



Lower Thames Crossing

7.9 Transport Assessment Appendix B - Journey Time Changes 2030 (Tracked changes version)

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Lower Thames Crossing

7.9 Transport Assessment

Appendix B - Journey Time Changes 2030 (Tracked changes version)

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1 Journey Times 2030

1.1 DM vs DS journey time comparisons

1.1.1 An important metric used to measure the Project impact is journey times. These can be monitored in two separate ways:

- a. **Link Based Impacts** – this is where the Project attracts traffic away from or on to specific corridors leading to either reduced or additional congestion which is reflected in the journey time along these corridors.
- b. **Route Based Impacts** – this is where the Project provides an alternative route through the network for the same origin to destination movement.

1.1.1 Link-based impacts have been assessed by comparing journey times along key strategic corridors. The corridors analysed are shown diagrammatically in Plate 1.1. The journey times are presented in Table 1.1 to Table 1.3 by time period. A more detailed analysis of link-based journey times is provided in Annex C.

Plate 1.1 Link based journey time routes for comparison

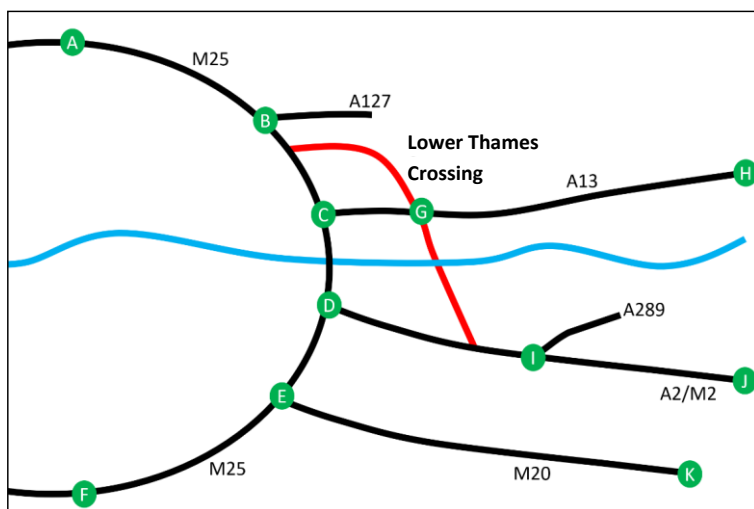


Table 1.1 Link based journey time scenario comparison (2030 core DM vs DS) AM peak

Road	Movement	From	To	Do Minimum			Do Something			Difference			Difference (%)		
				Distance (km)	Time (mins)	Av. speed (kph)	Distance (km)	Time (mins)	Av. speed (kph)	Distance (km)	Time (mins)	Av. speed (kph)	Distance	Time	Av. speed
M25 clockwise	A to B	M25 J26	M25 J29	23.5	16.2	87.0	23.5	16.5	85.3	0.0	0.3	-1.7	-0.1%	1.8%	-1.9%
	B to D	M25 J29	M25 J2	18.8	18.6	60.8	18.9	14.3	79.2	0.1	-4.3	18.4	0.3%	-23.1%	30.3%
	D to F	M25 J2	M25 J7	37.7	28.4	79.8	37.7	29.9	75.8	0.0	1.5	-4.1	0.0%	5.4%	-5.1%
M25 anti-clockwise	F to D	M25 J7	M25 J2	38.0	24.7	92.5	38.0	24.9	91.6	0.0	0.3	-0.9	0.0%	1.0%	-1.0%
	D to B	M25 J2	M25 J29	18.7	19.2	58.4	18.8	13.5	83.8	0.1	-5.7	25.4	0.6%	-29.9%	43.5%
	B to A	M25 J29	M25 J26	23.2	16.5	84.2	23.1	18.8	73.8	-0.1	2.3	-10.4	-0.3%	13.7%	-12.3%
A13 eastbound (EB)	C to G	M25 J30	A1089	5.2	4.8	64.6	5.3	4.1	76.3	0.0	-0.7	11.6	0.9%	-14.5%	18.0%
	G to H	A1089	A130	15.7	11.6	81.4	15.7	12.6	74.6	-0.1	1.0	-6.9	-0.4%	8.8%	-8.4%
A13 westbound (WB)	H to G	A130	A1089	15.3	14.5	63.3	15.2	15.5	58.5	-0.1	1.1	-4.7	-0.7%	7.4%	-7.5%
	G to C	A1089	M25 J30	5.5	8.6	38.5	5.6	5.6	59.4	0.1	-2.9	20.9	1.6%	-34.1%	54.2%
A2/M2 EB	D to I	M25 J2	M2 J1	15.3	9.2	100.1	15.3	8.8	104.6	0.1	-0.4	4.5	0.5%	-3.8%	4.5%
	I to J	M2 J1	M2 J4	14.7	8.4	105.5	14.7	8.6	102.6	0.0	0.2	-2.9	0.0%	2.8%	-2.7%
A2/M2 WB	J to I	M2 J4	M2 J1	15.2	9.0	101.0	15.1	9.7	92.9	-0.1	0.7	-8.1	-0.7%	7.9%	-8.0%
	I to D	M2 J1	M25 J2	14.8	17.5	50.6	14.8	12.7	70.1	0.1	-4.8	19.4	0.6%	-27.3%	38.4%
M20 EB	E to K	M25 J3	M20 J8	35.3	20.1	105.3	35.3	19.9	106.6	0.0	-0.3	1.3	0.0%	-1.2%	1.3%
M20 WB	K to E	M20 J8	M25 J3	35.3	24.1	88.1	35.3	22.4	94.5	0.0	-1.6	6.4	0.0%	-6.8%	7.3%

Table 1.2 Link based journey time scenario comparison (2030 core DM vs DS) inter-peak

Road	Movement	From	To	Do Minimum			Do Something			Difference			Difference (%)		
				Distance (km)	Time (mins)	Av. speed (kph)	Distance (km)	Time (mins)	Av. speed (kph)	Distance (km)	Time (mins)	Av. speed (kph)	Distance	Time	Av. speed
M25 clockwise	A to B	M25 J26	M25 J29	23.5	15.4	91.6	23.5	15.7	89.7	0.0	0.3	-1.9	-0.1%	2.1%	-2.1%
	B to D	M25 J29	M25 J2	18.8	13.3	84.7	18.9	12.2	93.1	0.1	-1.2	8.4	0.3%	-8.8%	9.9%
	D to F	M25 J2	M25 J7	37.7	23.4	96.8	37.7	23.3	97.0	0.0	-0.1	0.2	0.0%	-0.2%	0.2%
M25 anti-clockwise	F to D	M25 J7	M25 J2	38.0	24.0	95.1	38.0	24.2	94.3	0.0	0.2	-0.9	0.0%	0.9%	-0.9%
	D to B	M25 J2	M25 J29	18.7	17.3	64.9	18.8	13.0	86.7	0.1	-4.3	21.7	0.6%	-24.6%	33.5%
	B to A	M25 J29	M25 J26	23.2	14.3	97.6	23.1	15.1	92.1	-0.1	0.8	-5.5	-0.3%	5.6%	-5.6%
A13 EB	C to G	M25 J30	A1089	5.2	5.0	62.9	5.3	4.2	74.8	0.0	-0.8	11.9	0.9%	-15.1%	18.9%
	G to H	A1089	A130	15.7	11.1	85.1	15.7	11.7	80.1	-0.1	0.6	-5.0	-0.4%	5.9%	-5.9%
A13 WB	H to G	A130	A1089	15.3	11.0	83.1	15.2	11.7	78.0	-0.1	0.6	-5.2	-0.7%	5.9%	-6.2%
	G to C	A1089	M25 J30	5.5	5.7	58.3	5.6	4.6	73.0	0.1	-1.1	14.7	1.6%	-18.9%	25.2%
A2/M2 EB	D to I	M25 J2	M2 J1	15.3	9.2	100.1	15.3	8.8	104.8	0.1	-0.4	4.7	0.5%	-4.0%	4.7%
	I to J	M2 J1	M2 J4	14.7	8.2	107.4	14.7	8.3	105.9	0.0	0.1	-1.5	0.0%	1.4%	-1.4%
A2/M2 WB	J to I	M2 J4	M2 J1	15.2	8.4	107.9	15.1	8.6	105.3	-0.1	0.2	-2.6	-0.7%	1.8%	-2.4%
	I to D	M2 J1	M25 J2	14.8	10.6	83.4	14.8	8.8	100.8	0.1	-1.8	17.4	0.6%	-16.8%	20.9%
M20 EB	E to K	M25 J3	M20 J8	35.3	19.8	107.0	35.3	19.7	107.8	0.0	-0.2	0.8	0.0%	-0.8%	0.8%
M20 WB	K to E	M20 J8	M25 J3	35.3	20.0	106.1	35.3	19.7	107.6	0.0	-0.3	1.5	0.0%	-1.4%	1.4%

Note: Red text indicates negative values

Table 1.3 Link based journey time scenario comparison (2030 core DM vs DS) PM peak

Road	Movement	From	To	Do Minimum			Do Something			Difference			Difference (%)		
				Distance (km)	Time (mins)	Av. speed (kph)	Distance (km)	Time (mins)	Av. speed (kph)	Distance (km)	Time (mins)	Av. speed (kph)	Distance	Time	Av. speed
M25 clockwise	A to B	M25 J26	M25 J29	23.5	17.0	82.9	23.5	18.0	78.2	0.0	1.0	-4.8	-0.1%	6.0%	-5.7%
	B to D	M25 J29	M25 J2	18.8	15.8	71.3	18.9	12.8	88.6	0.1	-3.1	17.4	0.3%	-19.4%	24.4%
	D to F	M25 J2	M25 J7	37.7	23.7	95.6	37.7	23.9	94.8	0.0	0.2	-0.7	0.0%	0.8%	-0.8%
M25 anti-clockwise	F to D	M25 J7	M25 J2	38.0	27.3	83.5	38.0	27.9	81.7	0.0	0.6	-1.7	0.0%	2.1%	-2.1%
	D to B	M25 J2	M25 J29	18.7	17.5	64.0	18.8	13.3	84.6	0.1	-4.2	20.6	0.6%	-23.9%	32.2%
	B to A	M25 J29	M25 J26	23.2	14.2	97.9	23.1	15.0	92.8	-0.1	0.8	-5.2	-0.3%	5.3%	-5.3%
A13 EB	C to G	M25 J30	A1089	5.2	7.7	40.5	5.3	5.4	58.4	0.0	-2.3	17.9	0.9%	-30.0%	44.2%
	G to H	A1089	A130	15.7	12.8	73.5	15.7	14.2	66.4	-0.1	1.3	-7.1	-0.4%	10.3%	-9.7%
A13 WB	H to G	A130	A1089	15.3	11.0	83.4	15.2	13.0	70.0	-0.1	2.0	-13.3	-0.7%	18.2%	-16.0%
	G to C	A1089	M25 J30	5.5	6.6	50.3	5.6	4.7	70.7	0.1	-1.8	20.4	1.6%	-27.7%	40.6%
A2/M2 EB	D to I	M25 J2	M2 J1	15.3	14.1	65.0	15.3	10.8	85.5	0.1	-3.3	20.5	0.5%	-23.6%	31.6%
	I to J	M2 J1	M2 J4	14.7	9.2	95.6	14.7	10.8	81.3	0.0	1.6	-14.3	0.0%	17.5%	-14.9%
A2/M2 WB	J to I	M2 J4	M2 J1	15.2	8.7	104.6	15.1	8.9	101.6	-0.1	0.2	-3.0	-0.7%	2.3%	-2.9%
	I to D	M2 J1	M25 J2	14.8	12.6	70.1	14.8	10.1	88.2	0.1	-2.5	18.1	0.6%	-20.1%	25.8%
M20 EB	E to K	M25 J3	M20 J8	35.3	24.3	87.2	35.3	23.2	91.2	0.0	-1.1	4.0	0.0%	-4.4%	4.6%
M20 WB	K to E	M20 J8	M25 J3	35.3	20.2	104.8	35.3	19.9	106.5	0.0	-0.3	1.7	0.0%	-1.6%	1.6%

Note: Red text indicates negative values

1.1.2 Route-based impacts have been analysed by selecting a series of cross-river origin to destination movements, some of which are considered likely to have additional routing options, not related to increases or reductions in capacity on existing roads, with the introduction of the Project. Some of the movements do switch route to use the Project rather than the Dartford Crossing, some do not. Both of these types of movement are important to present as they demonstrate the range and scale of impact of the Project.

1.1.3 Table 1.4 to

<u>1.1.4</u>	<u>12</u> <u>to</u> <u>7</u>	<u>Rainham</u>	<u>Bexley</u>	<u>46.0</u>	<u>38.6</u>	<u>71.6</u>	<u>46.0</u>	<u>37.0</u>	<u>74.7</u>	<u>0.0</u>	<u>-1.6</u>	<u>3.1</u>	<u>0.0%</u>	<u>-4.2%</u>	<u>4.3%</u>
<u>12 to 8</u>		<u>Rainham</u>	<u>Godstone</u>	<u>66.3</u>	<u>50.2</u>	<u>79.3</u>	<u>66.3</u>	<u>50.2</u>	<u>79.3</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0%</u>	<u>0.0%</u>	<u>0.0%</u>
<u>12 to 9</u>		<u>Rainham</u>	<u>Southfleet</u>	<u>33.9</u>	<u>27.8</u>	<u>73.2</u>	<u>33.9</u>	<u>27.0</u>	<u>75.3</u>	<u>0.0</u>	<u>-0.8</u>	<u>2.1</u>	<u>0.0%</u>	<u>-2.9%</u>	<u>2.9%</u>
<u>12 to 10</u>		<u>Rainham</u>	<u>Maidstone</u>	<u>23.5</u>	<u>24.6</u>	<u>57.3</u>	<u>23.5</u>	<u>24.9</u>	<u>56.7</u>	<u>0.0</u>	<u>0.3</u>	<u>-0.6</u>	<u>0.0%</u>	<u>1.1%</u>	<u>-1.1%</u>
<u>12 to 11</u>		<u>Rainham</u>	<u>Rochester</u>	<u>13.7</u>	<u>21.4</u>	<u>38.4</u>	<u>13.7</u>	<u>21.5</u>	<u>38.2</u>	<u>0.0</u>	<u>0.1</u>	<u>-0.2</u>	<u>-0.1%</u>	<u>0.3%</u>	<u>-0.4%</u>

1.1.5 Table 1.9 provide the With and Without Scheme journey distances, times and average speeds for a selection of these movements for southbound and northbound movements. The locations are shown first in Plate 1.2.

1.1.6 It is important to note that the values presented in Table 1.4 to

<u>1.1.7</u>	<u>12</u>														
	<u>to</u>	<u>Rainham</u>	<u>Bexley</u>	<u>46.0</u>	<u>38.6</u>	<u>71.6</u>	<u>46.0</u>	<u>37.0</u>	<u>74.7</u>	<u>0.0</u>	<u>-1.6</u>	<u>3.1</u>	<u>0.0%</u>	<u>-4.2%</u>	<u>4.3%</u>
	<u>Z</u>														
<u>12 to 8</u>	<u>Rainham</u>	<u>Godstone</u>	<u>66.3</u>	<u>50.2</u>	<u>79.3</u>	<u>66.3</u>	<u>50.2</u>	<u>79.3</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0%</u>	<u>0.0%</u>	<u>0.0%</u>	
<u>12 to 9</u>	<u>Rainham</u>	<u>Southfleet</u>	<u>33.9</u>	<u>27.8</u>	<u>73.2</u>	<u>33.9</u>	<u>27.0</u>	<u>75.3</u>	<u>0.0</u>	<u>-0.8</u>	<u>2.1</u>	<u>0.0%</u>	<u>-2.9%</u>	<u>2.9%</u>	
<u>12 to 10</u>	<u>Rainham</u>	<u>Maidstone</u>	<u>23.5</u>	<u>24.6</u>	<u>57.3</u>	<u>23.5</u>	<u>24.9</u>	<u>56.7</u>	<u>0.0</u>	<u>0.3</u>	<u>-0.6</u>	<u>0.0%</u>	<u>1.1%</u>	<u>-1.1%</u>	
<u>12 to 11</u>	<u>Rainham</u>	<u>Rochester</u>	<u>13.7</u>	<u>21.4</u>	<u>38.4</u>	<u>13.7</u>	<u>21.5</u>	<u>38.2</u>	<u>0.0</u>	<u>0.1</u>	<u>-0.2</u>	<u>-0.1%</u>	<u>0.3%</u>	<u>-0.4%</u>	

1.1.8 Table 1.9, and subsequent route-based journey time analysis, are extracted from the LTAM forest skim matrices. This means that they are values that have been averaged over all assigned paths in the assignment model. This can lead to some very small differences in, for example, the distances of the average path. Red values within these tables indicate a negative value, in this case a reduction in journey time.

Plate 1.2 Route based journey time comparison

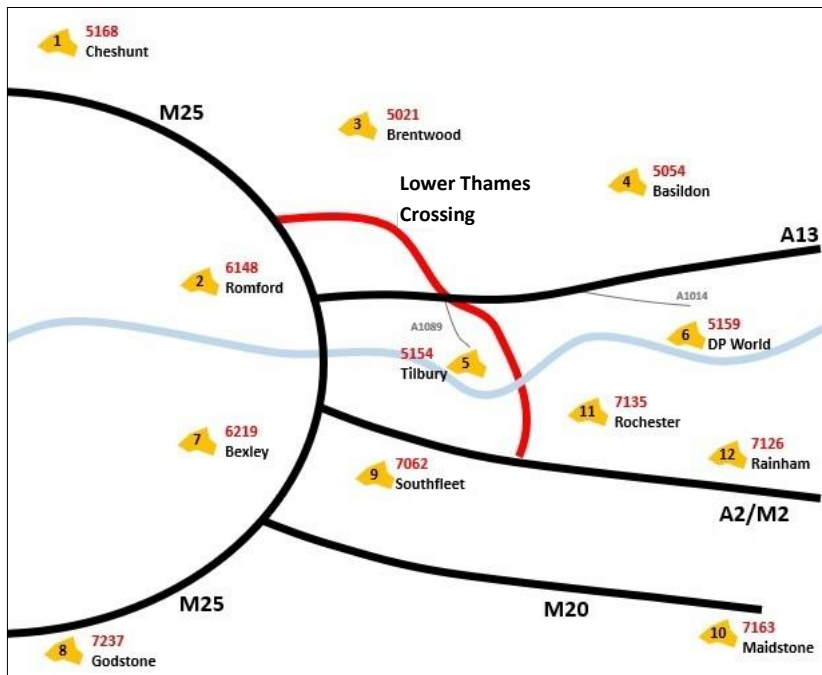


Table 1.4 Route based journey time comparison north to south movements (2030 core DM vs DS) AM peak

Movement	From	To	DM			DS			Difference			Difference %age		
			Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)
1 to 2	Cheshunt	Romford	40.1	43.5	55.2	40.0	44.0	54.6	0.0	0.5	-0.6	0.0%	1.2%	-1.2%
1 to 3	Cheshunt	Brentwood	35.3	36.1	58.5	35.2	36.7	57.6	0.0	0.6	-0.9	0.0%	1.6%	-1.5%
1 to 4	Cheshunt	Basildon	51.0	51.1	59.9	51.0	51.6	59.3	0.0	0.5	-0.6	0.0%	1.0%	-1.0%
1 to 5	Cheshunt	Tilbury Port	56.4	51.3	66.1	56.5	50.5	67.0	0.0	-0.7	1.0	0.0%	-1.4%	1.5%
1 to 6	Cheshunt	DP World	60.3	51.0	71.0	56.9	47.4	72.1	-3.3	-3.6	1.2	-5.5%	-7.1%	1.6%
1 to 7	Cheshunt	Bexley	61.8	60.2	61.7	61.8	57.7	64.3	0.0	-2.4	2.6	0.0%	-4.1%	4.3%
1 to 8	Cheshunt	Godstone	91.5	78.9	69.6	91.5	76.2	72.1	0.0	-2.8	2.5	0.0%	-3.5%	3.6%
1 to 9	Cheshunt	Southfleet	62.1	55.9	66.7	62.2	51.6	72.3	0.0	-4.4	5.7	0.0%	-7.8%	8.5%
1 to 10	Cheshunt	Maidstone	88.2	73.4	72.0	82.9	70.1	71.0	-5.3	-3.4	-1.0	-6.0%	-4.6%	-1.5%
1 to 11	Cheshunt	Rochester	74.4	72.1	62.0	70.2	62.9	67.0	-4.2	-9.1	5.0	-5.6%	-12.7%	8.1%
1 to 12	Cheshunt	Rainham	91.4	77.6	70.7	87.3	68.3	76.6	-4.1	-9.2	5.9	-4.5%	-11.9%	8.4%
2 to 1	Romford	Cheshunt	39.9	43.9	54.6	32.9	47.3	41.7	-7.1	3.4	-12.9	-17.7%	7.7%	-23.6%
2 to 3	Romford	Brentwood	11.5	25.3	27.3	11.5	25.6	26.9	-0.1	0.3	-0.5	-0.5%	1.3%	-1.7%
2 to 4	Romford	Basildon	24.7	34.4	43.0	24.6	34.1	43.2	-0.1	-0.3	0.2	-0.4%	-0.9%	0.4%
2 to 5	Romford	Tilbury Port	27.6	39.8	41.6	27.6	38.6	42.9	0.0	-1.2	1.3	0.0%	-2.9%	3.0%
2 to 6	Romford	DP World	31.5	39.5	47.8	30.7	35.0	52.6	-0.8	-4.5	4.8	-2.4%	-11.3%	10.0%
2 to 7	Romford	Bexley	31.9	50.7	37.7	35.6	45.4	47.1	3.7	-5.4	9.4	11.7%	-10.6%	25.0%
2 to 8	Romford	Godstone	61.5	69.5	53.1	65.3	63.8	61.4	3.7	-5.7	8.2	6.1%	-8.2%	15.5%

2 to 9	Romford	Southfleet	32.2	46.5	41.5	35.9	39.2	55.0	3.7	-7.3	13.4	11.6%	-15.7%	32.4%
2 to 10	Romford	Maidstone	58.2	64.0	54.5	56.6	57.7	58.9	-1.6	-6.3	4.3	-2.7%	-9.9%	7.9%
2 to 11	Romford	Rochester	44.5	62.7	42.6	44.0	50.6	52.2	-0.5	-12.1	9.6	-1.1%	-19.3%	22.5%
2 to 12	Romford	Rainham	61.4	68.1	54.1	61.1	56.0	65.4	-0.4	-12.1	11.3	-0.6%	-17.8%	20.9%
3 to 1	Brentwood	Cheshunt	35.5	42.5	50.1	35.5	42.2	50.5	0.0	-0.3	0.4	0.0%	-0.7%	0.7%
3 to 2	Brentwood	Romford	12.6	24.8	30.4	12.6	24.6	30.6	0.0	-0.2	0.3	0.0%	-0.8%	0.9%
3 to 4	Brentwood	Basildon	16.9	19.3	52.5	16.7	19.3	51.9	-0.2	0.0	-0.6	-1.0%	0.2%	-1.1%
3 to 5	Brentwood	Tilbury Port	23.5	28.5	49.4	23.4	27.8	50.4	-0.1	-0.7	1.0	-0.5%	-2.5%	2.1%
3 to 6	Brentwood	DP World	23.4	24.4	57.6	23.4	25.2	55.8	0.0	0.8	-1.8	0.0%	3.2%	-3.1%
3 to 7	Brentwood	Bexley	33.0	42.1	47.0	32.9	38.3	51.6	-0.1	-3.8	4.6	-0.3%	-9.1%	9.7%
3 to 8	Brentwood	Godstone	62.7	60.9	61.8	62.6	56.7	66.2	-0.1	-4.2	4.4	-0.1%	-6.8%	7.2%
3 to 9	Brentwood	Southfleet	33.3	37.9	52.8	33.2	32.1	62.1	-0.1	-5.8	9.3	-0.3%	-15.2%	17.6%
3 to 10	Brentwood	Maidstone	59.3	55.4	64.2	53.9	50.6	63.9	-5.4	-4.8	-0.3	-9.1%	-8.6%	-0.5%
3 to 11	Brentwood	Rochester	45.6	54.0	50.6	41.3	43.5	57.0	-4.3	-10.5	6.3	-9.4%	-19.5%	12.5%
3 to 12	Brentwood	Rainham	62.6	59.5	63.1	58.4	48.9	71.6	-4.2	-10.6	8.5	-6.7%	-17.8%	13.5%
4 to 1	Basildon	Cheshunt	50.9	54.5	56.1	50.9	56.6	54.0	0.0	2.1	-2.1	0.0%	3.9%	-3.8%
4 to 2	Basildon	Romford	23.9	38.9	36.8	23.9	39.5	36.2	0.0	0.6	-0.6	0.0%	1.6%	-1.6%
4 to 3	Basildon	Brentwood	16.7	29.0	34.6	16.7	29.4	34.2	0.0	0.4	-0.4	0.0%	1.2%	-1.2%
4 to 5	Basildon	Tilbury Port	19.0	28.0	40.8	21.7	31.7	41.0	2.6	3.7	0.3	13.8%	13.0%	0.7%
4 to 6	Basildon	DP World	13.3	17.8	44.9	11.4	20.3	33.8	-1.9	2.4	-11.0	-14.4%	13.6%	-24.6%
4 to 7	Basildon	Bexley	37.1	52.5	42.5	39.6	49.4	48.1	2.5	-3.0	5.6	6.7%	-5.8%	13.2%
4 to 8	Basildon	Godstone	66.8	71.2	56.3	69.3	67.9	61.3	2.5	-3.3	5.0	3.7%	-4.7%	8.8%
4 to 9	Basildon	Southfleet	37.5	48.2	46.6	34.7	38.4	54.3	-2.7	-9.9	7.7	-7.3%	-20.5%	16.6%

4 to 10	Basildon	Maidstone	63.5	65.8	57.9	48.9	54.7	53.7	-14.5	-11.1	-4.2	-22.9%	-16.8%	-7.3%
4 to 11	Basildon	Rochester	49.7	64.4	46.4	36.3	47.6	45.8	-13.4	-16.8	-0.6	-27.0%	-26.1%	-1.2%
4 to 12	Basildon	Rainham	66.7	69.9	57.3	53.4	53.0	60.5	-13.3	-16.9	3.1	-20.0%	-24.2%	5.5%
5 to 1	Tilbury Port	Cheshunt	57.0	50.8	67.3	53.4	45.8	70.0	-3.6	-5.0	2.7	-6.3%	-9.9%	4.0%
5 to 2	Tilbury Port	Romford	28.7	38.4	44.8	26.4	30.5	52.1	-2.2	-7.9	7.3	-7.7%	-20.6%	16.3%
5 to 3	Tilbury Port	Brentwood	24.5	29.9	49.2	24.9	27.2	55.0	0.4	-2.7	5.8	1.8%	-9.0%	11.9%
5 to 4	Tilbury Port	Basildon	19.9	18.1	66.2	19.9	19.4	61.6	0.0	1.3	-4.6	0.0%	7.4%	-6.9%
5 to 6	Tilbury Port	DP World	15.5	14.5	64.3	15.5	15.8	58.8	0.0	1.3	-5.4	0.0%	9.2%	-8.4%
5 to 7	Tilbury Port	Bexley	28.3	38.0	44.8	28.3	33.6	50.6	0.0	-4.4	5.9	0.0%	-11.6%	13.1%
5 to 8	Tilbury Port	Godstone	58.0	56.7	61.3	58.0	52.0	66.9	0.0	-4.7	5.6	0.0%	-8.3%	9.1%
5 to 9	Tilbury Port	Southfleet	28.6	33.7	51.0	27.7	22.3	74.5	-0.9	-11.4	23.5	-3.2%	-33.8%	46.1%
5 to 10	Tilbury Port	Maidstone	54.6	51.3	64.0	41.9	38.7	65.0	-12.7	-12.6	1.1	-23.3%	-24.5%	1.7%
5 to 11	Tilbury Port	Rochester	40.9	49.9	49.2	29.3	31.5	55.7	-11.6	-18.3	6.5	-28.4%	-36.7%	13.2%
5 to 12	Tilbury Port	Rainham	57.9	55.4	62.8	46.4	37.0	75.3	-11.5	-18.4	12.5	-19.9%	-33.2%	19.9%
6 to 1	DP World	Cheshunt	60.8	54.8	66.5	57.4	49.2	70.0	-3.4	-5.7	3.5	-5.5%	-10.3%	5.3%
6 to 2	DP World	Romford	30.8	40.4	45.8	30.4	33.9	53.9	-0.4	-6.5	8.1	-1.2%	-16.1%	17.8%
6 to 3	DP World	Brentwood	23.6	30.2	47.0	23.6	29.1	48.7	0.0	-1.0	1.7	0.0%	-3.4%	3.5%

6 to 4	DP World	Basildon	12.3	13.4	55.0	12.3	13.5	54.5	0.0	0.1	-0.5	0.0%	1.0%	-1.0%
6 to 5	DP World	Tilbury Port	14.0	17.5	47.9	15.7	17.7	53.5	1.8	0.1	5.6	12.5%	0.7%	11.8%
6 to 7	DP World	Bexley	32.1	42.0	45.9	32.1	37.0	52.0	0.0	-5.0	6.1	0.0%	-11.8%	13.3%
6 to 8	DP World	Godstone	61.8	60.8	61.0	61.8	55.5	66.8	0.0	-5.3	5.8	0.0%	-8.7%	9.5%
6 to 9	DP World	Southfleet	32.4	37.8	51.5	29.0	24.2	71.9	-3.4	-13.5	20.4	-10.4%	-35.8%	39.5%
6 to 10	DP World	Maidstone	58.4	55.3	63.4	43.3	40.6	63.9	-15.2	-14.7	0.5	-26.0%	-26.6%	0.8%
6 to 11	DP World	Rochester	44.7	53.9	49.8	30.6	33.4	54.9	-14.1	-20.5	5.2	-31.5%	-38.0%	10.4%
6 to 12	DP World	Rainham	61.7	59.4	62.3	47.7	38.9	73.6	-14.0	-20.5	11.3	-22.7%	-34.6%	18.1%

Table 1.5 Route based journey time comparison north to south movements (2030 core DM vs DS) inter-peak

Movement	From	To	DM			DS			Difference			Difference %age		
			Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)
1 to 2	Cheshunt	Romford	40.0	38.6	62.3	40.0	38.9	61.7	0.0	0.4	-0.6	0.0%	0.9%	-1.0%
1 to 3	Cheshunt	Brentwood	35.2	32.3	65.4	35.2	32.4	65.3	0.0	0.0	-0.1	0.0%	0.1%	-0.2%
1 to 4	Cheshunt	Basildon	51.0	44.4	68.8	51.0	43.6	70.2	0.0	-0.9	1.4	0.0%	-1.9%	2.0%
1 to 5	Cheshunt	Tilbury Port	59.8	47.1	76.1	60.3	46.3	78.1	0.5	-0.8	2.0	0.8%	-1.7%	2.6%
1 to 6	Cheshunt	DP World	60.3	46.5	77.7	56.9	42.5	80.4	-3.3	-4.0	2.7	-5.5%	-8.7%	3.4%
1 to 7	Cheshunt	Bexley	61.8	49.8	74.5	61.8	49.1	75.5	0.0	-0.7	1.1	0.0%	-1.4%	1.4%
1 to 8	Cheshunt	Godstone	91.5	65.7	83.6	91.5	64.9	84.6	0.0	-0.8	1.1	0.0%	-1.2%	1.3%
1 to 9	Cheshunt	Southfleet	62.1	47.1	79.1	62.1	46.1	80.9	0.0	-1.0	1.8	0.0%	-2.2%	2.3%
1 to 10	Cheshunt	Maidstone	88.1	63.2	83.7	82.8	59.8	83.1	-5.3	-3.4	-0.6	-6.0%	-5.4%	-0.7%
1 to 11	Cheshunt	Rochester	74.4	60.4	73.8	70.2	55.5	75.8	-4.2	-4.9	2.0	-5.7%	-8.2%	2.7%

1 to 12	Cheshunt	Rainham	91.4	67.9	80.8	87.3	62.8	83.4	-4.1	-5.1	2.6	-4.5%	-7.5%	3.2%
<u>2 to 1</u>	<u>Romford</u>	<u>Cheshunt</u>	<u>32.8</u>	<u>39.7</u>	<u>49.6</u>	<u>32.8</u>	<u>39.9</u>	<u>49.3</u>	<u>0.0</u>	<u>0.2</u>	<u>-0.3</u>	<u>0.0%</u>	<u>0.5%</u>	<u>-0.5%</u>
<u>2 to 3</u>	<u>Romford</u>	<u>Brentwood</u>	<u>11.5</u>	<u>22.0</u>	<u>31.3</u>	<u>11.5</u>	<u>21.8</u>	<u>31.6</u>	<u>0.0</u>	<u>-0.2</u>	<u>0.3</u>	<u>0.0%</u>	<u>-1.0%</u>	<u>1.0%</u>
<u>2 to 4</u>	<u>Romford</u>	<u>Basildon</u>	<u>24.6</u>	<u>28.3</u>	<u>52.1</u>	<u>24.6</u>	<u>27.9</u>	<u>52.8</u>	<u>0.0</u>	<u>-0.4</u>	<u>0.8</u>	<u>0.0%</u>	<u>-1.4%</u>	<u>1.5%</u>
<u>2 to 5</u>	<u>Romford</u>	<u>Tilbury Port</u>	<u>33.5</u>	<u>36.4</u>	<u>55.3</u>	<u>34.0</u>	<u>34.6</u>	<u>59.1</u>	<u>0.5</u>	<u>-1.8</u>	<u>3.8</u>	<u>1.5%</u>	<u>-5.0%</u>	<u>6.9%</u>
<u>2 to 6</u>	<u>Romford</u>	<u>DP World</u>	<u>29.0</u>	<u>33.3</u>	<u>52.3</u>	<u>30.7</u>	<u>30.8</u>	<u>59.8</u>	<u>1.7</u>	<u>-2.5</u>	<u>7.5</u>	<u>5.7%</u>	<u>-7.6%</u>	<u>14.4%</u>
2 to 7	Romford	Bexley	35.6	39.1	54.6	35.6	37.4	57.1	0.0	-1.7	2.5	0.0%	-4.4%	4.6%
2 to 8	Romford	Godstone	65.2	55.0	71.2	65.3	53.2	73.6	0.0	-1.8	2.5	0.0%	-3.3%	3.5%
2 to 9	Romford	Southfleet	35.9	36.4	59.1	35.9	34.4	62.7	0.0	-2.1	3.6	0.0%	-5.7%	6.1%
2 to 10	Romford	Maidstone	61.9	52.5	70.7	56.6	48.1	70.6	-5.3	-4.4	-0.1	-8.6%	-8.4%	-0.2%
2 to 11	Romford	Rochester	48.2	49.7	58.1	43.9	43.8	60.2	-4.2	-6.0	2.1	-8.8%	-12.0%	3.6%
2 to 12	Romford	Rainham	65.2	57.2	68.4	61.0	51.1	71.7	-4.1	-6.1	3.3	-6.3%	-10.6%	4.9%
<u>3 to 1</u>	<u>Brentwood</u>	<u>Cheshunt</u>	<u>35.5</u>	<u>31.7</u>	<u>67.2</u>	<u>35.5</u>	<u>32.3</u>	<u>65.9</u>	<u>0.0</u>	<u>0.6</u>	<u>-1.2</u>	<u>0.0%</u>	<u>1.9%</u>	<u>-1.9%</u>
<u>3 to 2</u>	<u>Brentwood</u>	<u>Romford</u>	<u>11.3</u>	<u>20.1</u>	<u>33.6</u>	<u>11.3</u>	<u>20.0</u>	<u>33.7</u>	<u>0.0</u>	<u>-0.1</u>	<u>0.1</u>	<u>-0.1%</u>	<u>-0.5%</u>	<u>0.4%</u>
<u>3 to 4</u>	<u>Brentwood</u>	<u>Basildon</u>	<u>17.0</u>	<u>18.0</u>	<u>56.6</u>	<u>17.0</u>	<u>17.9</u>	<u>57.0</u>	<u>0.0</u>	<u>-0.1</u>	<u>0.4</u>	<u>0.0%</u>	<u>-0.7%</u>	<u>0.7%</u>
<u>3 to 5</u>	<u>Brentwood</u>	<u>Tilbury Port</u>	<u>26.8</u>	<u>27.4</u>	<u>58.8</u>	<u>26.7</u>	<u>26.9</u>	<u>59.7</u>	<u>-0.1</u>	<u>-0.5</u>	<u>0.9</u>	<u>-0.4%</u>	<u>-1.8%</u>	<u>1.5%</u>
<u>3 to 6</u>	<u>Brentwood</u>	<u>DP World</u>	<u>20.9</u>	<u>23.2</u>	<u>54.1</u>	<u>21.2</u>	<u>23.0</u>	<u>55.4</u>	<u>0.4</u>	<u>-0.2</u>	<u>1.3</u>	<u>1.7%</u>	<u>-0.7%</u>	<u>2.4%</u>
3 to 7	Brentwood	Bexley	33.1	32.2	61.7	33.2	31.1	64.0	0.0	-1.1	2.3	0.1%	-3.5%	3.7%
3 to 8	Brentwood	Godstone	62.8	48.1	78.3	62.8	46.9	80.4	0.0	-1.3	2.1	0.0%	-2.6%	2.7%
3 to 9	Brentwood	Southfleet	33.5	29.6	67.9	33.5	28.1	71.5	0.0	-1.5	3.7	0.1%	-5.1%	5.4%
3 to 10	Brentwood	Maidstone	59.5	45.6	78.2	54.2	41.8	77.8	-5.3	-3.9	-0.4	-8.9%	-8.4%	-0.5%
3 to 11	Brentwood	Rochester	45.7	42.9	64.0	41.5	37.5	66.4	-4.2	-5.4	2.4	-9.2%	-12.6%	3.8%
3 to 12	Brentwood	Rainham	62.7	50.3	74.8	58.6	44.8	78.5	-4.1	-5.5	3.7	-6.5%	-11.0%	5.0%
<u>4 to 1</u>	<u>Basildon</u>	<u>Cheshunt</u>	<u>50.9</u>	<u>41.2</u>	<u>74.2</u>	<u>50.9</u>	<u>42.1</u>	<u>72.6</u>	<u>0.0</u>	<u>0.9</u>	<u>-1.6</u>	<u>0.0%</u>	<u>2.2%</u>	<u>-2.1%</u>

4 to 2	Basildon	Romford	25.0	27.1	55.4	25.0	27.1	55.3	0.0	0.1	-0.1	0.0%	0.2%	-0.2%
4 to 3	Basildon	Brentwood	16.7	18.3	54.9	16.7	18.2	55.1	0.0	-0.1	0.2	0.0%	-0.3%	0.4%
4 to 5	Basildon	Tilbury Port	22.1	23.0	57.7	22.1	23.8	55.6	0.0	0.9	-2.1	0.1%	3.8%	-3.6%
4 to 6	Basildon	DP World	12.1	15.1	48.2	12.1	15.3	47.6	0.0	0.2	-0.6	0.0%	1.4%	-1.3%
4 to 7	Basildon	Bexley	39.7	36.4	65.4	39.6	34.9	68.1	-0.1	-1.5	2.7	-0.2%	-4.1%	4.1%
4 to 8	Basildon	Godstone	69.4	52.3	79.6	69.3	50.7	82.0	-0.1	-1.6	2.5	-0.1%	-3.1%	3.1%
4 to 9	Basildon	Southfleet	40.0	33.8	71.1	33.8	27.5	73.8	-6.3	-6.3	2.6	-15.7%	-18.7%	3.7%
4 to 10	Basildon	Maidstone	66.0	49.8	79.5	48.0	39.7	72.5	-18.1	-10.1	-7.1	-27.4%	-20.3%	-8.9%
4 to 11	Basildon	Rochester	52.3	47.1	66.7	35.3	35.4	59.8	-17.0	-11.7	-6.9	-32.5%	-24.8%	-10.3%
4 to 12	Basildon	Rainham	69.3	54.5	76.3	52.4	42.7	73.6	-16.9	-11.8	-2.7	-24.4%	-21.6%	-3.5%
5 to 1	Tilbury Port	Cheshunt	57.0	44.6	76.6	53.4	39.4	81.2	-3.6	-5.2	4.6	-6.3%	-11.6%	6.0%
5 to 2	Tilbury Port	Romford	31.2	31.4	59.6	27.6	25.3	65.3	-3.6	-6.1	5.7	-11.7%	-19.4%	9.6%
5 to 3	Tilbury Port	Brentwood	24.5	23.8	61.8	24.5	23.0	63.9	0.0	-0.8	2.1	0.0%	-3.2%	3.4%
5 to 4	Tilbury Port	Basildon	19.9	18.0	66.4	19.9	18.2	65.9	0.0	0.1	-0.5	0.0%	0.8%	-0.8%
5 to 6	Tilbury Port	DP World	15.5	14.0	66.3	15.5	14.0	66.3	0.0	0.0	0.1	0.0%	-0.1%	0.1%
5 to 7	Tilbury Port	Bexley	28.3	28.8	58.9	28.3	27.0	62.9	0.0	-1.8	4.0	0.0%	-6.4%	6.8%
5 to 8	Tilbury Port	Godstone	58.0	44.7	77.8	58.0	42.8	81.4	0.0	-2.0	3.6	0.0%	-4.4%	4.6%
5 to 9	Tilbury Port	Southfleet	28.6	26.2	65.6	27.7	19.2	86.7	-0.9	-7.0	21.1	-3.2%	-26.7%	32.1%
5 to 10	Tilbury Port	Maidstone	54.6	42.2	77.6	41.9	31.4	80.0	-12.7	-10.8	2.4	-23.3%	-25.6%	3.1%
5 to 11	Tilbury Port	Rochester	40.9	39.5	62.2	29.3	27.1	64.7	-11.7	-12.3	2.5	-28.5%	-31.3%	4.0%
5 to 12	Tilbury Port	Rainham	57.9	46.9	74.1	46.4	34.4	80.8	-11.5	-12.5	6.8	-19.9%	-26.6%	9.1%
6 to 1	DP World	Cheshunt	55.7	46.2	72.4	57.4	43.1	79.9	1.7	-3.1	7.5	3.1%	-6.6%	10.4%

6 to 2	DP World	Romford	29.7	32.0	55.7	31.6	29.0	65.4	1.8	-3.1	9.7	6.2%	-9.5%	17.4%
6 to 3	DP World	Brentwood	21.5	23.3	55.4	21.5	23.0	56.0	0.0	-0.2	0.5	0.0%	-1.0%	1.0%
6 to 4	DP World	Basildon	12.3	14.0	52.5	12.3	14.2	52.0	0.0	0.1	-0.5	0.0%	0.9%	-0.9%
6 to 5	DP World	Tilbury Port	17.4	16.9	61.5	15.8	17.8	53.1	-1.6	0.9	-8.4	-9.2%	5.1%	-13.6%
6 to 7	DP World	Bexley	32.1	32.3	59.6	32.1	30.7	62.8	0.0	-1.7	3.2	0.0%	-5.2%	5.4%
6 to 8	DP World	Godstone	61.8	48.2	76.9	61.8	46.4	79.8	0.0	-1.8	3.0	0.0%	-3.7%	3.8%
6 to 9	DP World	Southfleet	32.4	29.7	65.6	29.0	21.3	82.0	-3.4	-8.4	16.4	-10.4%	-28.3%	25.0%
6 to 10	DP World	Maidstone	58.4	45.7	76.7	43.2	33.5	77.4	-15.2	-12.2	0.7	-26.0%	-26.7%	1.0%
6 to 11	DP World	Rochester	44.7	43.0	62.4	30.6	29.2	62.8	-14.1	-13.7	0.4	-31.6%	-32.0%	0.6%
6 to 12	DP World	Rainham	61.7	50.4	73.5	47.7	36.5	78.4	-14.0	-13.9	4.9	-22.7%	-27.5%	6.7%

Table 1.6 Route based journey time comparison north to south movements (2030 core DM vs DS) PM peak

Movement	From	To	DM			DS			Difference			Difference %age		
			Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)
1 to 2	Cheshunt	Romford	40.2	42.4	56.8	40.1	43.0	56.0	0.0	0.6	-0.9	-0.1%	1.4%	-1.5%
1 to 3	Cheshunt	Brentwood	35.4	35.1	60.5	35.3	35.8	59.3	0.0	0.7	-1.2	-0.1%	1.9%	-2.0%
1 to 4	Cheshunt	Basildon	51.1	52.4	58.6	51.1	51.7	59.3	0.0	-0.6	0.7	0.0%	-1.2%	1.2%
1 to 5	Cheshunt	Tilbury Port	56.6	48.9	69.4	57.1	46.8	73.1	0.5	-2.1	3.7	0.8%	-4.2%	5.3%
1 to 6	Cheshunt	DP World	60.4	52.9	68.5	57.0	48.0	71.2	-3.4	-4.9	2.7	-5.6%	-9.2%	4.0%
1 to 7	Cheshunt	Bexley	62.0	57.5	64.7	61.9	55.9	66.5	0.0	-1.6	1.8	0.0%	-2.7%	2.8%
1 to 8	Cheshunt	Godstone	91.6	71.8	76.6	91.6	70.0	78.6	0.0	-1.8	2.0	0.0%	-2.5%	2.6%
1 to 9	Cheshunt	Southfleet	60.9	54.5	67.0	62.3	51.2	73.0	1.4	-3.3	6.0	2.3%	-6.1%	9.0%
1 to 10	Cheshunt	Maidstone	88.3	73.4	72.1	82.9	69.2	71.9	-5.3	-4.2	-0.2	-6.0%	-5.8%	-0.3%
1 to 11	Cheshunt	Rochester	74.9	73.6	61.1	70.8	65.1	65.3	-4.1	-8.5	4.2	-5.5%	-11.6%	6.9%
1 to 12	Cheshunt	Rainham	91.5	87.1	63.0	87.4	78.3	67.0	-4.1	-8.8	3.9	-4.5%	-10.1%	6.2%
2 to 1	Romford	Cheshunt	39.8	47.5	50.3	33.9	49.8	40.8	-5.9	2.4	-9.5	-14.9%	5.0%	-18.9%
2 to 3	Romford	Brentwood	11.5	26.3	26.2	11.5	26.5	26.0	0.0	0.2	-0.2	-0.1%	0.8%	-0.9%
2 to 4	Romford	Basildon	24.7	37.6	39.4	24.7	36.9	40.1	0.0	-0.6	0.6	-0.1%	-1.7%	1.6%
2 to 5	Romford	Tilbury Port	27.6	41.5	40.0	30.8	35.9	51.4	3.1	-5.6	11.4	11.3%	-13.4%	28.6%
2 to 6	Romford	DP World	29.1	41.7	41.9	30.8	37.2	49.6	1.6	-4.5	7.7	5.6%	-10.8%	18.4%
2 to 7	Romford	Bexley	35.7	49.6	43.2	35.7	45.0	47.5	0.0	-4.5	4.3	-0.1%	-9.2%	10.0%
2 to 8	Romford	Godstone	65.3	63.9	61.4	65.3	59.1	66.3	0.0	-4.8	5.0	0.0%	-7.5%	8.1%

2 to 9	Romford	Southfleet	34.6	46.6	44.5	36.0	40.3	53.6	1.4	-6.3	9.1	4.1%	-13.6%	20.4%
2 to 10	Romford	Maidstone	62.0	65.5	56.8	56.7	58.3	58.3	-5.3	-7.2	1.5	-8.6%	-11.0%	2.7%
2 to 11	Romford	Rochester	48.7	65.7	44.4	44.6	54.2	49.3	-4.1	-11.5	4.9	-8.4%	-17.5%	11.0%
2 to 12	Romford	Rainham	65.3	79.2	49.4	61.1	67.4	54.4	-4.1	-11.8	5.0	-6.3%	-14.9%	10.0%
3 to 1	Brentwood	Cheshunt	35.4	39.8	53.4	35.5	40.3	52.8	0.0	0.5	-0.6	0.1%	1.2%	-1.1%
3 to 2	Brentwood	Romford	11.3	24.1	28.0	11.3	24.1	28.1	0.0	-0.1	0.1	0.0%	-0.3%	0.2%
3 to 4	Brentwood	Basildon	16.5	23.0	43.1	16.5	22.5	44.0	0.0	-0.4	0.8	0.0%	-1.9%	2.0%
3 to 5	Brentwood	Tilbury Port	23.5	27.0	52.3	23.4	25.5	55.1	-0.1	-1.5	2.8	-0.5%	-5.6%	5.4%
3 to 6	Brentwood	DP World	20.9	27.0	46.5	20.9	26.1	47.9	0.0	-0.8	1.4	0.0%	-3.0%	3.1%
3 to 7	Brentwood	Bexley	33.0	39.2	50.6	32.9	36.5	54.2	-0.1	-2.7	3.6	-0.3%	-6.9%	7.1%
3 to 8	Brentwood	Godstone	62.7	53.5	70.3	62.6	50.5	74.3	-0.1	-3.0	4.0	-0.1%	-5.6%	5.8%
3 to 9	Brentwood	Southfleet	31.9	36.2	52.9	33.2	31.7	62.9	1.3	-4.5	10.0	4.2%	-12.4%	18.9%
3 to 10	Brentwood	Maidstone	59.3	55.2	64.5	53.9	49.8	65.0	-5.4	-5.4	0.5	-9.1%	-9.8%	0.7%
3 to 11	Brentwood	Rochester	46.0	55.4	49.9	41.8	45.7	54.9	-4.2	-9.7	5.1	-9.1%	-17.5%	10.2%
3 to 12	Brentwood	Rainham	62.6	68.8	54.5	58.4	58.9	59.5	-4.2	-10.0	4.9	-6.7%	-14.5%	9.1%
4 to 1	Basildon	Cheshunt	50.8	49.0	62.2	50.9	49.4	61.8	0.0	0.4	-0.4	0.1%	0.7%	-0.6%
4 to 2	Basildon	Romford	23.9	32.9	43.6	23.9	33.0	43.5	0.0	0.1	0.0	0.1%	0.2%	-0.1%
4 to 3	Basildon	Brentwood	16.7	20.2	49.7	16.7	20.1	49.9	0.0	-0.1	0.2	0.0%	-0.4%	0.4%
4 to 5	Basildon	Tilbury Port	18.7	18.4	61.0	18.7	20.7	54.2	0.0	2.3	-6.8	0.1%	12.7%	-11.2%
4 to 6	Basildon	DP World	12.1	14.6	50.0	12.1	15.1	48.3	0.0	0.5	-1.7	0.0%	3.4%	-3.3%
4 to 7	Basildon	Bexley	36.8	43.5	50.9	36.8	40.7	54.3	0.0	-2.8	3.4	-0.1%	-6.4%	6.7%
4 to 8	Basildon	Godstone	66.5	57.8	69.1	66.5	54.8	72.9	0.0	-3.0	3.8	0.0%	-5.2%	5.5%
4 to 9	Basildon	Southfleet	35.7	40.5	52.9	33.8	29.3	69.1	-2.0	-11.2	16.2	-5.5%	-27.6%	30.5%

4 to 10	Basildon	Maidstone	63.2	59.4	63.8	48.0	45.6	63.1	-15.2	-13.8	-0.7	-24.1%	-23.3%	-1.0%
4 to 11	Basildon	Rochester	49.8	59.6	50.1	35.9	41.5	51.8	-14.0	-18.1	1.7	-28.0%	-30.4%	3.4%
4 to 12	Basildon	Rainham	66.4	73.1	54.5	52.4	54.7	57.5	-14.0	-18.4	3.0	-21.1%	-25.2%	5.5%
5 to 1	Tilbury Port	Cheshunt	56.9	51.1	66.7	53.3	44.5	72.0	-3.5	-6.7	5.2	-6.2%	-13.1%	7.9%
5 to 2	Tilbury Port	Romford	27.3	36.2	45.2	26.5	29.2	54.5	-0.8	-7.0	9.3	-2.9%	-19.5%	20.5%
5 to 3	Tilbury Port	Brentwood	24.5	25.0	58.8	24.5	24.1	61.0	0.0	-0.9	2.2	0.0%	-3.5%	3.7%
5 to 4	Tilbury Port	Basildon	19.9	20.4	58.7	19.9	21.1	56.7	0.0	0.7	-2.0	0.0%	3.5%	-3.4%
5 to 6	Tilbury Port	DP World	15.5	14.4	64.4	15.5	15.3	60.8	0.0	0.8	-3.5	0.0%	5.8%	-5.5%
5 to 7	Tilbury Port	Bexley	28.3	34.3	49.6	28.3	30.0	56.6	0.0	-4.3	7.1	0.0%	-12.5%	14.3%
5 to 8	Tilbury Port	Godstone	58.0	48.6	71.6	58.0	44.1	79.0	0.0	-4.6	7.4	0.0%	-9.4%	10.4%
5 to 9	Tilbury Port	Southfleet	27.2	31.3	52.1	27.7	20.2	82.4	0.5	-11.2	30.3	1.8%	-35.6%	58.2%
5 to 10	Tilbury Port	Maidstone	54.6	50.3	65.2	41.9	36.5	69.0	-12.7	-13.8	3.8	-23.3%	-27.5%	5.8%
5 to 11	Tilbury Port	Rochester	41.3	50.5	49.1	29.8	32.4	55.3	-11.5	-18.1	6.2	-27.8%	-35.9%	12.5%
5 to 12	Tilbury Port	Rainham	57.9	64.0	54.3	46.4	45.6	61.1	-11.5	-18.4	6.7	-19.9%	-28.7%	12.4%
6 to 1	DP World	Cheshunt	55.6	54.2	61.5	57.4	49.0	70.2	1.8	-5.2	8.7	3.2%	-9.6%	14.2%
6 to 2	DP World	Romford	28.7	38.1	45.1	30.5	33.7	54.3	1.9	-4.4	9.2	6.5%	-11.6%	20.4%
6 to 3	DP World	Brentwood	20.8	25.6	48.8	20.8	25.1	49.7	0.0	-0.5	0.9	0.0%	-1.8%	1.8%
6 to 4	DP World	Basildon	13.1	15.4	50.9	13.1	15.3	51.4	0.0	-0.1	0.5	0.1%	-0.8%	0.9%
6 to 5	DP World	Tilbury Port	14.0	12.8	65.5	14.0	14.6	57.7	0.0	1.7	-7.7	0.1%	13.5%	-11.8%
6 to 7	DP World	Bexley	32.1	37.9	50.9	32.1	34.5	55.8	0.0	-3.4	4.9	-0.1%	-8.9%	9.7%

6 to 8	DP World	Godstone	61.8	52.2	71.0	61.8	48.6	76.3	0.0	-3.6	5.3	0.0%	-7.0%	7.4%
6 to 9	DP World	Southfleet	31.0	34.9	53.3	29.0	23.2	75.3	-2.0	-11.8	22.0	-6.3%	-33.7%	41.3%
6 to 10	DP World	Maidstone	58.4	53.9	65.1	43.2	39.4	65.8	-15.2	-14.4	0.7	-26.0%	-26.8%	1.1%
6 to 11	DP World	Rochester	45.1	54.1	50.1	31.1	35.3	52.9	-14.0	-18.7	2.8	-31.0%	-34.6%	5.6%
6 to 12	DP World	Rainham	61.7	67.6	54.8	47.7	48.6	58.9	-14.0	-19.0	4.1	-22.7%	-28.1%	7.6%

Table 1.7 Route based journey time comparison south to north movements (2030 core DM vs DS) AM peak

Movement	From	To	DM			DS			Difference			Difference %age		
			Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)
7 to 1	Bexley	Cheshunt	61.6	56.6	65.3	61.6	53.8	68.8	0.0	-2.8	3.4	0.1%	-4.9%	5.3%
7 to 2	Bexley	Romford	34.7	44.2	47.1	34.7	38.7	53.8	0.0	-5.6	6.8	0.0%	-12.6%	14.4%
7 to 3	Bexley	Brentwood	33.1	39.4	50.5	33.2	35.2	56.6	0.0	-4.2	6.1	0.1%	-10.6%	12.0%
7 to 4	Bexley	Basildon	36.8	40.7	54.3	36.8	35.3	62.6	0.0	-5.4	8.3	-0.1%	-13.3%	15.3%
7 to 5	Bexley	Tilbury Port	28.6	37.4	45.8	28.6	31.3	54.8	0.0	-6.1	8.9	-0.1%	-16.4%	19.5%
7 to 6	Bexley	DP World	32.4	37.1	52.4	32.4	31.7	61.4	0.0	-5.4	8.9	-0.1%	-14.6%	17.1%
<u>7 to 8</u>	<u>Bexley</u>	<u>Godstone</u>	<u>45.9</u>	<u>40.5</u>	<u>68.0</u>	<u>45.9</u>	<u>42.1</u>	<u>65.5</u>	<u>0.0</u>	<u>1.6</u>	<u>-2.6</u>	<u>0.0%</u>	<u>3.9%</u>	<u>-3.8%</u>
<u>7 to 9</u>	<u>Bexley</u>	<u>Southfleet</u>	<u>16.6</u>	<u>15.2</u>	<u>65.6</u>	<u>16.6</u>	<u>15.0</u>	<u>66.4</u>	<u>0.0</u>	<u>-0.2</u>	<u>0.8</u>	<u>0.0%</u>	<u>-1.2%</u>	<u>1.2%</u>
<u>7 to 10</u>	<u>Bexley</u>	<u>Maidstone</u>	<u>41.8</u>	<u>33.9</u>	<u>74.0</u>	<u>41.8</u>	<u>33.6</u>	<u>74.6</u>	<u>0.0</u>	<u>-0.2</u>	<u>0.5</u>	<u>0.0%</u>	<u>-0.7%</u>	<u>0.7%</u>
<u>7 to 11</u>	<u>Bexley</u>	<u>Rochester</u>	<u>28.9</u>	<u>31.3</u>	<u>55.3</u>	<u>28.9</u>	<u>31.5</u>	<u>55.1</u>	<u>0.1</u>	<u>0.2</u>	<u>-0.2</u>	<u>0.2%</u>	<u>0.5%</u>	<u>-0.3%</u>
<u>7 to 12</u>	<u>Bexley</u>	<u>Rainham</u>	<u>45.9</u>	<u>36.8</u>	<u>74.8</u>	<u>45.9</u>	<u>36.7</u>	<u>75.1</u>	<u>0.1</u>	<u>-0.1</u>	<u>0.3</u>	<u>0.2%</u>	<u>-0.2%</u>	<u>0.4%</u>
8 to 1	Godstone	Cheshunt	91.8	76.9	71.6	91.8	73.8	74.6	0.1	-3.0	3.0	0.1%	-3.9%	4.2%
8 to 2	Godstone	Romford	64.9	64.5	60.3	64.9	58.7	66.3	0.0	-5.8	6.0	0.0%	-9.0%	9.9%
8 to 3	Godstone	Brentwood	63.3	59.7	63.7	63.4	55.3	68.8	0.1	-4.4	5.2	0.1%	-7.4%	8.1%
8 to 4	Godstone	Basildon	67.0	61.0	65.9	67.0	55.3	72.6	0.0	-5.7	6.7	0.0%	-9.3%	10.2%
8 to 5	Godstone	Tilbury Port	58.7	57.7	61.1	58.7	51.3	68.6	0.0	-6.4	7.6	0.0%	-11.0%	12.4%
8 to 6	Godstone	DP World	62.6	57.4	65.4	62.6	51.7	72.6	0.0	-5.7	7.2	0.0%	-9.9%	10.9%
<u>8 to 7</u>	<u>Godstone</u>	<u>Bexley</u>	<u>45.6</u>	<u>42.1</u>	<u>65.0</u>	<u>43.3</u>	<u>43.3</u>	<u>60.0</u>	<u>-2.3</u>	<u>1.3</u>	<u>-5.1</u>	<u>-5.0%</u>	<u>3.0%</u>	<u>-7.8%</u>
<u>8 to 9</u>	<u>Godstone</u>	<u>Southfleet</u>	<u>46.9</u>	<u>40.5</u>	<u>69.6</u>	<u>46.9</u>	<u>40.5</u>	<u>69.5</u>	<u>0.0</u>	<u>0.1</u>	<u>-0.1</u>	<u>0.0%</u>	<u>0.2%</u>	<u>-0.2%</u>

8 to 10	Godstone	Maidstone	48.9	38.0	77.1	48.9	37.9	77.4	0.0	-0.1	0.3	0.0%	-0.3%	0.3%
8 to 11	Godstone	Rochester	58.1	50.7	68.8	58.1	50.6	68.9	0.0	-0.1	0.1	0.0%	-0.2%	0.2%
8 to 12	Godstone	Rainham	66.5	53.9	74.0	66.5	54.0	73.9	0.0	0.1	-0.2	0.0%	0.3%	-0.3%
9 to 1	Southfleet	Cheshunt	60.7	56.4	64.6	60.8	51.8	70.4	0.0	-4.6	5.8	0.1%	-8.1%	9.0%
9 to 2	Southfleet	Romford	33.8	44.0	46.1	33.8	36.7	55.3	0.0	-7.4	9.2	0.0%	-16.7%	20.1%
9 to 3	Southfleet	Brentwood	32.3	39.2	49.4	32.3	33.2	58.4	0.0	-6.0	9.0	0.2%	-15.3%	18.2%
9 to 4	Southfleet	Basildon	36.0	40.5	53.3	35.8	28.5	75.5	-0.1	-12.0	22.2	-0.4%	-29.7%	41.6%
9 to 5	Southfleet	Tilbury Port	27.7	37.2	44.7	31.4	27.9	67.5	3.7	-9.3	22.8	13.4%	-24.9%	51.1%
9 to 6	Southfleet	DP World	31.5	36.9	51.3	31.4	24.9	75.7	-0.1	-12.0	24.5	-0.4%	-32.6%	47.7%
9 to 7	Southfleet	Bexley	15.0	18.4	49.1	15.0	19.1	47.2	0.0	0.7	-1.9	0.0%	4.0%	-3.9%
9 to 8	Southfleet	Godstone	44.8	37.6	71.6	44.8	38.5	69.8	0.0	1.0	-1.8	0.0%	2.6%	-2.5%
9 to 10	Southfleet	Maidstone	29.4	29.8	59.2	29.5	31.1	56.9	0.1	1.3	-2.3	0.3%	4.3%	-3.9%
9 to 11	Southfleet	Rochester	16.9	23.7	42.7	16.9	24.1	42.1	0.1	0.4	-0.5	0.4%	1.7%	-1.3%
9 to 12	Southfleet	Rainham	33.9	29.2	69.5	33.9	29.4	69.3	0.1	0.2	-0.2	0.2%	0.5%	-0.3%
10 to 1	Maidstone	Cheshunt	88.3	76.7	69.1	83.3	67.0	74.6	-5.0	-9.7	5.6	-5.6%	-12.7%	8.1%
10 to 2	Maidstone	Romford	61.4	64.3	57.2	56.4	51.7	65.5	-5.0	-12.7	8.2	-8.2%	-19.7%	14.4%
10 to 3	Maidstone	Brentwood	59.8	59.5	60.3	54.9	48.4	68.0	-5.0	-11.1	7.7	-8.3%	-18.6%	12.7%
10 to 4	Maidstone	Basildon	63.5	60.8	62.7	50.3	40.8	73.9	-13.2	-20.0	11.2	-20.8%	-32.8%	17.9%
10 to 5	Maidstone	Tilbury Port	55.2	57.5	57.6	45.9	40.3	68.3	-9.4	-17.2	10.7	-16.9%	-30.0%	18.6%
10 to 6	Maidstone	DP World	59.1	57.2	62.0	45.9	37.2	73.9	-13.2	-20.0	12.0	-22.3%	-34.9%	19.3%
10 to 7	Maidstone	Bexley	42.4	41.1	61.9	42.4	39.9	63.7	0.0	-1.2	1.8	0.0%	-2.9%	3.0%
10 to 8	Maidstone	Godstone	48.2	41.2	70.2	48.2	40.0	72.4	0.0	-1.2	2.1	0.0%	-3.0%	3.0%
10 to 9	Maidstone	Southfleet	29.5	29.5	60.0	29.5	27.1	65.4	0.0	-2.4	5.4	0.0%	-8.3%	9.0%
10 to 11	Maidstone	Rochester	15.7	24.1	39.0	15.7	24.0	39.2	0.0	-0.1	0.1	0.0%	-0.4%	0.4%

10 to 12	Maidstone	Rainham	24.1	27.3	52.9	24.1	27.4	52.6	0.0	0.1	-0.3	0.0%	0.5%	-0.5%
11 to 1	Rochester	Cheshunt	75.7	80.2	56.6	70.3	64.0	65.9	-5.4	-16.2	9.3	-7.1%	-20.2%	16.4%
11 to 2	Rochester	Romford	48.8	67.9	43.2	43.3	48.7	53.4	-5.5	-19.2	10.3	-11.2%	-28.3%	23.8%
11 to 3	Rochester	Brentwood	47.3	63.0	45.0	41.8	45.4	55.3	-5.4	-17.6	10.3	-11.5%	-28.0%	22.9%
11 to 4	Rochester	Basildon	51.0	64.3	47.5	37.3	37.8	59.1	-13.7	-26.5	11.6	-26.8%	-41.2%	24.4%
11 to 5	Rochester	Tilbury Port	42.7	61.0	41.9	32.9	37.3	52.9	-9.8	-23.8	10.9	-23.0%	-38.9%	26.1%
11 to 6	Rochester	DP World	46.5	60.7	46.0	32.9	34.2	57.6	-13.7	-26.5	11.6	-29.4%	-43.6%	25.3%
11 to 7	Rochester	Bexley	30.0	42.2	42.7	28.6	39.3	43.7	-1.4	-2.9	1.0	-4.7%	-6.9%	2.4%
11 to 8	Rochester	Godstone	57.7	52.9	65.4	57.7	52.2	66.3	0.0	-0.8	0.9	0.0%	-1.4%	1.4%
11 to 9	Rochester	Southfleet	17.9	26.8	40.1	16.5	24.2	40.8	-1.4	-2.5	0.8	-7.8%	-9.5%	1.9%
11 to 10	Rochester	Maidstone	14.9	21.6	41.4	14.9	21.7	41.2	0.0	0.1	-0.2	0.0%	0.6%	-0.6%
11 to 12	Rochester	Rainham	13.5	22.2	36.5	13.7	22.2	36.9	0.1	-0.1	0.5	1.1%	-0.2%	1.3%
12 to 1	Rainham	Cheshunt	91.7	93.0	59.2	87.7	76.8	68.5	-4.0	-16.2	9.3	-4.4%	-17.4%	15.7%
12 to 2	Rainham	Romford	64.8	80.7	48.2	60.7	61.5	59.2	-4.1	-19.2	11.0	-6.3%	-23.7%	22.9%
12 to 3	Rainham	Brentwood	63.3	75.8	50.0	59.2	58.3	61.0	-4.0	-17.6	10.9	-6.4%	-23.2%	21.9%
12 to 4	Rainham	Basildon	67.0	77.2	52.1	54.7	50.7	64.7	-12.3	-26.4	12.6	-18.3%	-34.3%	24.2%
12 to 5	Rainham	Tilbury Port	58.7	73.9	47.7	50.2	50.1	60.1	-8.4	-23.7	12.4	-14.4%	-32.1%	26.1%
12 to 6	Rainham	DP World	62.5	73.5	51.0	50.2	47.1	64.0	-12.3	-26.5	13.0	-19.6%	-36.0%	25.5%
12 to 7	Rainham	Bexley	46.0	55.0	50.2	46.0	52.0	53.1	0.0	-3.0	2.9	0.0%	-5.5%	5.8%
12 to 8	Rainham	Godstone	66.3	67.0	59.4	66.3	67.4	59.0	0.0	0.4	-0.4	0.0%	0.6%	-0.6%
12 to 9	Rainham	Southfleet	33.9	39.6	51.3	33.9	36.9	55.0	0.0	-2.7	3.7	0.0%	-6.7%	7.2%
12 to 10	Rainham	Maidstone	23.5	35.6	39.6	23.5	36.9	38.2	0.0	1.3	-1.4	0.0%	3.6%	-3.5%
12 to 11	Rainham	Rochester	13.6	29.1	28.0	13.6	29.4	27.7	0.0	0.2	-0.2	0.0%	0.8%	-0.7%

Table 1.8 Route based journey time comparison south to north movements (2030 core DM vs DS) inter-peak

Movement	From	To	DM			DS			Difference			Difference %age		
			Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)	Distance (km)	Journey time (mins)	Average speed (km/h)
7 to 1	Bexley	Cheshunt	61.6	51.0	72.4	61.6	47.8	77.4	0.0	-3.2	5.0	0.1%	-6.4%	6.9%
7 to 2	Bexley	Romford	35.8	37.8	56.8	35.8	33.7	63.7	0.0	-4.1	6.9	0.0%	-10.9%	12.2%
7 to 3	Bexley	Brentwood	33.1	35.8	55.6	33.2	31.5	63.3	0.0	-4.3	7.7	0.1%	-12.1%	13.8%
7 to 4	Bexley	Basildon	36.8	39.0	56.7	36.8	34.0	65.0	0.0	-5.0	8.3	-0.1%	-12.8%	14.6%
7 to 5	Bexley	Tilbury Port	31.9	35.6	53.8	31.9	30.3	63.3	0.0	-5.3	9.5	0.0%	-15.0%	17.6%
7 to 6	Bexley	DP World	32.4	35.0	55.6	32.4	29.8	65.2	0.0	-5.2	9.6	-0.1%	-14.8%	17.2%
<u>7 to 8</u>	<u>Bexley</u>	<u>Godstone</u>	<u>45.9</u>	<u>34.7</u>	<u>79.4</u>	<u>45.9</u>	<u>34.8</u>	<u>79.3</u>	<u>0.0</u>	<u>0.1</u>	<u>-0.1</u>	<u>0.0%</u>	<u>0.2%</u>	<u>-0.2%</u>
<u>7 to 9</u>	<u>Bexley</u>	<u>Southfleet</u>	<u>16.6</u>	<u>14.7</u>	<u>67.7</u>	<u>16.6</u>	<u>14.5</u>	<u>68.4</u>	<u>0.0</u>	<u>-0.2</u>	<u>0.7</u>	<u>0.0%</u>	<u>-1.0%</u>	<u>1.0%</u>
<u>7 to 10</u>	<u>Bexley</u>	<u>Maidstone</u>	<u>41.4</u>	<u>32.3</u>	<u>76.9</u>	<u>41.5</u>	<u>32.2</u>	<u>77.2</u>	<u>0.1</u>	<u>-0.1</u>	<u>0.3</u>	<u>0.2%</u>	<u>-0.2%</u>	<u>0.4%</u>
<u>7 to 11</u>	<u>Bexley</u>	<u>Rochester</u>	<u>28.9</u>	<u>28.0</u>	<u>61.8</u>	<u>28.9</u>	<u>28.1</u>	<u>61.7</u>	<u>0.0</u>	<u>0.1</u>	<u>-0.1</u>	<u>0.1%</u>	<u>0.3%</u>	<u>-0.2%</u>
<u>7 to 12</u>	<u>Bexley</u>	<u>Rainham</u>	<u>45.9</u>	<u>35.4</u>	<u>77.7</u>	<u>45.9</u>	<u>35.2</u>	<u>78.2</u>	<u>0.1</u>	<u>-0.2</u>	<u>0.6</u>	<u>0.2%</u>	<u>-0.6%</u>	<u>0.7%</u>
8 to 1	Godstone	Cheshunt	91.8	70.8	77.8	91.8	67.7	81.4	0.0	-3.1	3.7	0.1%	-4.4%	4.7%
8 to 2	Godstone	Romford	66.0	57.6	68.7	66.0	53.6	73.9	0.0	-4.0	5.1	0.0%	-7.0%	7.5%
8 to 3	Godstone	Brentwood	63.3	55.6	68.4	63.4	51.4	74.0	0.0	-4.2	5.7	0.1%	-7.6%	8.3%
8 to 4	Godstone	Basildon	67.0	58.8	68.4	67.0	53.9	74.7	0.0	-4.9	6.2	0.0%	-8.3%	9.1%
8 to 5	Godstone	Tilbury Port	62.1	55.4	67.3	62.1	50.1	74.3	0.0	-5.2	7.0	0.0%	-9.4%	10.4%
8 to 6	Godstone	DP World	62.6	54.8	68.6	62.6	49.7	75.5	0.0	-5.1	7.0	0.0%	-9.2%	10.2%
<u>8 to 7</u>	<u>Godstone</u>	<u>Bexley</u>	<u>45.7</u>	<u>37.1</u>	<u>73.8</u>	<u>45.7</u>	<u>37.2</u>	<u>73.6</u>	<u>0.0</u>	<u>0.1</u>	<u>-0.2</u>	<u>0.0%</u>	<u>0.3%</u>	<u>-0.3%</u>
<u>8 to 9</u>	<u>Godstone</u>	<u>Southfleet</u>	<u>46.9</u>	<u>37.6</u>	<u>75.0</u>	<u>46.9</u>	<u>37.6</u>	<u>74.9</u>	<u>0.0</u>	<u>0.0</u>	<u>-0.1</u>	<u>0.0%</u>	<u>0.1%</u>	<u>-0.1%</u>
<u>8 to 10</u>	<u>Godstone</u>	<u>Maidstone</u>	<u>48.9</u>	<u>37.0</u>	<u>79.4</u>	<u>48.9</u>	<u>36.8</u>	<u>79.6</u>	<u>0.0</u>	<u>-0.1</u>	<u>0.2</u>	<u>0.0%</u>	<u>-0.3%</u>	<u>0.3%</u>

8 to 11	Godstone	Rochester	58.1	45.5	76.6	58.1	45.6	76.4	0.0	0.1	-0.1	0.0%	0.2%	-0.2%
8 to 12	Godstone	Rainham	66.5	51.8	77.0	66.5	51.8	76.9	0.0	0.1	-0.1	0.0%	0.1%	-0.1%
9 to 1	Southfleet	Cheshunt	60.2	51.9	69.6	60.8	46.7	78.2	0.6	-5.2	8.5	0.9%	-10.1%	12.2%
9 to 2	Southfleet	Romford	34.5	38.7	53.4	35.0	32.6	64.3	0.5	-6.1	10.9	1.5%	-15.8%	20.5%
9 to 3	Southfleet	Brentwood	31.8	36.7	52.0	32.3	30.3	63.9	0.6	-6.3	11.9	1.7%	-17.2%	22.9%
9 to 4	Southfleet	Basildon	35.5	39.8	53.4	35.8	27.8	77.3	0.4	-12.0	23.9	1.0%	-30.2%	44.7%
9 to 5	Southfleet	Tilbury Port	30.6	36.4	50.3	34.8	27.5	75.9	4.2	-9.0	25.6	13.8%	-24.6%	50.9%
9 to 6	Southfleet	DP World	31.0	35.8	51.9	31.4	23.7	79.6	0.4	-12.2	27.7	1.2%	-34.0%	53.3%
9 to 7	Southfleet	Bexley	15.0	15.7	57.6	15.0	15.6	57.6	0.0	0.0	0.1	0.0%	-0.1%	0.1%
9 to 8	Southfleet	Godstone	44.8	33.0	81.6	44.8	32.9	81.7	0.0	0.0	0.1	0.0%	-0.1%	0.1%
9 to 10	Southfleet	Maidstone	29.4	25.0	70.5	29.5	25.2	70.3	0.1	0.1	-0.2	0.3%	0.6%	-0.3%
9 to 11	Southfleet	Rochester	16.9	20.7	48.8	16.9	21.0	48.2	0.0	0.3	-0.6	0.2%	1.4%	-1.2%
9 to 12	Southfleet	Rainham	33.9	28.1	72.2	33.9	28.2	72.3	0.1	0.0	0.1	0.2%	0.1%	0.2%
10 to 1	Maidstone	Cheshunt	88.3	67.0	79.1	83.3	59.9	83.4	-5.0	-7.0	4.3	-5.6%	-10.5%	5.5%
10 to 2	Maidstone	Romford	62.5	53.8	69.7	57.5	45.8	75.3	-5.0	-8.0	5.6	-8.0%	-14.8%	8.0%
10 to 3	Maidstone	Brentwood	59.8	51.7	69.4	54.9	43.6	75.5	-4.9	-8.1	6.2	-8.3%	-15.7%	8.9%
10 to 4	Maidstone	Basildon	63.5	54.9	69.4	50.3	38.7	78.0	-13.2	-16.2	8.6	-20.8%	-29.5%	12.4%
10 to 5	Maidstone	Tilbury Port	58.6	51.5	68.2	49.2	38.4	77.0	-9.4	-13.2	8.8	-16.0%	-25.5%	12.9%
10 to 6	Maidstone	DP World	59.1	50.9	69.6	45.9	34.5	79.7	-13.2	-16.4	10.1	-22.3%	-32.1%	14.4%
10 to 7	Maidstone	Bexley	42.1	33.2	76.1	42.1	32.7	77.3	0.0	-0.5	1.3	0.0%	-1.6%	1.7%
10 to 8	Maidstone	Godstone	48.2	35.4	81.8	48.2	35.1	82.4	0.0	-0.3	0.6	0.0%	-0.8%	0.8%
10 to 9	Maidstone	Southfleet	29.5	24.5	72.3	29.5	23.7	74.7	0.0	-0.8	2.4	0.0%	-3.2%	3.3%
10 to 11	Maidstone	Rochester	15.7	19.6	48.0	15.7	19.7	47.7	0.0	0.1	-0.3	0.0%	0.5%	-0.5%
10 to 12	Maidstone	Rainham	24.1	25.8	55.8	24.1	25.9	55.6	0.0	0.1	-0.2	0.0%	0.4%	-0.4%

11 to 1	Rochester	Cheshunt	74.5	67.9	65.8	70.3	56.2	75.1	-4.2	-11.7	9.3	-5.6%	-17.3%	14.1%
11 to 2	Rochester	Romford	48.7	54.7	53.4	44.5	42.1	63.4	-4.2	-12.6	10.0	-8.7%	-23.1%	18.7%
11 to 3	Rochester	Brentwood	46.0	52.7	52.4	41.9	39.8	63.0	-4.2	-12.8	10.6	-9.0%	-24.3%	20.2%
11 to 4	Rochester	Basildon	49.7	55.8	53.4	37.3	35.0	64.0	-12.4	-20.9	10.6	-25.0%	-37.4%	19.8%
11 to 5	Rochester	Tilbury Port	44.8	52.4	51.2	36.2	34.6	62.8	-8.6	-17.8	11.5	-19.1%	-34.0%	22.5%
11 to 6	Rochester	DP World	45.3	51.8	52.4	32.9	30.8	64.0	-12.4	-21.0	11.6	-27.4%	-40.6%	22.1%
<u>11 to 7</u>	<u>Rochester</u>	<u>Bexley</u>	<u>28.8</u>	<u>31.4</u>	<u>54.9</u>	<u>28.6</u>	<u>30.1</u>	<u>57.0</u>	<u>-0.2</u>	<u>-1.3</u>	<u>2.1</u>	<u>-0.5%</u>	<u>-4.2%</u>	<u>3.8%</u>
<u>11 to 8</u>	<u>Rochester</u>	<u>Godstone</u>	<u>53.7</u>	<u>46.4</u>	<u>69.3</u>	<u>53.7</u>	<u>46.4</u>	<u>69.4</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1%</u>	<u>0.0%</u>	<u>0.1%</u>
<u>11 to 9</u>	<u>Rochester</u>	<u>Southfleet</u>	<u>16.6</u>	<u>20.6</u>	<u>48.4</u>	<u>16.5</u>	<u>20.1</u>	<u>49.2</u>	<u>-0.2</u>	<u>-0.5</u>	<u>0.7</u>	<u>-0.9%</u>	<u>-2.4%</u>	<u>1.5%</u>
<u>11 to 10</u>	<u>Rochester</u>	<u>Maidstone</u>	<u>15.2</u>	<u>19.9</u>	<u>45.8</u>	<u>15.2</u>	<u>20.0</u>	<u>45.6</u>	<u>0.0</u>	<u>0.1</u>	<u>-0.2</u>	<u>-0.2%</u>	<u>0.3%</u>	<u>-0.5%</u>
<u>11 to 12</u>	<u>Rochester</u>	<u>Rainham</u>	<u>9.7</u>	<u>22.3</u>	<u>26.1</u>	<u>9.7</u>	<u>22.3</u>	<u>26.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1%</u>	<u>0.1%</u>	<u>0.1%</u>
12 to 1	Rainham	Cheshunt	91.7	75.0	73.3	87.7	63.2	83.2	-4.0	-11.8	9.9	-4.4%	-15.8%	13.5%
12 to 2	Rainham	Romford	65.9	61.8	64.0	61.8	49.1	75.6	-4.1	-12.8	11.6	-6.2%	-20.6%	18.2%
12 to 3	Rainham	Brentwood	63.3	59.8	63.5	59.2	46.9	75.8	-4.0	-12.9	12.4	-6.4%	-21.6%	19.5%
12 to 4	Rainham	Basildon	67.0	63.0	63.8	54.7	42.0	78.2	-12.3	-21.0	14.4	-18.3%	-33.3%	22.5%
12 to 5	Rainham	Tilbury Port	62.0	59.6	62.5	53.6	41.6	77.2	-8.4	-18.0	14.8	-13.6%	-30.1%	23.7%
12 to 6	Rainham	DP World	62.5	59.0	63.6	50.2	37.8	79.7	-12.3	-21.2	16.1	-19.6%	-35.9%	25.3%

<u>12 to 7</u>	<u>Rainham</u>	<u>Bexley</u>	<u>46.0</u>	<u>38.6</u>	<u>71.6</u>	<u>46.0</u>	<u>37.0</u>	<u>74.7</u>	<u>0.0</u>	<u>-1.6</u>	<u>3.1</u>	<u>0.0%</u>	<u>-4.2%</u>	<u>4.3%</u>
<u>12 to 8</u>	<u>Rainham</u>	<u>Godstone</u>	<u>66.3</u>	<u>50.2</u>	<u>79.3</u>	<u>66.3</u>	<u>50.2</u>	<u>79.3</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0%</u>	<u>0.0%</u>	<u>0.0%</u>
<u>12 to 9</u>	<u>Rainham</u>	<u>Southfleet</u>	<u>33.9</u>	<u>27.8</u>	<u>73.2</u>	<u>33.9</u>	<u>27.0</u>	<u>75.3</u>	<u>0.0</u>	<u>-0.8</u>	<u>2.1</u>	<u>0.0%</u>	<u>-2.9%</u>	<u>2.9%</u>
<u>12 to 10</u>	<u>Rainham</u>	<u>Maidstone</u>	<u>23.5</u>	<u>24.6</u>	<u>57.3</u>	<u>23.5</u>	<u>24.9</u>	<u>56.7</u>	<u>0.0</u>	<u>0.3</u>	<u>-0.6</u>	<u>0.0%</u>	<u>1.1%</u>	<u>-1.1%</u>
<u>12 to 11</u>	<u>Rainham</u>	<u>Rochester</u>	<u>13.7</u>	<u>21.4</u>	<u>38.4</u>	<u>13.7</u>	<u>21.5</u>	<u>38.2</u>	<u>0.0</u>	<u>0.1</u>	<u>-0.2</u>	<u>-0.1%</u>	<u>0.3%</u>	<u>-0.4%</u>

Table 1.9 Route based journey time comparison south to north movements (2030 core DM vs DS) PM peak

Movement	From	To	DM			DS			Difference			Difference %age		
			Distance (km)	Journey Time (mins)	Average Speed (km/h)	Distance (km)	Journey Time (mins)	Average Speed (km/h)	Distance (km)	Journey Time (mins)	Average Speed (km/h)	Distance (km)	Journey Time (mins)	Average Speed (km/h)
7 to 1	Bexley	Cheshunt	61.5	58.1	63.5	61.6	55.0	67.2	0.1	-3.1	3.7	0.1%	-5.4%	5.9%
7 to 2	Bexley	Romford	34.7	43.4	48.0	34.8	39.7	52.5	0.0	-3.7	4.5	0.1%	-8.6%	9.5%
7 to 3	Bexley	Brentwood	33.1	38.1	52.2	33.2	34.6	57.6	0.0	-3.5	5.4	0.1%	-9.3%	10.4%
7 to 4	Bexley	Basildon	36.8	46.0	48.1	36.8	40.4	54.7	0.0	-5.6	6.6	0.0%	-12.1%	13.8%
7 to 5	Bexley	Tilbury Port	28.6	36.0	47.6	28.6	29.6	57.9	0.0	-6.4	10.3	0.0%	-17.8%	21.6%
7 to 6	Bexley	DP World	32.4	40.0	48.5	32.4	34.6	56.2	0.0	-5.5	7.7	0.0%	-13.6%	15.8%
<u>7 to 8</u>	<u>Bexley</u>	<u>Godstone</u>	<u>45.9</u>	<u>37.1</u>	<u>74.2</u>	<u>45.9</u>	<u>37.5</u>	<u>73.4</u>	<u>0.0</u>	<u>0.4</u>	<u>-0.8</u>	<u>0.0%</u>	<u>1.1%</u>	<u>-1.1%</u>
<u>7 to 9</u>	<u>Bexley</u>	<u>Southfleet</u>	<u>15.2</u>	<u>18.3</u>	<u>49.6</u>	<u>16.6</u>	<u>17.4</u>	<u>57.2</u>	<u>1.4</u>	<u>-0.9</u>	<u>7.6</u>	<u>9.3%</u>	<u>-5.1%</u>	<u>15.2%</u>
<u>7 to 10</u>	<u>Bexley</u>	<u>Maidstone</u>	<u>41.8</u>	<u>38.0</u>	<u>66.0</u>	<u>41.8</u>	<u>37.1</u>	<u>67.7</u>	<u>0.0</u>	<u>-0.9</u>	<u>1.7</u>	<u>0.0%</u>	<u>-2.5%</u>	<u>2.5%</u>
<u>7 to 11</u>	<u>Bexley</u>	<u>Rochester</u>	<u>29.3</u>	<u>37.5</u>	<u>46.8</u>	<u>29.4</u>	<u>36.4</u>	<u>48.5</u>	<u>0.2</u>	<u>-1.0</u>	<u>1.7</u>	<u>0.7%</u>	<u>-2.8%</u>	<u>3.5%</u>
<u>7 to 12</u>	<u>Bexley</u>	<u>Rainham</u>	<u>45.9</u>	<u>51.0</u>	<u>54.0</u>	<u>45.9</u>	<u>49.4</u>	<u>55.7</u>	<u>0.1</u>	<u>-1.5</u>	<u>1.8</u>	<u>0.2%</u>	<u>-3.0%</u>	<u>3.3%</u>
8 to 1	Godstone	Cheshunt	91.2	79.6	68.7	91.3	76.8	71.3	0.1	-2.8	2.6	0.1%	-3.5%	3.8%
8 to 2	Godstone	Romford	64.4	64.9	59.5	64.4	61.5	62.8	0.0	-3.4	3.3	0.0%	-5.2%	5.6%
8 to 3	Godstone	Brentwood	62.8	59.6	63.2	62.8	56.4	66.9	0.0	-3.2	3.7	0.1%	-5.4%	5.8%
8 to 4	Godstone	Basildon	66.5	67.5	59.1	66.5	62.2	64.1	0.0	-5.2	5.0	0.0%	-7.8%	8.4%
8 to 5	Godstone	Tilbury Port	58.2	57.5	60.7	58.2	51.4	67.9	0.0	-6.1	7.2	0.0%	-10.5%	11.8%
8 to 6	Godstone	DP World	62.0	61.5	60.5	62.0	56.4	66.0	0.0	-5.1	5.5	0.0%	-8.3%	9.1%
<u>8 to 7</u>	<u>Godstone</u>	<u>Bexley</u>	<u>45.1</u>	<u>44.2</u>	<u>61.3</u>	<u>45.1</u>	<u>44.8</u>	<u>60.4</u>	<u>0.0</u>	<u>0.6</u>	<u>-0.9</u>	<u>0.0%</u>	<u>1.5%</u>	<u>-1.5%</u>
<u>8 to 9</u>	<u>Godstone</u>	<u>Southfleet</u>	<u>45.0</u>	<u>44.1</u>	<u>61.2</u>	<u>46.4</u>	<u>43.8</u>	<u>63.6</u>	<u>1.4</u>	<u>-0.3</u>	<u>2.3</u>	<u>3.1%</u>	<u>-0.7%</u>	<u>3.8%</u>
<u>8 to 10</u>	<u>Godstone</u>	<u>Maidstone</u>	<u>48.4</u>	<u>45.0</u>	<u>64.5</u>	<u>48.4</u>	<u>44.2</u>	<u>65.7</u>	<u>0.0</u>	<u>-0.8</u>	<u>1.2</u>	<u>0.0%</u>	<u>-1.8%</u>	<u>1.8%</u>
<u>8 to 11</u>	<u>Godstone</u>	<u>Rochester</u>	<u>57.6</u>	<u>55.7</u>	<u>62.1</u>	<u>57.6</u>	<u>55.0</u>	<u>62.9</u>	<u>0.0</u>	<u>-0.7</u>	<u>0.8</u>	<u>0.0%</u>	<u>-1.3%</u>	<u>1.3%</u>

8 to 12	Godstone	Rainham	71.2	67.7	63.2	71.2	67.3	63.5	0.0	-0.4	0.4	0.0%	-0.6%	0.6%
9 to 1	Southfleet	Cheshunt	60.6	56.3	64.6	60.7	52.2	69.8	0.1	-4.1	5.2	0.2%	-7.3%	8.0%
9 to 2	Southfleet	Romford	33.9	41.7	48.8	33.9	36.9	55.0	0.0	-4.7	6.3	0.1%	-11.3%	12.8%
9 to 3	Southfleet	Brentwood	32.3	36.3	53.3	32.3	31.8	61.0	0.0	-4.5	7.7	0.1%	-12.4%	14.4%
9 to 4	Southfleet	Basildon	36.0	44.2	48.8	35.9	32.1	67.1	-0.1	-12.1	18.3	-0.1%	-27.3%	37.4%
9 to 5	Southfleet	Tilbury Port	27.7	34.2	48.6	31.5	25.1	75.4	3.8	-9.2	26.9	13.7%	-26.8%	55.3%
9 to 6	Southfleet	DP World	31.5	38.3	49.5	31.5	26.3	71.8	0.0	-12.0	22.4	-0.2%	-31.3%	45.2%
9 to 7	Southfleet	Bexley	15.0	18.4	49.1	15.0	18.4	49.0	0.0	0.0	-0.1	-0.1%	0.2%	-0.3%
9 to 8	Southfleet	Godstone	44.8	34.0	79.2	44.8	34.1	78.9	0.0	0.1	-0.3	0.0%	0.3%	-0.3%
9 to 10	Southfleet	Maidstone	29.4	32.7	54.0	29.5	31.2	56.9	0.2	-1.5	2.9	0.5%	-4.6%	5.4%
9 to 11	Southfleet	Rochester	17.3	29.3	35.3	17.5	27.3	38.6	0.3	-2.1	3.3	1.6%	-7.0%	9.2%
9 to 12	Southfleet	Rainham	33.9	42.8	47.4	34.0	40.3	50.7	0.2	-2.5	3.2	0.5%	-5.9%	6.8%
10 to 1	Maidstone	Cheshunt	88.2	74.1	71.4	83.3	68.5	72.9	-4.9	-5.6	1.5	-5.6%	-7.6%	2.2%
10 to 2	Maidstone	Romford	61.4	59.4	62.0	56.4	53.2	63.6	-5.0	-6.2	1.6	-8.1%	-10.5%	2.6%
10 to 3	Maidstone	Brentwood	59.8	54.1	66.3	54.9	48.1	68.4	-5.0	-6.0	2.1	-8.3%	-11.1%	3.2%
10 to 4	Maidstone	Basildon	63.5	62.0	61.5	50.3	45.2	66.9	-13.2	-16.8	5.3	-20.8%	-27.1%	8.7%
10 to 5	Maidstone	Tilbury Port	55.2	52.0	63.7	45.9	38.1	72.3	-9.4	-13.9	8.5	-16.9%	-26.7%	13.4%
10 to 6	Maidstone	DP World	59.1	56.0	63.3	45.9	39.3	70.0	-13.2	-16.7	6.7	-22.3%	-29.8%	10.6%
10 to 7	Maidstone	Bexley	42.4	37.7	67.3	42.4	37.4	68.0	0.0	-0.4	0.7	0.0%	-1.0%	1.0%
10 to 8	Maidstone	Godstone	48.2	36.9	78.4	48.2	36.6	79.1	0.0	-0.3	0.7	0.0%	-0.9%	0.9%
10 to 9	Maidstone	Southfleet	29.5	27.1	65.4	29.5	27.8	63.8	0.0	0.7	-1.6	0.0%	2.5%	-2.5%
10 to 11	Maidstone	Rochester	15.7	22.9	41.0	15.7	22.9	41.0	0.0	0.0	0.0	0.0%	0.0%	0.0%
10 to 12	Maidstone	Rainham	24.1	37.7	38.3	24.1	39.3	36.7	0.0	1.7	-1.6	0.0%	4.4%	-4.2%
11 to 1	Rochester	Cheshunt	74.4	78.9	56.6	70.3	66.5	63.4	-4.1	-12.4	6.8	-5.5%	-15.7%	12.1%
11 to 2	Rochester	Romford	47.6	64.2	44.5	43.4	51.2	50.9	-4.2	-13.0	6.4	-8.8%	-20.3%	14.4%

11 to 3	Rochester	Brentwood	46.0	58.9	46.9	41.9	46.1	54.5	-4.2	-12.8	7.6	-9.0%	-21.7%	16.2%
11 to 4	Rochester	Basildon	49.7	66.8	44.7	37.3	43.2	51.9	-12.4	-23.6	7.2	-25.0%	-35.4%	16.1%
11 to 5	Rochester	Tilbury Port	41.5	56.8	43.8	32.9	36.1	54.7	-8.6	-20.7	10.9	-20.7%	-36.5%	24.8%
11 to 6	Rochester	DP World	45.3	60.8	44.7	32.9	37.3	52.8	-12.4	-23.5	8.2	-27.4%	-38.6%	18.3%
11 to 7	Rochester	Bexley	28.8	41.0	42.2	28.6	39.2	43.8	-0.2	-1.7	1.6	-0.6%	-4.2%	3.8%
11 to 8	Rochester	Godstone	53.7	48.1	67.0	53.7	48.0	67.1	0.0	-0.1	0.1	0.0%	-0.2%	0.2%
11 to 9	Rochester	Southfleet	16.7	26.3	38.0	16.5	25.9	38.2	-0.1	-0.4	0.3	-0.9%	-1.6%	0.7%
11 to 10	Rochester	Maidstone	15.1	26.5	34.2	15.1	26.3	34.5	0.0	-0.3	0.3	-0.2%	-1.1%	0.8%
11 to 12	Rochester	Rainham	13.7	28.7	28.6	13.7	28.9	28.4	0.0	0.2	-0.2	0.0%	0.7%	-0.6%
12 to 1	Rainham	Cheshunt	91.6	85.2	64.5	87.6	72.0	73.0	-4.0	-13.2	8.5	-4.3%	-15.5%	13.2%
12 to 2	Rainham	Romford	64.8	70.5	55.2	60.8	56.7	64.3	-4.1	-13.8	9.1	-6.3%	-19.6%	16.6%
12 to 3	Rainham	Brentwood	63.3	65.2	58.2	59.2	51.6	68.9	-4.0	-13.6	10.6	-6.4%	-20.8%	18.3%
12 to 4	Rainham	Basildon	67.0	73.0	55.0	54.7	48.7	67.4	-12.3	-24.4	12.4	-18.3%	-33.4%	22.6%
12 to 5	Rainham	Tilbury Port	58.7	63.1	55.8	50.2	41.6	72.5	-8.4	-21.5	16.7	-14.4%	-34.1%	29.9%
12 to 6	Rainham	DP World	62.5	67.1	55.9	50.2	42.8	70.4	-12.3	-24.3	14.5	-19.6%	-36.2%	25.9%
12 to 7	Rainham	Bexley	46.0	47.2	58.5	46.0	44.6	61.9	0.0	-2.7	3.4	-0.1%	-5.6%	5.9%
12 to 8	Rainham	Godstone	66.3	54.9	72.5	66.3	55.6	71.5	0.0	0.8	-1.0	0.0%	1.4%	-1.4%
12 to 9	Rainham	Southfleet	33.9	32.6	62.3	33.9	31.3	65.0	0.0	-1.4	2.7	0.0%	-4.2%	4.3%
12 to 10	Rainham	Maidstone	23.5	29.6	47.6	23.5	30.6	46.0	0.0	1.0	-1.6	0.0%	3.5%	-3.4%
12 to 11	Rainham	Rochester	13.6	24.3	33.5	13.6	24.2	33.7	0.0	-0.1	0.2	0.1%	-0.5%	0.6%

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