

# Longer Semi-trailers Feasibility Study and Impact Assessment

## Technical Report D5: Annex – Economic Assessment Data FINAL DRAFT

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**Table A1: Environmental Cost Values by Category**

<b>2010 values</b>									
pence per HGV km, 2009 prices	London/Conurbations			Urban			Rural		
	Motorways	A-roads	Other roads	Motorways	A-roads	Other roads	Motorways	A-roads	Other roads
Congestion	18	183	107	13	56	44	13	8	10
Accidents	0	3	3	0	3	3	0	3	3
Noise	12	12	12	2	10	10	2	2	3
Pollution	2	4	4	1	2	3	1	1	1
Climate Change	4	7	6	4	5	6	4	5	5
Infrastructure	5	15	77	5	14	77	5	12	77
<b>Total</b>	<b>40</b>	<b>223</b>	<b>210</b>	<b>25</b>	<b>90</b>	<b>143</b>	<b>25</b>	<b>31</b>	<b>99</b>

<b>2015 values</b>									
pence per HGV km, 2009 prices	London/Conurbations			Urban			Rural		
	Motorways	A-roads	Other roads	Motorways	A-roads	Other roads	Motorways	A-roads	Other roads
Congestion	26	227	128	20	70	52	20	11	14
Accidents	0	3	3	0	3	3	0	3	3
Noise	13	13	14	2	11	11	2	2	3
Pollution	1	3	3	1	2	2	1	1	1
Climate Change	5	7	7	5	6	6	5	5	5
Infrastructure	4	13	68	4	12	68	4	11	68
<b>Total</b>	<b>49</b>	<b>266</b>	<b>222</b>	<b>31</b>	<b>104</b>	<b>142</b>	<b>31</b>	<b>32</b>	<b>93</b>

**Table A1 continued**

<b>2025 values</b>									
pence per HGV km, 2009 prices	London/Conurbations			Urban			Rural		
	Motorways	A-roads	Other roads	Motorways	A-roads	Other roads	Motorways	A-roads	Other roads
Congestion	52	351	200	43	110	70	43	21	24
Accidents	0	3	3	0	3	3	0	3	3
Noise	16	17	17	3	14	14	3	3	4
Pollution	1	3	3	1	2	2	1	1	1
Climate Change	5	9	8	5	7	7	5	5	5
Infrastructure	3	10	52	3	9	52	3	8	52
<b>Total</b>	<b>77</b>	<b>392</b>	<b>282</b>	<b>54</b>	<b>144</b>	<b>148</b>	<b>54</b>	<b>41</b>	<b>89</b>

<b>2020 values. Interpolated from 2015 and 2025</b>									
pence per HGV km, 2009 prices	London/Conurbations			Urban			Rural		
	Motorways	A-roads	Other roads	Motorways	A-roads	Other roads	Motorways	A-roads	Other roads
Congestion	39	289	164	31	90	61	31	16	19
Accidents	0	3	3	0	3	3	0	3	3
Noise	15	15	15	3	13	13	3	3	3
Pollution	1	3	3	1	2	2	1	1	1
Climate Change	5	8	7	5	6	6	5	5	5
Infrastructure	4	11	60	4	11	60	4	10	60
<b>Total</b>	<b>63</b>	<b>329</b>	<b>252</b>	<b>43</b>	<b>124</b>	<b>145</b>	<b>43</b>	<b>37</b>	<b>91</b>

**Table A2: Capital costs of existing tractor unit and semi-trailers and Estimated Capital Costs of longer semi-trailer equipment**

4x2 Tractor unit - 34 tonnes gvw	£55,600
4x2 Tractor unit - 40 tonnes gvw	£63,000
6x2 Tractor unit - 44 tonnes gvw	£69,200
13.6m Twin-axle semi-trailer	£17,000
13.6m Tri-axle semi-trailer	£19,000
13.6m Tri-axle semi-trailer 4.9m height	£30,000
14.6m tri-axle semi-trailer, 4.0m height, fixed axles	£19,514
14.6m tri-axle semi-trailer, 4.9m height, fixed axles	£30,590
14.6m tri-axle semi-trailer, 4.0m height, 1 x self-steer axle	£21,814
14.6m tri-axle semi-trailer, 4.9m height, 1 x self-steer axle	£32,890
14.6m tri-axle semi-trailer, 4.0m height, active steering	£25,514
14.6m tri-axle semi-trailer, 4.9m height, active steering	£36,590
15.65m tri-axle semi-trailer, 4.0m height, 2 x self-steer axles	£24,628
15.65m tri-axle semi-trailer, 4.9m height, 2 x self-steer axles	£35,780
15.65m tri-axle semi-trailer, 4.0m height, 1 x command-steer axle	£24,028
15.65m tri-axle semi-trailer, 4.9m height, 1 x command-steer axle	£35,180
15.65m tri-axle semi-trailer, 4.0m height, 2 x command-steer axles	£26,628
15.65m tri-axle semi-trailer, 4.9m height, 2 x command-steer axles	£37,780
15.65m tri-axle semi-trailer, 4.0m height, active steering	£26,028
15.65m tri-axle semi-trailer, 4.9m height, active steering	£37,180

**Table A3: Existing Goods Vehicles Operating Costs for 2009 and Forecast Years**

	Fixed Cost per operating hour				% Change
	2009	2015	2020	2025	2025 v 2009
4x2 and twin-axle semi-trailer standard height	£30.80	£32.42	£33.86	£35.19	14%
4x2 and tri-axle semi-trailer standard height	£32.23	£33.85	£35.30	£36.62	14%
4x2 and tri-axle semi-trailer 4.9m height	£33.07	£34.69	£36.14	£37.46	13%
6x2 and tri-axle semi-trailer standard height	£33.59	£35.21	£36.65	£37.98	13%
6x2 and tri-axle semi-trailer standard height	£33.59	£35.21	£36.65	£37.98	13%
6x2 and tri-axle semi-trailer 4.9m height	£34.43	£36.05	£37.49	£38.82	13%
2 axle rigid and twin-axle trailer	£31.05	£32.67	£34.11	£35.44	14%
2 axle rigid and tri-axle trailer	£31.26	£32.88	£34.32	£35.65	14%
3 axle rigid and twin-axle trailer	£31.82	£33.44	£34.89	£36.21	14%
3 axle rigid and tri-axle trailer	£31.69	£33.32	£34.76	£36.09	14%
	Running cost per km				% Change
	2009	2015	2020	2025	2025 v 2009
4x2 and twin-axle semi-trailer standard height	£0.33	£0.34	£0.34	£0.34	5%
4x2 and tri-axle semi-trailer standard height	£0.36	£0.37	£0.37	£0.38	5%
4x2 and tri-axle semi-trailer 4.9m height	£0.41	£0.42	£0.43	£0.43	5%
6x2 and tri-axle semi-trailer standard height	£0.38	£0.39	£0.39	£0.40	5%
6x2 and tri-axle semi-trailer standard height	£0.39	£0.40	£0.41	£0.41	5%
6x2 and tri-axle semi-trailer 4.9m height	£0.43	£0.45	£0.45	£0.45	5%
2 axle rigid and twin-axle trailer	£0.32	£0.32	£0.33	£0.33	5%
2 axle rigid and tri-axle trailer	£0.38	£0.39	£0.39	£0.40	5%
3 axle rigid and twin-axle trailer	£0.38	£0.39	£0.39	£0.40	5%
3 axle rigid and tri-axle trailer	£0.39	£0.40	£0.40	£0.40	5%
	Cost per vehicle-km*				% Change
	2009	2015	2020	2025	2025 v 2009
4x2 and twin-axle semi-trailer standard height	£0.98	£1.02	£1.06	£1.09	11%
4x2 and tri-axle semi-trailer standard height	£1.04	£1.09	£1.12	£1.15	11%
4x2 and tri-axle semi-trailer 4.9m height	£1.11	£1.16	£1.19	£1.22	10%
6x2 and tri-axle semi-trailer standard height	£1.09	£1.13	£1.17	£1.20	10%
6x2 and tri-axle semi-trailer standard height	£1.10	£1.15	£1.18	£1.21	10%
6x2 and tri-axle semi-trailer 4.9m height	£1.16	£1.21	£1.24	£1.27	10%
2 axle rigid and twin-axle trailer	£0.97	£1.02	£1.05	£1.08	11%
2 axle rigid and tri-axle trailer	£1.04	£1.09	£1.12	£1.15	11%
3 axle rigid and twin-axle trailer	£1.05	£1.10	£1.13	£1.16	11%
3 axle rigid and tri-axle trailer	£1.06	£1.10	£1.14	£1.17	10%

\* based on 130,000km per annum

**Table A3 continued**

	<b>Cost per pallet-km*</b>				<b>% Change</b>
	2009	2015	2020	2025	2025 v 2009
4x2 and twin-axle semi-trailer standard height	£0.0377	£0.0394	£0.0407	£0.0419	11%
4x2 and tri-axle semi-trailer standard height	£0.0401	£0.0418	£0.0431	£0.0443	11%
4x2 and tri-axle semi-trailer 4.9m height	£0.0232	£0.0241	£0.0248	£0.0255	10%
6x2 and tri-axle semi-trailer standard height	£0.0419	£0.0436	£0.0449	£0.0462	10%
6x2 and tri-axle semi-trailer standard height	£0.0424	£0.0442	£0.0455	£0.0467	10%
6x2 and tri-axle semi-trailer 4.9m height	£0.0242	£0.0252	£0.0259	£0.0266	10%
2 axle rigid and twin-axle trailer	£0.0324	£0.0338	£0.0350	£0.0360	11%
2 axle rigid and tri-axle trailer	£0.0347	£0.0362	£0.0373	£0.0383	11%
3 axle rigid and twin-axle trailer	£0.0350	£0.0365	£0.0377	£0.0387	11%
3 axle rigid and tri-axle trailer	£0.0352	£0.0367	£0.0378	£0.0389	10%

*\* based on 130,000km per annum and full pallet capacity*

**Table A4: 14.6m Longer Semi-trailer Operating Costs for Forecast Years**

	Fixed Cost per operating hour			2015 v Equivalent Existing HGV	2015 v Equivalent Existing HGV (%)
	2015	2020	2025		
4x2 & 14.6m tri-axle semi-trailer, 4.0m height, fixed axles	£33.89	£35.34	£36.66	£0.04	0.12%
4x2 & 14.6m tri-axle semi-trailer, 4.9m height, fixed axles	£34.74	£36.18	£37.51	£0.05	0.13%
4x2 & 14.6m tri-axle semi-trailer, 4.0m height, 1 x self-steer axle	£34.07	£35.51	£36.84	£0.21	0.63%
4x2 & 14.6m tri-axle semi-trailer, 4.9m height, 1 x self-steer axle	£34.91	£36.36	£37.68	£0.22	0.64%
4x2 & 14.6m tri-axle semi-trailer, 4.0m height, active steering	£34.35	£35.79	£37.12	£0.50	1.47%
4x2 & 14.6m tri-axle semi-trailer, 4.9m height, active steering	£35.20	£36.64	£37.96	£0.50	1.45%
6x2 & 14.6m tri-axle semi-trailer, 4.0m height, fixed axles	£35.25	£36.69	£38.02	£0.04	0.11%
6x2 & 14.6m tri-axle semi-trailer, 4.9m height, fixed axles	£36.10	£37.54	£38.86	£0.05	0.12%
6x2 & 14.6m tri-axle semi-trailer, 4.0m height, 1 x self-steer axle	£35.43	£36.87	£38.19	£0.21	0.61%
6x2 & 14.6m tri-axle semi-trailer, 4.9m height, 1 x self-steer axle	£36.27	£37.72	£39.04	£0.22	0.61%
6x2 & 14.6m tri-axle semi-trailer, 4.0m height, active steering	£35.71	£37.15	£38.48	£0.50	1.41%
6x2 & 14.6m tri-axle semi-trailer, 4.9m height, active steering	£36.55	£38.00	£39.32	£0.50	1.40%

Table A4 continued

	Running cost per km			2015 v Equivalent Existing HGV	2015 v Equivalent Existing HGV (%)
	2015	2020	2025		
4x2 & 14.6m tri-axle semi-trailer, 4.0m height, fixed axles	£0.38	£0.38	£0.39	£0.01	2.58%
4x2 & 14.6m tri-axle semi-trailer, 4.9m height, fixed axles	£0.43	£0.44	£0.44	£0.01	2.52%
4x2 & 14.6m tri-axle semi-trailer, 4.0m height, 1 x self-steer axle	£0.38	£0.38	£0.39	£0.01	2.58%
4x2 & 14.6m tri-axle semi-trailer, 4.9m height, 1 x self-steer axle	£0.43	£0.44	£0.44	£0.01	2.52%
4x2 & 14.6m tri-axle semi-trailer, 4.0m height, active steering	£0.38	£0.38	£0.39	£0.01	2.58%
4x2 & 14.6m tri-axle semi-trailer, 4.9m height, active steering	£0.43	£0.44	£0.44	£0.01	2.52%
6x2 & 14.6m tri-axle semi-trailer, 4.0m height, fixed axles	£0.40	£0.40	£0.41	£0.01	2.57%
6x2 & 14.6m tri-axle semi-trailer, 4.9m height, fixed axles	£0.46	£0.46	£0.46	£0.01	2.49%
6x2 & 14.6m tri-axle semi-trailer, 4.0m height, 1 x self-steer axle	£0.41	£0.42	£0.42	£0.01	2.56%
6x2 & 14.6m tri-axle semi-trailer, 4.9m height, 1 x self-steer axle	£0.46	£0.46	£0.46	£0.01	2.49%
6x2 & 14.6m tri-axle semi-trailer, 4.0m height, active steering	£0.41	£0.42	£0.42	£0.01	2.56%
6x2 & 14.6m tri-axle semi-trailer, 4.9m height, active steering	£0.46	£0.46	£0.46	£0.01	2.49%

Table A4 continued

	Cost per vehicle-km*			2015 v Equivalent Existing HGV	2015 v Equivalent Existing HGV (%)
	2015	2020	2025		
4x2 & 14.6m tri-axle semi-trailer, 4.0m height, fixed axles	£1.10	£1.13	£1.16	£0.01	0.96%
4x2 & 14.6m tri-axle semi-trailer, 4.9m height, fixed axles	£1.17	£1.20	£1.24	£0.01	1.00%
4x2 & 14.6m tri-axle semi-trailer, 4.0m height, 1 x self-steer axle	£1.10	£1.13	£1.17	£0.01	1.30%
4x2 & 14.6m tri-axle semi-trailer, 4.9m height, 1 x self-steer axle	£1.17	£1.21	£1.24	£0.02	1.33%
4x2 & 14.6m tri-axle semi-trailer, 4.0m height, active steering	£1.11	£1.14	£1.17	£0.02	1.85%
4x2 & 14.6m tri-axle semi-trailer, 4.9m height, active steering	£1.18	£1.21	£1.25	£0.02	1.84%
6x2 & 14.6m tri-axle semi-trailer, 4.0m height, fixed axles	£1.15	£1.18	£1.21	£0.01	0.96%
6x2 & 14.6m tri-axle semi-trailer, 4.9m height, fixed axles	£1.22	£1.26	£1.29	£0.01	1.00%
6x2 & 14.6m tri-axle semi-trailer, 4.0m height, 1 x self-steer axle	£1.16	£1.20	£1.23	£0.01	1.30%
6x2 & 14.6m tri-axle semi-trailer, 4.9m height, 1 x self-steer axle	£1.22	£1.26	£1.29	£0.02	1.31%
6x2 & 14.6m tri-axle semi-trailer, 4.0m height, active steering	£1.17	£1.20	£1.24	£0.02	1.82%
6x2 & 14.6m tri-axle semi-trailer, 4.9m height, active steering	£1.23	£1.26	£1.30	£0.02	1.80%

\* based on 130,000km per annum

Table A4 continued

	Cost per pallet-km*			2015 v Equivalent Existing HGV	2015 v Equivalent Existing HGV (%)
	2015	2020	2025		
4x2 & 14.6m tri-axle semi-trailer, 4.0m height, fixed axles	£0.0392	£0.0404	£0.0415	-£0.0026	-6.26%
4x2 & 14.6m tri-axle semi-trailer, 4.9m height, fixed axles	£0.0225	£0.0232	£0.0238	-£0.0016	-6.77%
4x2 & 14.6m tri-axle semi-trailer, 4.0m height, 1 x self-steer axle	£0.0393	£0.0405	£0.0416	-£0.0025	-5.94%
4x2 & 14.6m tri-axle semi-trailer, 4.9m height, 1 x self-steer axle	£0.0226	£0.0232	£0.0238	-£0.0016	-6.47%
4x2 & 14.6m tri-axle semi-trailer, 4.0m height, active steering	£0.0395	£0.0407	£0.0418	-£0.0023	-5.43%
4x2 & 14.6m tri-axle semi-trailer, 4.9m height, active steering	£0.0227	£0.0233	£0.0240	-£0.0014	-5.99%
6x2 & 14.6m tri-axle semi-trailer, 4.0m height, fixed axles	£0.0409	£0.0421	£0.0433	-£0.0033	-7.43%
6x2 & 14.6m tri-axle semi-trailer, 4.9m height, fixed axles	£0.0235	£0.0241	£0.0248	-£0.0017	-6.77%
6x2 & 14.6m tri-axle semi-trailer, 4.0m height, 1 x self-steer axle	£0.0416	£0.0428	£0.0439	-£0.0026	-5.94%
6x2 & 14.6m tri-axle semi-trailer, 4.9m height, 1 x self-steer axle	£0.0235	£0.0242	£0.0248	-£0.0016	-6.49%
6x2 & 14.6m tri-axle semi-trailer, 4.0m height, active steering	£0.0418	£0.0430	£0.0441	-£0.0024	-5.46%
6x2 & 14.6m tri-axle semi-trailer, 4.9m height, active steering	£0.0237	£0.0243	£0.0249	-£0.0015	-6.03%

\* based on 130,000km per annum and full pallet capacity

**Table A5: 15.65m Longer Semi-trailer Operating Costs for Forecast Years**

	Fixed Cost per operating hour			2015 v Equivalent	2015 v Equivalent
	2015	2020	2025	Existing HGV	Existing HGV (%)
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x self-steer axles	£34.28	£35.73	£37.05	£0.43	1.27%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x self-steer axles	£35.13	£36.58	£37.90	£0.44	1.27%
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, 1 x command-steer axle	£34.24	£35.68	£37.01	£0.38	1.13%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, 1 x command-steer axle	£35.09	£36.53	£37.86	£0.40	1.14%
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x command-steer axles	£34.44	£35.88	£37.20	£0.58	1.72%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x command-steer axles	£35.29	£36.73	£38.06	£0.59	1.71%
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, active steering	£34.39	£35.83	£37.16	£0.54	1.59%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, active steering	£35.24	£36.68	£38.01	£0.55	1.58%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x self-steer axles	£35.64	£37.08	£38.41	£0.43	1.22%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x self-steer axles	£36.49	£37.94	£39.26	£0.44	1.22%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, 1 x command-steer axle	£35.60	£37.04	£38.36	£0.38	1.09%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, 1 x command-steer axle	£36.45	£37.89	£39.22	£0.40	1.10%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x command-steer axles	£35.79	£37.24	£38.56	£0.58	1.65%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x command-steer axles	£36.65	£38.09	£39.41	£0.59	1.65%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, active steering	£35.75	£37.19	£38.52	£0.54	1.52%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, active steering	£36.60	£38.04	£39.37	£0.55	1.52%

Table A5 continued

	Running cost per km			2015 v Equivalent	2015 v Equivalent
	2015	2020	2025	Existing HGV	Existing HGV (%)
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x self-steer axles	£0.38	£0.38	£0.39	£0.01	2.58%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x self-steer axles	£0.43	£0.44	£0.44	£0.01	2.52%
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, 1 x command-steer axle	£0.38	£0.38	£0.39	£0.01	2.58%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, 1 x command-steer axle	£0.43	£0.44	£0.44	£0.01	2.52%
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x command-steer axles	£0.38	£0.38	£0.39	£0.01	2.58%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x command-steer axles	£0.43	£0.44	£0.44	£0.01	2.52%
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, active steering	£0.38	£0.38	£0.39	£0.01	2.58%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, active steering	£0.43	£0.42	£0.43	£0.01	2.52%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x self-steer axles	£0.41	£0.42	£0.42	£0.01	2.56%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x self-steer axles	£0.46	£0.46	£0.46	£0.01	2.49%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, 1 x command-steer axle	£0.41	£0.42	£0.42	£0.01	2.56%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, 1 x command-steer axle	£0.46	£0.46	£0.46	£0.01	2.49%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x command-steer axles	£0.41	£0.42	£0.42	£0.01	2.56%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x command-steer axles	£0.46	£0.46	£0.46	£0.01	2.49%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, active steering	£0.41	£0.42	£0.42	£0.01	2.56%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, active steering	£0.46	£0.46	£0.46	£0.01	2.49%

Table A5 continued

	Cost per vehicle-km*			2015 v Equivalent	2015 v Equivalent
	2015	2020	2025	Existing HGV	Existing HGV (%)
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x self-steer axles	£1.11	£1.14	£1.17	£0.02	1.72%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x self-steer axles	£1.18	£1.21	£1.24	£0.02	1.73%
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, 1 x command-steer axle	£1.10	£1.14	£1.17	£0.02	1.63%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, 1 x command-steer axle	£1.18	£1.21	£1.24	£0.02	1.64%
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x command-steer axles	£1.11	£1.14	£1.17	£0.02	2.01%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x command-steer axles	£1.18	£1.22	£1.25	£0.02	2.01%
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, active steering	£1.11	£1.14	£1.17	£0.02	1.92%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, active steering	£1.18	£1.20	£1.23	£0.02	1.92%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x self-steer axles	£1.17	£1.20	£1.23	£0.02	1.69%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x self-steer axles	£1.23	£1.26	£1.30	£0.02	1.69%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, 1 x command-steer axle	£1.17	£1.20	£1.23	£0.02	1.61%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, 1 x command-steer axle	£1.23	£1.26	£1.29	£0.02	1.61%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x command-steer axles	£1.17	£1.21	£1.24	£0.02	1.97%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x command-steer axles	£1.23	£1.27	£1.30	£0.02	1.96%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, active steering	£1.17	£1.21	£1.24	£0.02	1.89%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, active steering	£1.23	£1.27	£1.30	£0.02	1.88%

Table A5 continued

	Cost per pallet-km*			2015 v Equivalent	2015 v Equivalent
	2015	2020	2025	Existing HGV	Existing HGV (%)
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x self-steer axles	£0.0368	£0.0380	£0.0390	-£0.0050	-11.85%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x self-steer axles	£0.0210	£0.0216	£0.0222	-£0.0031	-12.80%
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, 1 x command-steer axle	£0.0368	£0.0379	£0.0390	-£0.0050	-11.92%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, 1 x command-steer axle	£0.0210	£0.0216	£0.0222	-£0.0031	-12.88%
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x command-steer axles	£0.0369	£0.0381	£0.0391	-£0.0048	-11.59%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x command-steer axles	£0.0211	£0.0217	£0.0223	-£0.0030	-12.57%
4x2 & 15.65m tri-axle semi-trailer, 4.0m height, active steering	£0.0369	£0.0380	£0.0391	-£0.0049	-11.67%
4x2 & 15.65m tri-axle semi-trailer, 4.9m height, active steering	£0.0211	£0.0214	£0.0220	-£0.0030	-12.64%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x self-steer axles	£0.0390	£0.0401	£0.0411	-£0.0052	-11.87%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x self-steer axles	£0.0219	£0.0226	£0.0231	-£0.0032	-12.83%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, 1 x command-steer axle	£0.0389	£0.0401	£0.0411	-£0.0053	-11.94%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, 1 x command-steer axle	£0.0219	£0.0225	£0.0231	-£0.0032	-12.90%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, 2 x command-steer axles	£0.0391	£0.0402	£0.0413	-£0.0051	-11.62%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, 2 x command-steer axles	£0.0220	£0.0226	£0.0232	-£0.0032	-12.61%
6x2 & 15.65m tri-axle semi-trailer, 4.0m height, active steering	£0.0390	£0.0402	£0.0412	-£0.0052	-11.70%
6x2 & 15.65m tri-axle semi-trailer, 4.9m height, active steering	£0.0220	£0.0226	£0.0232	-£0.0032	-12.67%

\* based on 130,000km per annum and full pallet capacity

**Table A6: Traffic Forecasts for Central Case, Low and High Scenarios (tonnes lifted) – Use of Existing Length Intermodal Units**

<b>Option</b>	<b>Domestic Intermodal Rail</b>	<b>000s tonnes</b>				<b>+/- v Base Case</b>		
		2009	2015	2020	2025	2015	2020	2025
0	Base Case	1,955	6,586	10,444	14,303	NA	NA	NA
1	14.6m Fixed Axles	0	4,636	6,871	9,105	-1,949	-3,574	-5,198
2	14.6m Single Self-steer Axle	0	4,636	6,871	9,105	-1,949	-3,574	-5,198
3	14.6m Active Steering	0	4,636	6,871	9,105	-1,949	-3,574	-5,198
4	15.65m 2 x Self-steer Axles	0	3,139	4,126	5,113	-3,447	-6,319	-9,191
5	15.65m 1 x Command-steer Axle	0	3,139	4,126	5,113	-3,447	-6,319	-9,191
6	15.65m 2 x Command-steer Axles	0	3,139	4,126	5,113	-3,447	-6,319	-9,191
7	15.65m Active Steering	0	3,139	4,126	5,113	-3,447	-6,319	-9,191
<b>Option</b>	<b>Road Haulage</b>		<b>000s tonnes</b>			<b>+/- v Base Case</b>		
		2009	2015	2020	2025	2015	2020	2025
0	Base Case	430,834	438,361	444,633	450,906	NA	NA	NA
1	14.6m Fixed Axles	0	440,310	448,207	456,104	1,949	3,574	5,198
2	14.6m Single Self-steer Axle	0	440,310	448,207	456,104	1,949	3,574	5,198
3	14.6m Active Steering	0	440,310	448,207	456,104	1,949	3,574	5,198
4	15.65m 2 x Self-steer Axles	0	441,808	450,952	460,096	3,447	6,319	9,191
5	15.65m 1 x Command-steer Axle	0	441,808	450,952	460,096	3,447	6,319	9,191
6	15.65m 2 x Command-steer Axles	0	441,808	450,952	460,096	3,447	6,319	9,191
7	15.65m Active Steering	0	441,808	450,952	460,096	3,447	6,319	9,191
	<b>Total Domestic Unit Load</b>		<b>000s tonnes</b>			<b>+/- v Base Case</b>		
		2009	2015	2020	2025	2015	2020	2025
	All Options	432,789	444,947	455,078	465,209			

**Table A7: Traffic Forecasts for Central Case, Low and High Scenarios (tonne-km) – Use of Existing Length Intermodal Units**

<b>Option</b>	<b>Domestic Intermodal Rail</b>	<b>000s tonne-km</b>				<b>+/- v Base Case</b>		
		2009	2015	2020	2025	2015	2020	2025
0	Base Case	666,896	3,077,468	5,086,277	7,095,086	NA	NA	NA
1	14.6m Fixed Axles	0	2,289,904	3,642,410	4,994,916	-787,564	-1,443,867	-2,100,170
2	14.6m Single Self-steer Axle	0	2,289,904	3,642,410	4,994,916	-787,564	-1,443,867	-2,100,170
3	14.6m Active Steering	0	2,289,904	3,642,410	4,994,916	-787,564	-1,443,867	-2,100,170
4	15.65m 2 x Self-steer Axles	0	1,610,606	2,397,030	3,183,455	-1,466,862	-2,689,246	-3,911,631
5	15.65m 1 x Command-steer Axle	0	1,610,606	2,397,030	3,183,455	-1,466,862	-2,689,246	-3,911,631
6	15.65m 2 x Command-steer Axles	0	1,610,606	2,397,030	3,183,455	-1,466,862	-2,689,246	-3,911,631
7	15.65m Active Steering	0	1,610,606	2,397,030	3,183,455	-1,466,862	-2,689,246	-3,911,631
	<b>Option Road Haulage</b>							
			<b>000s tonne-km</b>			<b>+/- v Base Case</b>		
		2009	2015	2020	2025	2015	2020	2025
0	Base Case	60,900,556	60,335,236	59,864,136	59,393,036	NA	NA	NA
1	14.6m Fixed Axles	0	61,074,066	61,218,658	61,363,249	738,830	1,354,522	1,970,214
2	14.6m Single Self-steer Axle	0	61,074,066	61,218,658	61,363,249	738,830	1,354,522	1,970,214
3	14.6m Active Steering	0	61,074,066	61,218,658	61,363,249	738,830	1,354,522	1,970,214
4	15.65m 2 x Self-steer Axles	0	61,715,935	62,395,417	63,074,899	1,380,699	2,531,281	3,681,863
5	15.65m 1 x Command-steer Axle	0	61,715,935	62,395,417	63,074,899	1,380,699	2,531,281	3,681,863
6	15.65m 2 x Command-steer Axles	0	61,715,935	62,395,417	63,074,899	1,380,699	2,531,281	3,681,863
7	15.65m Active Steering	0	61,715,935	62,395,417	63,074,899	1,380,699	2,531,281	3,681,863
	<b>Total Domestic Unit Load</b>							
		2009	2015	2020	2025	2015	2020	2025
	All Options	61,567,452	63,412,704	64,950,413	66,488,122	0	0	0

**Table A8: Traffic Forecasts for Central Case, Low and High Scenarios (tonnes lifted) – Use of Longer Length Intermodal Units**

<b>Option</b>	<b>Domestic Intermodal Rail</b>	<b>000s tonnes</b>				<b>+/- v Base Case</b>		
		2009	2015	2020	2025	2015	2020	2025
0	Base Case	1,955	6,586	10,444	14,303	NA	NA	NA
8	14.6m Fixed Axles	0	6,942	11,097	15,253	356	653	949
9	14.6m Single Self-steer Axle	0	6,942	11,097	15,253	356	653	949
10	14.6m Active Steering	0	6,942	11,097	15,253	356	653	949
11	15.65m 2 x Self-steer Axles	0	6,974	11,156	15,338	388	711	1,035
12	15.65m 1 x Command-steer Axle	0	6,974	11,156	15,338	388	711	1,035
13	15.65m 2 x Command-steer Axles	0	6,974	11,156	15,338	388	711	1,035
14	15.65m Active Steering	0	6,974	11,156	15,338	388	711	1,035
<b>Option</b>	<b>Road Haulage</b>	<b>000s tonnes</b>				<b>+/- v Base Case</b>		
		2009	2015	2020	2025	2015	2020	2025
0	Base Case	430,834	438,361	444,633	450,906	NA	NA	NA
8	14.6m Fixed Axles	0	438,005	443,981	449,956	-356	-653	-949
9	14.6m Single Self-steer Axle	0	438,005	443,981	449,956	-356	-653	-949
10	14.6m Active Steering	0	438,005	443,981	449,956	-356	-653	-949
11	15.65m 2 x Self-steer Axles	0	437,973	443,922	449,871	-388	-711	-1,035
12	15.65m 1 x Command-steer Axle	0	437,973	443,922	449,871	-388	-711	-1,035
13	15.65m 2 x Command-steer Axles	0	437,973	443,922	449,871	-388	-711	-1,035
14	15.65m Active Steering	0	437,973	443,922	449,871	-388	-711	-1,035
<b>Total Domestic Unit Load</b>		<b>000s tonnes</b>				<b>+/- v Base Case</b>		
		2009	2015	2020	2025	2015	2020	2025
	All Options	432,789	444,947	455,078	465,209	0	0	0

**Table A9: Traffic Forecasts for Central Case, Low and High Scenarios (tonne km) – Use of Longer Length Intermodal Units**

<b>Option</b>	<b>Domestic Intermodal Rail</b>	<b>000s tonne-km</b>				<b>+/- v Base Case</b>		
		2009	2015	2020	2025	2015	2020	2025
0	Base Case	666,896	3,077,468	5,086,277	7,095,086	NA	NA	NA
8	14.6m Fixed Axles	0	3,208,625	5,326,733	7,444,841	131,158	240,456	349,754
9	14.6m Single Self-steer Axle	0	3,208,625	5,326,733	7,444,841	131,158	240,456	349,754
10	14.6m Active Steering	0	3,208,625	5,326,733	7,444,841	131,158	240,456	349,754
11	15.65m 2 x Self-steer Axles	0	3,214,439	5,337,391	7,460,343	136,971	251,114	365,257
12	15.65m 1 x Command-steer Axle	0	3,214,439	5,337,391	7,460,343	136,971	251,114	365,257
13	15.65m 2 x Command-steer Axles	0	3,214,439	5,337,391	7,460,343	136,971	251,114	365,257
14	15.65m Active Steering	0	3,214,439	5,337,391	7,460,343	136,971	251,114	365,257
<b>Option</b>	<b>Road Haulage</b>	<b>000s tonne-km</b>				<b>+/- v Base Case</b>		
		2009	2015	2020	2025	2015	2020	2025
0	Base Case	60,900,556	60,335,236	59,864,136	59,393,036	NA	NA	NA
8	14.6m Fixed Axles	0	60,212,979	59,639,998	59,067,017	-122,257	-224,138	-326,019
9	14.6m Single Self-steer Axle	0	60,212,979	59,639,998	59,067,017	-122,257	-224,138	-326,019
10	14.6m Active Steering	0	60,212,979	59,639,998	59,067,017	-122,257	-224,138	-326,019
11	15.65m 2 x Self-steer Axles	0	60,207,964	59,630,804	59,053,644	-127,272	-233,332	-339,391
12	15.65m 1 x Command-steer Axle	0	60,207,964	59,630,804	59,053,644	-127,272	-233,332	-339,391
13	15.65m 2 x Command-steer Axles	0	60,207,964	59,630,804	59,053,644	-127,272	-233,332	-339,391
14	15.65m Active Steering	0	60,207,964	59,630,804	59,053,644	-127,272	-233,332	-339,391
<b>Total Domestic Unit Load</b>		<b>000s tonne-km</b>				<b>+/- v Base Case</b>		
		2009	2015	2020	2025	2015	2020	2025
All Options		61,567,452	63,412,704	64,950,413	66,488,122	0	0	0

**Table A10: Traffic Forecasts for Single Deck Scenario (tonnes lifted) – Use of Existing Length Intermodal Units**

<b>Option</b>	<b>Domestic Intermodal Rail</b>	<b>000s tonnes</b>				<b>+/- v Base Case</b>			<b>+/- v Central Case</b>		
		2009	2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	1,955	6,586	10,444	14,303	NA	NA	NA	NA	NA	NA
1	14.6m Fixed Axles	0	5,221	7,943	10,665	-1,365	-2,502	-3,639	585	1,072	1,559
2	14.6m Single Self-steer Axle	0	5,221	7,943	10,665	-1,365	-2,502	-3,639	585	1,072	1,559
3	14.6m Active Steering	0	5,221	7,943	10,665	-1,365	-2,502	-3,639	585	1,072	1,559
4	15.65m 2 x Self-steer Axles	0	4,173	6,021	7,870	-2,413	-4,423	-6,434	1,034	1,896	2,757
5	15.65m 1 x Command-steer Axle	0	4,173	6,021	7,870	-2,413	-4,423	-6,434	1,034	1,896	2,757
6	15.65m 2 x Command-steer Axles	0	4,173	6,021	7,870	-2,413	-4,423	-6,434	1,034	1,896	2,757
7	15.65m Active Steering	0	4,173	6,021	7,870	-2,413	-4,423	-6,434	1,034	1,896	2,757
<b>Option</b>	<b>Road Haulage</b>	<b>000s tonnes</b>				<b>+/- v Base Case</b>			<b>+/- v Central Case</b>		
		2009	2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	430,834	438,361	444,633	450,906	NA	NA	NA	NA	NA	NA
1	14.6m Fixed Axles	0	439,726	447,135	454,544	1,365	2,502	3,639	-585	-1,072	-1,559
2	14.6m Single Self-steer Axle	0	439,726	447,135	454,544	1,365	2,502	3,639	-585	-1,072	-1,559
3	14.6m Active Steering	0	439,726	447,135	454,544	1,365	2,502	3,639	-585	-1,072	-1,559
4	15.65m 2 x Self-steer Axles	0	440,774	449,056	457,339	2,413	4,423	6,434	-1,034	-1,896	-2,757
5	15.65m 1 x Command-steer Axle	0	440,774	449,056	457,339	2,413	4,423	6,434	-1,034	-1,896	-2,757
6	15.65m 2 x Command-steer Axles	0	440,774	449,056	457,339	2,413	4,423	6,434	-1,034	-1,896	-2,757
7	15.65m Active Steering	0	440,774	449,056	457,339	2,413	4,423	6,434	-1,034	-1,896	-2,757
	<b>Total Domestic Unit Load</b>	<b>000s tonnes</b>				<b>+/- v Base Case</b>			<b>+/- v Central Case</b>		
		2009	2015	2020	2025	2015	2020	2025	2015	2020	2025
	All Options	432,789	444,947	455,078	465,209	0	0	0	0	0	0

**Table A11: Traffic Forecasts for Single Deck Scenario (tonnes lifted) – Use of Longer Length Intermodal Units**

<b>Option</b>	<b>Domestic Intermodal Rail</b>	<b>000s tonnes</b>				<b>+/- v Base Case</b>			<b>+/- v Central Case</b>		
		2009	2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	1,955	6,586	10,444	14,303	NA	NA	NA	NA	NA	NA
8	14.6m Fixed Axles	0	7,790	12,653	17,516	1,205	2,208	3,212	849	1,556	2,263
9	14.6m Single Self-steer Axle	0	7,790	12,653	17,516	1,205	2,208	3,212	849	1,556	2,263
10	14.6m Active Steering	0	7,790	12,653	17,516	1,205	2,208	3,212	849	1,556	2,263
11	15.65m 2 x Self-steer Axles	0	9,408	15,618	21,829	2,822	5,174	7,525	2,434	4,462	6,491
12	15.65m 1 x Command-steer Axle	0	9,408	15,618	21,829	2,822	5,174	7,525	2,434	4,462	6,491
13	15.65m 2 x Command-steer Axles	0	9,408	15,618	21,829	2,822	5,174	7,525	2,434	4,462	6,491
14	15.65m Active Steering	0	9,408	15,618	21,829	2,822	5,174	7,525	2,434	4,462	6,491
<b>Option</b>	<b>Road Haulage</b>	<b>000s tonnes</b>				<b>+/- v Base Case</b>			<b>+/- v Central Case</b>		
		2009	2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	430,834	438,361	444,633	450,906	NA	NA	NA	NA	NA	NA
8	14.6m Fixed Axles	0	437,157	442,425	447,693	-1,205	-2,208	-3,212	-849	-1,556	-2,263
9	14.6m Single Self-steer Axle	0	437,157	442,425	447,693	-1,205	-2,208	-3,212	-849	-1,556	-2,263
10	14.6m Active Steering	0	437,157	442,425	447,693	-1,205	-2,208	-3,212	-849	-1,556	-2,263
11	15.65m 2 x Self-steer Axles	0	435,539	439,460	443,380	-2,822	-5,174	-7,525	-2,434	-4,462	-6,491
12	15.65m 1 x Command-steer Axle	0	435,539	439,460	443,380	-2,822	-5,174	-7,525	-2,434	-4,462	-6,491
13	15.65m 2 x Command-steer Axles	0	435,539	439,460	443,380	-2,822	-5,174	-7,525	-2,434	-4,462	-6,491
14	15.65m Active Steering	0	435,539	439,460	443,380	-2,822	-5,174	-7,525	-2,434	-4,462	-6,491
	<b>Total Domestic Unit Load</b>	<b>000s tonnes</b>				<b>+/- v Base Case</b>			<b>+/- v Central Case</b>		
		2009	2015	2020	2025	2015	2020	2025	2015	2020	2025
	All Options	432,789	444,947	455,078	465,209	0	0	0	0	0	0

**Table A12: Direct Cost to Industry for Central Case – Existing Length Intermodal Units (i.e. 13.6m/45ft)**

<b>Existing Length Intermodal Units</b>										
<b>Option</b>	<b>Domestic Intermodal Rail</b>	<b>Millions</b>			<b>Benefit v Base Case (millions)</b>			<b>% change v Base Case</b>		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£190.1	£314.0	£443.1						
1	14.6m Fixed Axles	£136.7	£213.8	£293.9	£53.4	£100.3	£149.2	-28.1%	-31.9%	-33.7%
2	14.6m Single Self-steer Axle	£136.7	£213.8	£293.9	£53.4	£100.3	£149.2	-28.1%	-31.9%	-33.7%
3	14.6m Active Steering	£136.7	£213.8	£293.9	£53.4	£100.3	£149.2	-28.1%	-31.9%	-33.7%
4	15.65m 2 x Self-steer Axles	£94.0	£133.4	£174.4	£96.1	£180.6	£268.7	-50.6%	-57.5%	-60.6%
5	15.65m 1 x Command-steer Axle	£94.0	£133.4	£174.4	£96.1	£180.6	£268.7	-50.6%	-57.5%	-60.6%
6	15.65m 2 x Command-steer Axles	£94.0	£133.4	£174.4	£96.1	£180.6	£268.7	-50.6%	-57.5%	-60.6%
7	15.65m Active Steering	£94.0	£133.4	£174.4	£96.1	£180.6	£268.7	-50.6%	-57.5%	-60.6%
<b>Option</b>	<b>Road Haulage</b>	<b>Millions</b>			<b>Benefit v Base Case (millions)</b>			<b>% change v Base Case</b>		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,258.4	£10,601.3	£10,919.5						
1	14.6m Fixed Axles	£10,272.1	£10,697.4	£11,102.9	-£13.8	-£96.2	-£183.4	0.1%	0.9%	1.7%
2	14.6m Single Self-steer Axle	£10,155.9	£10,575.0	£10,974.6	£102.5	£26.3	-£55.1	-1.0%	-0.2%	0.5%
3	14.6m Active Steering	£10,199.4	£10,619.1	£11,019.2	£58.9	-£17.9	-£99.7	-0.6%	0.2%	0.9%
4	15.65m 2 x Self-steer Axles	£9,958.3	£10,436.7	£10,899.6	£300.0	£164.6	£19.9	-2.9%	-1.6%	-0.2%
5	15.65m 1 x Command-steer Axle	£9,953.9	£10,432.3	£10,895.1	£304.5	£169.0	£24.4	-3.0%	-1.6%	-0.2%
6	15.65m 2 x Command-steer Axles	£9,982.1	£10,461.0	£10,924.4	£276.2	£140.3	-£4.9	-2.7%	-1.3%	0.0%
7	15.65m Active Steering	£10,014.4	£10,493.6	£10,957.3	£244.0	£107.7	-£37.8	-2.4%	-1.0%	0.3%

Table A12 continued

Option	Total Domestic Unit Load	Millions			Benefit v Base Case (millions)			% change v Base Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
1	14.6m Fixed Axles	£10,408.9	£10,911.2	£11,396.8	£39.6	£4.1	-£34.2	-0.4%	0.0%	0.3%
2	14.6m Single Self-steer Axle	£10,292.6	£10,788.7	£11,268.5	£155.9	£126.6	£94.1	-1.5%	-1.2%	-0.8%
3	14.6m Active Steering	£10,336.2	£10,832.9	£11,313.2	£112.3	£82.4	£49.4	-1.1%	-0.8%	-0.4%
4	15.65m 2 x Self-steer Axles	£10,052.3	£10,570.1	£11,074.0	£396.1	£345.2	£288.6	-3.8%	-3.2%	-2.5%
5	15.65m 1 x Command-steer Axle	£10,047.9	£10,565.7	£11,069.6	£400.6	£349.6	£293.0	-3.8%	-3.2%	-2.6%
6	15.65m 2 x Command-steer Axles	£10,076.1	£10,594.4	£11,098.8	£372.3	£320.9	£263.8	-3.6%	-2.9%	-2.3%
7	15.65m Active Steering	£10,108.4	£10,627.0	£11,131.7	£340.1	£288.3	£230.9	-3.3%	-2.6%	-2.0%

**Table A13: Direct Cost to Industry for Central Case – Longer Intermodal Units (i.e. 15.6m/51ft)**

<b>Option</b>	<b>Domestic Intermodal Rail</b>	<b>Millions</b>			<b>Benefit v Base Case (millions)</b>			<b>% change v Base Case</b>		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£190.1	£314.0	£443.1						
8	14.6m Fixed Axles	£190.8	£317.3	£448.9	-£0.8	-£3.3	-£5.8	0.4%	1.0%	1.3%
9	14.6m Single Self-steer Axle	£190.9	£317.4	£449.0	-£0.8	-£3.3	-£6.0	0.4%	1.1%	1.3%
10	14.6m Active Steering	£191.0	£317.6	£449.4	-£1.0	-£3.6	-£6.3	0.5%	1.1%	1.4%
11	15.65m 2 x Self-steer Axles	£183.8	£305.7	£432.6	£6.3	£8.3	£10.5	-3.3%	-2.7%	-2.4%
12	15.65m 1 x Command-steer Axle	£183.9	£305.8	£432.7	£6.2	£8.3	£10.4	-3.3%	-2.6%	-2.4%
13	15.65m 2 x Command-steer Axles	£183.9	£305.9	£432.8	£6.2	£8.2	£10.3	-3.2%	-2.6%	-2.3%
14	15.65m Active Steering	£183.9	£305.9	£432.9	£6.2	£8.1	£10.2	-3.2%	-2.6%	-2.3%
	<b>Option Road Haulage</b>									
			<b>Millions</b>		<b>Benefit v Base Case (millions)</b>			<b>% change v Base Case</b>		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,258.4	£10,601.3	£10,919.5						
8	14.6m Fixed Axles	£10,156.9	£10,479.8	£10,777.6	£101.5	£121.5	£141.9	-1.0%	-1.1%	-1.3%
9	14.6m Single Self-steer Axle	£10,041.9	£10,359.8	£10,653.1	£216.5	£241.5	£266.4	-2.1%	-2.3%	-2.4%
10	14.6m Active Steering	£10,085.0	£10,403.1	£10,696.5	£173.3	£198.2	£223.0	-1.7%	-1.9%	-2.0%
11	15.65m 2 x Self-steer Axles	£9,766.8	£10,075.1	£10,359.5	£491.5	£526.2	£560.0	-4.8%	-5.0%	-5.1%
12	15.65m 1 x Command-steer Axle	£9,762.5	£10,070.8	£10,355.2	£495.9	£530.5	£564.3	-4.8%	-5.0%	-5.2%
13	15.65m 2 x Command-steer Axles	£9,790.2	£10,098.6	£10,383.1	£468.2	£502.7	£536.4	-4.6%	-4.7%	-4.9%
14	15.65m Active Steering	£9,821.6	£10,129.5	£10,413.6	£436.8	£471.7	£505.9	-4.3%	-4.4%	-4.6%

Table A13 continued

Option	Total Domestic Unit Load	Millions			Benefit v Base Case (millions)			% change v Base Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
8	14.6m Fixed Axles	£10,347.7	£10,797.1	£11,226.6	£100.7	£118.2	£136.0	-1.0%	-1.1%	-1.2%
9	14.6m Single Self-steer Axle	£10,232.8	£10,677.2	£11,102.1	£215.7	£238.1	£260.5	-2.1%	-2.2%	-2.3%
10	14.6m Active Steering	£10,276.1	£10,720.7	£11,145.9	£172.4	£194.6	£216.6	-1.6%	-1.8%	-1.9%
11	15.65m 2 x Self-steer Axles	£9,950.6	£10,380.8	£10,792.0	£497.8	£534.5	£570.6	-4.8%	-4.9%	-5.0%
12	15.65m 1 x Command-steer Axle	£9,946.3	£10,376.6	£10,787.9	£502.1	£538.7	£574.7	-4.8%	-4.9%	-5.1%
13	15.65m 2 x Command-steer Axles	£9,974.1	£10,404.5	£10,815.9	£474.3	£510.8	£546.7	-4.5%	-4.7%	-4.8%
14	15.65m Active Steering	£10,005.5	£10,435.5	£10,846.5	£443.0	£479.8	£516.1	-4.2%	-4.4%	-4.5%



**Table A15: Sensitivity Test 1 – Direct Cost to Industry with Existing Length Intermodal Units (i.e. 13.6m/45ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
1	14.6m Fixed Axles	£10,413.9	£10,916.6	£11,402.6	£5.1	£5.4	£5.8	0.0%	0.0%	0.1%
2	14.6m Single Self-steer Axle	£10,303.8	£10,800.7	£11,281.1	£11.2	£11.9	£12.6	0.1%	0.1%	0.1%
3	14.6m Active Steering	£10,344.5	£10,841.9	£11,322.9	£8.4	£9.1	£9.7	0.1%	0.1%	0.1%
4	15.65m 2 x Self-steer Axles	£10,079.9	£10,599.3	£11,104.8	£27.6	£29.2	£30.8	0.3%	0.3%	0.3%
5	15.65m 1 x Command-steer Axle	£10,075.7	£10,595.2	£11,100.6	£27.8	£29.5	£31.0	0.3%	0.3%	0.3%
6	15.65m 2 x Command-steer Axles	£10,102.1	£10,622.0	£11,127.9	£26.0	£27.6	£29.1	0.3%	0.3%	0.3%
7	15.65m Active Steering	£10,132.7	£10,652.9	£11,159.1	£24.3	£25.9	£27.4	0.2%	0.2%	0.2%

**Table A16: Sensitivity Test 1 – Direct Cost to Industry with Longer Intermodal Units (i.e. 15.6m/51ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
8	14.6m Fixed Axles	£10,352.7	£10,802.4	£11,232.2	£5.0	£5.3	£5.6	0.0%	0.0%	0.1%
9	14.6m Single Self-steer Axle	£10,243.9	£10,688.9	£11,114.4	£11.1	£11.7	£12.3	0.1%	0.1%	0.1%
10	14.6m Active Steering	£10,284.4	£10,729.6	£11,155.4	£8.3	£8.9	£9.4	0.1%	0.1%	0.1%
11	15.65m 2 x Self-steer Axles	£9,977.7	£10,409.0	£10,821.3	£27.1	£28.2	£29.3	0.3%	0.3%	0.3%
12	15.65m 1 x Command-steer Axle	£9,973.6	£10,405.0	£10,817.4	£27.3	£28.5	£29.5	0.3%	0.3%	0.3%
13	15.65m 2 x Command-steer Axles	£9,999.6	£10,431.1	£10,843.6	£25.5	£26.7	£27.7	0.3%	0.3%	0.3%
14	15.65m Active Steering	£10,029.3	£10,460.5	£10,872.6	£23.8	£25.0	£26.1	0.2%	0.2%	0.2%

**Table A17: Sensitivity Test 2 – Direct Cost to Industry with Existing Length Intermodal Units (i.e. 13.6m/45ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
1	14.6m Fixed Axles	£10,405.2	£10,907.2	£11,392.6	-£3.7	-£4.0	-£4.2	0.0%	0.0%	0.0%
2	14.6m Single Self-steer Axle	£10,285.5	£10,781.2	£11,260.4	-£7.1	-£7.6	-£8.0	-0.1%	-0.1%	-0.1%
3	14.6m Active Steering	£10,330.9	£10,827.1	£11,307.0	-£5.3	-£5.7	-£6.2	-0.1%	-0.1%	-0.1%
4	15.65m 2 x Self-steer Axles	£10,034.9	£10,551.6	£11,054.5	-£17.4	-£18.5	-£19.5	-0.2%	-0.2%	-0.2%
5	15.65m 1 x Command-steer Axle	£10,030.3	£10,547.0	£11,049.8	-£17.6	-£18.7	-£19.7	-0.2%	-0.2%	-0.2%
6	15.65m 2 x Command-steer Axles	£10,059.7	£10,576.9	£11,080.3	-£16.4	-£17.5	-£18.5	-0.2%	-0.2%	-0.2%
7	15.65m Active Steering	£10,092.9	£10,610.5	£11,114.2	-£15.5	-£16.5	-£17.5	-0.2%	-0.2%	-0.2%

**Table A18: Sensitivity Test 2 – Direct Cost to Industry with Longer Intermodal Units (i.e. 15.6m/51ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
8	14.6m Fixed Axles	£10,344.1	£10,793.2	£11,222.5	-£3.7	-£3.9	-£4.1	0.0%	0.0%	0.0%
9	14.6m Single Self-steer Axle	£10,225.8	£10,669.7	£11,094.3	-£7.0	-£7.4	-£7.8	-0.1%	-0.1%	-0.1%
10	14.6m Active Steering	£10,270.8	£10,715.1	£11,139.9	-£5.2	-£5.6	-£6.0	-0.1%	-0.1%	-0.1%
11	15.65m 2 x Self-steer Axles	£9,933.5	£10,362.9	£10,773.4	-£17.1	-£17.9	-£18.6	-0.2%	-0.2%	-0.2%
12	15.65m 1 x Command-steer Axle	£9,929.0	£10,358.5	£10,769.1	-£17.3	-£18.1	-£18.8	-0.2%	-0.2%	-0.2%
13	15.65m 2 x Command-steer Axles	£9,958.0	£10,387.5	£10,798.3	-£16.2	-£16.9	-£17.6	-0.2%	-0.2%	-0.2%
14	15.65m Active Steering	£9,990.3	£10,419.4	£10,829.7	-£15.2	-£16.0	-£16.8	-0.2%	-0.2%	-0.2%

**Table A19: Sensitivity Test 3 – Direct Cost to Industry with Existing Length Intermodal Units (i.e. 13.6m/45ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
1	14.6m Fixed Axles	£10,414.2	£10,916.9	£11,402.9	£5.4	£5.7	£6.1	0.1%	0.1%	0.1%
2	14.6m Single Self-steer Axle	£10,302.5	£10,799.4	£11,279.8	£10.0	£10.6	£11.3	0.1%	0.1%	0.1%
3	14.6m Active Steering	£10,344.1	£10,841.4	£11,322.3	£7.9	£8.5	£9.2	0.1%	0.1%	0.1%
4	15.65m 2 x Self-steer Axles	£10,075.1	£10,594.3	£11,099.6	£22.7	£24.2	£25.6	0.2%	0.2%	0.2%
5	15.65m 1 x Command-steer Axle	£10,071.0	£10,590.2	£11,095.5	£23.1	£24.5	£26.0	0.2%	0.2%	0.2%
6	15.65m 2 x Command-steer Axles	£10,097.8	£10,617.5	£11,123.3	£21.7	£23.1	£24.5	0.2%	0.2%	0.2%
7	15.65m Active Steering	£10,129.4	£10,649.5	£11,155.6	£21.0	£22.5	£23.9	0.2%	0.2%	0.2%

**Table A20: Sensitivity Test 3 – Direct Cost to Industry with Longer Intermodal Units (i.e. 15.6m/51ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
8	14.6m Fixed Axles	£10,353.0	£10,802.7	£11,232.6	£5.3	£5.7	£6.0	0.1%	0.1%	0.1%
9	14.6m Single Self-steer Axle	£10,242.7	£10,687.7	£11,113.2	£9.9	£10.5	£11.0	0.1%	0.1%	0.1%
10	14.6m Active Steering	£10,283.9	£10,729.1	£11,154.9	£7.8	£8.4	£9.0	0.1%	0.1%	0.1%
11	15.65m 2 x Self-steer Axles	£9,973.0	£10,404.4	£10,816.7	£22.4	£23.6	£24.6	0.2%	0.2%	0.2%
12	15.65m 1 x Command-steer Axle	£9,969.1	£10,400.4	£10,812.8	£22.7	£23.9	£25.0	0.2%	0.2%	0.2%
13	15.65m 2 x Command-steer Axles	£9,995.5	£10,427.0	£10,839.5	£21.3	£22.5	£23.6	0.2%	0.2%	0.2%
14	15.65m Active Steering	£10,026.2	£10,457.4	£10,869.5	£20.7	£21.9	£23.0	0.2%	0.2%	0.2%

**Table A21: Sensitivity Test 4 – Direct Cost to Industry with Existing Length Intermodal Units (i.e. 13.6m/45ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
1	14.6m Fixed Axles	£10,403.5	£10,905.5	£11,390.7	-£5.4	-£5.7	-£6.1	-0.1%	-0.1%	-0.1%
2	14.6m Single Self-steer Axle	£10,282.6	£10,778.1	£11,257.2	-£10.0	-£10.6	-£11.3	-0.1%	-0.1%	-0.1%
3	14.6m Active Steering	£10,328.3	£10,824.3	£11,304.0	-£7.9	-£8.5	-£9.2	-0.1%	-0.1%	-0.1%
4	15.65m 2 x Self-steer Axles	£10,029.6	£10,545.9	£11,048.4	-£22.7	-£24.2	-£25.6	-0.2%	-0.2%	-0.2%
5	15.65m 1 x Command-steer Axle	£10,024.8	£10,541.2	£11,043.6	-£23.1	-£24.5	-£26.0	-0.2%	-0.2%	-0.2%
6	15.65m 2 x Command-steer Axles	£10,054.5	£10,571.3	£11,074.3	-£21.7	-£23.1	-£24.5	-0.2%	-0.2%	-0.2%
7	15.65m Active Steering	£10,087.3	£10,604.5	£11,107.8	-£21.0	-£22.5	-£23.9	-0.2%	-0.2%	-0.2%

**Table A22: Sensitivity Test 4 – Direct Cost to Industry with Longer Intermodal Units (i.e. 15.6m/51ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
8	14.6m Fixed Axles	£10,342.4	£10,791.4	£11,220.6	-£5.3	-£5.7	-£6.0	-0.1%	-0.1%	-0.1%
9	14.6m Single Self-steer Axle	£10,222.9	£10,666.7	£11,091.1	-£9.9	-£10.5	-£11.0	-0.1%	-0.1%	-0.1%
10	14.6m Active Steering	£10,268.2	£10,712.3	£11,137.0	-£7.8	-£8.4	-£9.0	-0.1%	-0.1%	-0.1%
11	15.65m 2 x Self-steer Axles	£9,928.2	£10,357.2	£10,767.4	-£22.4	-£23.6	-£24.6	-0.2%	-0.2%	-0.2%
12	15.65m 1 x Command-steer Axle	£9,923.6	£10,352.7	£10,762.9	-£22.7	-£23.9	-£25.0	-0.2%	-0.2%	-0.2%
13	15.65m 2 x Command-steer Axles	£9,952.8	£10,382.0	£10,792.3	-£21.3	-£22.5	-£23.6	-0.2%	-0.2%	-0.2%
14	15.65m Active Steering	£9,984.8	£10,413.6	£10,823.5	-£20.7	-£21.9	-£23.0	-0.2%	-0.2%	-0.2%

**Table A23: Direct Cost to Industry for High Scenario – with Existing Length Intermodal Units (i.e. 13.6m/45ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
1	14.6m Fixed Axles	£10,384.3	£10,884.9	£11,368.8	-£24.6	-£26.3	-£28.0	-0.2%	-0.2%	-0.2%
2	14.6m Single Self-steer Axle	£10,242.4	£10,735.3	£11,211.9	-£50.2	-£53.5	-£56.6	-0.5%	-0.5%	-0.5%
3	14.6m Active Steering	£10,298.4	£10,792.0	£11,269.4	-£37.8	-£40.9	-£43.8	-0.4%	-0.4%	-0.4%
4	15.65m 2 x Self-steer Axles	£9,933.7	£10,444.3	£10,941.2	-£118.6	-£125.8	-£132.8	-1.2%	-1.2%	-1.2%
5	15.65m 1 x Command-steer Axle	£9,928.2	£10,438.8	£10,935.7	-£119.7	-£126.9	-£133.9	-1.2%	-1.2%	-1.2%
6	15.65m 2 x Command-steer Axles	£9,964.4	£10,475.7	£10,973.2	-£111.7	-£118.8	-£125.6	-1.1%	-1.1%	-1.1%
7	15.65m Active Steering	£10,002.7	£10,514.3	£11,012.3	-£105.6	-£112.7	-£119.4	-1.0%	-1.1%	-1.1%

Option	Total Domestic Unit Load	Millions			Benefit v Base Case (millions)			% change v Base Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
1	14.6m Fixed Axles	£10,384.3	£10,884.9	£11,368.8	£64.2	£30.4	-£6.2	-0.6%	-0.3%	0.1%
2	14.6m Single Self-steer Axle	£10,242.4	£10,735.3	£11,211.9	£206.1	£180.1	£150.7	-2.0%	-1.6%	-1.3%
3	14.6m Active Steering	£10,298.4	£10,792.0	£11,269.4	£150.1	£123.3	£93.2	-1.4%	-1.1%	-0.8%
4	15.65m 2 x Self-steer Axles	£9,933.7	£10,444.3	£10,941.2	£514.7	£471.0	£421.4	-4.9%	-4.3%	-3.7%
5	15.65m 1 x Command-steer Axle	£9,928.2	£10,438.8	£10,935.7	£520.2	£476.5	£426.9	-5.0%	-4.4%	-3.8%
6	15.65m 2 x Command-steer Axles	£9,964.4	£10,475.7	£10,973.2	£484.0	£439.6	£389.4	-4.6%	-4.0%	-3.4%
7	15.65m Active Steering	£10,002.7	£10,514.3	£11,012.3	£445.7	£401.0	£350.3	-4.3%	-3.7%	-3.1%

**Table A24: Direct Cost to Industry for High Scenario – with Longer Intermodal Units (i.e. 15.6m/51ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
8	14.6m Fixed Axles	£10,323.4	£10,771.1	£11,199.2	-£24.4	-£25.9	-£27.4	-0.2%	-0.2%	-0.2%
9	14.6m Single Self-steer Axle	£10,183.1	£10,624.6	£11,046.9	-£49.7	-£52.6	-£55.2	-0.5%	-0.5%	-0.5%
10	14.6m Active Steering	£10,238.7	£10,680.6	£11,103.2	-£37.4	-£40.2	-£42.7	-0.4%	-0.4%	-0.4%
11	15.65m 2 x Self-steer Axles	£9,834.1	£10,258.9	£10,665.1	-£116.5	-£121.9	-£126.9	-1.2%	-1.2%	-1.2%
12	15.65m 1 x Command-steer Axle	£9,828.7	£10,253.6	£10,659.9	-£117.6	-£123.0	-£128.0	-1.2%	-1.2%	-1.2%
13	15.65m 2 x Command-steer Axles	£9,864.4	£10,289.4	£10,695.9	-£109.8	-£115.1	-£120.0	-1.1%	-1.1%	-1.1%
14	15.65m Active Steering	£9,901.6	£10,326.2	£10,732.2	-£103.9	-£109.3	-£114.3	-1.0%	-1.0%	-1.1%

Option	Total Domestic Unit Load	Millions			Benefit v Base Case (millions)			% change v Base Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
8	14.6m Fixed Axles	£10,323.4	£10,771.1	£11,199.2	£125.1	£144.2	£163.4	-1.2%	-1.3%	-1.4%
9	14.6m Single Self-steer Axle	£10,183.1	£10,624.6	£11,046.9	£265.4	£290.7	£315.7	-2.5%	-2.7%	-2.8%
10	14.6m Active Steering	£10,238.7	£10,680.6	£11,103.2	£209.8	£234.7	£259.4	-2.0%	-2.2%	-2.3%
11	15.65m 2 x Self-steer Axles	£9,834.1	£10,258.9	£10,665.1	£614.4	£656.4	£697.5	-5.9%	-6.0%	-6.1%
12	15.65m 1 x Command-steer Axle	£9,828.7	£10,253.6	£10,659.9	£619.7	£661.7	£702.7	-5.9%	-6.1%	-6.2%
13	15.65m 2 x Command-steer Axles	£9,864.4	£10,289.4	£10,695.9	£584.1	£625.9	£666.7	-5.6%	-5.7%	-5.9%
14	15.65m Active Steering	£9,901.6	£10,326.2	£10,732.2	£546.8	£589.1	£630.4	-5.2%	-5.4%	-5.5%

**Table A25: Direct Cost to Industry for Low Scenario – with Existing Length Intermodal Units (i.e. 13.6m/45ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
1	14.6m Fixed Axles	£10,465.3	£10,971.6	£11,460.9	£56.4	£60.4	£64.1	0.5%	0.6%	0.6%
2	14.6m Single Self-steer Axle	£10,417.5	£10,921.5	£11,408.6	£124.9	£132.7	£140.1	1.2%	1.2%	1.2%
3	14.6m Active Steering	£10,430.5	£10,934.6	£11,421.8	£94.3	£101.7	£108.6	0.9%	0.9%	1.0%
4	15.65m 2 x Self-steer Axles	£10,351.2	£10,886.6	£11,407.4	£298.9	£316.5	£333.4	3.0%	3.0%	3.0%
5	15.65m 1 x Command-steer Axle	£10,349.2	£10,884.6	£11,405.3	£301.3	£318.9	£335.8	3.0%	3.0%	3.0%
6	15.65m 2 x Command-steer Axles	£10,358.0	£10,893.4	£11,414.3	£281.8	£299.0	£315.5	2.8%	2.8%	2.8%
7	15.65m Active Steering	£10,371.5	£10,907.1	£11,428.2	£263.1	£280.1	£296.4	2.6%	2.6%	2.7%

Option	Total Domestic Unit Load	Millions			Benefit v Base Case (millions)			% change v Base Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
1	14.6m Fixed Axles	£10,465.3	£10,971.6	£11,460.9	£-16.8	£-56.3	£-98.3	0.2%	0.5%	0.9%
2	14.6m Single Self-steer Axle	£10,417.5	£10,921.5	£11,408.6	£31.0	£-6.2	£-46.0	-0.3%	0.1%	0.4%
3	14.6m Active Steering	£10,430.5	£10,934.6	£11,421.8	£18.0	£-19.2	£-59.2	-0.2%	0.2%	0.5%
4	15.65m 2 x Self-steer Axles	£10,351.2	£10,886.6	£11,407.4	£97.2	£28.7	£-44.8	-0.9%	-0.3%	0.4%
5	15.65m 1 x Command-steer Axle	£10,349.2	£10,884.6	£11,405.3	£99.2	£30.8	£-42.7	-0.9%	-0.3%	0.4%
6	15.65m 2 x Command-steer Axles	£10,358.0	£10,893.4	£11,414.3	£90.5	£21.9	£-51.7	-0.9%	-0.2%	0.5%
7	15.65m Active Steering	£10,371.5	£10,907.1	£11,428.2	£76.9	£8.2	£-65.6	-0.7%	-0.1%	0.6%

**Table A26: Direct Cost to Industry for Low Scenario – with Longer Intermodal Units (i.e. 15.6m/51ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
8	14.6m Fixed Axles	£10,403.6	£10,856.4	£11,289.1	£55.9	£59.3	£62.5	0.5%	0.5%	0.6%
9	14.6m Single Self-steer Axle	£10,356.4	£10,807.5	£11,238.6	£123.6	£130.3	£136.4	1.2%	1.2%	1.2%
10	14.6m Active Steering	£10,369.4	£10,820.5	£11,251.7	£93.4	£99.8	£105.8	0.9%	0.9%	0.9%
11	15.65m 2 x Self-steer Axles	£10,244.0	£10,686.7	£11,109.5	£293.4	£305.9	£317.4	2.9%	2.9%	2.9%
12	15.65m 1 x Command-steer Axle	£10,242.1	£10,684.8	£11,107.6	£295.7	£308.2	£319.7	3.0%	3.0%	3.0%
13	15.65m 2 x Command-steer Axles	£10,250.7	£10,693.4	£11,116.3	£276.6	£289.0	£300.4	2.8%	2.8%	2.8%
14	15.65m Active Steering	£10,263.9	£10,706.5	£11,129.2	£258.4	£271.0	£282.7	2.6%	2.6%	2.6%

Option	Total Domestic Unit Load	Millions			Benefit v Base Case (millions)			% change v Base Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
8	14.6m Fixed Axles	£10,403.6	£10,856.4	£11,289.1	£44.9	£58.9	£73.5	-0.4%	-0.5%	-0.6%
9	14.6m Single Self-steer Axle	£10,356.4	£10,807.5	£11,238.6	£92.0	£107.8	£124.0	-0.9%	-1.0%	-1.1%
10	14.6m Active Steering	£10,369.4	£10,820.5	£11,251.7	£79.0	£94.8	£110.9	-0.8%	-0.9%	-1.0%
11	15.65m 2 x Self-steer Axles	£10,244.0	£10,686.7	£11,109.5	£204.5	£228.6	£253.1	-2.0%	-2.1%	-2.2%
12	15.65m 1 x Command-steer Axle	£10,242.1	£10,684.8	£11,107.6	£206.4	£230.5	£255.0	-2.0%	-2.1%	-2.2%
13	15.65m 2 x Command-steer Axles	£10,250.7	£10,693.4	£11,116.3	£197.8	£221.9	£246.3	-1.9%	-2.0%	-2.2%
14	15.65m Active Steering	£10,263.9	£10,706.5	£11,129.2	£184.5	£208.8	£233.4	-1.8%	-1.9%	-2.1%

**Table A27: Direct Cost to Industry for Single Deck Scenario – with Existing Length Intermodal Units (i.e. 13.6m/45ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
1	14.6m Fixed Axles	£10,402.7	£10,894.3	£11,368.4	-£6.2	-£17.0	-£28.4	-0.1%	-0.2%	-0.2%
2	14.6m Single Self-steer Axle	£10,290.8	£10,776.4	£11,244.9	-£1.8	-£12.3	-£23.5	0.0%	-0.1%	-0.2%
3	14.6m Active Steering	£10,332.5	£10,818.6	£11,287.7	-£3.7	-£14.2	-£25.5	0.0%	-0.1%	-0.2%
4	15.65m 2 x Self-steer Axles	£10,053.2	£10,551.2	£11,034.0	£0.9	-£19.0	-£40.1	0.0%	-0.2%	-0.4%
5	15.65m 1 x Command-steer Axle	£10,049.0	£10,546.9	£11,029.7	£1.1	-£18.8	-£39.8	0.0%	-0.2%	-0.4%
6	15.65m 2 x Command-steer Axles	£10,076.0	£10,574.4	£11,057.7	-£0.2	-£20.0	-£41.1	0.0%	-0.2%	-0.4%
7	15.65m Active Steering	£10,109.2	£10,608.0	£11,091.5	£0.8	-£19.1	-£40.2	0.0%	-0.2%	-0.4%

Option	Total Domestic Unit Load	Millions			Benefit v Base Case (millions)			% change v Base Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
1	14.6m Fixed Axles	£10,402.7	£10,894.3	£11,368.4	£45.8	£21.1	-£5.8	-0.4%	-0.2%	0.1%
2	14.6m Single Self-steer Axle	£10,290.8	£10,776.4	£11,244.9	£157.6	£138.9	£117.6	-1.5%	-1.3%	-1.0%
3	14.6m Active Steering	£10,332.5	£10,818.6	£11,287.7	£116.0	£96.7	£74.9	-1.1%	-0.9%	-0.7%
4	15.65m 2 x Self-steer Axles	£10,053.2	£10,551.2	£11,034.0	£395.3	£364.1	£328.6	-3.8%	-3.3%	-2.9%
5	15.65m 1 x Command-steer Axle	£10,049.0	£10,546.9	£11,029.7	£399.5	£368.4	£332.9	-3.8%	-3.4%	-2.9%
6	15.65m 2 x Command-steer Axles	£10,076.0	£10,574.4	£11,057.7	£372.5	£340.9	£304.9	-3.6%	-3.1%	-2.7%
7	15.65m Active Steering	£10,109.2	£10,608.0	£11,091.5	£339.3	£307.4	£271.0	-3.2%	-2.8%	-2.4%

**Table A28: Direct Cost to Industry for Single Deck Scenario – with Longer Intermodal Units (i.e. 15.6m/51ft)**

Option	Total Domestic Unit Load	Millions			+/- v Central Case (millions)			% change v Central Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
8	14.6m Fixed Axles	£10,337.6	£10,772.6	£11,186.9	-£10.1	-£24.4	-£39.6	-0.1%	-0.2%	-0.4%
9	14.6m Single Self-steer Axle	£10,227.1	£10,657.3	£11,067.2	-£5.7	-£19.9	-£34.9	-0.1%	-0.2%	-0.3%
10	14.6m Active Steering	£10,268.5	£10,699.0	£11,109.2	-£7.6	-£21.7	-£36.8	-0.1%	-0.2%	-0.3%
11	15.65m 2 x Self-steer Axles	£9,930.7	£10,322.1	£10,692.3	-£20.0	-£58.7	-£99.7	-0.2%	-0.6%	-0.9%
12	15.65m 1 x Command-steer Axle	£9,926.6	£10,318.1	£10,688.4	-£19.8	-£58.4	-£99.5	-0.2%	-0.6%	-0.9%
13	15.65m 2 x Command-steer Axles	£9,953.2	£10,344.9	£10,715.2	-£21.0	-£59.6	-£100.7	-0.2%	-0.6%	-0.9%
14	15.65m Active Steering	£9,985.5	£10,376.8	£10,746.8	-£20.0	-£58.7	-£99.7	-0.2%	-0.6%	-0.9%

Option	Total Domestic Unit Load	Millions			Benefit v Base Case (millions)			% change v Base Case		
		2015	2020	2025	2015	2020	2025	2015	2020	2025
0	Base Case	£10,448.5	£10,915.3	£11,362.6						
8	14.6m Fixed Axles	£10,337.6	£10,772.6	£11,186.9	£110.8	£142.7	£175.6	-1.1%	-1.3%	-1.5%
9	14.6m Single Self-steer Axle	£10,227.1	£10,657.3	£11,067.2	£221.4	£258.0	£295.4	-2.1%	-2.4%	-2.6%
10	14.6m Active Steering	£10,268.5	£10,699.0	£11,109.2	£180.0	£216.3	£253.4	-1.7%	-2.0%	-2.2%
11	15.65m 2 x Self-steer Axles	£9,930.7	£10,322.1	£10,692.3	£517.8	£593.2	£670.3	-5.0%	-5.4%	-5.9%
12	15.65m 1 x Command-steer Axle	£9,926.6	£10,318.1	£10,688.4	£521.9	£597.2	£674.2	-5.0%	-5.5%	-5.9%
13	15.65m 2 x Command-steer Axles	£9,953.2	£10,344.9	£10,715.2	£495.3	£570.4	£647.4	-4.7%	-5.2%	-5.7%
14	15.65m Active Steering	£9,985.5	£10,376.8	£10,746.8	£463.0	£538.5	£615.8	-4.4%	-4.9%	-5.4%



**Table A30: Direct Financial Benefits to Industry pa for Low Scenario and NPV of Benefits – by Option**

		£ millions																	£ millions	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	NPV 2011-2025	
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	-£3.4	-£6.7	-£10.1	-£13.4	-£16.8	-£24.7	-£32.6	-£40.5	-£48.4	-£56.3	-£64.7	-£73.1	-£81.5	-£89.9	-£98.3	-£455.3	
2	14.6m Single Self-steer Axle	£0.0	£0.0	£6.2	£12.4	£18.6	£24.8	£31.0	£23.5	£16.1	£8.7	£1.3	-£6.2	-£14.1	-£22.1	-£30.1	-£38.1	-£46.0	£22.3	
3	14.6m Active Steering	£0.0	£0.0	£3.6	£7.2	£10.8	£14.4	£18.0	£10.5	£3.1	-£4.4	-£11.8	-£19.2	-£27.2	-£35.2	-£43.2	-£51.2	-£59.2	-£103.6	
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£19.4	£38.9	£58.3	£77.8	£97.2	£83.5	£69.8	£56.1	£42.4	£28.7	£14.0	-£0.7	-£15.4	-£30.1	-£44.8	£428.2	
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£19.8	£39.7	£59.5	£79.4	£99.2	£85.5	£71.8	£58.2	£44.5	£30.8	£16.1	£1.4	-£13.3	-£28.0	-£42.7	£447.9	
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£18.1	£36.2	£54.3	£72.4	£90.5	£76.8	£63.1	£49.3	£35.6	£21.9	£7.2	-£7.6	-£22.3	-£37.0	-£51.7	£362.6	
7	15.65m Active Steering	£0.0	£0.0	£15.4	£30.8	£46.2	£61.5	£76.9	£63.2	£49.4	£35.7	£21.9	£8.2	-£6.6	-£21.3	-£36.1	-£50.8	-£65.6	£230.7	
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£9.0	£17.9	£26.9	£35.9	£44.9	£47.7	£50.5	£53.3	£56.1	£58.9	£61.8	£64.8	£67.7	£70.6	£73.5	£536.6	
9	14.6m Single Self-steer Axle	£0.0	£0.0	£18.4	£36.8	£55.2	£73.6	£92.0	£95.2	£98.3	£101.5	£104.7	£107.8	£111.1	£114.3	£117.6	£120.8	£124.0	£1,004.2	
10	14.6m Active Steering	£0.0	£0.0	£15.8	£31.6	£47.4	£63.2	£79.0	£82.2	£85.3	£88.5	£91.6	£94.8	£98.0	£101.2	£104.4	£107.7	£110.9	£878.3	
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£40.9	£81.8	£122.7	£163.6	£204.5	£209.3	£214.1	£219.0	£223.8	£228.6	£233.5	£238.4	£243.3	£248.2	£253.1	£2,150.2	
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£41.3	£82.6	£123.8	£165.1	£206.4	£211.2	£216.1	£220.9	£225.7	£230.5	£235.4	£240.3	£245.2	£250.1	£255.0	£2,168.6	
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£39.6	£79.1	£118.7	£158.2	£197.8	£202.6	£207.4	£212.2	£217.0	£221.9	£226.8	£231.6	£236.5	£241.4	£246.3	£2,085.0	
14	15.65m Active Steering	£0.0	£0.0	£36.9	£73.8	£110.7	£147.6	£184.5	£189.4	£194.3	£199.1	£204.0	£208.8	£213.7	£218.6	£223.6	£228.5	£233.4	£1,958.6	



**Table A32: Central Case – Direct Industry Benefits (net indirect taxation), Environmental Benefits and Total Economic Impact**

Central Case - Environmental Benefits		£ millions																	£ millions	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	NPV 2011-2025	
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	£2.5	£5.1	£7.6	£10.2	£12.7	£6.0	£-0.7	£-7.4	£-14.1	£-20.8	£-30.5	£-40.3	£-50.0	£-59.7	£-69.5	..	£-150.50
2	14.6m Single Self-steer Axle	£0.0	£0.0	£11.7	£23.4	£35.1	£46.8	£58.4	£53.6	£48.7	£43.9	£39.0	£34.2	£26.2	£18.3	£10.4	£2.4	£-5.5	..	£357.74
3	14.6m Active Steering	£0.0	£0.0	£11.3	£22.6	£33.8	£45.1	£56.4	£51.4	£46.5	£41.5	£36.6	£31.6	£23.6	£15.5	£7.5	£-0.5	£-8.6	..	£334.22
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£23.9	£47.8	£71.7	£95.6	£119.5	£111.1	£102.7	£94.3	£85.9	£77.5	£63.5	£49.6	£35.6	£21.6	£7.6	..	£794.13
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£23.8	£47.6	£71.4	£95.1	£118.9	£110.5	£102.1	£93.6	£85.2	£76.7	£62.7	£48.7	£34.7	£20.7	£6.7	..	£787.09
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£23.6	£47.2	£70.8	£94.4	£118.0	£109.5	£101.0	£92.5	£84.1	£75.6	£61.5	£47.5	£33.4	£19.4	£5.3	..	£776.36
7	15.65m Active Steering	£0.0	£0.0	£23.6	£47.1	£70.7	£94.2	£117.8	£109.3	£100.8	£92.3	£83.8	£75.3	£61.2	£47.2	£33.1	£19.0	£5.0	..	£773.85
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£9.7	£19.3	£29.0	£38.7	£48.3	£51.5	£54.7	£57.9	£61.1	£64.3	£68.0	£71.6	£75.3	£78.9	£82.6	..	£587.52
9	14.6m Single Self-steer Axle	£0.0	£0.0	£18.7	£37.4	£56.1	£74.8	£93.5	£98.4	£103.3	£108.2	£113.1	£118.0	£123.3	£128.6	£133.8	£139.1	£144.3	..	£1,084.68
10	14.6m Active Steering	£0.0	£0.0	£18.3	£36.6	£54.8	£73.1	£91.4	£96.2	£101.0	£105.9	£110.7	£115.5	£120.7	£125.8	£131.0	£136.1	£141.3	..	£1,061.28
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£35.7	£71.4	£107.1	£142.7	£178.4	£186.5	£194.6	£202.6	£210.7	£218.7	£227.0	£235.3	£243.6	£251.9	£260.2	..	£2,018.33
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£35.6	£71.1	£106.7	£142.3	£177.8	£185.9	£193.9	£201.9	£210.0	£218.0	£226.3	£234.5	£242.8	£251.0	£259.3	..	£2,011.43
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£35.4	£70.8	£106.1	£141.5	£176.9	£184.9	£192.9	£200.9	£208.9	£216.8	£225.1	£233.3	£241.5	£249.7	£257.9	..	£2,000.92
14	15.65m Active Steering	£0.0	£0.0	£35.3	£70.7	£106.0	£141.3	£176.7	£184.7	£192.6	£200.6	£208.6	£216.6	£224.8	£233.0	£241.2	£249.4	£257.6	..	£1,998.46
Central Case - Direct Cost Benefits		£ millions																	£ millions	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	NPV 2011-2025	
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	£13.2	£26.4	£39.7	£52.9	£66.1	£63.0	£59.9	£56.8	£53.7	£50.6	£47.0	£43.3	£39.7	£36.0	£32.4	..	£519.52
2	14.6m Single Self-steer Axle	£0.0	£0.0	£34.5	£69.1	£103.6	£138.1	£172.7	£170.8	£168.9	£167.1	£165.2	£163.4	£160.9	£158.4	£155.9	£153.4	£150.9	..	£1,592.19
3	14.6m Active Steering	£0.0	£0.0	£26.0	£52.0	£78.0	£104.0	£130.1	£128.1	£126.1	£124.1	£122.2	£120.2	£117.6	£115.0	£112.4	£109.8	£107.2	..	£1,177.10
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£75.8	£151.7	£227.5	£303.4	£379.2	£376.3	£373.3	£370.4	£367.4	£364.5	£360.4	£356.3	£352.3	£348.2	£344.1	..	£3,541.15
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£76.8	£153.6	£230.4	£307.2	£384.0	£381.0	£378.1	£375.1	£372.2	£369.2	£365.2	£361.1	£357.0	£352.9	£348.9	..	£3,586.72
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£71.2	£142.5	£213.7	£284.9	£356.2	£353.1	£350.1	£347.0	£344.0	£340.9	£336.8	£332.6	£328.4	£324.3	£320.1	..	£3,314.96
7	15.65m Active Steering	£0.0	£0.0	£64.8	£129.6	£194.4	£259.2	£324.0	£320.9	£317.8	£314.7	£311.6	£308.5	£304.2	£300.0	£295.8	£291.5	£287.3	..	£3,002.34
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£19.9	£39.9	£59.8	£79.8	£99.7	£102.6	£105.5	£108.4	£111.3	£114.2	£117.1	£120.1	£123.0	£126.0	£128.9	..	£1,068.52
9	14.6m Single Self-steer Axle	£0.0	£0.0	£41.0	£82.0	£123.1	£164.1	£205.1	£209.0	£212.9	£216.8	£220.7	£224.6	£228.5	£232.4	£236.2	£240.1	£244.0	..	£2,121.25
10	14.6m Active Steering	£0.0	£0.0	£32.6	£65.1	£97.7	£130.2	£162.8	£166.6	£170.5	£174.3	£178.2	£182.0	£185.8	£189.6	£193.5	£197.3	£201.1	..	£1,710.82
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£87.0	£174.1	£261.1	£348.1	£435.1	£442.0	£448.9	£455.8	£462.7	£469.6	£476.3	£483.1	£489.8	£496.6	£503.4	..	£4,449.07
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£87.9	£175.9	£263.8	£351.8	£439.7	£446.6	£453.5	£460.3	£467.2	£474.1	£480.8	£487.6	£494.3	£501.0	£507.8	..	£4,492.68
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£82.5	£164.9	£247.4	£329.9	£412.3	£419.2	£426.0	£432.9	£439.7	£446.6	£453.3	£460.0	£466.7	£473.4	£480.2	..	£4,227.69
14	15.65m Active Steering	£0.0	£0.0	£76.2	£152.4	£228.6	£304.9	£381.1	£388.0	£394.9	£401.8	£408.8	£415.7	£422.5	£429.3	£436.1	£442.9	£449.7	..	£3,928.72

Table A32 Continued

Central Case - Total Economic Impact																				£ millions
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	NPV 2011-2025	
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	£15.8	£31.5	£47.3	£63.1	£78.8	£69.0	£59.2	£49.4	£39.6	£29.8	£16.4	£3.1	£-10.3	£-23.7	£-37.1		£369.01
2	14.6m Single Self-steer Axle	£0.0	£0.0	£46.2	£92.4	£138.7	£184.9	£231.1	£224.4	£217.7	£211.0	£204.3	£197.5	£187.1	£176.7	£166.3	£155.8	£145.4		£1,949.93
3	14.6m Active Steering	£0.0	£0.0	£37.3	£74.6	£111.9	£149.2	£186.4	£179.5	£172.6	£165.7	£158.7	£151.8	£141.2	£130.6	£119.9	£109.3	£98.7		£1,511.32
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£99.8	£199.5	£299.3	£399.0	£498.8	£487.4	£476.1	£464.7	£453.4	£442.0	£424.0	£405.9	£387.9	£369.8	£351.7		£4,335.28
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£100.6	£201.1	£301.7	£402.3	£502.9	£491.5	£480.1	£468.7	£457.4	£446.0	£427.9	£409.8	£391.7	£373.7	£355.6		£4,373.81
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£94.8	£189.7	£284.5	£379.3	£474.1	£462.6	£451.1	£439.6	£428.0	£416.5	£398.3	£380.1	£361.8	£343.6	£325.4		£4,091.32
7	15.65m Active Steering	£0.0	£0.0	£88.4	£176.7	£265.1	£353.4	£441.8	£430.2	£418.6	£407.0	£395.4	£383.8	£365.5	£347.2	£328.9	£310.6	£292.3		£3,776.18
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£29.6	£59.2	£88.8	£118.4	£148.1	£154.2	£160.3	£166.3	£172.4	£178.5	£185.1	£191.7	£198.3	£204.9	£211.5		£1,656.04
9	14.6m Single Self-steer Axle	£0.0	£0.0	£59.7	£119.4	£179.1	£238.8	£298.6	£307.4	£316.2	£325.0	£333.8	£342.7	£351.8	£360.9	£370.0	£379.2	£388.3		£3,205.94
10	14.6m Active Steering	£0.0	£0.0	£50.8	£101.7	£152.5	£203.3	£254.2	£262.8	£271.5	£280.2	£288.8	£297.5	£306.5	£315.5	£324.4	£333.4	£342.4		£2,772.10
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£122.7	£245.4	£368.1	£490.8	£613.6	£628.5	£643.5	£658.4	£673.4	£688.3	£703.3	£718.4	£733.4	£748.5	£763.5		£6,467.40
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£123.5	£247.0	£370.5	£494.0	£617.5	£632.4	£647.3	£662.2	£677.1	£692.1	£707.1	£722.1	£737.1	£752.1	£767.1		£6,504.11
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£117.8	£235.7	£353.5	£471.4	£589.2	£604.1	£618.9	£633.7	£648.6	£663.4	£678.4	£693.3	£708.2	£723.2	£738.1		£6,228.62
14	15.65m Active Steering	£0.0	£0.0	£111.5	£223.1	£334.6	£446.2	£557.7	£572.6	£587.5	£602.4	£617.4	£632.3	£647.3	£662.3	£677.3	£692.3	£707.3		£5,927.17

**Table A33: High Scenario – Direct Industry Benefits (net indirect taxation), Environmental Benefits and Total Economic Impact**

High - Environmental Benefits		£ millions																	£ millions	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	NPV 2011-2025	
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	£4.4	£8.7	£13.1	£17.5	£21.8	£15.5	£9.1	£2.8	£-3.5	£-9.9	£-19.3	£-28.7	£-38.0	£-47.4	£-56.8	..	£-49.64
2	14.6m Single Self-steer Axle	£0.0	£0.0	£15.1	£30.2	£45.3	£60.5	£75.6	£71.4	£67.2	£63.1	£58.9	£54.7	£47.5	£40.2	£32.9	£25.6	£18.3	..	£547.82
3	14.6m Active Steering	£0.0	£0.0	£14.6	£29.1	£43.7	£58.3	£72.8	£68.5	£64.2	£59.9	£55.6	£51.3	£43.9	£36.5	£29.1	£21.7	£14.3	..	£516.70
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£30.7	£61.4	£92.1	£122.7	£153.4	£146.4	£139.3	£132.3	£125.2	£118.2	£105.5	£92.9	£80.3	£67.6	£55.0	..	£1,170.54
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£30.5	£61.0	£91.6	£122.1	£152.6	£145.5	£138.4	£131.4	£124.3	£117.2	£104.5	£91.8	£79.1	£66.4	£53.8	..	£1,161.22
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£30.3	£60.6	£90.8	£121.1	£151.4	£144.2	£137.1	£129.9	£122.8	£115.6	£102.9	£90.1	£77.4	£64.7	£51.9	..	£1,147.03
7	15.65m Active Steering	£0.0	£0.0	£30.2	£60.4	£90.7	£120.9	£151.1	£143.9	£136.8	£129.6	£122.4	£115.3	£102.5	£89.7	£77.0	£64.2	£51.5	..	£1,143.70
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£11.5	£22.9	£34.4	£45.8	£57.3	£60.8	£64.4	£67.9	£71.5	£75.0	£79.0	£82.9	£86.9	£90.8	£94.8	..	£686.21
9	14.6m Single Self-steer Axle	£0.0	£0.0	£22.1	£44.2	£66.2	£88.3	£110.4	£115.9	£121.5	£127.0	£132.6	£138.1	£144.0	£149.8	£155.7	£161.5	£167.4	..	£1,270.68
10	14.6m Active Steering	£0.0	£0.0	£21.5	£43.1	£64.6	£86.1	£107.7	£113.1	£118.5	£123.9	£129.4	£134.8	£140.5	£146.2	£151.9	£157.7	£163.4	..	£1,239.84
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£42.3	£84.6	£127.0	£169.3	£211.6	£220.9	£230.1	£239.3	£248.6	£257.8	£267.2	£276.6	£286.0	£295.4	£304.8	..	£2,380.93
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£42.2	£84.3	£126.5	£168.6	£210.8	£220.0	£229.2	£238.4	£247.6	£256.8	£266.2	£275.6	£284.9	£294.3	£303.6	..	£2,371.85
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£41.9	£83.8	£125.8	£167.7	£209.6	£218.7	£227.9	£237.0	£246.2	£255.3	£264.6	£273.9	£283.2	£292.5	£301.9	..	£2,358.00
14	15.65m Active Steering	£0.0	£0.0	£41.9	£83.7	£125.6	£167.4	£209.3	£218.4	£227.6	£236.7	£245.8	£255.0	£264.3	£273.6	£282.8	£292.1	£301.4	..	£2,354.76
High - Direct Cost Benefits		£ millions																	£ millions	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	NPV 2011-2025	
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	£18.3	£36.6	£54.9	£73.2	£91.5	£88.8	£86.1	£83.3	£80.6	£77.8	£74.5	£71.2	£67.9	£64.6	£61.2	..	£777.71
2	14.6m Single Self-steer Axle	£0.0	£0.0	£44.4	£88.9	£133.3	£177.8	£222.2	£221.0	£219.8	£218.6	£217.4	£216.2	£214.4	£212.5	£210.6	£208.8	£206.9	..	£2,094.34
3	14.6m Active Steering	£0.0	£0.0	£33.5	£67.0	£100.5	£134.0	£167.5	£166.2	£164.8	£163.5	£162.1	£160.7	£158.7	£156.7	£154.7	£152.7	£150.7	..	£1,560.81
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£97.3	£194.5	£291.8	£389.1	£486.3	£484.8	£483.3	£481.8	£480.2	£478.7	£476.0	£473.3	£470.6	£467.9	£465.2	..	£4,625.95
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£98.4	£196.9	£295.3	£393.8	£492.2	£490.7	£489.2	£487.6	£486.1	£484.6	£481.9	£479.2	£476.5	£473.8	£471.1	..	£4,682.79
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£91.3	£182.6	£274.0	£365.3	£456.6	£454.9	£453.3	£451.6	£450.0	£448.3	£446.5	£444.7	£443.0	£441.1	£439.2	..	£4,334.37
7	15.65m Active Steering	£0.0	£0.0	£83.7	£167.4	£251.1	£334.7	£418.4	£416.7	£415.0	£413.2	£411.5	£409.8	£406.9	£404.0	£401.1	£398.1	£395.2	..	£3,963.31
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£25.1	£50.3	£75.4	£100.6	£125.7	£129.4	£133.2	£136.9	£140.6	£144.4	£148.2	£152.0	£155.7	£159.5	£163.3	..	£1,349.88
9	14.6m Single Self-steer Axle	£0.0	£0.0	£50.9	£101.7	£152.6	£203.4	£254.3	£258.7	£263.2	£267.7	£272.2	£276.7	£281.1	£285.5	£289.9	£294.3	£298.7	..	£2,616.49
10	14.6m Active Steering	£0.0	£0.0	£40.0	£80.0	£120.0	£160.0	£200.0	£204.5	£208.9	£213.3	£217.7	£222.1	£226.5	£230.8	£235.2	£239.6	£243.9	..	£2,091.11
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£106.5	£213.1	£319.6	£426.2	£532.7	£539.7	£546.7	£553.7	£560.7	£567.7	£574.4	£581.2	£587.9	£594.7	£601.4	..	£5,393.61
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£109.2	£218.5	£327.7	£437.0	£546.2	£554.2	£562.2	£570.2	£578.2	£586.2	£593.9	£601.7	£609.5	£617.2	£625.0	..	£5,560.37
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£102.2	£204.5	£306.7	£409.0	£511.2	£519.2	£527.1	£535.0	£543.0	£550.9	£558.7	£566.4	£574.1	£581.9	£589.6	..	£5,221.04
14	15.65m Active Steering	£0.0	£0.0	£94.8	£189.6	£284.4	£379.2	£474.0	£482.1	£490.1	£498.1	£506.1	£514.2	£522.0	£529.8	£537.7	£545.5	£553.3	..	£4,865.51

Table A33 continued

High - Total Economic Impact		£ millions																	£ millions
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	NPV 2011-2025
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	£22.7	£45.3	£68.0	£90.7	£113.4	£104.3	£95.2	£86.1	£77.0	£67.9	£55.2	£42.5	£29.8	£17.1	£4.4	£728.07
2	14.6m Single Self-steer Axle	£0.0	£0.0	£59.6	£119.1	£178.7	£238.3	£297.8	£292.5	£287.1	£281.7	£276.3	£271.0	£261.8	£252.7	£243.5	£234.4	£225.2	£2,642.16
3	14.6m Active Steering	£0.0	£0.0	£48.1	£96.1	£144.2	£192.3	£240.4	£234.7	£229.1	£223.4	£217.7	£212.1	£202.7	£193.3	£183.8	£174.4	£165.0	£2,077.51
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£128.0	£255.9	£383.9	£511.8	£639.8	£631.2	£622.6	£614.0	£605.5	£596.9	£581.5	£566.2	£550.9	£535.5	£520.2	£5,796.49
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£129.0	£257.9	£386.9	£515.9	£644.8	£636.2	£627.6	£619.0	£610.4	£601.8	£586.4	£571.0	£555.6	£540.2	£524.9	£5,844.02
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£121.6	£243.2	£364.8	£486.4	£608.0	£599.2	£590.4	£581.6	£572.8	£564.0	£548.4	£532.8	£517.2	£501.7	£486.1	£5,481.40
7	15.65m Active Steering	£0.0	£0.0	£113.9	£227.8	£341.7	£455.6	£569.5	£560.6	£551.7	£542.8	£533.9	£525.0	£509.4	£493.7	£478.0	£462.4	£446.7	£5,107.01
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£36.6	£73.2	£109.8	£146.4	£183.0	£190.3	£197.6	£204.8	£212.1	£219.4	£227.1	£234.9	£242.6	£250.4	£258.1	£2,036.09
9	14.6m Single Self-steer Axle	£0.0	£0.0	£72.9	£145.9	£218.8	£291.7	£364.7	£374.7	£384.7	£394.7	£404.8	£414.8	£425.1	£435.3	£445.6	£455.8	£466.1	£3,887.17
10	14.6m Active Steering	£0.0	£0.0	£61.5	£123.1	£184.6	£246.2	£307.7	£317.6	£327.4	£337.2	£347.1	£356.9	£367.0	£377.1	£387.2	£397.2	£407.3	£3,330.94
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£148.9	£297.7	£446.6	£595.5	£744.3	£760.6	£776.8	£793.0	£809.3	£825.5	£841.7	£857.8	£873.9	£890.1	£906.2	£7,774.54
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£151.4	£302.8	£454.2	£605.6	£757.1	£774.2	£791.4	£808.6	£825.8	£843.0	£860.1	£877.2	£894.4	£911.5	£928.6	£7,932.22
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£144.2	£288.3	£432.5	£576.6	£720.8	£737.9	£755.0	£772.1	£789.2	£806.2	£823.3	£840.3	£857.4	£874.4	£891.5	£7,579.04
14	15.65m Active Steering	£0.0	£0.0	£136.7	£273.3	£410.0	£546.7	£683.3	£700.5	£717.7	£734.8	£752.0	£769.2	£786.3	£803.4	£820.5	£837.6	£854.8	£7,220.26

**Table A34: Low Scenario – Direct Industry Benefits (net indirect taxation), Environmental Benefits and Total Economic Impact**

<b>Low - Direct Cost Benefits</b>																			<b>£ millions</b>	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	<b>£ millions</b>	
																			<b>NPV 2011-2025</b>	
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	£1.5	£3.1	£4.6	£6.1	£7.7	£3.8	£-0.1	£-4.0	£-7.9	£-11.8	£-16.2	£-20.6	£-25.0	£-29.4	£-33.8	..	..
2	14.6m Single Self-steer Axle	£0.0	£0.0	£10.1	£20.2	£30.3	£40.4	£50.5	£47.1	£43.7	£40.2	£36.8	£33.4	£29.4	£25.5	£21.5	£17.5	£13.6	..	..
3	14.6m Active Steering	£0.0	£0.0	£7.5	£15.0	£22.5	£30.0	£37.5	£34.1	£30.7	£27.2	£23.8	£20.3	£16.3	£12.3	£8.4	£4.4	£0.4	..	..
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£22.8	£45.7	£68.5	£91.3	£114.2	£107.8	£101.4	£95.0	£88.6	£82.2	£74.9	£67.5	£60.1	£52.7	£45.3	..	..
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£23.2	£46.5	£69.7	£93.0	£116.2	£109.8	£103.4	£97.1	£90.7	£84.3	£76.9	£69.5	£62.2	£54.8	£47.4	..	..
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£21.5	£43.0	£64.5	£86.0	£107.5	£101.0	£94.6	£88.2	£81.8	£75.4	£68.0	£60.6	£53.2	£45.8	£38.4	..	..
7	15.65m Active Steering	£0.0	£0.0	£18.8	£37.6	£56.3	£75.1	£93.9	£87.5	£81.0	£74.6	£68.2	£61.7	£54.3	£46.9	£39.4	£32.0	£24.6	..	..
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£8.4	£16.8	£25.1	£33.5	£41.9	£44.1	£46.3	£48.5	£50.7	£52.9	£55.2	£57.5	£59.8	£62.1	£64.4	..	..
9	14.6m Single Self-steer Axle	£0.0	£0.0	£16.8	£33.7	£50.5	£67.3	£84.2	£86.7	£89.3	£91.9	£94.4	£97.0	£99.6	£102.3	£104.9	£107.6	£110.2	..	..
10	14.6m Active Steering	£0.0	£0.0	£14.2	£28.5	£42.7	£56.9	£71.2	£73.7	£76.3	£78.8	£81.4	£83.9	£86.6	£89.2	£91.8	£94.4	£97.0	..	..
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£35.0	£69.9	£104.9	£139.8	£174.8	£179.1	£183.4	£187.7	£192.0	£196.3	£200.7	£205.1	£209.4	£213.8	£218.2	..	..
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£35.3	£70.7	£106.0	£141.3	£176.7	£181.0	£185.3	£189.6	£193.9	£198.2	£202.6	£206.9	£211.3	£215.7	£220.0	..	..
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£33.6	£67.2	£100.8	£134.4	£168.0	£172.3	£176.6	£180.9	£185.2	£189.5	£193.9	£198.2	£202.6	£207.0	£211.3	..	..
14	15.65m Active Steering	£0.0	£0.0	£31.0	£61.9	£92.9	£123.9	£154.8	£159.2	£163.5	£167.8	£172.1	£176.5	£180.9	£185.3	£189.6	£194.0	£198.4	..	..
<b>Low - Environmental Benefits</b>																			<b>£ millions</b>	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	<b>£ millions</b>	
																			<b>NPV 2011-2025</b>	
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	£-2.5	£-4.9	£-7.4	£-9.8	£-12.3	£-20.0	£-27.7	£-35.4	£-43.1	£-50.8	£-61.5	£-72.2	£-82.9	£-93.6	£-104.3	..	..
2	14.6m Single Self-steer Axle	£0.0	£0.0	£1.7	£3.5	£5.2	£7.0	£8.7	£1.9	£-5.0	£-11.8	£-18.6	£-25.5	£-35.3	£-45.2	£-55.1	£-64.9	£-74.8	..	..
3	14.6m Active Steering	£0.0	£0.0	£1.7	£3.5	£5.2	£7.0	£8.7	£1.9	£-5.0	£-11.8	£-18.6	£-25.5	£-35.3	£-45.2	£-55.1	£-64.9	£-74.8	..	..
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£4.2	£8.5	£12.7	£17.0	£21.2	£8.9	£-3.5	£-15.8	£-28.2	£-40.5	£-58.4	£-76.2	£-94.1	£-111.9	£-129.8	..	..
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£4.2	£8.5	£12.7	£17.0	£21.2	£8.9	£-3.5	£-15.8	£-28.2	£-40.5	£-58.4	£-76.2	£-94.1	£-111.9	£-129.8	..	..
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£4.2	£8.5	£12.7	£17.0	£21.2	£8.9	£-3.5	£-15.8	£-28.2	£-40.5	£-58.4	£-76.2	£-94.1	£-111.9	£-129.8	..	..
7	15.65m Active Steering	£0.0	£0.0	£4.2	£8.5	£12.7	£17.0	£21.2	£8.9	£-3.5	£-15.8	£-28.2	£-40.5	£-58.4	£-76.2	£-94.1	£-111.9	£-129.8	..	..
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£4.7	£9.4	£14.2	£18.9	£23.6	£25.9	£28.2	£30.5	£32.8	£35.0	£37.8	£40.6	£43.4	£46.2	£48.9	..	..
9	14.6m Single Self-steer Axle	£0.0	£0.0	£8.9	£17.7	£26.6	£35.5	£44.3	£47.4	£50.5	£53.6	£56.7	£59.8	£63.3	£66.8	£70.3	£73.9	£77.4	..	..
10	14.6m Active Steering	£0.0	£0.0	£8.9	£17.7	£26.6	£35.5	£44.3	£47.4	£50.5	£53.6	£56.6	£59.7	£63.2	£66.8	£70.3	£73.8	£77.3	..	..
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£16.4	£32.9	£49.3	£65.7	£82.2	£86.8	£91.4	£96.1	£100.7	£105.4	£110.4	£115.5	£120.6	£125.6	£130.7	..	..
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£16.4	£32.9	£49.3	£65.7	£82.2	£86.8	£91.4	£96.1	£100.7	£105.3	£110.4	£115.5	£120.6	£125.6	£130.7	..	..
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£16.4	£32.9	£49.3	£65.7	£82.2	£86.8	£91.4	£96.1	£100.7	£105.3	£110.4	£115.5	£120.5	£125.6	£130.7	..	..
14	15.65m Active Steering	£0.0	£0.0	£16.4	£32.9	£49.3	£65.7	£82.2	£86.8	£91.4	£96.1	£100.7	£105.3	£110.4	£115.5	£120.5	£125.6	£130.6	..	..

Table A34 continued

Low - Total Economic Impact		£ millions																	£ millions			
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	NPV 2011-2025			
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
1	14.6m Fixed Axles	£0.0	£0.0	£-0.9	£-1.8	£-2.8	£-3.7	£-4.6	£-16.2	£-27.8	£-39.4	£-51.0	£-62.6	£-77.7	£-92.8	£-107.9	£-123.0	£-138.1	..	..	..	..
2	14.6m Single Self-steer Axle	£0.0	£0.0	£11.8	£23.7	£35.5	£47.4	£59.2	£49.0	£38.7	£28.4	£18.2	£7.9	£-5.9	£-19.8	£-33.6	£-47.4	£-61.2	..	..	..	..
3	14.6m Active Steering	£0.0	£0.0	£9.3	£18.5	£27.8	£37.0	£46.3	£36.0	£25.7	£15.4	£5.1	£-5.2	£-19.0	£-32.9	£-46.7	£-60.6	£-74.4	..	..	..	..
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£27.1	£54.2	£81.2	£108.3	£135.4	£116.7	£97.9	£79.2	£60.5	£41.8	£16.5	£-8.7	£-34.0	£-59.2	£-84.5	..	..	..	..
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£27.5	£55.0	£82.5	£109.9	£137.4	£118.7	£100.0	£81.2	£62.5	£43.8	£18.6	£-6.7	£-31.9	£-57.1	£-82.4	..	..	..	..
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£25.7	£51.5	£77.2	£102.9	£128.7	£109.9	£91.2	£72.4	£53.7	£34.9	£9.7	£-15.6	£-40.9	£-66.1	£-91.4	..	..	..	..
7	15.65m Active Steering	£0.0	£0.0	£23.0	£46.0	£69.1	£92.1	£115.1	£96.3	£77.6	£58.8	£40.0	£21.2	£-4.1	£-29.3	£-54.6	£-79.9	£-105.2	..	..	..	..
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£13.1	£26.2	£39.3	£52.4	£65.5	£70.0	£74.5	£79.0	£83.4	£87.9	£93.0	£98.1	£103.2	£108.3	£113.4	..	..	..	..
9	14.6m Single Self-steer Axle	£0.0	£0.0	£25.7	£51.4	£77.1	£102.8	£128.5	£134.2	£139.8	£145.5	£151.1	£156.8	£162.9	£169.1	£175.3	£181.4	£187.6	..	..	..	..
10	14.6m Active Steering	£0.0	£0.0	£23.1	£46.2	£69.3	£92.4	£115.5	£121.1	£126.8	£132.4	£138.0	£143.6	£149.8	£155.9	£162.1	£168.2	£174.4	..	..	..	..
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£51.4	£102.8	£154.2	£205.5	£256.9	£265.9	£274.8	£283.8	£292.7	£301.7	£311.1	£320.6	£330.0	£339.5	£348.9	..	..	..	..
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£51.8	£103.5	£155.3	£207.1	£258.9	£267.8	£276.7	£285.7	£294.6	£303.6	£313.0	£322.4	£331.9	£341.3	£350.7	..	..	..	..
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£50.0	£100.1	£150.1	£200.2	£250.2	£259.1	£268.1	£277.0	£285.9	£294.9	£304.3	£313.7	£323.1	£332.6	£342.0	..	..	..	..
14	15.65m Active Steering	£0.0	£0.0	£47.4	£94.8	£142.2	£189.6	£237.0	£245.9	£254.9	£263.9	£272.8	£281.8	£291.2	£300.7	£310.2	£319.6	£329.1	..	..	..	..

**Table A35: Single Deck Scenario – Direct Industry Benefits (net indirect taxation), Environmental Benefits and Total Economic Impact**

<b>Single - Direct Cost Benefits</b>																			<b>£ millions</b>
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	<b>NPV 2011-2025</b>
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	£13.1	£26.2	£39.3	£52.4	£65.5	£63.3	£61.2	£59.1	£57.0	£54.8	£52.3	£49.7	£47.2	£44.6	£42.1	£550.04
2	14.6m Single Self-steer Axle	£0.0	£0.0	£33.6	£67.2	£100.8	£134.4	£168.0	£167.1	£166.1	£165.2	£164.2	£163.3	£161.9	£160.4	£159.0	£157.6	£156.1	£1,582.10
3	14.6m Active Steering	£0.0	£0.0	£25.5	£50.9	£76.4	£101.8	£127.3	£126.2	£125.2	£124.1	£123.1	£122.0	£120.5	£119.0	£117.4	£115.9	£114.4	£1,185.22
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£73.8	£147.5	£221.3	£295.0	£368.8	£367.6	£366.5	£365.3	£364.1	£363.0	£360.9	£358.9	£356.9	£354.8	£352.8	£3,507.84
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£74.7	£149.3	£224.0	£298.6	£373.3	£372.1	£371.0	£369.8	£368.6	£367.5	£365.5	£363.4	£361.4	£359.4	£357.3	£3,551.28
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£69.3	£138.7	£208.0	£277.4	£346.7	£345.4	£344.2	£342.9	£341.7	£340.5	£338.3	£336.2	£334.1	£331.9	£329.8	£3,291.50
7	15.65m Active Steering	£0.0	£0.0	£62.7	£125.4	£188.2	£250.9	£313.6	£312.3	£311.0	£309.6	£308.3	£307.0	£304.8	£302.6	£300.4	£298.2	£296.0	£2,969.54
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£20.1	£40.3	£60.4	£80.6	£100.7	£104.9	£109.1	£113.3	£117.5	£121.7	£126.1	£130.5	£134.9	£139.4	£143.8	£1,127.25
9	14.6m Single Self-steer Axle	£0.0	£0.0	£40.4	£80.8	£121.3	£161.7	£202.1	£207.3	£212.4	£217.6	£222.7	£227.9	£233.2	£238.5	£243.8	£249.1	£254.5	£2,140.03
10	14.6m Active Steering	£0.0	£0.0	£32.3	£64.6	£97.0	£129.3	£161.6	£166.7	£171.8	£176.9	£182.0	£187.1	£192.4	£197.6	£202.9	£208.1	£213.4	£1,747.19
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£86.7	£173.3	£260.0	£346.7	£433.3	£443.8	£454.2	£464.6	£475.0	£485.4	£496.2	£506.9	£517.7	£528.5	£539.2	£4,565.14
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£87.5	£175.1	£262.6	£350.1	£437.7	£448.1	£458.5	£468.9	£479.3	£489.7	£500.4	£511.2	£521.9	£532.7	£543.4	£4,606.43
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£82.3	£164.6	£246.9	£329.2	£411.5	£421.9	£432.2	£442.6	£453.0	£463.3	£474.1	£484.8	£495.5	£506.2	£516.9	£4,352.69
14	15.65m Active Steering	£0.0	£0.0	£75.9	£151.7	£227.6	£303.4	£379.3	£389.7	£400.2	£410.6	£421.1	£431.5	£442.3	£453.1	£463.9	£474.7	£485.5	£4,044.65
<b>Single Deck - Environmental Benefits</b>																			<b>£ millions</b>
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	<b>NPV 2011-2025</b>
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	£4.1	£8.2	£12.3	£16.4	£20.5	£16.5	£12.4	£8.3	£4.2	£0.1	£-6.1	£-12.4	£-18.6	£-24.9	£-31.1	£28.60
2	14.6m Single Self-steer Axle	£0.0	£0.0	£12.9	£25.7	£38.6	£51.5	£64.4	£62.0	£59.7	£57.4	£55.1	£52.8	£48.3	£43.7	£39.2	£34.7	£30.1	£515.69
3	14.6m Active Steering	£0.0	£0.0	£12.5	£24.9	£37.4	£49.9	£62.4	£60.0	£57.6	£55.1	£52.7	£50.3	£45.7	£41.1	£36.5	£31.8	£27.2	£493.03
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£26.0	£52.0	£78.0	£104.0	£130.1	£126.4	£122.7	£119.0	£115.3	£111.6	£103.9	£96.2	£88.5	£80.8	£73.1	£1,082.45
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£25.9	£51.8	£77.7	£103.6	£129.5	£125.7	£122.0	£118.3	£114.6	£110.8	£103.1	£95.4	£87.7	£80.0	£72.2	£1,075.67
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£25.7	£51.3	£77.0	£102.7	£128.6	£124.8	£121.0	£117.2	£113.5	£109.7	£101.9	£94.2	£86.4	£78.7	£70.9	£1,065.34
7	15.65m Active Steering	£0.0	£0.0	£25.7	£51.3	£77.0	£102.7	£128.4	£124.6	£120.8	£117.0	£113.2	£109.4	£101.7	£93.9	£86.1	£78.4	£70.6	£1,062.92
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£11.9	£23.8	£35.6	£47.5	£59.4	£66.1	£72.7	£79.4	£86.1	£92.8	£101.1	£109.3	£117.6	£125.8	£134.1	£831.91
9	14.6m Single Self-steer Axle	£0.0	£0.0	£20.5	£41.1	£61.6	£82.1	£102.7	£111.0	£119.3	£127.6	£135.9	£144.3	£154.1	£163.9	£173.7	£183.5	£193.3	£1,308.37
10	14.6m Active Steering	£0.0	£0.0	£20.1	£40.3	£60.4	£80.5	£100.7	£108.9	£117.1	£125.3	£133.6	£141.8	£151.5	£161.2	£170.9	£180.6	£190.3	£1,285.75
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£41.2	£82.4	£123.7	£164.9	£206.1	£223.4	£240.6	£257.9	£275.2	£292.4	£312.9	£333.5	£354.0	£374.5	£395.0	£2,649.85
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£41.1	£82.2	£123.3	£164.4	£205.5	£222.7	£240.0	£257.2	£274.5	£291.7	£312.2	£332.7	£353.2	£373.6	£394.1	£2,643.17
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£40.9	£81.8	£122.8	£163.7	£204.6	£221.8	£239.0	£256.2	£273.4	£290.6	£311.0	£331.5	£351.9	£372.4	£392.8	£2,632.99
14	15.65m Active Steering	£0.0	£0.0	£40.9	£81.8	£122.6	£163.5	£204.4	£221.6	£238.8	£256.0	£273.2	£290.3	£310.8	£331.2	£351.6	£372.1	£392.5	£2,630.60

Table A35 continued

Single Deck - Total Economic Impact		£ millions																	£ millions	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	NPV 2011-2025	
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	£17.2	£34.4	£51.6	£68.8	£86.0	£79.8	£73.6	£67.4	£61.2	£55.0	£46.1	£37.3	£28.5	£19.7	£10.9		£578.65
2	14.6m Single Self-steer Axle	£0.0	£0.0	£46.5	£92.9	£139.4	£185.9	£232.3	£229.1	£225.8	£222.6	£219.4	£216.1	£210.1	£204.2	£198.2	£192.2	£186.3		£2,097.79
3	14.6m Active Steering	£0.0	£0.0	£37.9	£75.8	£113.8	£151.7	£189.6	£186.2	£182.7	£179.3	£175.8	£172.4	£166.2	£160.0	£153.9	£147.7	£141.6		£1,678.25
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£99.8	£199.5	£299.3	£399.1	£498.8	£494.0	£489.1	£484.3	£479.4	£474.5	£464.8	£455.1	£445.4	£435.6	£425.9		£4,590.30
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£100.5	£201.1	£301.6	£402.2	£502.7	£497.8	£493.0	£488.1	£483.2	£478.3	£468.6	£458.8	£449.1	£439.3	£429.6		£4,626.95
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£95.1	£190.1	£285.2	£380.2	£475.3	£470.2	£465.2	£460.2	£455.2	£450.1	£440.3	£430.4	£420.5	£410.6	£400.7		£4,356.84
7	15.65m Active Steering	£0.0	£0.0	£88.4	£176.8	£265.2	£353.6	£441.9	£436.8	£431.7	£426.6	£421.5	£416.4	£406.5	£396.5	£386.5	£376.6	£366.6		£4,032.46
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£32.0	£64.0	£96.1	£128.1	£160.1	£171.0	£181.9	£192.7	£203.6	£214.5	£227.2	£239.8	£252.5	£265.2	£277.9		£1,959.15
9	14.6m Single Self-steer Axle	£0.0	£0.0	£60.9	£121.9	£182.8	£243.8	£304.7	£318.2	£331.7	£345.2	£358.7	£372.2	£387.3	£402.4	£417.5	£432.6	£447.7		£3,448.40
10	14.6m Active Steering	£0.0	£0.0	£52.5	£104.9	£157.4	£209.8	£262.3	£275.6	£288.9	£302.3	£315.6	£328.9	£343.9	£358.8	£373.8	£388.8	£403.7		£3,032.94
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£127.9	£255.8	£383.7	£511.5	£639.4	£667.1	£694.8	£722.5	£750.2	£777.8	£809.1	£840.4	£871.7	£902.9	£934.2		£7,214.99
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£128.6	£257.3	£385.9	£514.5	£643.2	£670.8	£698.5	£726.1	£753.7	£781.4	£812.6	£843.8	£875.1	£906.3	£937.5		£7,249.60
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£123.2	£246.4	£369.7	£492.9	£616.1	£643.7	£671.2	£698.8	£726.4	£753.9	£785.1	£816.3	£847.4	£878.6	£909.7		£6,985.68
14	15.65m Active Steering	£0.0	£0.0	£116.7	£233.5	£350.2	£466.9	£583.7	£611.3	£638.9	£666.6	£694.2	£721.8	£753.1	£784.3	£815.5	£846.8	£878.0		£6,675.25

**Table A36: Sensitivity Test 5 – Environmental Benefits and Total Economic Impact**

Sensitivity Test 5 - Environmental Benefits		£ millions																		£ millions
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	NPV 2011-2025	
0	Base Case	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	14.6m Fixed Axles	£0.0	£0.0	£5.4	£10.7	£16.1	£21.4	£26.8	£21.2	£15.6	£10.1	£4.5	£-1.1	£-9.7	£-18.4	£-27.0	£-35.6	£-44.3	£-53.0	£-61.6
2	14.6m Single Self-steer Axle	£0.0	£0.0	£17.4	£34.7	£52.1	£69.5	£86.9	£84.3	£81.7	£79.1	£76.6	£74.0	£68.3	£62.6	£56.8	£51.1	£45.4	£39.7	£34.0
3	14.6m Active Steering	£0.0	£0.0	£17.0	£33.9	£50.9	£67.9	£84.8	£82.1	£79.5	£76.8	£74.1	£71.5	£65.6	£59.8	£54.0	£48.2	£42.4	£36.6	£30.8
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£35.1	£70.2	£105.3	£140.4	£175.5	£171.8	£168.0	£164.2	£160.4	£156.6	£147.2	£137.8	£128.5	£119.1	£109.7	£100.4	£91.1
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£35.0	£70.0	£105.0	£140.0	£174.9	£171.1	£167.3	£163.5	£159.7	£155.9	£146.4	£137.0	£127.6	£118.2	£108.8	£99.4	£90.0
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£34.8	£69.6	£104.4	£139.2	£174.0	£170.2	£166.3	£162.4	£158.6	£154.7	£145.3	£135.8	£126.3	£116.9	£107.4	£97.9	£88.4
7	15.65m Active Steering	£0.0	£0.0	£34.8	£69.5	£104.3	£139.1	£173.8	£169.9	£166.1	£162.2	£158.3	£154.5	£145.0	£135.5	£126.0	£116.5	£107.0	£97.5	£88.0
0	Base Case	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	14.6m Fixed Axles	£0.0	£0.0	£12.5	£24.9	£37.4	£49.8	£62.3	£66.6	£70.9	£75.2	£79.4	£83.7	£88.4	£93.1	£97.8	£102.5	£107.2	£111.9	£116.6
9	14.6m Single Self-steer Axle	£0.0	£0.0	£24.3	£48.6	£73.0	£97.3	£121.6	£128.7	£135.8	£142.9	£150.0	£157.1	£164.4	£171.8	£179.1	£186.4	£193.8	£201.1	£208.4
10	14.6m Active Steering	£0.0	£0.0	£23.9	£47.8	£71.7	£95.6	£119.6	£126.6	£133.6	£140.6	£147.6	£154.6	£161.8	£169.1	£176.3	£183.6	£190.8	£198.1	£205.4
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£46.7	£93.4	£140.1	£186.7	£233.4	£245.7	£258.0	£270.3	£282.7	£295.0	£307.4	£319.7	£332.1	£344.5	£356.8	£369.2	£381.5
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£46.6	£93.1	£139.7	£186.2	£232.8	£245.1	£257.4	£269.7	£282.0	£294.3	£306.6	£318.9	£331.3	£343.6	£355.9	£368.2	£380.5
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£46.4	£92.8	£139.1	£185.5	£231.9	£244.1	£256.4	£268.6	£280.9	£293.2	£305.5	£317.8	£330.1	£342.4	£354.7	£367.0	£379.3
14	15.65m Active Steering	£0.0	£0.0	£46.3	£92.7	£139.0	£185.3	£231.7	£243.9	£256.2	£268.4	£280.6	£292.9	£305.2	£317.5	£329.8	£342.1	£354.3	£366.6	£378.9
Sensitivity Test 5 - Total Economic Impact		£ millions																		£ millions
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		NPV 2011-2025
0	Base Case	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	14.6m Fixed Axles	£0.0	£0.0	£18.6	£37.2	£55.7	£74.3	£92.9	£84.2	£75.5	£66.9	£58.2	£49.5	£37.2	£25.0	£12.7	£0.4	£-11.9	£-24.2	£-36.5
2	14.6m Single Self-steer Axle	£0.0	£0.0	£51.9	£103.8	£155.7	£207.6	£259.5	£255.1	£250.6	£246.2	£241.8	£237.3	£229.1	£220.9	£212.7	£204.5	£196.3	£188.1	£179.9
3	14.6m Active Steering	£0.0	£0.0	£43.0	£85.9	£128.9	£171.9	£214.9	£210.2	£205.6	£200.9	£196.3	£191.7	£183.2	£174.8	£166.4	£158.0	£149.6	£141.2	£132.8
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£111.0	£221.9	£332.9	£443.8	£554.8	£548.1	£541.3	£534.6	£527.8	£521.1	£507.6	£494.2	£480.7	£467.3	£453.8	£440.4	£426.9
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£111.8	£223.6	£335.3	£447.1	£558.9	£552.1	£545.4	£538.6	£531.8	£525.1	£511.6	£498.1	£484.6	£471.1	£457.7	£444.2	£430.7
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£106.0	£212.1	£318.1	£424.2	£530.2	£523.3	£516.4	£509.5	£502.6	£495.7	£482.0	£468.4	£454.8	£441.1	£427.5	£413.9	£400.3
7	15.65m Active Steering	£0.0	£0.0	£99.6	£199.1	£298.7	£398.3	£497.8	£490.8	£483.9	£476.9	£469.9	£462.9	£449.2	£435.5	£421.8	£408.1	£394.4	£380.7	£367.0
0	Base Case	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	14.6m Fixed Axles	£0.0	£0.0	£32.4	£64.8	£97.2	£129.6	£162.0	£169.2	£176.4	£183.6	£190.7	£197.9	£205.6	£213.2	£220.9	£228.5	£236.1	£243.7	£251.3
9	14.6m Single Self-steer Axle	£0.0	£0.0	£65.3	£130.7	£196.0	£261.3	£326.7	£337.7	£348.7	£359.7	£370.7	£381.7	£392.9	£404.1	£415.3	£426.5	£437.8	£449.0	£460.2
10	14.6m Active Steering	£0.0	£0.0	£56.5	£112.9	£169.4	£225.9	£282.3	£293.2	£304.0	£314.9	£325.7	£336.6	£347.6	£358.7	£369.8	£380.9	£391.9	£403.0	£414.0
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£133.7	£267.4	£401.1	£534.8	£668.5	£687.7	£706.9	£726.1	£745.3	£764.6	£783.7	£802.8	£821.9	£841.1	£860.2	£879.3	£898.4
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£134.5	£269.0	£403.5	£538.0	£672.5	£691.7	£710.8	£730.0	£749.2	£768.3	£787.4	£806.5	£825.6	£844.7	£863.8	£882.9	£902.0
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£128.8	£257.7	£386.5	£515.4	£644.2	£663.3	£682.4	£701.5	£720.6	£739.7	£758.7	£777.8	£796.8	£815.8	£834.8	£853.8	£872.8
14	15.65m Active Steering	£0.0	£0.0	£122.5	£245.1	£367.6	£490.2	£612.7	£631.9	£651.1	£670.2	£689.4	£708.6	£727.7	£746.7	£765.8	£784.9	£804.0	£823.0	£842.1

**Table A37: Sensitivity Test 6 – Environmental Benefits and Total Economic Impact**

<b>Sensitivity Test 6 - Environmental Benefits</b>																			<b>£ millions</b>	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		<b>NPV 2011-2025</b>
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
1	14.6m Fixed Axles	£0.0	£0.0	£4.0	£7.9	£11.9	£15.8	£19.8	£13.6	£7.5	£1.3	£-4.8	£-10.9	£-20.1	£-29.3	£-38.5	£-47.7	£-56.9		<b>-£62.22</b>
2	14.6m Single Self-steer Axle	£0.0	£0.0	£14.5	£29.1	£43.6	£58.1	£72.7	£88.9	£65.2	£61.5	£57.8	£54.1	£47.3	£40.4	£33.6	£26.8	£19.9		£536.16
3	14.6m Active Steering	£0.0	£0.0	£14.1	£28.2	£42.4	£56.5	£70.6	£86.8	£63.0	£59.2	£55.4	£51.5	£44.6	£37.7	£30.8	£23.8	£16.9		£512.79
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£29.5	£59.0	£88.5	£118.0	£147.5	£141.4	£135.3	£129.3	£123.2	£117.1	£105.4	£93.7	£82.0	£70.3	£58.7		£1,148.56
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£29.4	£58.8	£88.2	£117.5	£146.9	£140.8	£134.7	£128.6	£122.4	£116.3	£104.6	£92.9	£81.2	£69.5	£57.8		£1,141.62
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£29.2	£58.4	£87.6	£116.8	£146.0	£139.8	£133.7	£127.5	£121.3	£115.1	£103.4	£91.6	£79.9	£68.1	£56.4		£1,131.03
7	15.65m Active Steering	£0.0	£0.0	£29.2	£58.3	£87.5	£116.6	£145.8	£139.6	£133.4	£127.2	£121.1	£114.9	£103.1	£91.3	£79.6	£67.8	£56.0		£1,128.54
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
8	14.6m Fixed Axles	£0.0	£0.0	£11.1	£22.1	£33.2	£44.2	£55.3	£59.0	£62.8	£66.5	£70.3	£74.0	£78.2	£82.4	£86.6	£90.7	£94.9		£674.49
9	14.6m Single Self-steer Axle	£0.0	£0.0	£21.5	£43.0	£64.5	£86.0	£107.5	£113.5	£119.5	£125.5	£131.6	£137.6	£143.9	£150.2	£156.5	£162.8	£169.0		£1,259.74
10	14.6m Active Steering	£0.0	£0.0	£21.1	£42.2	£63.3	£84.4	£105.5	£111.4	£117.3	£123.2	£129.1	£135.0	£141.2	£147.4	£153.6	£159.9	£166.1		£1,236.48
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£41.2	£82.4	£123.5	£164.7	£205.9	£216.1	£226.3	£236.5	£246.7	£256.9	£267.2	£277.5	£287.9	£298.2	£308.5		£2,360.42
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£41.1	£82.1	£123.2	£164.2	£205.3	£215.5	£225.6	£235.8	£246.0	£256.1	£266.4	£276.7	£287.0	£297.3	£307.6		£2,353.62
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£40.9	£81.8	£122.6	£163.5	£204.4	£214.5	£224.6	£234.8	£244.9	£255.0	£265.3	£275.5	£285.8	£296.0	£306.3		£2,343.24
14	15.65m Active Steering	£0.0	£0.0	£40.8	£81.7	£122.5	£163.3	£204.2	£214.3	£224.4	£234.5	£244.6	£254.7	£265.0	£275.2	£285.5	£295.7	£306.0		£2,340.81
<b>Sensitivity Test 6 - Total Economic Impact</b>																			<b>£ millions</b>	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		<b>NPV 2011-2025</b>
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
1	14.6m Fixed Axles	£0.0	£0.0	£17.2	£34.3	£51.5	£68.7	£85.9	£76.6	£67.4	£58.1	£48.9	£39.7	£26.8	£14.0	£1.2	£-11.7	£-24.5		£457.30
2	14.6m Single Self-steer Axle	£0.0	£0.0	£49.1	£98.1	£147.2	£196.2	£245.3	£239.7	£234.2	£228.6	£223.0	£217.4	£208.1	£198.8	£189.5	£180.2	£170.9		£2,128.35
3	14.6m Active Steering	£0.0	£0.0	£40.1	£80.3	£120.4	£160.5	£200.7	£194.9	£189.1	£183.3	£177.5	£171.7	£162.2	£152.7	£143.2	£133.7	£124.1		£1,689.89
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£105.4	£210.7	£316.1	£421.4	£526.8	£517.7	£508.7	£499.6	£490.6	£481.6	£465.8	£450.0	£434.3	£418.5	£402.8		£4,689.71
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£106.2	£212.4	£318.5	£424.7	£530.9	£521.8	£512.7	£503.7	£494.6	£485.5	£469.7	£454.0	£438.2	£422.4	£406.6		£4,728.33
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£100.4	£200.9	£301.3	£401.7	£502.2	£493.0	£483.7	£474.5	£465.3	£456.1	£440.2	£424.2	£408.3	£392.4	£376.5		£4,445.98
7	15.65m Active Steering	£0.0	£0.0	£94.0	£187.9	£281.9	£375.8	£469.8	£460.5	£451.2	£441.9	£432.6	£423.3	£407.3	£391.3	£375.3	£359.3	£343.3		£4,130.88
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
8	14.6m Fixed Axles	£0.0	£0.0	£31.0	£62.0	£93.0	£124.0	£155.0	£161.7	£168.3	£175.0	£181.6	£188.2	£195.4	£202.5	£209.6	£216.7	£223.8		£1,743.01
9	14.6m Single Self-steer Axle	£0.0	£0.0	£62.5	£125.0	£187.6	£250.1	£312.6	£322.5	£332.4	£342.3	£352.3	£362.2	£372.3	£382.5	£392.7	£402.9	£413.0		£3,380.99
10	14.6m Active Steering	£0.0	£0.0	£53.6	£107.3	£160.9	£214.6	£268.2	£278.0	£287.8	£297.5	£307.3	£317.0	£327.1	£337.1	£347.1	£357.1	£367.2		£2,947.30
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£128.2	£256.4	£384.6	£512.8	£641.0	£658.1	£675.2	£692.3	£709.4	£726.4	£743.5	£760.6	£777.7	£794.8	£811.9		£6,809.49
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£129.0	£258.0	£387.0	£516.0	£645.0	£662.0	£679.1	£696.1	£713.2	£730.2	£747.2	£764.3	£781.3	£798.4	£815.4		£6,846.30
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£123.3	£246.7	£370.0	£493.4	£616.7	£633.7	£650.7	£667.6	£684.6	£701.6	£718.5	£735.5	£752.5	£769.5	£786.5		£6,570.94
14	15.65m Active Steering	£0.0	£0.0	£117.0	£234.1	£351.1	£468.2	£585.2	£602.3	£619.3	£636.3	£653.4	£670.4	£687.5	£704.5	£721.6	£738.6	£755.7		£6,269.53

**Table A38: Sensitivity Test 7 – Environmental Benefits and Total Economic Impact**

Sensitivity Test 7 - Environmental Benefits		£ millions																	£ millions
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	NPV 2011-2025
0	Base Case	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	14.6m Fixed Axles	£0.0	£0.0	£1.1	£2.3	£3.4	£4.6	£5.7	£1.6	£8.8	£16.1	£23.4	£30.6	£40.9	£51.2	£61.5	£71.8	£82.1	£238.79
2	14.6m Single Self-steer Axle	£0.0	£0.0	£8.8	£17.7	£26.5	£35.4	£44.2	£38.3	£32.3	£26.3	£20.3	£14.3	£5.2	£3.8	£12.9	£21.9	£31.0	£179.32
3	14.6m Active Steering	£0.0	£0.0	£8.4	£16.9	£25.3	£33.7	£42.2	£36.1	£30.0	£23.9	£17.8	£11.7	£2.6	£6.6	£15.8	£24.9	£34.1	£155.65
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£18.3	£36.6	£54.9	£73.2	£91.5	£80.8	£70.1	£59.4	£48.7	£38.0	£21.7	£5.4	£10.9	£27.1	£43.4	£439.70
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£18.2	£36.4	£54.5	£72.7	£90.9	£80.2	£69.4	£58.7	£47.9	£37.2	£20.9	£4.6	£11.7	£28.0	£44.3	£432.57
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£18.0	£36.0	£54.0	£72.0	£90.0	£79.2	£68.4	£57.6	£46.8	£36.0	£19.7	£3.3	£13.0	£29.4	£45.8	£421.70
7	15.65m Active Steering	£0.0	£0.0	£17.9	£35.9	£53.8	£71.8	£89.7	£78.9	£68.1	£57.3	£46.5	£35.7	£19.4	£3.0	£13.4	£29.7	£46.1	£419.15
0	Base Case	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	14.6m Fixed Axles	£0.0	£0.0	£8.3	£16.5	£24.8	£33.1	£41.4	£44.0	£46.7	£49.3	£52.0	£54.7	£57.8	£60.9	£64.0	£67.1	£70.3	£500.54
9	14.6m Single Self-steer Axle	£0.0	£0.0	£15.9	£31.8	£47.7	£63.5	£79.4	£83.2	£87.1	£90.9	£94.7	£98.5	£102.7	£107.0	£111.2	£115.4	£119.6	£909.63
10	14.6m Active Steering	£0.0	£0.0	£15.5	£30.9	£46.4	£61.9	£77.3	£81.1	£84.8	£88.5	£92.2	£96.0	£100.1	£104.2	£108.3	£112.4	£116.6	£886.07
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£30.2	£60.4	£90.6	£120.8	£150.9	£156.9	£162.8	£168.7	£174.7	£180.6	£186.9	£193.1	£199.4	£205.6	£211.9	£1,676.23
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£30.1	£60.1	£90.2	£120.3	£150.3	£156.2	£162.1	£168.0	£174.0	£180.6	£186.1	£192.3	£198.5	£204.7	£211.0	£1,669.25
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£29.9	£59.8	£89.6	£119.5	£149.4	£155.3	£161.1	£167.0	£172.8	£178.7	£184.9	£191.0	£197.2	£203.4	£209.6	£1,658.60
14	15.65m Active Steering	£0.0	£0.0	£29.8	£59.7	£89.5	£119.3	£149.2	£155.0	£160.9	£166.7	£172.6	£178.4	£184.6	£190.8	£196.9	£203.1	£209.3	£1,656.11
Sensitivity Test 7 - Total Economic Impact		£ millions																	£ millions
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	NPV 2011-2025
0	Base Case	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	14.6m Fixed Axles	£0.0	£0.0	£14.4	£28.7	£43.1	£57.4	£71.8	£61.4	£51.1	£40.7	£30.3	£20.0	£6.0	£7.9	£21.8	£35.8	£49.7	£280.73
2	14.6m Single Self-steer Axle	£0.0	£0.0	£43.4	£86.8	£130.1	£173.5	£216.9	£209.1	£201.2	£193.3	£185.5	£177.6	£166.1	£154.6	£143.0	£131.5	£119.9	£1,771.51
3	14.6m Active Steering	£0.0	£0.0	£34.4	£68.9	£103.3	£137.8	£172.2	£164.2	£156.1	£148.0	£140.0	£131.9	£120.2	£108.4	£96.7	£84.9	£73.2	£1,332.75
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£94.2	£188.3	£282.5	£376.6	£470.8	£457.1	£443.5	£429.8	£416.1	£402.5	£382.1	£361.8	£341.4	£321.1	£300.7	£3,980.85
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£95.0	£189.9	£284.9	£379.9	£474.9	£461.2	£447.5	£433.8	£420.1	£406.4	£386.0	£365.7	£345.3	£324.9	£304.5	£4,019.29
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£89.2	£178.5	£267.7	£356.9	£446.1	£432.3	£418.5	£404.6	£390.8	£376.9	£356.4	£335.9	£315.4	£294.9	£274.3	£3,736.66
7	15.65m Active Steering	£0.0	£0.0	£82.8	£165.5	£248.3	£331.0	£413.8	£399.8	£385.9	£372.0	£358.1	£344.2	£323.6	£303.0	£282.4	£261.8	£241.2	£3,421.49
0	Base Case	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	14.6m Fixed Axles	£0.0	£0.0	£28.2	£56.4	£84.7	£112.9	£141.1	£146.6	£152.2	£157.7	£163.3	£168.8	£174.9	£181.0	£187.1	£193.1	£199.2	£1,569.06
9	14.6m Single Self-steer Axle	£0.0	£0.0	£56.9	£113.8	£170.7	£227.6	£284.5	£292.2	£300.0	£307.7	£315.4	£323.1	£331.2	£339.3	£347.4	£355.5	£363.6	£3,030.88
10	14.6m Active Steering	£0.0	£0.0	£48.0	£96.0	£144.1	£192.1	£240.1	£247.7	£255.3	£262.8	£270.4	£278.0	£285.9	£293.8	£301.8	£309.7	£317.6	£2,596.89
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£117.2	£234.4	£351.6	£468.8	£586.1	£598.9	£611.7	£624.5	£637.4	£650.2	£663.2	£676.2	£689.2	£702.2	£715.2	£6,125.30
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£118.0	£236.0	£354.0	£472.0	£590.0	£602.8	£615.6	£628.4	£641.1	£653.9	£666.9	£679.8	£692.8	£705.8	£718.7	£6,161.93
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£112.3	£224.7	£337.0	£449.4	£561.7	£574.4	£587.2	£599.9	£612.6	£625.3	£638.2	£651.1	£664.0	£676.8	£689.7	£5,886.29
14	15.65m Active Steering	£0.0	£0.0	£106.0	£212.1	£318.1	£424.2	£530.2	£543.0	£555.8	£568.6	£581.3	£594.1	£607.1	£620.0	£633.0	£646.0	£658.9	£5,584.82

**Table A39: Sensitivity Test 8 – Environmental Benefits and Total Economic Impact**

<b>Sensitivity Test 8 - Environmental Benefits</b>																			<b>£ millions</b>	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	<b>NPV 2011-2025</b>	
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	-£0.3	-£0.5	-£0.8	-£1.1	-£1.3	-£9.2	-£17.0	-£24.8	-£32.7	-£40.5	-£51.3	-£62.2	-£73.0	-£83.8	-£94.7		-£327.08
2	14.6m Single Self-steer Axle	£0.0	£0.0	£6.0	£12.0	£18.0	£24.0	£30.0	£22.9	£15.8	£8.7	£1.5	-£5.6	-£15.8	-£26.0	-£36.1	-£46.3	-£56.5		£0.90
3	14.6m Active Steering	£0.0	£0.0	£5.6	£11.2	£16.8	£22.4	£28.0	£20.7	£13.5	£6.3	-£1.0	-£8.2	-£18.5	-£28.7	-£39.0	-£49.3	-£59.5		-£22.93
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£12.7	£25.4	£38.1	£50.8	£63.5	£50.5	£37.5	£24.5	£11.4	-£1.6	-£20.1	-£38.7	-£57.3	-£75.9	-£94.4		£85.27
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£12.6	£25.2	£37.7	£50.3	£62.9	£49.8	£36.8	£23.7	£10.7	-£2.4	-£21.0	-£39.6	-£58.2	-£76.8	-£95.4		£78.05
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£12.4	£24.8	£37.2	£49.5	£61.9	£48.8	£35.7	£22.6	£9.5	-£3.6	-£22.2	-£40.9	-£59.5	-£78.2	-£96.8		£67.04
7	15.65m Active Steering	£0.0	£0.0	£12.3	£24.7	£37.0	£49.4	£61.7	£48.6	£35.5	£22.4	£9.3	-£3.8	-£22.5	-£41.2	-£59.8	-£78.5	-£97.2		£64.46
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£6.9	£13.8	£20.6	£27.5	£34.4	£36.5	£38.6	£40.7	£42.8	£45.0	£47.6	£50.2	£52.8	£55.4	£58.0		£413.56
9	14.6m Single Self-steer Axle	£0.0	£0.0	£13.1	£26.1	£39.2	£52.3	£65.4	£68.1	£70.8	£73.6	£76.3	£79.0	£82.2	£85.4	£88.5	£91.7	£94.9		£734.57
10	14.6m Active Steering	£0.0	£0.0	£12.7	£25.3	£38.0	£50.6	£63.3	£65.9	£68.5	£71.2	£73.8	£76.4	£79.5	£82.6	£85.7	£88.7	£91.8		£710.87
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£24.7	£49.4	£74.1	£98.8	£123.5	£127.3	£131.1	£134.9	£138.7	£142.5	£146.7	£150.9	£155.1	£159.3	£163.5		£1,334.13
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£24.6	£49.1	£73.7	£98.3	£122.8	£126.6	£130.4	£134.2	£137.9	£141.7	£145.9	£150.1	£154.3	£158.4	£162.6		£1,327.06
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£24.4	£48.8	£73.1	£97.5	£121.9	£125.6	£129.4	£133.1	£136.8	£140.5	£144.7	£148.8	£153.0	£157.1	£161.2		£1,316.28
14	15.65m Active Steering	£0.0	£0.0	£24.3	£48.7	£73.0	£97.3	£121.7	£125.4	£129.1	£132.8	£136.6	£140.3	£144.4	£148.5	£152.6	£156.8	£160.9		£1,313.75
<b>Sensitivity Test 8 - Total Economic Impact</b>																			<b>£ millions</b>	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	<b>NPV 2011-2025</b>	
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	14.6m Fixed Axles	£0.0	£0.0	£13.0	£25.9	£38.9	£51.8	£64.8	£53.8	£42.9	£32.0	£21.1	£10.1	-£4.3	-£18.8	-£33.3	-£47.8	-£62.3		£192.44
2	14.6m Single Self-steer Axle	£0.0	£0.0	£40.5	£81.1	£121.6	£162.2	£202.7	£193.7	£184.7	£175.7	£166.7	£157.7	£145.1	£132.4	£119.8	£107.1	£94.5		£1,593.09
3	14.6m Active Steering	£0.0	£0.0	£31.6	£63.2	£94.8	£126.4	£158.0	£148.8	£139.6	£130.4	£121.2	£112.0	£99.1	£86.3	£73.4	£60.5	£47.7		£1,154.18
4	15.65m 2 x Self-steer Axles	£0.0	£0.0	£88.6	£177.1	£265.7	£354.2	£442.8	£426.8	£410.8	£394.9	£378.9	£362.9	£340.3	£317.6	£295.0	£272.3	£249.7		£3,626.42
5	15.65m 1 x Command-steer Axle	£0.0	£0.0	£89.4	£178.7	£268.1	£357.5	£446.8	£430.8	£414.9	£398.9	£382.9	£366.9	£344.2	£321.5	£298.8	£276.2	£253.5		£3,664.77
6	15.65m 2 x Command-steer Axles	£0.0	£0.0	£83.6	£167.2	£250.9	£334.5	£418.1	£402.0	£385.8	£369.7	£353.5	£337.4	£314.6	£291.7	£268.9	£246.1	£223.3		£3,381.99
7	15.65m Active Steering	£0.0	£0.0	£77.1	£154.3	£231.4	£308.6	£385.7	£369.5	£353.3	£337.1	£320.8	£304.6	£281.7	£258.8	£235.9	£213.0	£190.1		£3,066.79
0	Base Case	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	14.6m Fixed Axles	£0.0	£0.0	£26.8	£53.6	£80.5	£107.3	£134.1	£139.1	£144.1	£149.1	£154.1	£159.2	£164.7	£170.2	£175.8	£181.3	£186.9		£1,482.08
9	14.6m Single Self-steer Axle	£0.0	£0.0	£54.1	£108.2	£162.3	£216.4	£270.4	£277.1	£283.7	£290.4	£297.0	£303.6	£310.7	£317.7	£324.8	£331.8	£338.8		£2,855.83
10	14.6m Active Steering	£0.0	£0.0	£45.2	£90.4	£135.6	£180.8	£226.0	£232.5	£239.0	£245.5	£252.0	£258.4	£265.3	£272.2	£279.1	£286.0	£292.9		£2,421.69
11	15.65m 2 x Self-steer Axles	£0.0	£0.0	£111.7	£223.4	£335.2	£446.9	£558.6	£569.3	£580.0	£590.7	£601.4	£612.0	£623.0	£634.0	£644.9	£655.9	£666.9		£5,783.20
12	15.65m 1 x Command-steer Axle	£0.0	£0.0	£112.5	£225.0	£337.5	£450.0	£562.6	£573.2	£583.8	£594.5	£605.1	£615.8	£626.7	£637.6	£648.6	£659.5	£670.4		£5,819.74
13	15.65m 2 x Command-steer Axles	£0.0	£0.0	£106.8	£213.7	£320.5	£427.4	£534.2	£544.8	£555.4	£566.0	£576.5	£587.1	£598.0	£608.8	£619.7	£630.5	£641.4		£5,543.97
14	15.65m Active Steering	£0.0	£0.0	£100.5	£201.1	£301.6	£402.2	£502.7	£513.4	£524.0	£534.7	£545.3	£555.9	£566.9	£577.8	£588.7	£599.6	£610.6		£5,242.47