

SRTM MODELLING – DATA EXTRACTION OF JUNCTIONS IN SOUTHAMPTON BASED ON THE DO SOMETHING 3 SCENARIO



SYSTRA

EASTLEIGH LOCAL PLAN

SRTM MODELLING – DATA EXTRACTION OF JUNCTIONS IN SOUTHAMPTON BASED ON THE DO SOMETHING 3 SCENARIO

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1. INTRODUCTION

1.1 Introduction

1.1.1 Eastleigh Borough Council (EBC) commissioned SYSTRA to undertake strategic modelling using the Solent Transport’s Sub-Regional Traffic Model (SRTM) to test the traffic impacts of a range of development options as part of its Local Plan process.

1.1.2 The SRTM was developed to support a wide-ranging set of interventions across the Solent Transport sub-region, and is specifically required to be capable of:

- Forecasting changes in travel demand, road traffic, public transport patronage and active mode use over time as a result of changing economic conditions, land-use policies and development, and transport improvement and interventions (schemes);
- Testing the impacts of land-use and transport policies and strategies within a relatively short model run time; and
- Testing the impacts of individual transport interventions in the increased detail necessary for preparing submissions for inclusion in funding programmes.

1.1.3 All outputs in this report focus on 2036 forecast conditions. This narrative summarises the key SRTM modelling assumptions and presents the modelling results.

1.2 Study Background

1.2.1 The SRTM was previously used to undertake a Baseline (committed development) and a number of Do Minimum (Local Plan additional development allocations) scenarios for 2036. In July 2017, the emerging Local Plan strategy of a 5,200 dwelling Strategic Growth Option (SGO) site north of Bishopstoke / North East of Fair Oak (SGO sites B and C), alongside provision of a new northern link road between M3 J12 and Fair Oak, via Allbrook was initially proposed.

1.2.2 In December 2017, EBC commissioned SYSTRA to undertake an Interim Do Something SRTM scenario that included a range of highway interventions to support the full Council in making a decision on the SGO site.

1.2.3 On December 11th 2017, the Council agreed that the Local Plan for submission will feature a strategic growth option of around 5,200 dwellings at North Bishopstoke / North East of Fair Oak which will enable achievement of the Council’s housing delivery targets. This is subject to completion of evidence, including a Transport Assessment.

1.2.4 The focus of the study reported in the transport assessment was the impact of potential packages of “off-site” infrastructure schemes to mitigate congestion impacts resulting from the Local Plan. Traffic flow data output from the SRTM also formed inputs to an ecology and air quality assessment that was reported by a third party in a separate document.

1.2.5 Alongside the preferred development option, a number of other development options have been specified by EBC and modelled using the SRTM.

1.2.6 On 25th July 2018, EBC commissioned SYSTRA to undertake further data extraction on defined junctions in Southampton based on the existing Do Something 3 Scenario. The

outputs will be presented in tables highlighting the RFC and indicating which junction arms will have significant or severe impacts compared to the 2036 Baseline. This document also includes flow difference plots.

1.2.7 This document presents the results from the additional data extraction from DS3, but does not provide commentary to the level presented within the Transport Assessment.

2. DATA EXTRACTION

2.1 List of Junctions

2.1.1 The junctions in Southampton for which further data extraction has been undertaken are as follows:

- A33 Bassett Avenue/A27 Bassett Green Road/M3 J14 Rbt (Chilworth Rbt)
- A33 Bassett Avenue/A35 Winchester Road Rbt
- A33 Bassett Avenue/A35 Burgess Road Sgn
- A35 Burgess Rd/High Rd/Stoneham Way Sgn
- Stoneham Way/Stoneham Ln Sgn
- A335 Stoneham Way/A335 Thomas Lewis Way Sgn
- A335 Stoneham Way/A27 Wide Ln/Bassett Green Rd Sgn
- A27 Kanes Hill/A334 Thornhill Park Road Rbt
- A334 Thornhill Park Road/Hinkler Road Sgn

2.2 Assessment Criteria

2.2.1 To provide a consistent measure of the impacts arising from the Local Plan proposals all scenarios previously modelled have been assessed against the criteria below (these criteria match those applied to other SRTM commissions relating to Local Plan TAs). Volume to Capacity (V/C) is reported as a percentage to express the forecast take-up of available highway capacity at individual locations - hence identifying links with a high V/C is a proxy for identifying junctions with capacity issues:

- a junction where the ratio of volume to capacity (V/C) on any approach arm was 85% or more in the Do-Something or Do-More scenario and has increased by 5% or more compared with the Baseline scenario, is considered as experiencing a **significant** impact;
- a junction where the ratio of volume to capacity (V/C) on any approach arm was 95% or more in the Do-Something or Do-More scenario and has increased by 10% or more compared with the Baseline scenario, is considered as experiencing a **severe** impact;
- a junction where the average delay per vehicle in the Do-Something or Do-More scenario was two minutes or more in any period and has increased by one minute or more compared with the Baseline scenario, is considered as experiencing a severe impact.

2.3 Junction Impacts

2.3.1 Table 1 below shows where significant or severe impacts are expected to occur based on the assessment criteria above.

2.3.2 Only one junction is forecast a significant impact (A334 Thornhill Park Road/Hinkler Road Sgn).

Table 1. 2036 Do Something 3 - Locations of Significant or Severe Impact

| LINK/JUNCTION | ID | BASELINE | | DS 3 | |
|--|------------|----------|----------|----------|----------|
| | | AM | PM | AM | PM |
| A33 Bassett Avenue/A27 Bassett Green Road/M3 J14 Rbt (Chilworth Rbt) | 116 | | | | |
| A33 Bassett Avenue/A35 Winchester Road Rbt | 117 | | | | |
| A33 Bassett Avenue/A35 Burgess Road Sgn | 118 | | | | |
| A35 Burgess Rd/High Rd/Stoneham Way Sgn | 119 | | | | |
| Stoneham Way/Stoneham Ln Sgn | 120 | | | | |
| A335 Stoneham Way/A335 Thomas Lewis Way Sgn | 121 | | | | |
| A335 Stoneham Way/A27 Wide Ln/Bassett Green Rd Sgn | 122 | | | | |
| A27 Kanes Hill/A334 Thornhill Park Road Rbt | 123 | | | | |
| A334 Thornhill Park Road/Hinkler Road Sgn | 124 | Sig | | | |
| TOTALS | Sig | 1 | 0 | 0 | 0 |
| | | 1 | | 0 | |
| | Sev | 0 | 0 | 0 | 0 |
| | | 0 | | 0 | |

2.4 Detailed List of Junctions

- 2.4.1 The following tables summarise the AM and PM peak hour performance statistics, by arm, for the Baseline (BL) and the Do Something 3 (DS3) Scenario. Where assessment criteria for “significant” or “severe” impacts are met, these are highlighted in yellow and red respectively.
- 2.4.2 As shown above, the only junction identified with a significant impact is forecast in the AM peak for the westbound A334 Thornhill Park Road approach to the signalised junction.

Bassett Avenue/A27 Bassett Green Road/M3 J14 (Chilworth Roundabout)

Table 2. Bassett Avenue/A27 Bassett Green Road/M3 J14 (Chilworth Roundabout) AM Peak Junction Performance

| AM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|------------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| SB A27 | 106 | 106 | 78 | 90 | 110 | 123 |
| WB A27 Basset Green Rd | 108 | 108 | 11 | 10 | 250 | 259 |
| NB A33 Bassett Ave | 105 | 105 | 62 | 62 | 102 | 101 |

Table 3. Bassett Avenue/A27 Bassett Green Road/M3 J14 (Chilworth Roundabout) PM Peak Junction Performance

| PM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|------------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| SB A27 | 106 | 106 | 77 | 83 | 117 | 126 |
| WB A27 Basset Green Rd | 100 | 100 | 7 | 7 | 78 | 83 |
| NB A33 Bassett Ave | 100 | 100 | 7 | 6 | 17 | 15 |

A33 Bassett Avenue/A35 Winchester Road

Table 4. A33 Bassett Avenue/A35 Winchester Road AM Peak Junction Performance

| AM PEAK (ARM) | V/C (%) | | AVE (PCU) | | QUEUE | | DELAY (S/PCU) | |
|----------------------|---------|-----|--------------|-----|-------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 | BL | DS3 |
| SB A33 Bassett Ave | 110 | 110 | 89 | 90 | 185 | 187 | | |
| NB A33 Bassett Ave | 99 | 97 | 6 | 5 | 22 | 18 | | |
| EB A35 Winchester Rd | 111 | 109 | 58 | 50 | 234 | 194 | | |

Table 5. A33 Bassett Avenue/A35 Winchester Road PM Peak Junction Performance

| PM PEAK (ARM) | V/C (%) | | AVE (PCU) | | QUEUE | | DELAY (S/PCU) | |
|----------------------|---------|-----|--------------|-----|-------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 | BL | DS3 |
| SB A33 Bassett Ave | 107 | 107 | 65 | 68 | 142 | 148 | | |
| NB A33 Bassett Ave | 75 | 75 | 1 | 1 | 8 | 8 | | |
| EB A35 Winchester Rd | 101 | 101 | 15 | 16 | 52 | 55 | | |

A33 Bassett Avenue/A35 Burgess Road

Table 6. A33 Bassett Avenue/A35 Burgess Road AM Peak Junction Performance

| AM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|--------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| SB A33 Bassett Ave | 79 | 76 | 10 | 10 | 47 | 46 |
| WB A35 Burgess Rd | 102 | 103 | 16 | 17 | 173 | 182 |
| NB The Avenue | 98 | 98 | 13 | 13 | 65 | 66 |
| EB A35 Burgess Rd | 108 | 106 | 29 | 26 | 278 | 240 |

Table 7. A33 Bassett Avenue/A35 Burgess Road PM Peak Junction Performance

| PM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|--------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| SB A33 Bassett Ave | 59 | 58 | 7 | 7 | 41 | 41 |
| WB A35 Burgess Rd | 99 | 100 | 8 | 8 | 124 | 133 |
| NB The Avenue | 99 | 99 | 12 | 12 | 74 | 74 |
| EB A35 Burgess Rd | 97 | 97 | 9 | 9 | 99 | 102 |

A35 Burgess Rd/High Rd/Stoneham Way

Table 8. A35 Burgess Rd/High Rd/Stoneham Way AM Peak Junction Performance

| AM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|-------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| SB Stoneham Way | 21 | 20 | 2 | 2 | 16 | 16 |
| NB High Rd | 42 | 45 | 2 | 2 | 44 | 44 |
| EB A35 Burgess Rd | 46 | 45 | 2 | 2 | 18 | 18 |

Table 9. A35 Burgess Rd/High Rd/Stoneham Way PM Peak Junction Performance

| PM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|-------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| SB Stoneham Way | 19 | 20 | 1 | 1 | 8 | 8 |
| NB High Rd | 28 | 29 | 1 | 1 | 54 | 54 |
| EB A35 Burgess Rd | 40 | 39 | 2 | 2 | 10 | 10 |

Stoneham Way/Stoneham Ln

Table 10. Stoneham Way/Stoneham Ln AM Peak Junction Performance

| AM PEAK (ARM) | V/C (%) | | AVE (PCU) | | QUEUE | | DELAY (S/PCU) | |
|------------------|---------|-----|-----------|-----|-------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 | BL | DS3 |
| SB Stoneham Way | 17 | 17 | 2 | 2 | 20 | 20 | | |
| NB Stoneham Way | 47 | 47 | 5 | 5 | 25 | 26 | | |
| EB Stoneham Lane | 46 | 47 | 3 | 3 | 43 | 43 | | |

Table 11. Stoneham Way/Stoneham Ln PM Peak Junction Performance

| PM PEAK (ARM) | V/C (%) | | AVE (PCU) | | QUEUE | | DELAY (S/PCU) | |
|------------------|---------|-----|-----------|-----|-------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 | BL | DS3 |
| SB Stoneham Way | 18 | 19 | 2 | 2 | 18 | 19 | | |
| NB Stoneham Way | 36 | 36 | 3 | 3 | 21 | 21 | | |
| EB Stoneham Lane | 34 | 36 | 2 | 2 | 44 | 44 | | |

A335 Stoneham Way/A335 Thomas Lewis Way

Table 12. A335 Stoneham Way/A335 Thomas Lewis Way AM Peak Junction Performance

| AM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|--------------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| WB A335 Stoneham Way | 106 | 106 | 51 | 52 | 168 | 171 |
| NB A335 Thomas Lewis Way | 70 | 70 | 10 | 10 | 65 | 64 |
| EB Stoneham Way | 26 | 27 | 2 | 2 | 11 | 11 |

Table 13. A335 Stoneham Way/A335 Thomas Lewis Way PM Peak Junction Performance

| PM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|--------------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| WB A335 Stoneham Way | 102 | 103 | 23 | 26 | 104 | 111 |
| NB A335 Thomas Lewis Way | 58 | 59 | 8 | 8 | 42 | 43 |
| EB Stoneham Way | 25 | 24 | 2 | 2 | 11 | 11 |

A335 Stoneham Way/A27 Wide Ln/Bassett Green Rd

Table 14. A335 Stoneham Way/A27 Wide Ln/Bassett Green Rd AM Peak Junction Performance

| AM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|-------------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| SB A335 Stoneham Way | 89 | 90 | 8 | 8 | 30 | 31 |
| WB A27 Wide Ln | 81 | 79 | 4 | 4 | 36 | 35 |
| NB A335 Stoneham Way | 97 | 99 | 20 | 15 | 74 | 72 |
| EB A27 Bassett Green Rd | 22 | 21 | 1 | 1 | 18 | 17 |

Table 15. A335 Stoneham Way/A27 Wide Ln/Bassett Green Rd PM Peak Junction Performance

| PM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|-------------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| SB A335 Stoneham Way | 98 | 98 | 13 | 12 | 59 | 59 |
| WB A27 Wide Ln | 63 | 64 | 3 | 3 | 30 | 30 |
| NB A335 Stoneham Way | 96 | 90 | 9 | 9 | 51 | 34 |
| EB A27 Bassett Green Rd | 24 | 23 | 1 | 1 | 17 | 17 |

A27 Kanes Hill/A334 Thornhill Park Road

Table 16. A27 Kanes Hill/A334 Thornhill Park Road AM Peak Junction Performance

| AM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|-------------------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| SB Approach A27 Moorhill Rd | 74 | 77 | 9 | 8 | 42 | 35 |
| WB Approach Charles Watts Way | 49 | 49 | 23 | 22 | 119 | 115 |
| WB Approach Comines Way | 32 | 34 | 1 | 1 | 9 | 9 |
| NB Approach A27 Kanes Hill | 75 | 65 | 2 | 2 | 11 | 11 |
| EB Approach Thornhill Park Rd | 102 | 98 | 25 | 9 | 77 | 33 |

Table 17. A27 Kanes Hill/A334 Thornhill Park Road PM Peak Junction Performance

| PM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|-------------------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| SB Approach A27 Moorhill Rd | 67 | 72 | 6 | 8 | 29 | 33 |
| WB Approach Charles Watts Way | 66 | 67 | 39 | 40 | 178 | 181 |
| WB Approach Comines Way | 29 | 33 | 0 | 0 | 8 | 8 |

| PM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|-------------------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| NB Approach A27 Kanes Hill | 57 | 58 | 2 | 3 | 11 | 15 |
| EB Approach Thornhill Park Rd | 84 | 85 | 9 | 10 | 30 | 32 |

A334 Thornhill Park Road/Hinkler Road

Table 18. A334 Thornhill Park Road/Hinkler Road AM Peak Junction Performance

| AM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|---------------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| NB Hinkler Rd | 99 | 101 | 0 | 4 | 99 | 124 |
| EB A334 Thornhill Park Rd | 96 | 100 | 2 | 3 | 49 | 72 |
| WB A334 Thornhill Park Rd | 87 | 96 | 9 | 3 | 25 | 42 |

Table 19. A334 Thornhill Park Road/Hinkler Road PM Peak Junction Performance

| PM PEAK (ARM) | V/C (%) | | AVE QUEUE (PCU) | | DELAY (S/PCU) | |
|---------------------------|---------|-----|--------------------|-----|---------------|-----|
| | BL | DS3 | BL | DS3 | BL | DS3 |
| NB Hinkler Rd | 87 | 88 | 1 | 1 | 61 | 63 |
| EB A334 Thornhill Park Rd | 95 | 95 | 3 | 3 | 38 | 40 |
| WB A334 Thornhill Park Rd | 83 | 85 | 2 | 2 | 18 | 20 |

2.5 Highway Flow Difference Plots – Southampton

2.5.1 Figures 1 and 2 show the change in traffic flow (PCUs) in the AM and PM peak hours between the Baseline and the Do Something 3 scenario, at an overall district level for Southampton.

Figure 1. 2036 DS3 (DPP) vs Baseline (DOP) Flow Difference – AM Peak

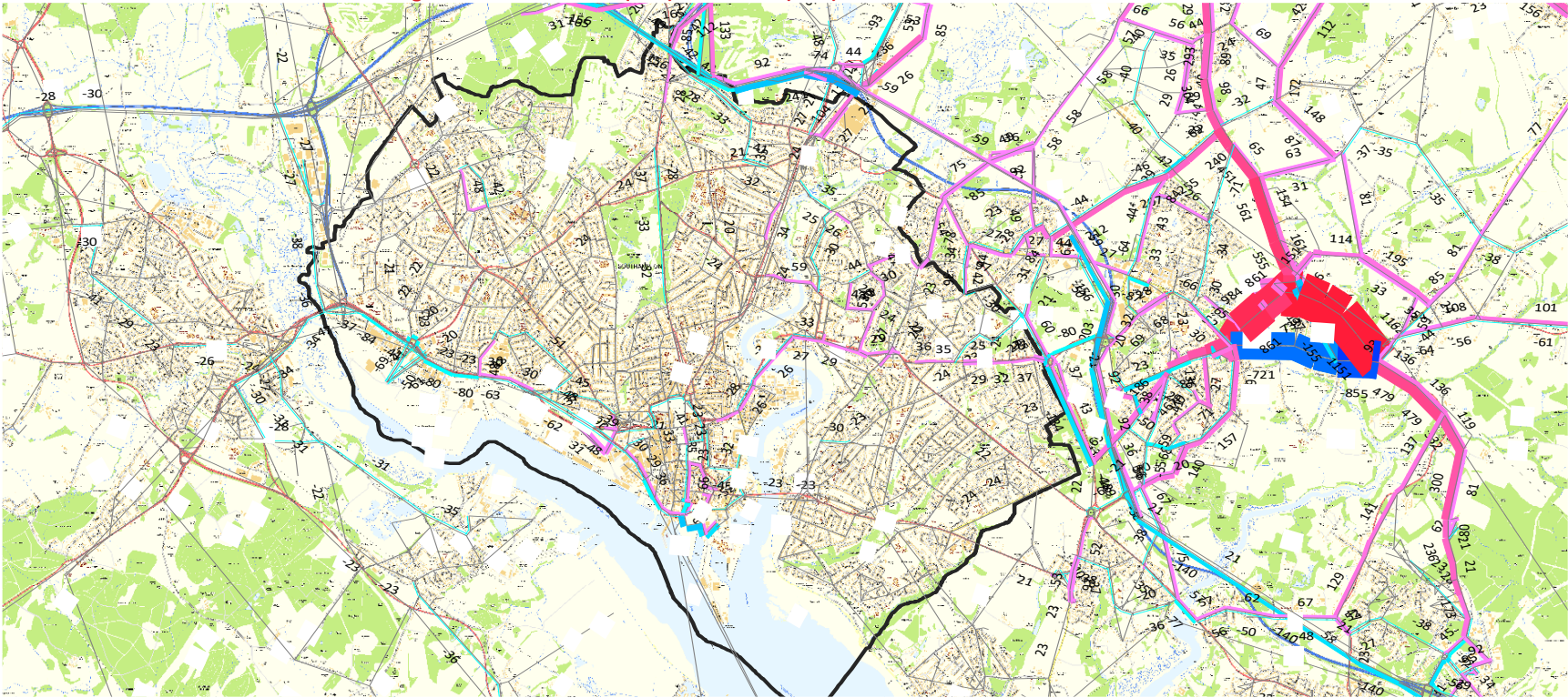


Figure 2. 2036 DS3 (DPP) vs Baseline (DOP) Flow Difference – PM Peak



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The SYSTRA logo is rendered in a bold, red, sans-serif typeface. The letters are thick and closely spaced, with a distinctive design where the 'S' and 'Y' are particularly prominent and stylized.