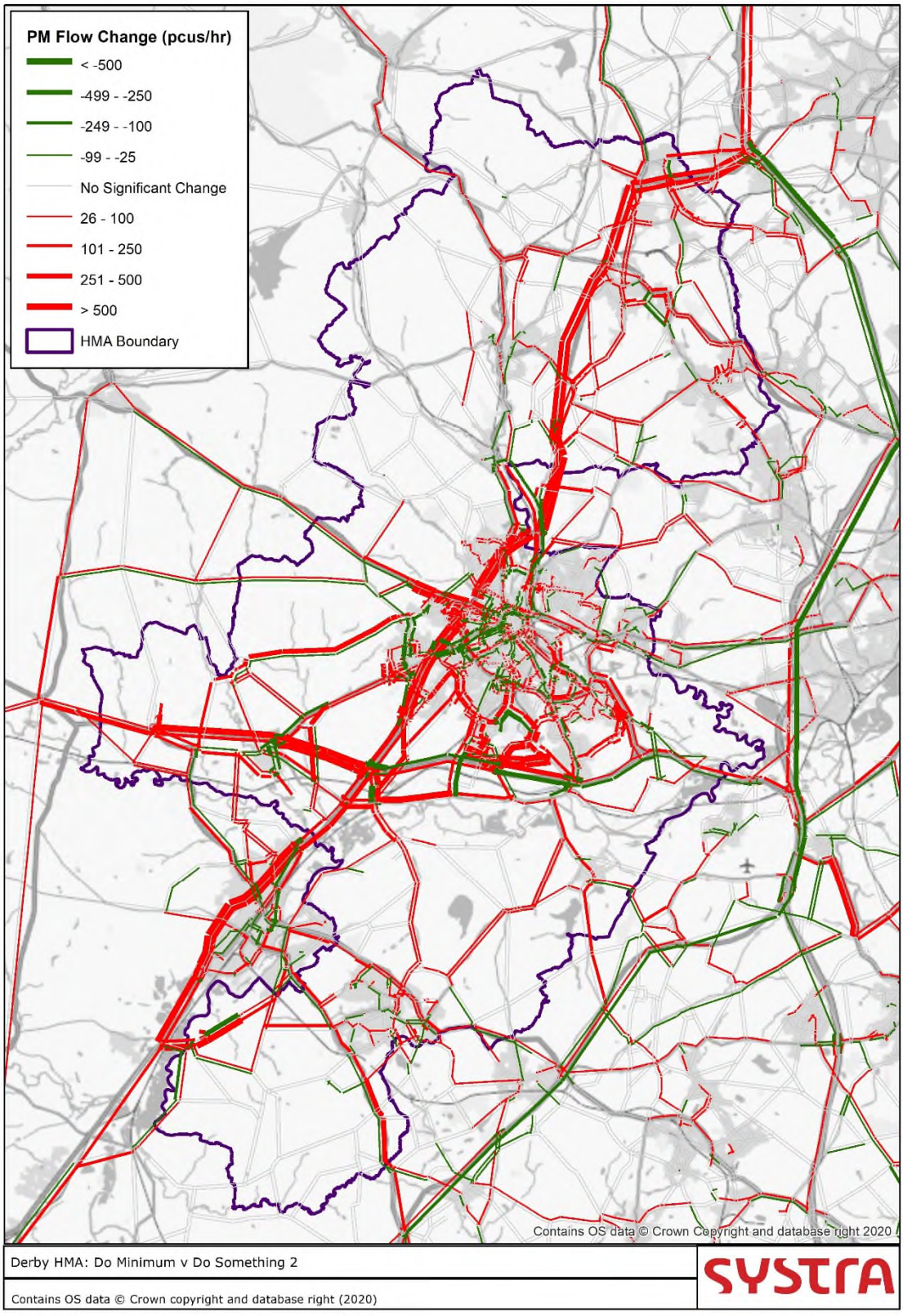


Figure 22. Do Minimum v Do Something 2 Congestion Change – AM Peak

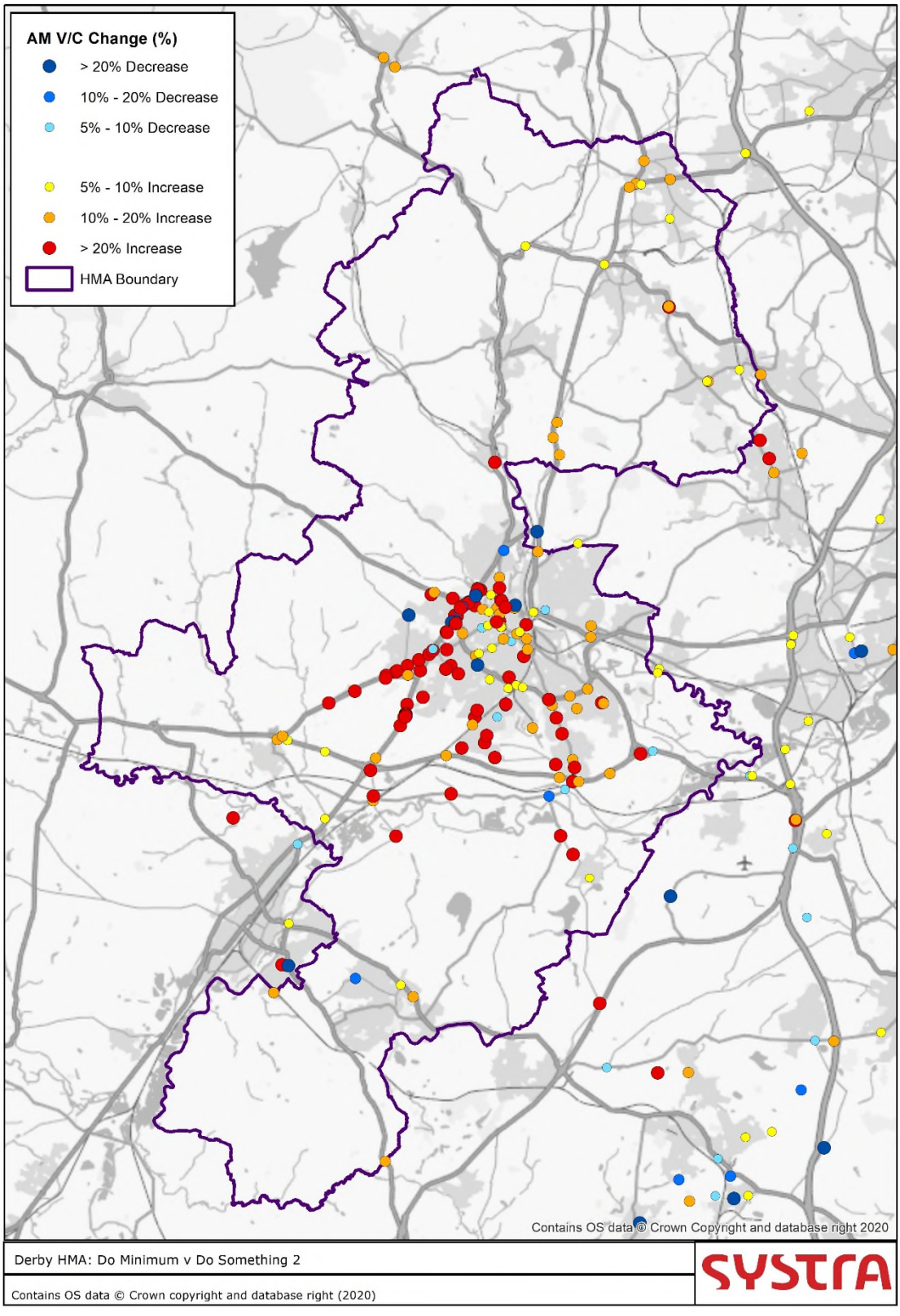


Figure 23. Do Minimum v Do Something 2 Congestion Change – PM Peak

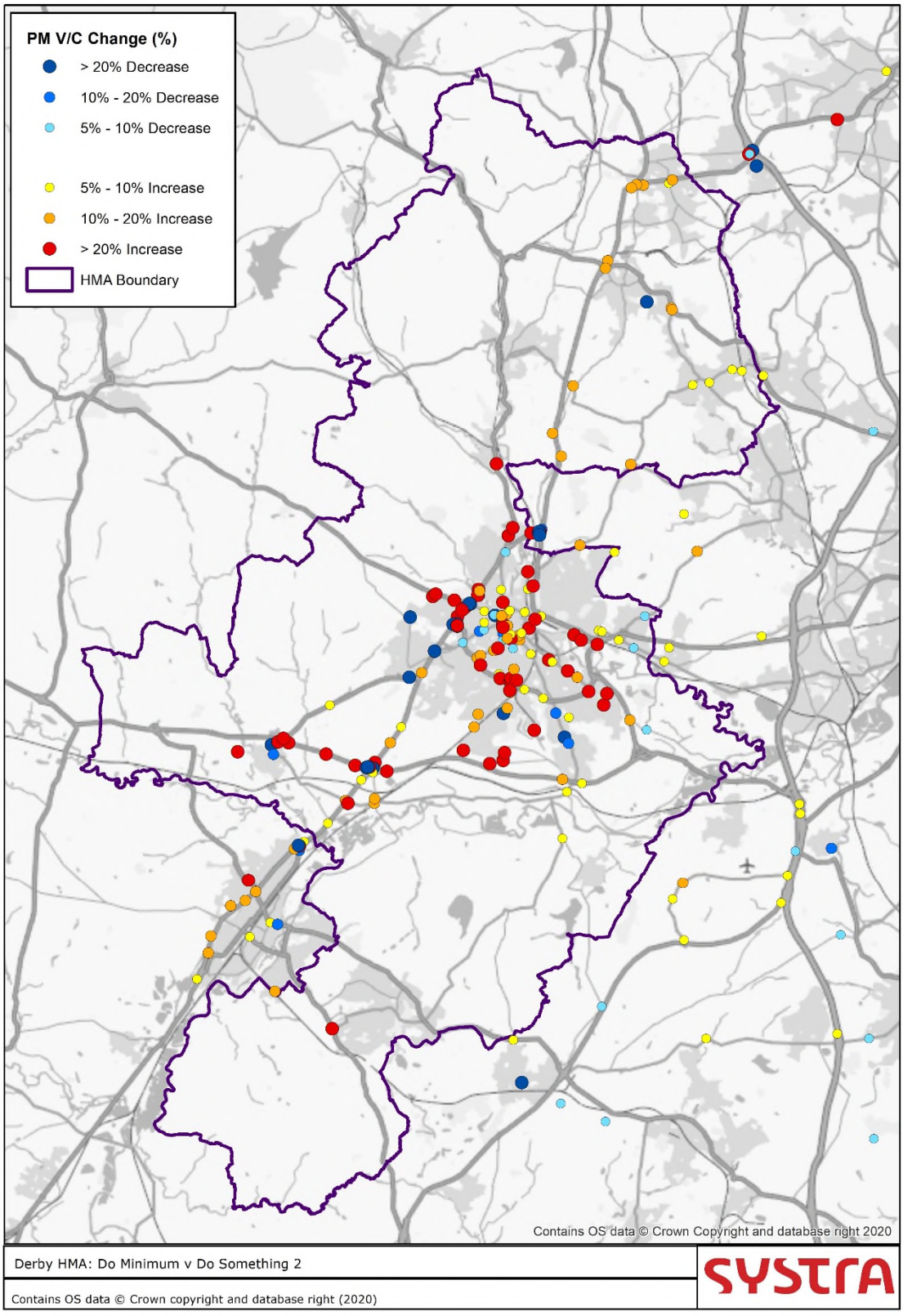


Figure 24. Do Something 2 Ultimate Congestion – AM Peak

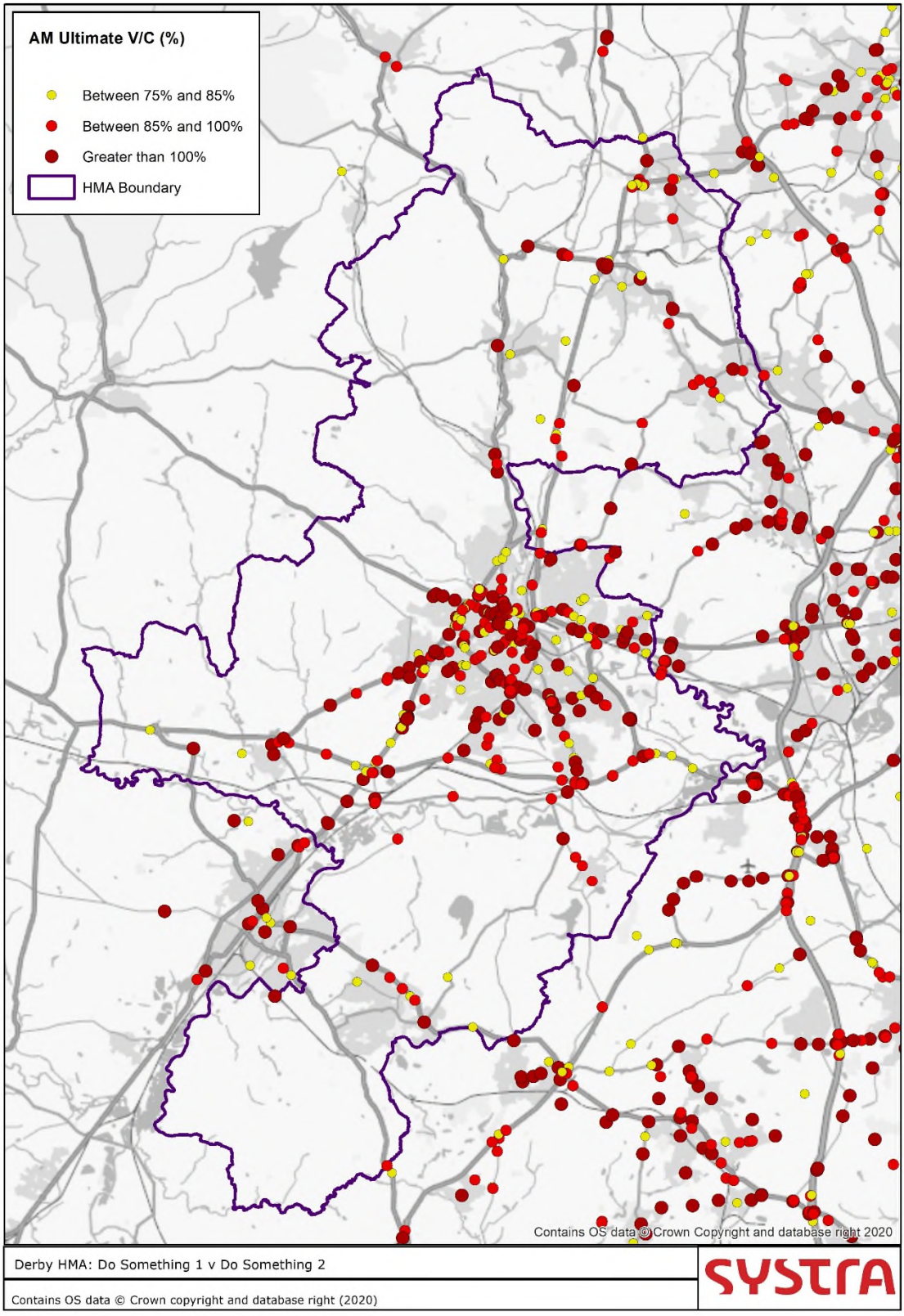
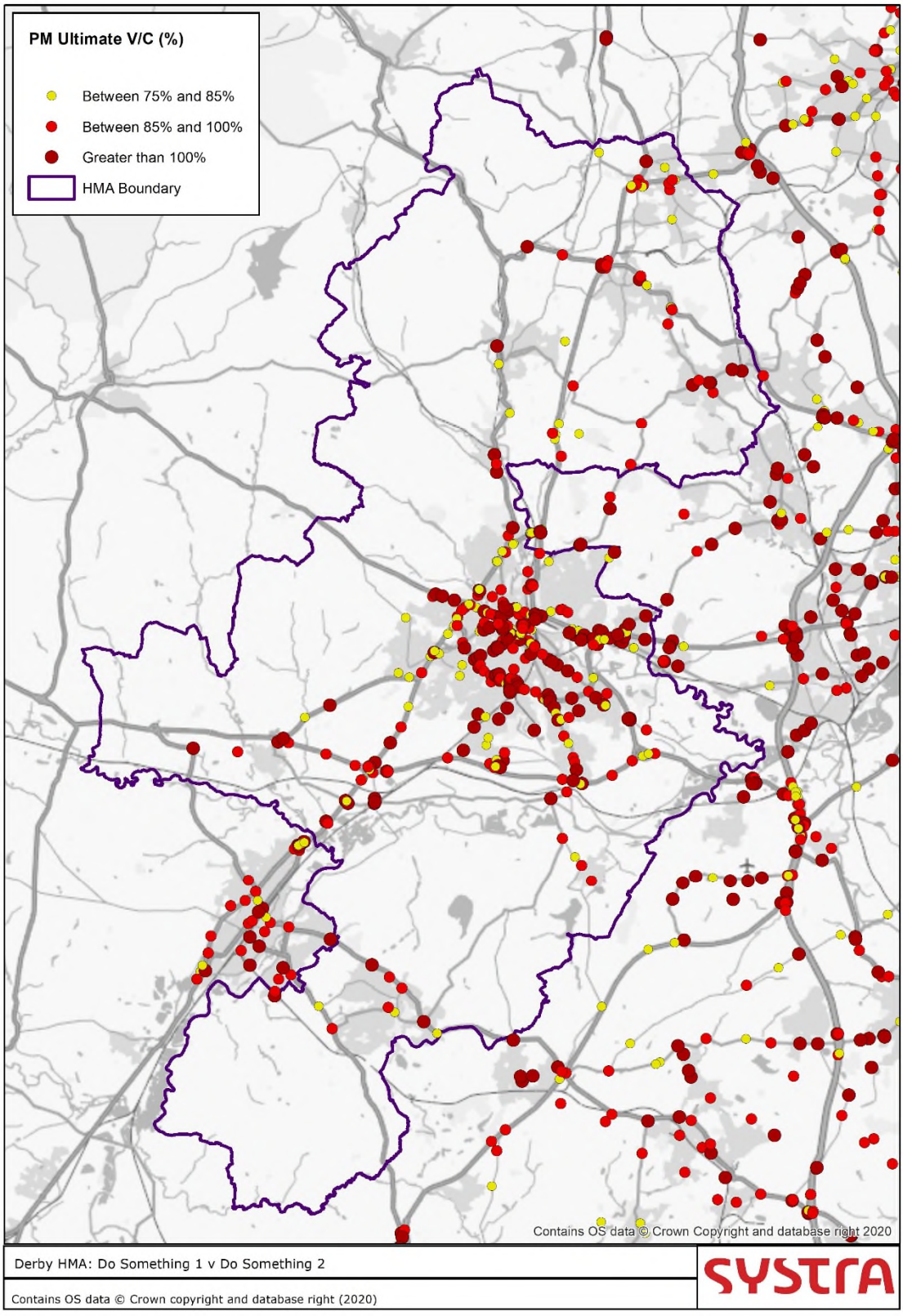


Figure 25. Do Something 2 Ultimate Congestion – PM Peak



6. LOCAL PLAN WITH ADDITIONAL MITIGATION (DO SOMETHING 3)

Figure 26. Do Something 2 v Do Something 3b Flow Change – AM Peak

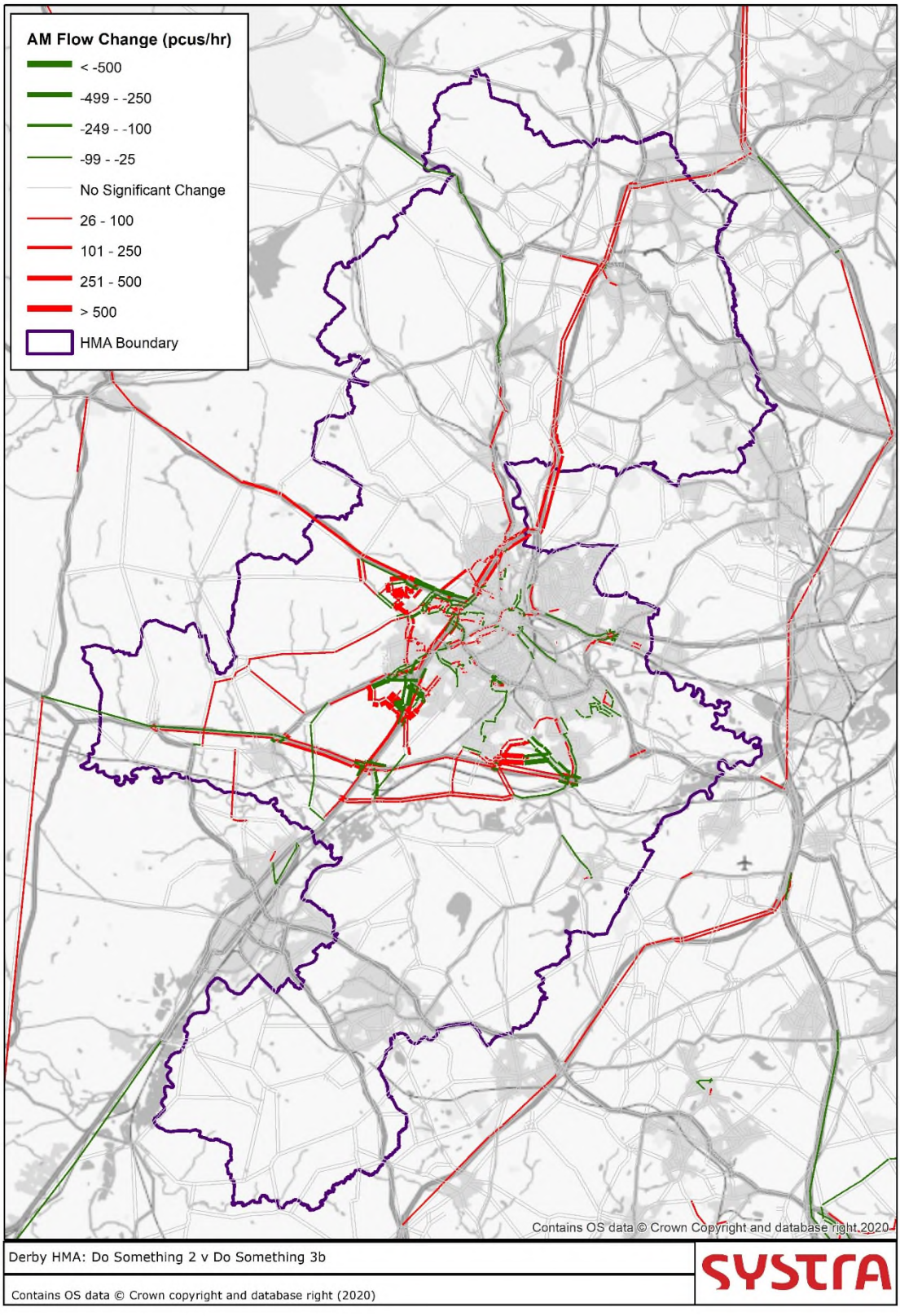


Figure 27. Do Something 2 v Do Something 3b Flow Change – PM Peak

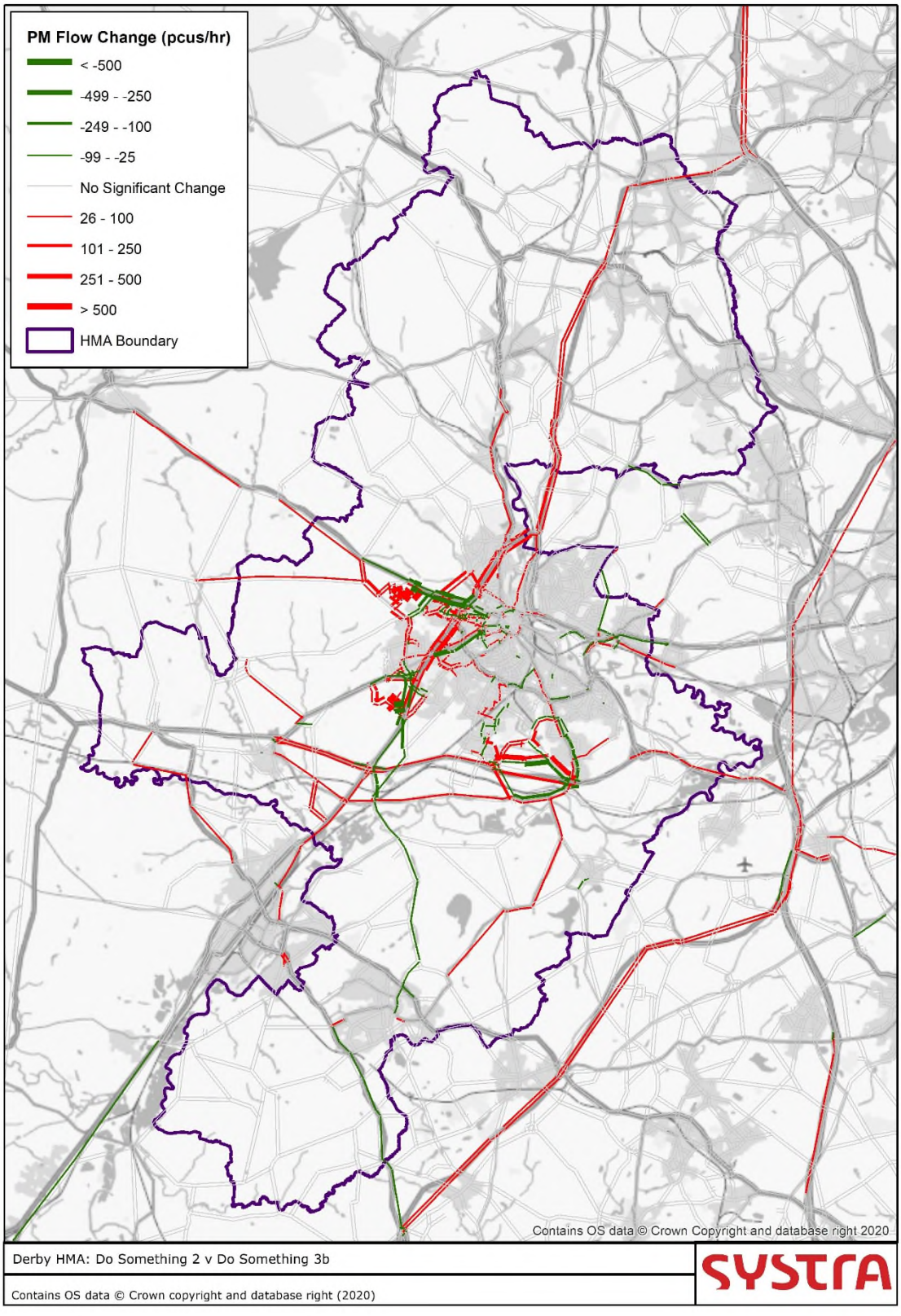


Figure 28. Do Something 2 v Do Something 3b Congestion Change – AM Peak

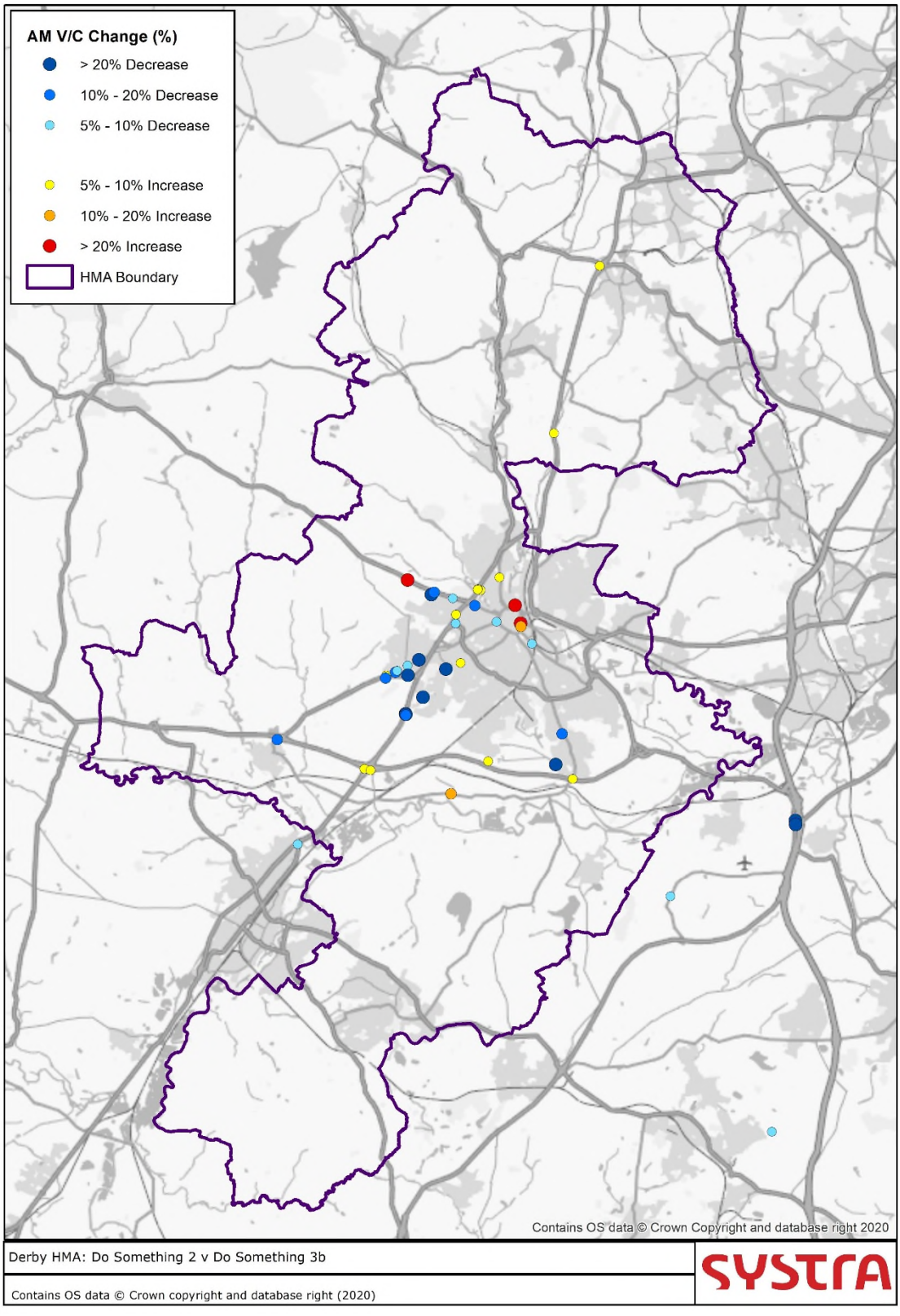


Figure 29. Do Something 2 v Do Something 3b Congestion Change – PM Peak

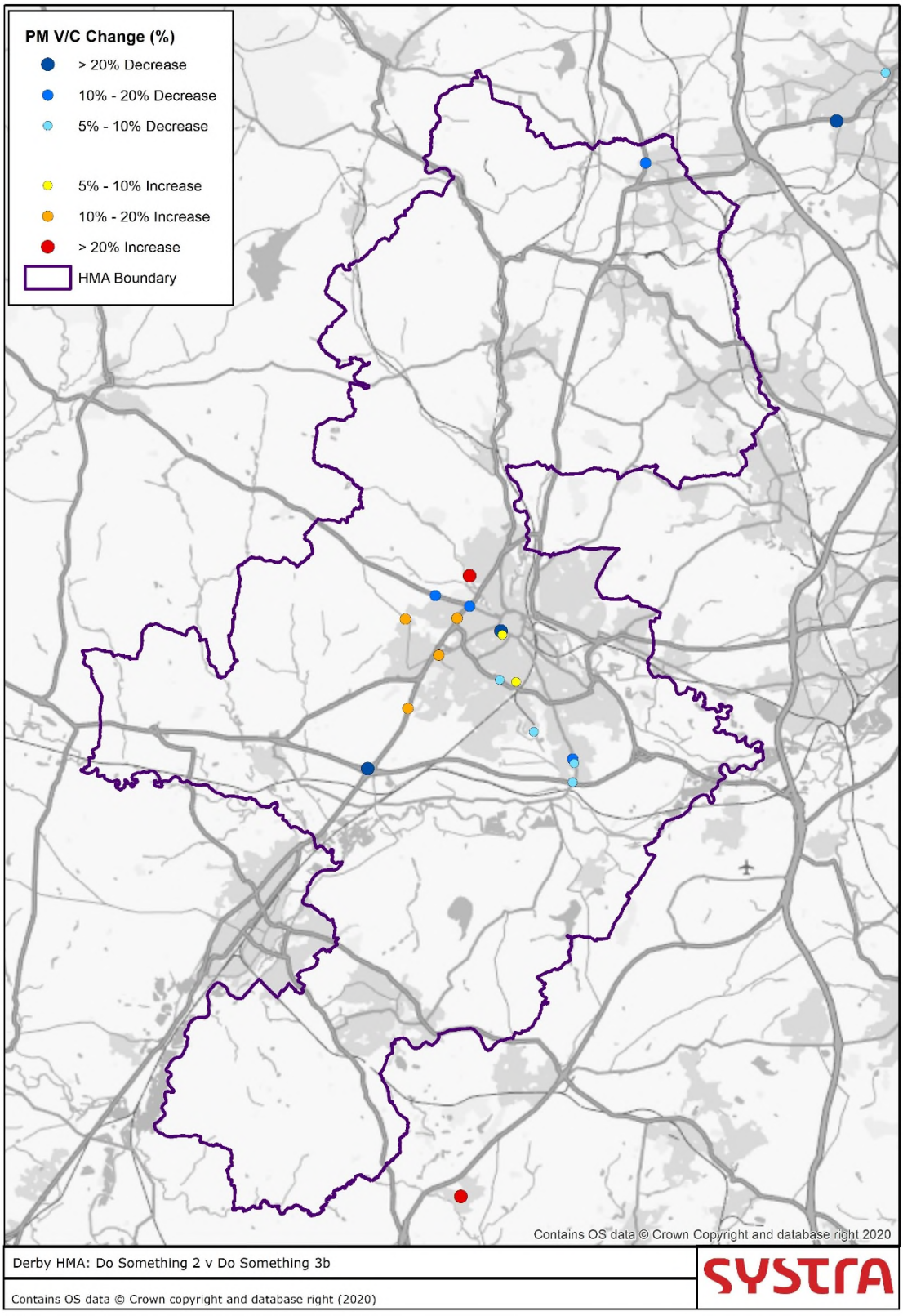


Figure 30. Do Minimum v Do Something 3b Flow Change – AM Peak

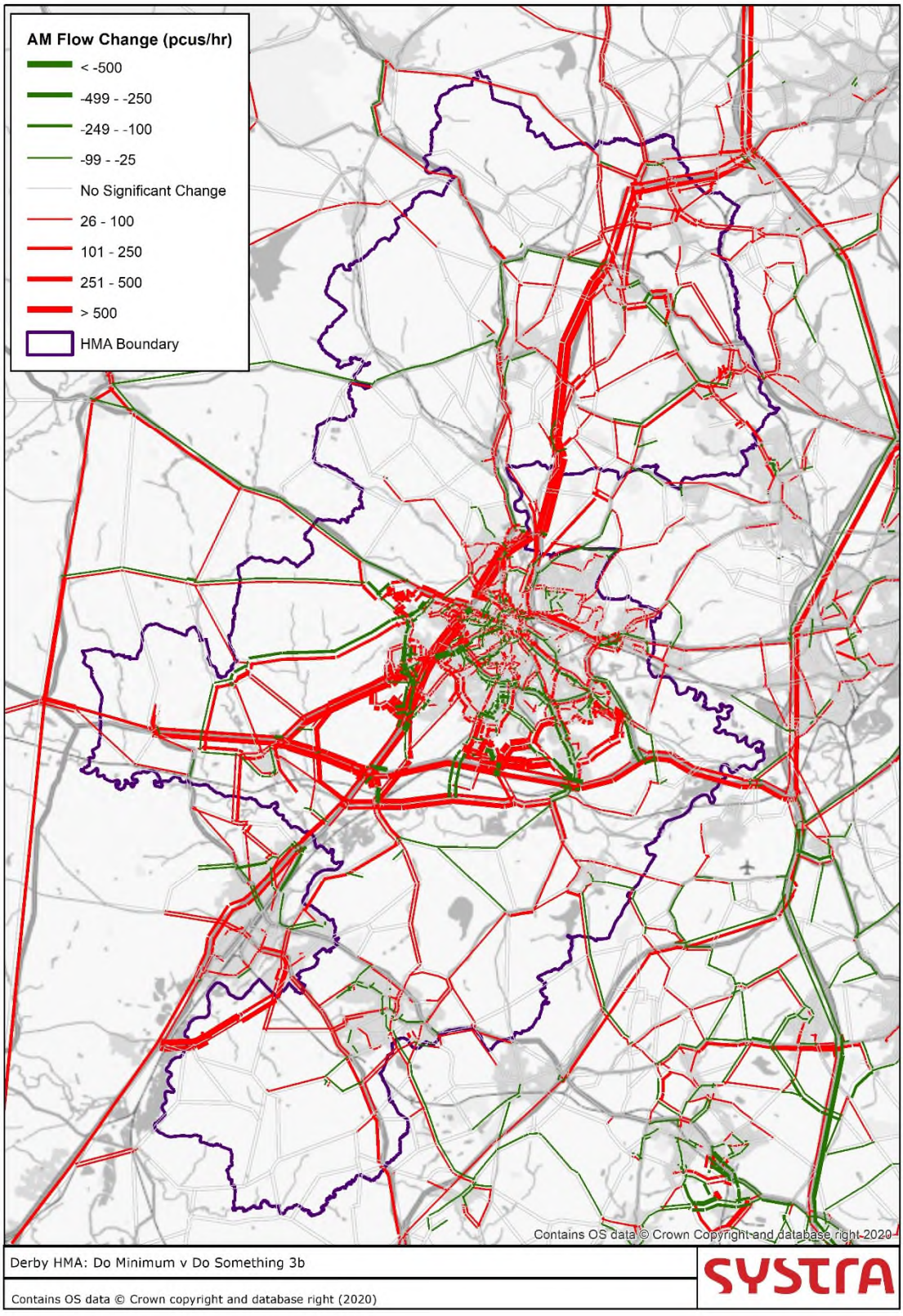


Figure 31. Do Minimum v Do Something 3b Flow Change – PM Peak

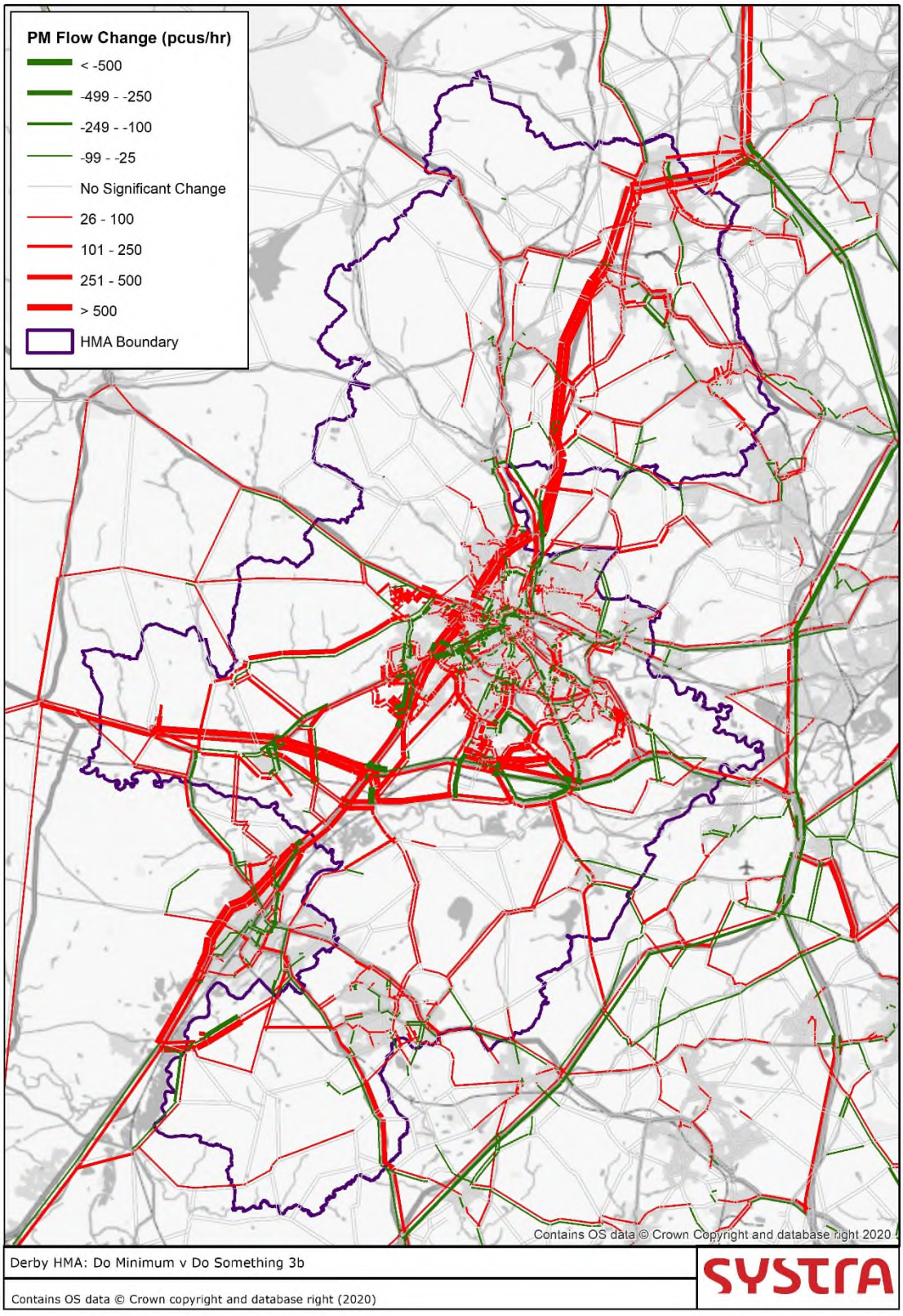


Figure 32. Do Minimum v Do Something 3b Congestion Change – AM Peak

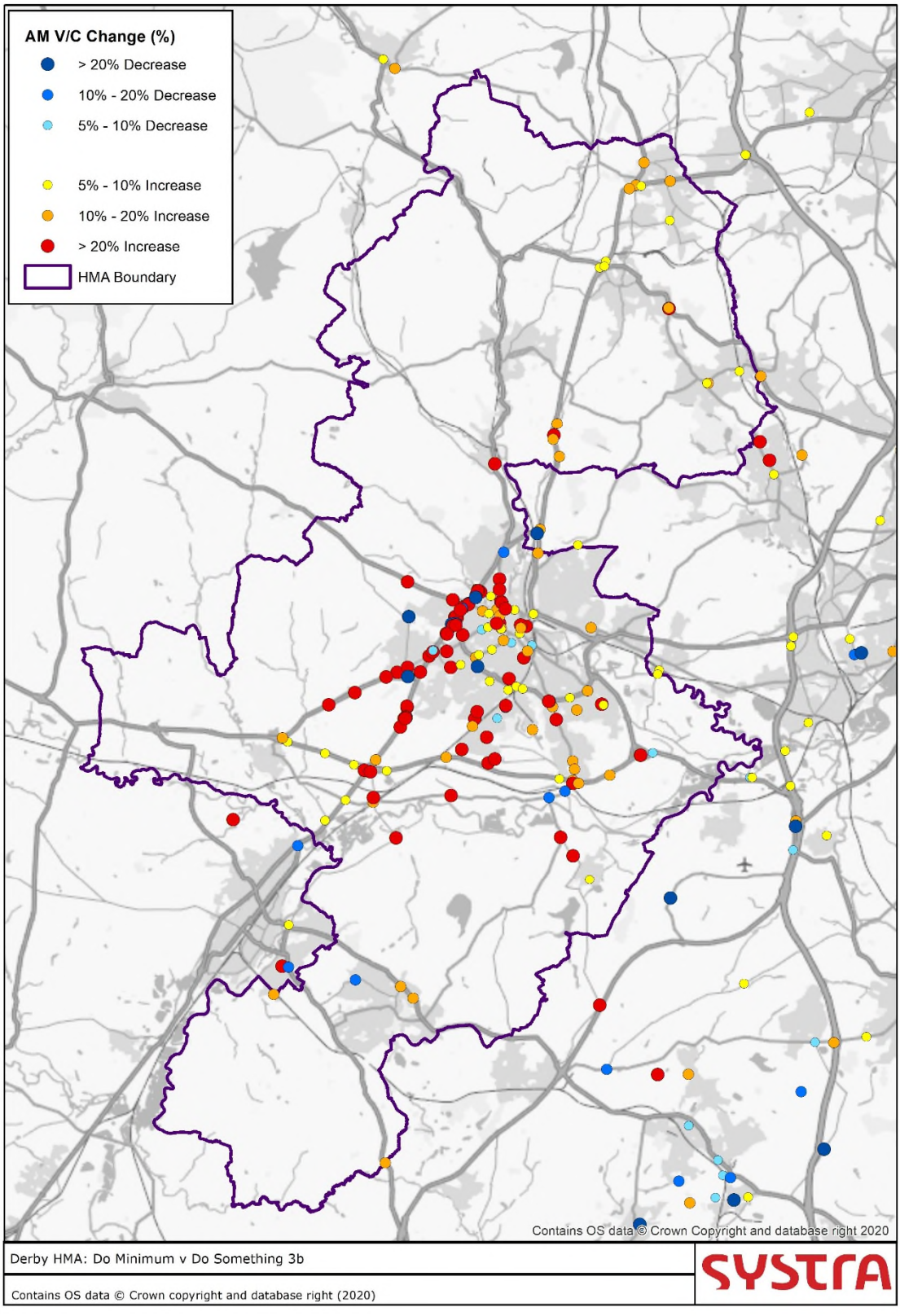
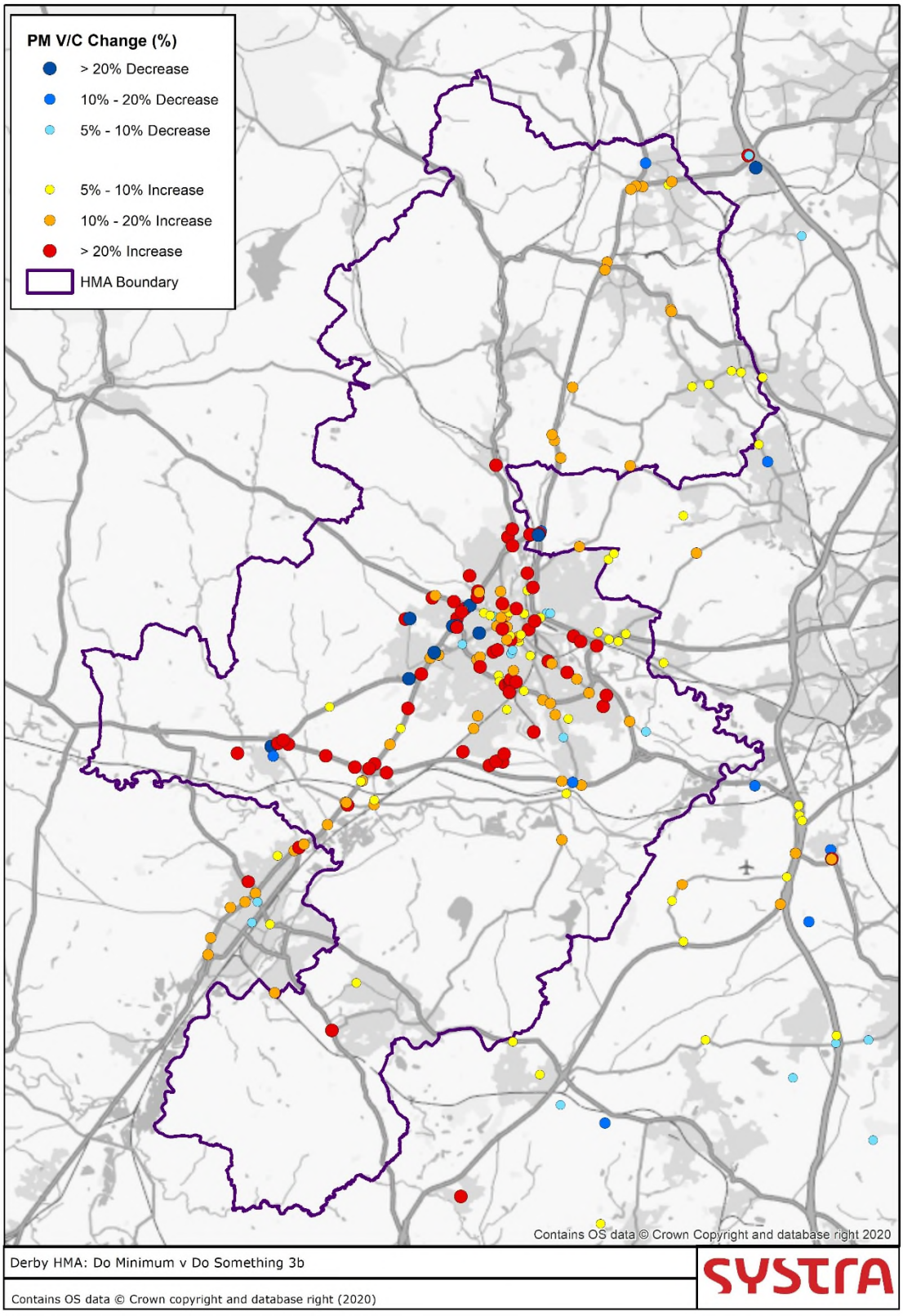


Figure 33. Do Minimum v Do Something 3b Congestion Change – PM Peak



7. NO A38 GRADE SEPARATION SENSITIVITY TEST (DO SOMETHING 4)

Figure 34. Do Something 3b v Do Something 4 Flow Change – AM Peak

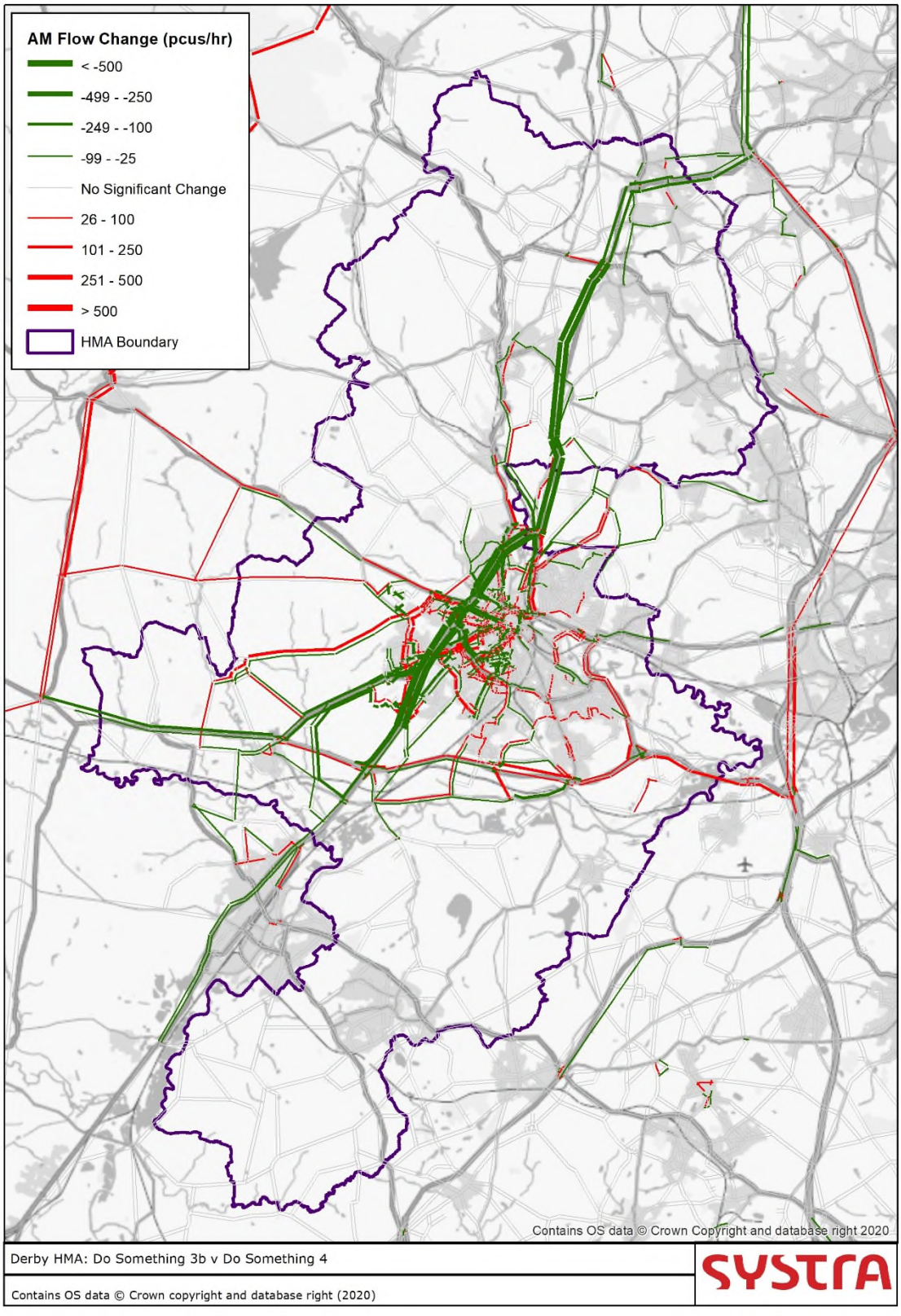


Figure 35. Do Something 3b v Do Something 4 Flow Change – PM Peak

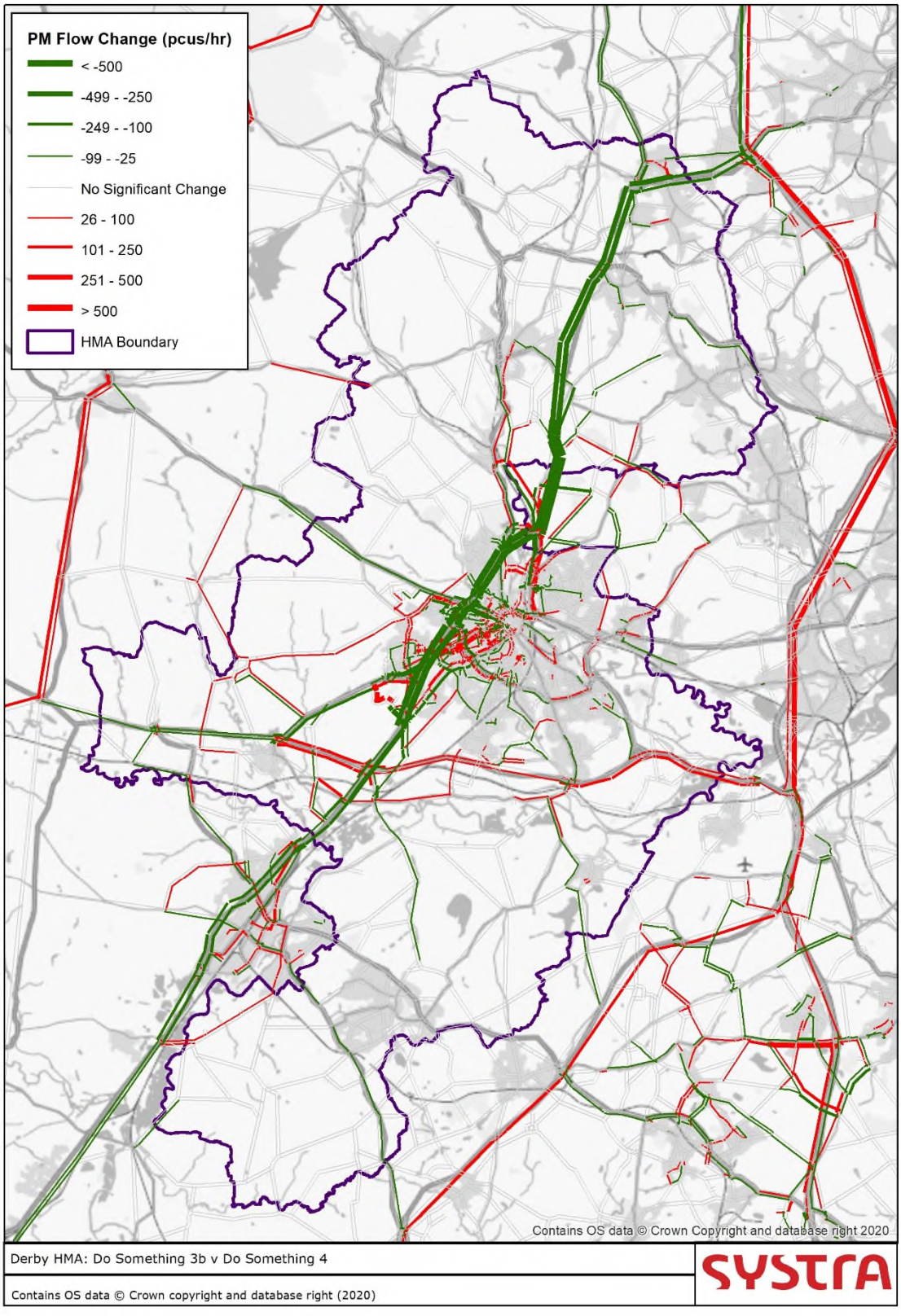


Figure 36. Do Something 3b v Do Something 4 Congestion Change – AM Peak

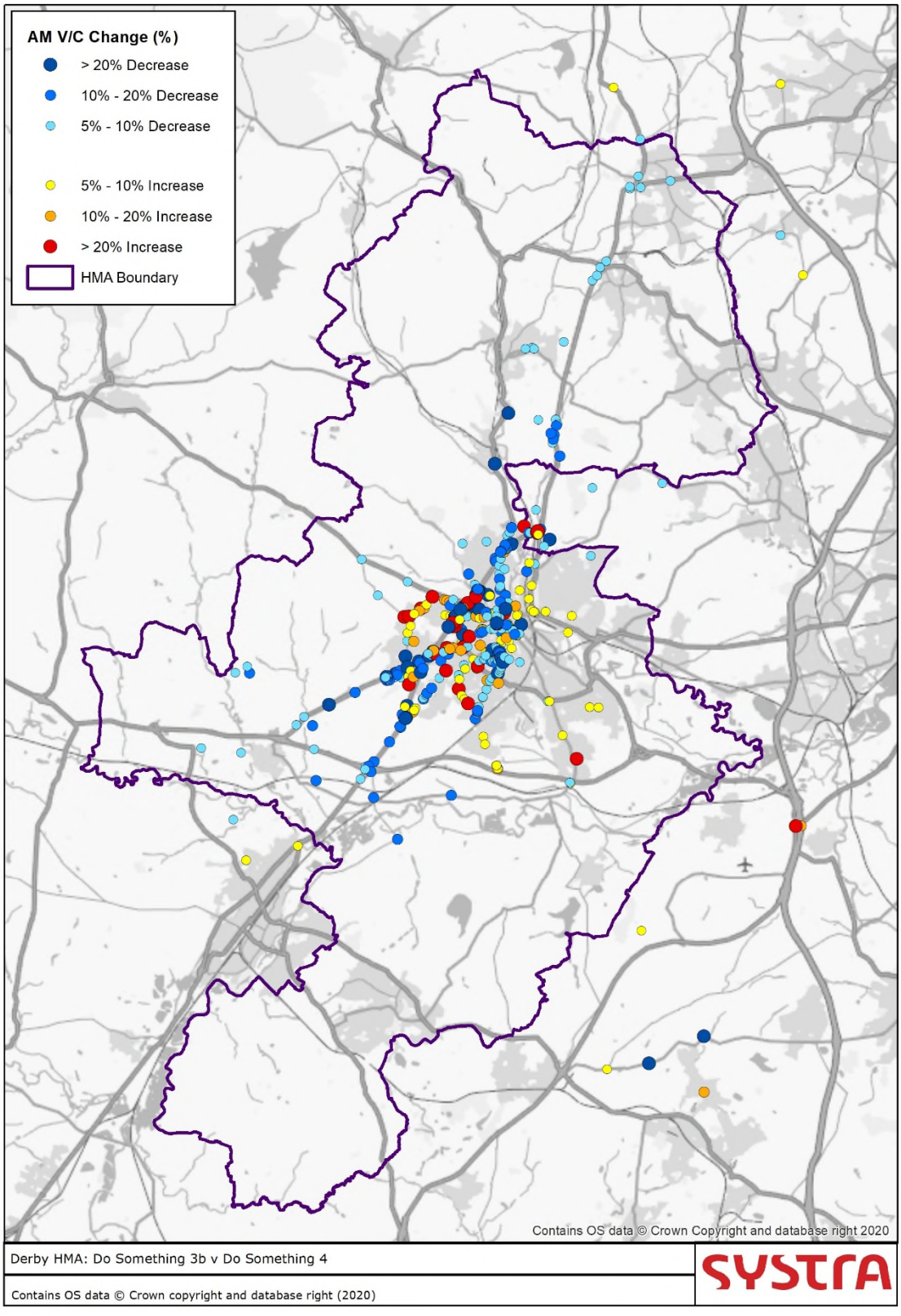


Figure 37. Do Something 3b v Do Something 4 Congestion Change – PM Peak

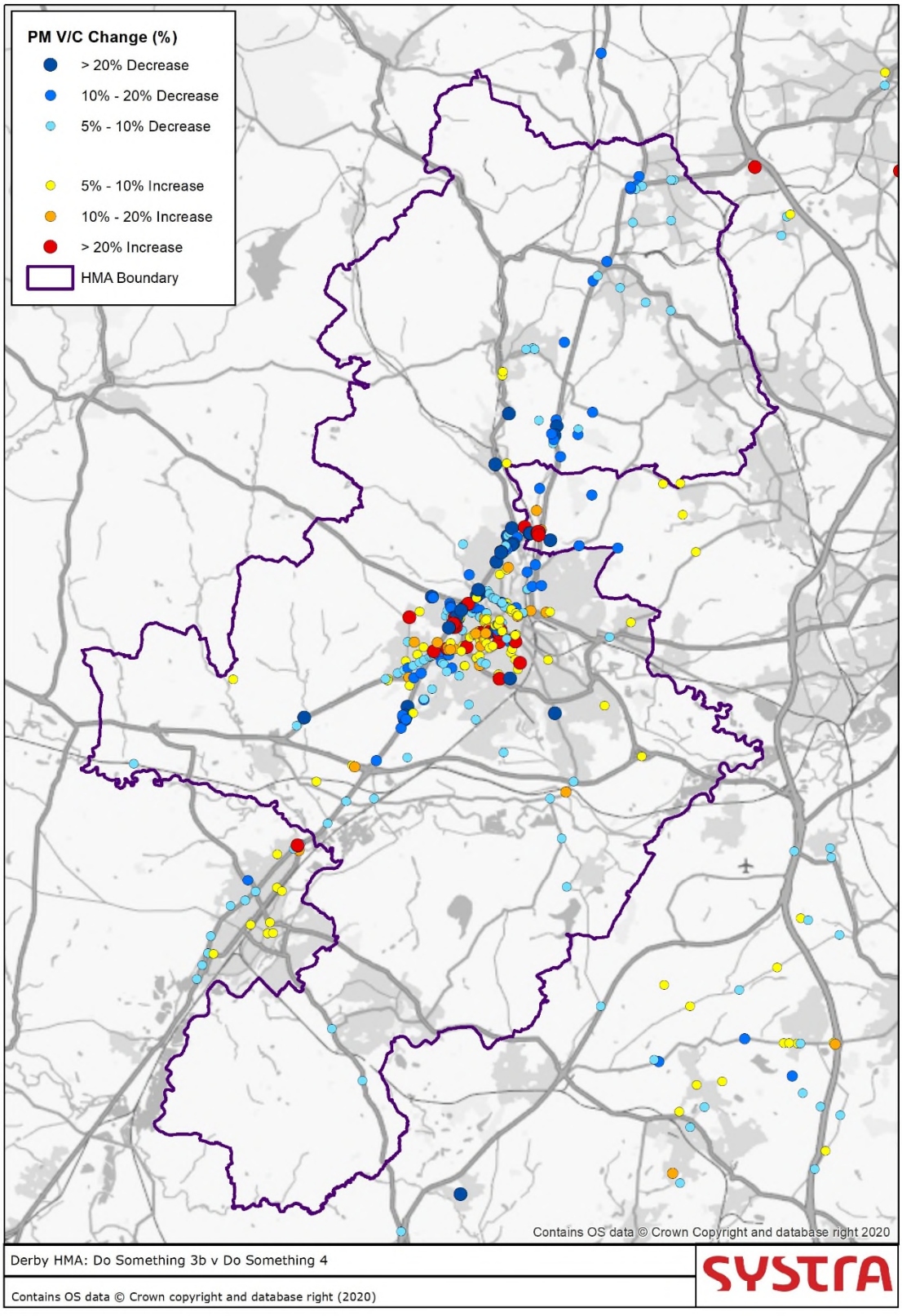


Figure 38. Do Minimum v Do Something 4 Flow Change – AM Peak

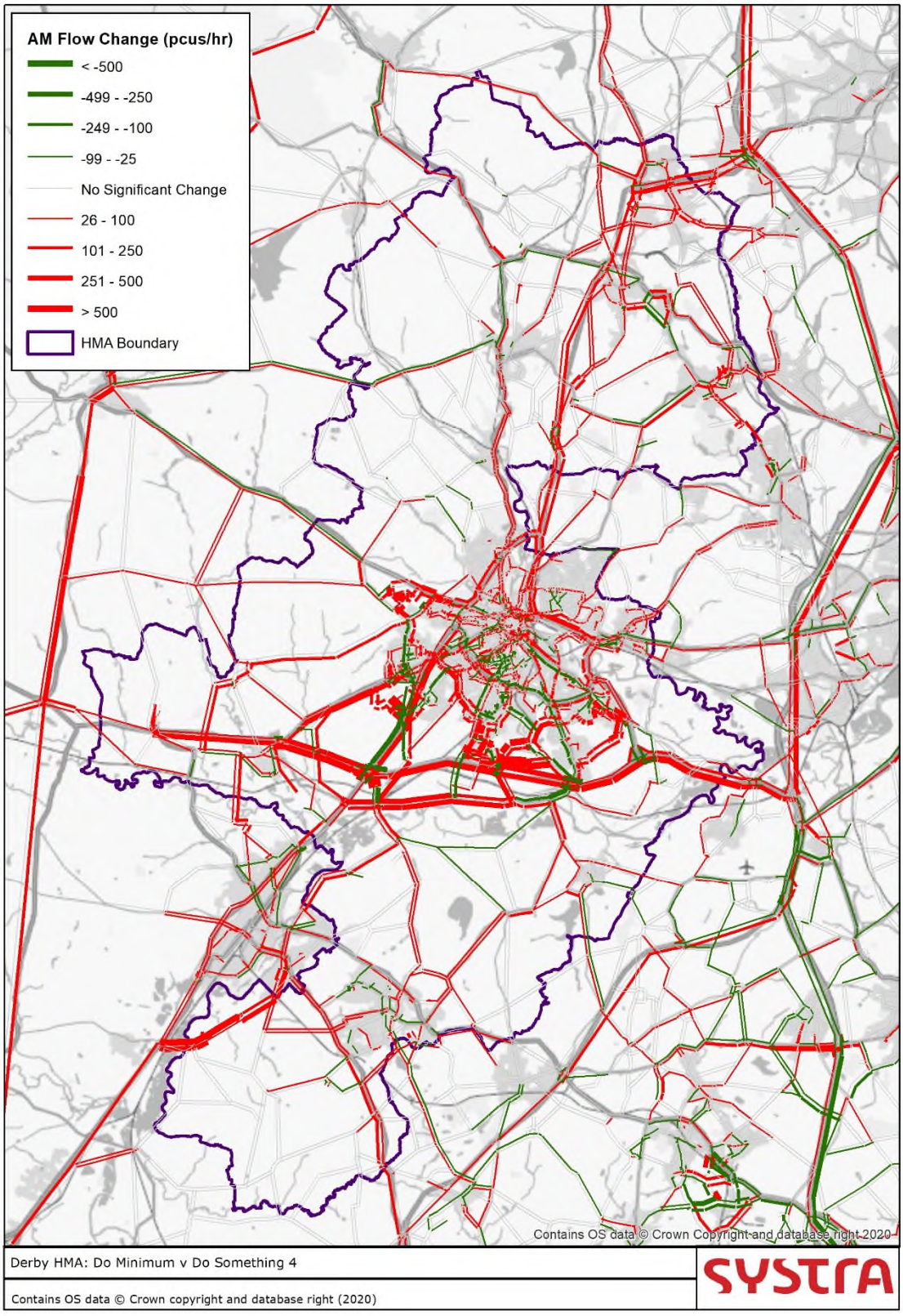


Figure 39. Do Minimum v Do Something 4 Flow Change – PM Peak

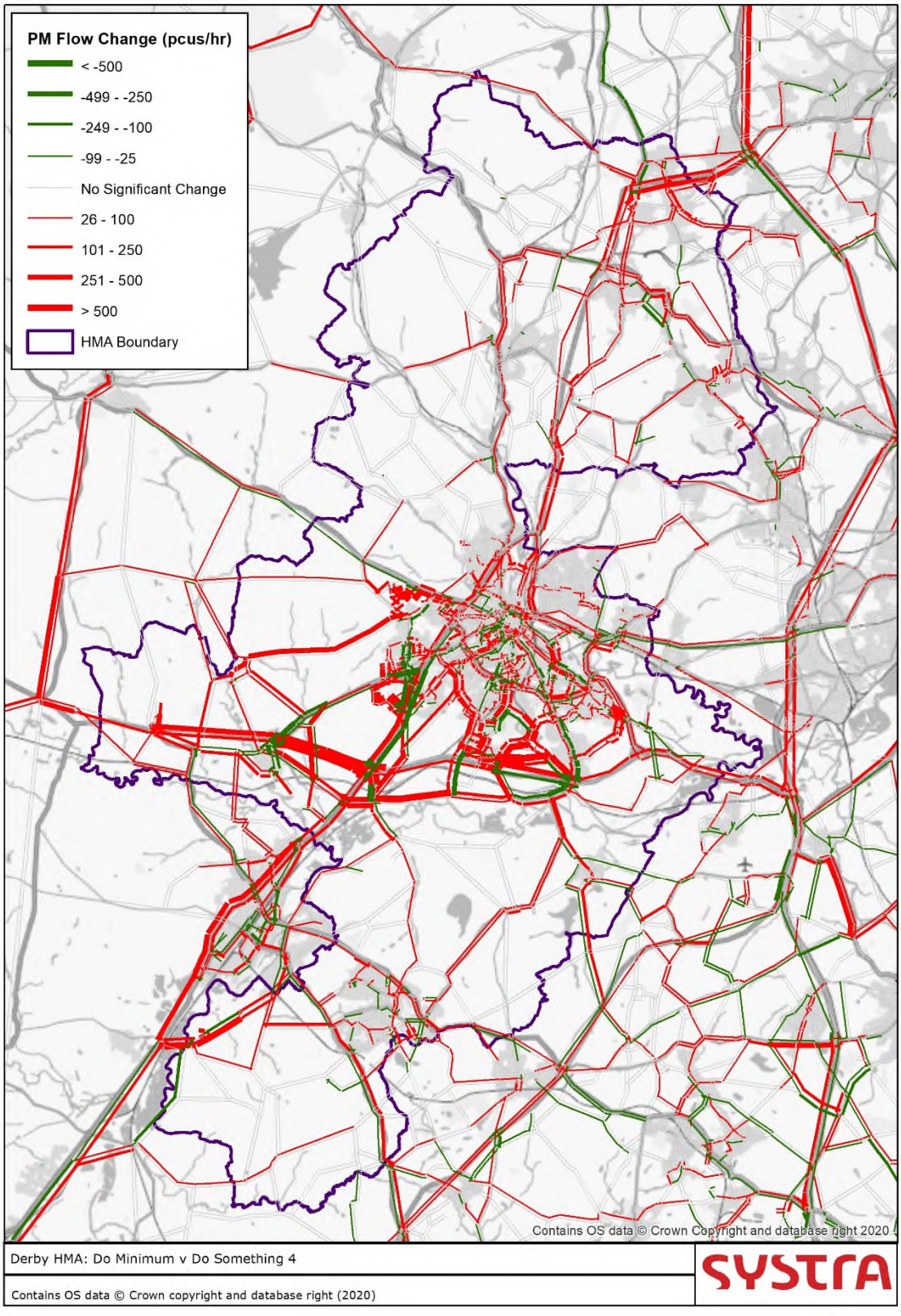


Figure 40. Do Minimum v Do Something 4 Congestion Change – AM Peak

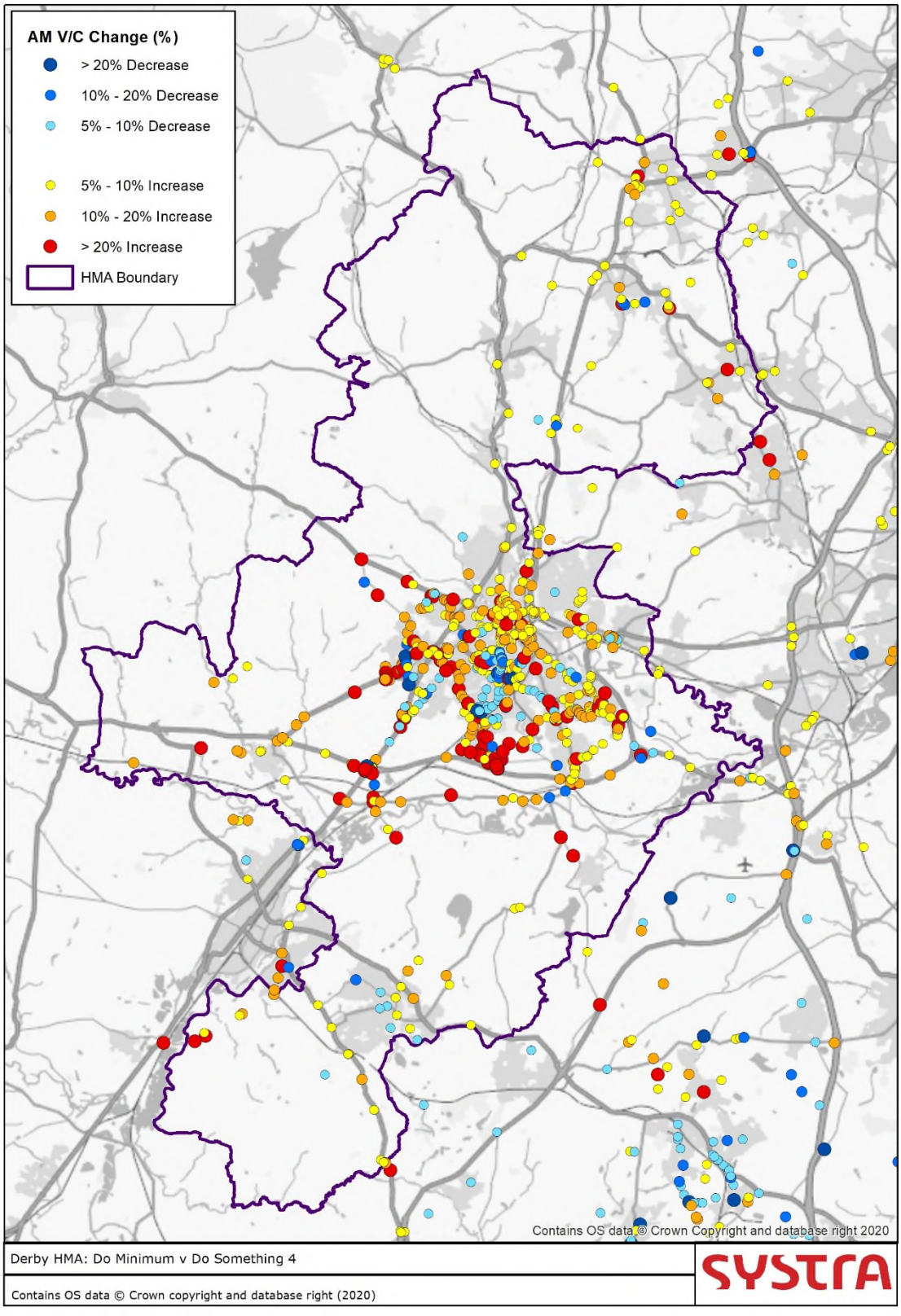
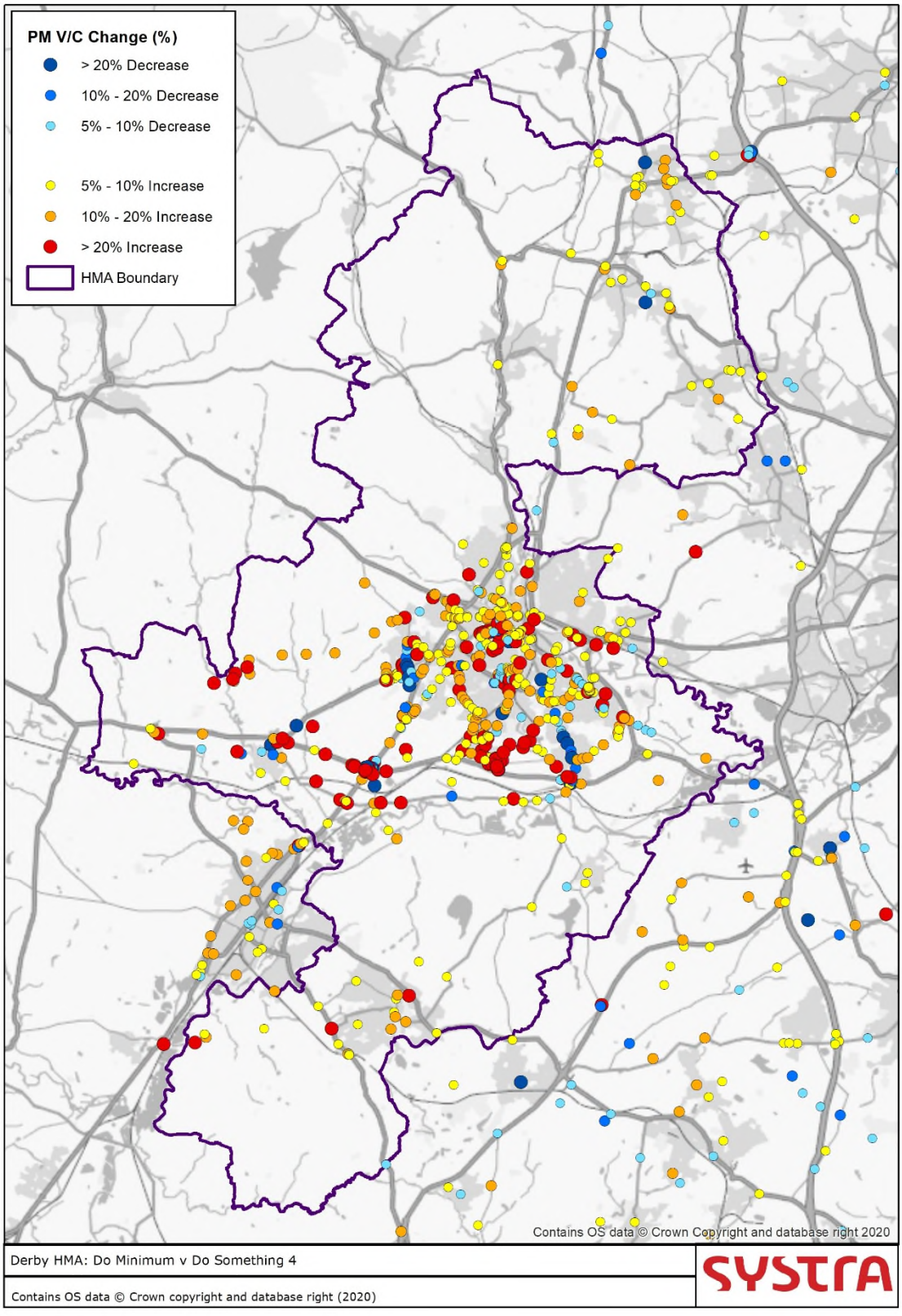


Figure 41. Do Minimum v Do Something 4 Congestion Change – PM Peak



SYSTRA in the UK and Ireland leads the delivery of sustainable infrastructure and environments through specialist engineering and consultancy services.

A world leader in mobility and mass transit, we deliver planning and development consultancy, engineering design, project management, and specialist technical services, that enables the safe and efficient movement of people, goods and essential services.

For more information visit www.systra.com/uk

UK Offices

Birmingham
Alpha Tower, Crowne Plaza, Suffolk Street
Birmingham, B1 1TT
T: +44 (0)121 393 4841

Bristol
33 Colston Avenue, Bristol, BS1 4UA

Edinburgh
Ground Floor, 18 Charlotte Square, Edinburgh, EH2 4DF
T: +44 (0)131 460 1847

Glasgow
Suite 2.1 (2nd Floor), 25 Bothwell Street, Glasgow, G2 6NL
T: +44 (0)141 468 4205

Leeds
100 Wellington Street, Leeds, LS1 1BA
T: +44 (0)113 360 4842

London
One Carey Lane, London, England EC2V 8AE
T: +44 (0)20 3855 0079

Manchester
5th Floor, Four Hardman Street, Spinningfields
Manchester, M3 3HF
Tel: +44 (0)161 504 5026

Newcastle
Block C, First Floor, Portland House, New Bridge Street West,
Newcastle, NE1 8AL
Tel: +44 191 249 3816

Reading
Impact Working at R+, 2 Blagrave Street, Reading, RG1 1AZ
T: +44 118 208 0111

Woking
Dukes Court, Duke Street
Woking, Surrey GU21 5BH
T: +44 (0)1483 357705

York
Meridian House, The Crescent
York, YO24 1AW
Tel: +44 1904 454 600

Ireland Offices

Cork
City Quarter, Lapps Quay, Cork City
Cork, T12 WY42, Republic of Ireland

Dublin
2nd Floor, Riverview House, 21-23 City Quay
Dublin D02 AY91
T: +353 (0) 1 566 2028

Other locations:

France:
Bordeaux, Lille, Lyon, Marseille, Paris

Northern Europe:
Aarhus, Astana, Borås, Bräcke, Copenhagen, Delsbo, Esbjerg, Gävle, Gothenburg, Helsingborg, Horsens, Jönköping, Karlstad, Kristianstad, Laxsjö, Malmö, Norrköping, Östersund, Oslo, Riga, Stockholm, Uppsala, Varberg, Västerås, Wroclaw

Southern Europe & Mediterranean:
Algiers, Baku, Bassano del Grappa, Bilbao, Bucharest, Madrid, Porto, Rabat, Rende, Rome, Sofia, Trento, Turin, Tunis

Middle East:
Cairo, Dubai, Riyadh

Asia Pacific:
Bangkok, Beijing, Brisbane, Delhi, Hanoi, Hong Kong, Jakarta, Manila, Seoul, Shanghai, Singapore, Shenzhen, Taipei

Africa:
Abidjan, Douala, Johannesburg, Kinshasa, Libreville, Nairobi

Australasia
Sydney, Melbourne, Brisbane, Canberra, Perth

Latin America:
Belo Horizonte, Belém, Bogotá, Lima, Medellin, Mexico, Rio de Janeiro, Santiago, São Paulo

North America:
Bloomfield, Chicago, Los Angeles, Montreal, Newark, New-York, Philadelphia, Sacramento, San Francisco, Toronto, Washington

SYSTRA