

Transport User Benefit Appraisal TUBA (64-BIT) 1.9.5(1xB)
Program run on Mon Nov 09, 2015 at 14:40:51

ERRORS AND WARNINGS

Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2079 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2080 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2081 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2082 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2083 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2084 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2085 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2086 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2087 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2088 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2089 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2090 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2091 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2092 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2093 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2094 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2095 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2096 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2097 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2098 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2099 is ignored
Warning: Table VALUE_OF_TIME_GROWTH: data defined from horizon year 2078 to year 2100 is ignored
Warning: Table FUEL_COST_CHANGES: data defined from horizon year 2078 to year 2079 is ignored
Warning: Table FUEL_COST_CHANGES: data defined from horizon year 2078 to year 2080 is ignored
Warning: Table FUEL_COST_CHANGES: data defined from horizon year 2078 to year 2081 is ignored
Warning: Table FUEL_COST_CHANGES: data defined from horizon year 2078 to year 2082 is ignored
Warning: Table FUEL_COST_CHANGES: data defined from horizon year 2078 to year 2083 is ignored
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Warning: Table FUEL_COST_CHANGES: data defined from horizon year 2078 to year 2098 is ignored
Warning: Table FUEL_COST_CHANGES: data defined from horizon year 2078 to year 2099 is ignored
Warning: Table FUEL_COST_CHANGES: data defined from horizon year 2078 to year 2100 is ignored
32716 Warnings found

Warning (685 serious): Ratio of DM to DS travel time lower than limit for the following:

Origin	Destination	Time_slice	Veh_type	Purpose	Person_type	Year	DM_time	DS_time	Ratio	DM_trips	DS_trips
Displayed 0 warnings of a total of 9630 of this type.											

Warning (629 serious): Ratio of DM to DS travel time higher than limit for the following:

Origin	Destination	Time_slice	Veh_type	Purpose	Person_type	Year	DM_time	DS_time	Ratio	DM_trips	DS_trips
Displayed 0 warnings of a total of 8075 of this type.											

Warning (10 serious): Ratio of DM to DS travel distance lower than limit for the following:

Origin	Destination	Time_slice	Veh_type	Purpose	Person_type	Year	DM_dist	DS_dist	Ratio	DM_trips	DS_trips
Displayed 0 warnings of a total of 2784 of this type.											

Warning (2502 serious): Ratio of DM to DS travel distance higher than limit for the following:

Origin	Destination	Time_slice	Veh_type	Purpose	Person_type	Year	DM_dist	DS_dist	Ratio	DM_trips	DS_trips
Displayed 0 warnings of a total of 2502 of this type.											

Warning: DM speeds less than limit for the following:
 Origin Destination Time_slice Veh_type Purpose Person_type Year DM_dist DM_time Speed DM_trips
 Displayed 0 warnings of a total of 4881 of this type.

Warning: DS speeds less than limit for the following:
 Origin Destination Time_slice Veh_type Purpose Person_type Year DS_dist DS_time Speed DS_trips
 Displayed 0 warnings of a total of 4800 of this type.

TUBA ECONOMICS FILE DIFFERENCES

PURPOSE - (used)

*no.	type(B/C/O)	description
1	B	HB NHB Employers Business
2	C	HB Work
3	O	HB Education
4	O	HB Other
5	O	NHB Other
6	B	LGV Employers Business
7	B	HGV Employers Business

PURPOSE - (std)

*no.	type(B/C/O)	description
1	B	Business
2	C	Commuting
3	O	Other

VALUE_OF_TIME - (used)

*pence per hour

*Vtype/submode	Person_type	VOT_purpose1	VOT_purpose2	VOT_purpose3	..				
1	1	2274.0	681.0	604.0	604.0	604.0	604.0	0.0	0.0
1	2	1725.0	681.0	604.0	604.0	604.0	604.0	0.0	0.0
2	1	1024.0	681.0	604.0	604.0	604.0	604.0	1024.0	0.0
2	2	1024.0	681.0	604.0	604.0	604.0	604.0	1024.0	0.0
3	1	1024.0	0.0	0.0	0.0	0.0	0.0	1024.0	0.0
3	2	1024.0	0.0	0.0	0.0	0.0	0.0	1024.0	0.0
4	1	1206.0	0.0	0.0	0.0	0.0	0.0	0.0	1206.0
4	2	1206.0	0.0	0.0	0.0	0.0	0.0	0.0	1206.0
5	1	1206.0	0.0	0.0	0.0	0.0	0.0	0.0	1206.0
5	2	1206.0	0.0	0.0	0.0	0.0	0.0	0.0	1206.0
6	1	1232.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	2	1397.0	681.0	604.0	604.0	604.0	604.0	0.0	0.0
7	1	2208.0	681.0	604.0	604.0	604.0	604.0	0.0	0.0
7	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	2	2686.0	681.0	604.0	604.0	604.0	604.0	0.0	0.0

VALUE_OF_TIME - (std)

*pence per hour

*Vtype/submode	Person_type	VOT_purpose1	VOT_purpose2	VOT_purpose3	..
1	1	2274.0	681.0	604.0	
1	2	1725.0	681.0	604.0	
2	1	1024.0	681.0	604.0	
2	2	1024.0	681.0	604.0	
3	1	1024.0	0.0	0.0	
3	2	1024.0	0.0	0.0	
4	1	1206.0	0.0	0.0	
4	2	1206.0	0.0	0.0	
5	1	1206.0	0.0	0.0	
5	2	1206.0	0.0	0.0	
6	1	1232.0	0.0	0.0	
6	2	1397.0	681.0	604.0	
7	1	0.0	0.0	0.0	
7	2	2208.0	681.0	604.0	
8	1	0.0	0.0	0.0	
8	2	2686.0	681.0	604.0	

VALUE_OF_TIME_GROWTH - (used)

2076	2076	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
2077	2077	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
2078	2078	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
2079	2079	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
2080	2080	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
2081	2081	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
2082	2082	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
2083	2083	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
2084	2084	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
2085	2085	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
2086	2086	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
2087	2087	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
2088	2088	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18
2089	2089	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18
2090	2090	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2091	2091	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2092	2092	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2093	2093	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2094	2094	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2095	2095	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2096	2096	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2097	2097	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2098	2098	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2099	2099	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2100	2100	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15

VALUE_OF_TIME_GROWTH - (std)

*% change p.a.

*Start_yr	End_yr	VOT_Gr_purpose1	VOT_Gr_purpose2	VOT_Gr_purpose3 ..
2011	2011	0.80	0.80	0.80
2012	2012	-0.00	-0.00	-0.00
2013	2013	1.09	1.09	1.09
2014	2014	2.05	2.05	2.05
2015	2015	1.67	1.67	1.67
2016	2016	1.95	1.95	1.95
2017	2017	1.99	1.99	1.99
2018	2018	1.90	1.90	1.90
2019	2019	1.91	1.91	1.91
2020	2020	1.90	1.90	1.90
2021	2021	1.88	1.88	1.88
2022	2022	1.87	1.87	1.87
2023	2023	1.89	1.89	1.89
2024	2024	1.90	1.90	1.90
2025	2025	1.92	1.92	1.92
2026	2026	1.94	1.94	1.94
2027	2027	1.95	1.95	1.95
2028	2028	1.97	1.97	1.97
2029	2029	1.99	1.99	1.99
2030	2030	2.01	2.01	2.01
2031	2031	2.02	2.02	2.02
2032	2032	2.04	2.04	2.04
2033	2033	2.05	2.05	2.05
2034	2034	2.06	2.06	2.06
2035	2035	2.07	2.07	2.07
2036	2036	2.08	2.08	2.08
2037	2037	2.09	2.09	2.09
2038	2038	2.10	2.10	2.10
2039	2039	2.10	2.10	2.10
2040	2040	2.10	2.10	2.10
2041	2041	2.10	2.10	2.10
2042	2042	2.12	2.12	2.12
2043	2043	2.12	2.12	2.12
2044	2044	2.12	2.12	2.12
2045	2045	2.12	2.12	2.12
2046	2046	2.12	2.12	2.12
2047	2047	2.15	2.15	2.15
2048	2048	2.15	2.15	2.15

2049	2049	2.15	2.15	2.15
2050	2050	2.15	2.15	2.15
2051	2051	2.15	2.15	2.15
2052	2052	2.19	2.19	2.19
2053	2053	2.19	2.19	2.19
2054	2054	2.19	2.19	2.19
2055	2055	2.19	2.19	2.19
2056	2056	2.19	2.19	2.19
2057	2057	2.21	2.21	2.21
2058	2058	2.21	2.21	2.21
2059	2059	2.21	2.21	2.21
2060	2060	2.21	2.21	2.21
2061	2061	2.21	2.21	2.21
2062	2062	2.22	2.22	2.22
2063	2063	2.21	2.21	2.21
2064	2064	2.21	2.21	2.21
2065	2065	2.21	2.21	2.21
2066	2066	2.21	2.21	2.21
2067	2067	2.20	2.20	2.20
2068	2068	2.20	2.20	2.20
2069	2069	2.20	2.20	2.20
2070	2070	2.20	2.20	2.20
2071	2071	2.20	2.20	2.20
2072	2072	2.17	2.17	2.17
2073	2073	2.17	2.17	2.17
2074	2074	2.17	2.17	2.17
2075	2075	2.17	2.17	2.17
2076	2076	2.17	2.17	2.17
2077	2077	2.17	2.17	2.17
2078	2078	2.17	2.17	2.17
2079	2079	2.17	2.17	2.17
2080	2080	2.17	2.17	2.17
2081	2081	2.17	2.17	2.17
2082	2082	2.17	2.17	2.17
2083	2083	2.17	2.17	2.17
2084	2084	2.17	2.17	2.17
2085	2085	2.17	2.17	2.17
2086	2086	2.17	2.17	2.17
2087	2087	2.17	2.17	2.17
2088	2088	2.18	2.18	2.18
2089	2089	2.18	2.18	2.18
2090	2090	2.18	2.18	2.18
2091	2091	2.18	2.18	2.18
2092	2092	2.18	2.18	2.18
2093	2093	2.18	2.18	2.18
2094	2094	2.18	2.18	2.18
2095	2095	2.18	2.18	2.18
2096	2096	2.18	2.18	2.18
2097	2097	2.18	2.18	2.18
2098	2098	2.18	2.18	2.18
2099	2099	2.18	2.18	2.18
2100	2100	2.18	2.18	2.18

DEFAULT_PURPOSE_SPLIT - (used)

*Vtype/submode	purpose	Period1	Period2	Period3	Period4	Period5
1	1	18.1	13.0	19.9	12.3	3.2
1	2	46.0	40.8	11.4	36.2	8.5
1	3	18.5	25.7	36.0	27.4	47.0
1	4	7.9	7.6	10.5	9.2	15.8
1	5	9.5	12.9	22.2	14.9	25.5
1	6	0.0	0.0	0.0	0.0	0.0
1	7	0.0	0.0	0.0	0.0	0.0
2	1	0.0	0.0	0.0	0.0	0.0
2	2	0.0	0.0	0.0	0.0	0.0
2	3	0.0	0.0	0.0	0.0	0.0
2	4	100.0	100.0	100.0	100.0	100.0
2	5	0.0	0.0	0.0	0.0	0.0

2	6	0.0	0.0	0.0	0.0	0.0
2	7	0.0	0.0	0.0	0.0	0.0
3	1	0.0	0.0	0.0	0.0	0.0
3	2	0.0	0.0	0.0	0.0	0.0
3	3	0.0	0.0	0.0	0.0	0.0
3	4	0.0	0.0	0.0	0.0	0.0
3	5	0.0	0.0	0.0	0.0	0.0
3	6	100.0	100.0	100.0	100.0	100.0
3	7	0.0	0.0	0.0	0.0	0.0
4	1	0.0	0.0	0.0	0.0	0.0
4	2	0.0	0.0	0.0	0.0	0.0
4	3	0.0	0.0	0.0	0.0	0.0
4	4	0.0	0.0	0.0	0.0	0.0
4	5	0.0	0.0	0.0	0.0	0.0
4	6	0.0	0.0	0.0	0.0	0.0
4	7	100.0	100.0	100.0	100.0	100.0
5	1	0.0	0.0	0.0	0.0	0.0
5	2	0.0	0.0	0.0	0.0	0.0
5	3	0.0	0.0	0.0	0.0	0.0
5	4	0.0	0.0	0.0	0.0	0.0
5	5	0.0	0.0	0.0	0.0	0.0
5	6	0.0	0.0	0.0	0.0	0.0
5	7	100.0	100.0	100.0	100.0	100.0
6	1	0.0	0.0	0.0	0.0	0.0
6	2	0.0	0.0	0.0	0.0	0.0
6	3	0.0	0.0	0.0	0.0	0.0
6	4	100.0	100.0	100.0	100.0	100.0
6	5	0.0	0.0	0.0	0.0	0.0
6	6	0.0	0.0	0.0	0.0	0.0
6	7	0.0	0.0	0.0	0.0	0.0
7	1	0.0	0.0	0.0	0.0	0.0
7	2	0.0	0.0	0.0	0.0	0.0
7	3	0.0	0.0	0.0	0.0	0.0
7	4	100.0	100.0	100.0	100.0	100.0
7	5	0.0	0.0	0.0	0.0	0.0
7	6	0.0	0.0	0.0	0.0	0.0
7	7	0.0	0.0	0.0	0.0	0.0
8	1	0.0	0.0	0.0	0.0	0.0
8	2	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0
8	4	100.0	100.0	100.0	100.0	100.0
8	5	0.0	0.0	0.0	0.0	0.0
8	6	0.0	0.0	0.0	0.0	0.0
8	7	0.0	0.0	0.0	0.0	0.0

DEFAULT_PURPOSE_SPLIT - (std)

*Vtype/submode	purpose	Period1	Period2	Period3	Period4	Period5
1	1	18.1	13.0	19.9	12.3	3.2
1	2	46.0	40.8	11.4	36.2	8.5
1	3	35.9	46.2	68.7	51.5	88.3
2	1	0.0	0.0	0.0	0.0	0.0
2	2	0.0	0.0	0.0	0.0	0.0
2	3	100.0	100.0	100.0	100.0	100.0
3	1	100.0	100.0	100.0	100.0	100.0
3	2	0.0	0.0	0.0	0.0	0.0
3	3	0.0	0.0	0.0	0.0	0.0
4	1	100.0	100.0	100.0	100.0	100.0
4	2	0.0	0.0	0.0	0.0	0.0
4	3	0.0	0.0	0.0	0.0	0.0
5	1	100.0	100.0	100.0	100.0	100.0
5	2	0.0	0.0	0.0	0.0	0.0
5	3	0.0	0.0	0.0	0.0	0.0
6	1	3.9	3.9	2.0	5.7	1.5
6	2	30.0	36.6	11.1	38.1	6.4
6	3	66.1	59.5	86.9	56.2	92.1
7	1	1.9	1.8	0.2	2.3	0.4
7	2	82.4	75.7	8.5	28.9	23.3

Road	2033	0	0	0	0	0	0	0	0	0
Road	2034	0	0	0	0	0	0	0	0	0
Road	2035	0	0	0	0	0	0	0	0	0
Road	2036	0	0	0	0	0	0	0	0	0
Road	2037	0	0	0	0	0	0	0	0	0
Road	2038	0	0	0	0	0	0	0	0	0
Road	2039	0	0	0	0	0	0	0	0	0
Road	2040	0	0	0	0	0	0	0	0	0
Road	2041	0	0	0	0	0	0	0	0	0
Road	2042	0	0	0	0	0	0	0	0	0
Road	2043	0	0	0	0	0	0	0	0	0
Road	2044	0	0	0	0	0	0	0	0	0
Road	2045	0	0	0	0	0	0	0	0	0
Road	2046	0	0	0	0	0	0	0	0	0
Road	2047	0	0	0	0	0	0	0	0	0
Road	2048	0	0	0	0	0	0	0	0	0
Road	2049	0	0	0	0	0	0	0	0	0
Road	2050	0	0	0	0	0	0	0	0	0
Road	2051	0	0	0	0	0	0	0	0	0
Road	2052	0	0	0	0	0	0	0	0	0
Road	2053	0	0	0	0	0	0	0	0	0
Road	2054	0	0	0	0	0	0	0	0	0
Road	2055	0	0	0	0	0	0	0	0	0
Road	2056	0	0	0	0	0	0	0	0	0
Road	2057	0	0	0	0	0	0	0	0	0
Road	2058	0	0	0	0	0	0	0	0	0
Road	2059	0	0	0	0	0	0	0	0	0
Road	2060	0	0	0	0	0	0	0	0	0
Road	2061	0	0	0	0	0	0	0	0	0
Road	2062	0	0	0	0	0	0	0	0	0
Road	2063	0	0	0	0	0	0	0	0	0
Road	2064	0	0	0	0	0	0	0	0	0
Road	2065	0	0	0	0	0	0	0	0	0
Road	2066	0	0	0	0	0	0	0	0	0
Road	2067	0	0	0	0	0	0	0	0	0
Road	2068	0	0	0	0	0	0	0	0	0
Road	2069	0	0	0	0	0	0	0	0	0
Road	2070	0	0	0	0	0	0	0	0	0
Road	2071	0	0	0	0	0	0	0	0	0
Road	2072	0	0	0	0	0	0	0	0	0
Road	2073	0	0	0	0	0	0	0	0	0
Road	2074	0	0	0	0	0	0	0	0	0
Road	2075	0	0	0	0	0	0	0	0	0
Road	2076	0	0	0	0	0	0	0	0	0
Road	2077	0	0	0	0	0	0	0	0	0
Road	2078	0	0	0	0	0	0	0	0	0

DS_SCHEME_COSTS

Do something scheme costs. Undiscounted £000s

Mode	Year	Prep.	Superv.	Constr.	Land	Maint.	Oper.	Grant/Sub.	Dev._Cont
Road	2014	2930	0	655	7394	0	0	0	0
Road	2015	409	0	4945	5289	0	0	0	0
Road	2016	417	783	12362	0	0	0	0	0
Road	2017	0	315	6881	0	0	0	0	0
Road	2018	0	117	3277	0	0	0	0	0
Road	2019	0	60	1668	0	85	0	0	0
Road	2020	0	0	0	0	87	0	0	0
Road	2021	0	0	0	0	88	0	0	0
Road	2022	0	0	0	0	90	0	0	0
Road	2023	0	0	0	0	92	0	0	0
Road	2024	0	0	0	0	94	0	0	0
Road	2025	0	0	0	0	96	0	0	0
Road	2026	0	0	0	0	98	0	0	0
Road	2027	0	0	0	0	100	0	0	0
Road	2028	0	0	0	0	102	0	0	0
Road	2029	0	0	0	0	106	0	0	0
Road	2030	0	0	0	0	108	0	0	0

Road	2031	0	0	0	0	110	0	0	0
Road	2032	0	0	0	0	113	0	0	0
Road	2033	0	0	0	0	115	0	0	0
Road	2034	0	0	0	0	117	0	0	0
Road	2035	0	0	0	0	120	0	0	0
Road	2036	0	0	0	0	122	0	0	0
Road	2037	0	0	0	0	125	0	0	0
Road	2038	0	0	0	0	128	0	0	0
Road	2039	0	0	0	0	130	0	0	0
Road	2040	0	0	0	0	133	0	0	0
Road	2041	0	0	0	0	137	0	0	0
Road	2042	0	0	0	0	140	0	0	0
Road	2043	0	0	0	0	143	0	0	0
Road	2044	0	0	0	0	146	0	0	0
Road	2045	0	0	0	0	149	0	0	0
Road	2046	0	0	0	0	152	0	0	0
Road	2047	0	0	0	0	155	0	0	0
Road	2048	0	0	0	0	159	0	0	0
Road	2049	0	0	0	0	162	0	0	0
Road	2050	0	0	0	0	167	0	0	0
Road	2051	0	0	0	0	170	0	0	0
Road	2052	0	0	0	0	174	0	0	0
Road	2053	0	0	0	0	177	0	0	0
Road	2054	0	0	0	0	181	0	0	0
Road	2055	0	0	0	0	185	0	0	0
Road	2056	0	0	0	0	189	0	0	0
Road	2057	0	0	0	0	194	0	0	0
Road	2058	0	0	0	0	198	0	0	0
Road	2059	0	0	0	0	202	0	0	0
Road	2060	0	0	0	0	207	0	0	0
Road	2061	0	0	0	0	211	0	0	0
Road	2062	0	0	0	0	215	0	0	0
Road	2063	0	0	0	0	220	0	0	0
Road	2064	0	0	0	0	226	0	0	0
Road	2065	0	0	0	0	231	0	0	0
Road	2066	0	0	0	0	235	0	0	0
Road	2067	0	0	0	0	240	0	0	0
Road	2068	0	0	0	0	246	0	0	0
Road	2069	0	0	0	0	251	0	0	0
Road	2070	0	0	0	0	257	0	0	0
Road	2071	0	0	0	0	263	0	0	0
Road	2072	0	0	0	0	268	0	0	0
Road	2073	0	0	0	0	274	0	0	0
Road	2074	0	0	0	0	280	0	0	0
Road	2075	0	0	0	0	287	0	0	0
Road	2076	0	0	0	0	293	0	0	0
Road	2077	0	0	0	0	299	0	0	0
Road	2078	0	0	0	0	305	0	0	0

PRESENT_VALUE_COSTS

Scheme investment and operating costs (i.e. excluding grant/subsidy, developer contributions and delays) and differences. £000s.

Mode	Year	DM_scheme_costs	DS_scheme_costs	Difference
Road	2014	0	9567	9567
Road	2015	0	8961	8961
Road	2016	0	11032	11032
Road	2017	0	5656	5656
Road	2018	0	2577	2577
Road	2019	0	1330	1330
Road	2020	0	62	62
Road	2021	0	60	60
Road	2022	0	60	60
Road	2023	0	59	59
Road	2024	0	58	58
Road	2025	0	57	57
Road	2026	0	57	57
Road	2027	0	56	56
Road	2028	0	55	55

Road	2029	0	55	55
Road	2030	0	54	54
Road	2031	0	53	53
Road	2032	0	53	53
Road	2033	0	52	52
Road	2034	0	51	51
Road	2035	0	51	51
Road	2036	0	50	50
Road	2037	0	49	49
Road	2038	0	49	49
Road	2039	0	48	48
Road	2040	0	48	48
Road	2041	0	47	47
Road	2042	0	46	46
Road	2043	0	46	46
Road	2044	0	46	46
Road	2045	0	45	45
Road	2046	0	45	45
Road	2047	0	44	44
Road	2048	0	44	44
Road	2049	0	44	44
Road	2050	0	44	44
Road	2051	0	43	43
Road	2052	0	43	43
Road	2053	0	42	42
Road	2054	0	42	42
Road	2055	0	42	42
Road	2056	0	41	41
Road	2057	0	41	41
Road	2058	0	41	41
Road	2059	0	40	40
Road	2060	0	40	40
Road	2061	0	40	40
Road	2062	0	39	39
Road	2063	0	39	39
Road	2064	0	39	39
Road	2065	0	39	39
Road	2066	0	38	38
Road	2067	0	38	38
Road	2068	0	38	38
Road	2069	0	37	37
Road	2070	0	37	37
Road	2071	0	37	37
Road	2072	0	37	37
Road	2073	0	36	36
Road	2074	0	36	36
Road	2075	0	36	36
Road	2076	0	35	35
Road	2077	0	35	35
Road	2078	0	35	35
Road	Total	0	41799	41799

TRIP_MATRIX_TOTALS

Annualised total trip numbers(thousands)

Submode	Year	Time period	DO MIN	DO SOM
Car	2019	AM peak	8348	8274
Car	2019	PM peak	9665	9607
Car	2019	Inter-peak	14161	14129
Car	2019	All	32174	32011
Car	2032	AM peak	9970	9876
Car	2032	PM peak	11846	11786
Car	2032	Inter-peak	18153	18057
Car	2032	All	39969	39719
LGV Freight	2019	AM peak	1412	1407
LGV Freight	2019	PM peak	980	971
LGV Freight	2019	Inter-peak	2632	2616
LGV Freight	2019	All	5024	4994

LGV Freight	2032	AM peak	1966	1947
LGV Freight	2032	PM peak	1310	1297
LGV Freight	2032	Inter-peak	3691	3693
LGV Freight	2032	All	6968	6937
OGV1	2019	AM peak	399	397
OGV1	2019	PM peak	224	223
OGV1	2019	Inter-peak	1159	1158
OGV1	2019	All	1782	1779
OGV1	2032	AM peak	405	403
OGV1	2032	PM peak	228	227
OGV1	2032	Inter-peak	1218	1219
OGV1	2032	All	1851	1849
All	2019	AM peak	10159	10078
All	2019	PM peak	10869	10801
All	2019	Inter-peak	17951	17904
All	2019	All	38979	38783
All	2032	AM peak	12341	12226
All	2032	PM peak	13384	13310
All	2032	Inter-peak	23062	22970
All	2032	All	48787	48506

DM&DS_USER_COSTS

Total value of user costs, DM and DS. £000s.

Mode	Year	DMtot_time	DMtot_charge	DMtot_fuel	DMtot_nonfuel	DStot_time	DStot_charge	DStot_fuel	DStot_nonfuel
Road	2019	24047	0	5951	4257	25708	0	6221	4349
Road	2032	36498	0	5777	3795	34489	0	5659	3744

FUEL_CONSUMPTION

Total fuel consumption, DM and DS. kilounits.

Submode	Year	Do minimum		Do something			
		Petrol	Diesel	Electric	Petrol	Diesel	Electric
Car	2019	2403	2280	69	2516	2365	70
Car	2032	2935	2642	596	2826	2571	589
LGV Freight	2019	71	759	0	76	808	0
LGV Freight	2032	97	1189	0	95	1174	0
OGV1	2019	0	1014	0	0	1061	0
OGV1	2032	0	1230	0	0	1258	0
All	2019	2474	4054	69	2591	4234	70
All	2032	3031	5061	596	2922	5003	589
Car	Total	169269	154046	31923	164252	150849	31548
LGV Freight	Total	5551	67851	0	5520	67388	0
OGV1	Total	0	72300	0	0	74093	0
All	Total	174820	294197	31923	169772	292330	31548

CO2_EMISSIONS_UNTRADED

Submode	Year	Emissions (tonnes)			cost (£000s, low)			cost (£000s, central)			cost (£000s, high)		
		DM	DS	Increase	DM	DS	Increase	DM	DS	Increase	DM	DS	Increase
Car	2019	10670	11114	444	238	248	10	477	497	20	715	745	30
Car	2032	12471	12075	-396	250	242	-8	500	485	-16	751	727	-24
LGV Freight	2019	2021	2151	130	45	48	3	90	96	6	136	144	9
LGV Freight	2032	3078	3040	-38	62	61	-1	124	122	-2	185	183	-2
OGV1	2019	2501	2617	116	56	58	3	112	117	5	168	175	8
OGV1	2032	2977	3044	67	60	61	1	119	122	3	179	183	4
All	2019	15192	15882	690	340	355	15	679	710	31	1019	1065	46
All	2020	15190	15763	573	333	346	13	666	691	25	999	1037	38
All	2021	15450	15925	475	333	343	10	665	686	20	998	1029	31
All	2022	15690	16072	382	332	340	8	663	680	16	995	1019	24
All	2023	15911	16204	294	330	336	6	661	673	12	991	1009	18
All	2024	16113	16322	209	328	333	4	657	665	9	985	998	13
All	2025	16298	16427	129	326	328	3	652	657	5	978	985	8
All	2026	16598	16650	53	326	327	1	651	653	2	977	980	3
All	2027	16885	16864	-21	325	324	-1	650	649	-1	974	973	-1
All	2028	17160	17067	-93	324	322	-2	647	644	-4	971	966	-5
All	2029	17423	17261	-162	322	319	-3	644	638	-6	967	958	-9
All	2030	17675	17445	-229	320	316	-4	641	633	-8	961	949	-12
All	2031	18103	17804	-299	347	341	-6	693	682	-11	1040	1022	-17
All	2032	18526	18159	-367	372	364	-7	744	729	-15	1115	1093	-22

All	2033	18451	18086	-365	386	378	-8	771	756	-15	1157	1134	-23
All	2034	18376	18013	-363	398	390	-8	796	781	-16	1194	1171	-24
All	2035	18302	17941	-361	409	401	-8	818	802	-16	1227	1203	-24
All	2036	18302	17941	-361	420	412	-8	841	824	-17	1261	1236	-25
All	2037	18302	17941	-361	430	422	-8	861	844	-17	1291	1265	-25
All	2038	18302	17941	-361	439	430	-9	878	861	-17	1317	1291	-26
All	2039	18302	17941	-361	447	438	-9	894	876	-18	1341	1314	-26
All	2040	18302	17941	-361	454	445	-9	907	889	-18	1361	1334	-27
All	2041	18302	17941	-361	459	450	-9	919	901	-18	1378	1351	-27
All	2042	18302	17941	-361	464	455	-9	928	910	-18	1393	1365	-27
All	2043	18302	17941	-361	468	459	-9	936	918	-18	1405	1377	-28
All	2044	18302	17941	-361	474	464	-9	947	929	-19	1421	1393	-28
All	2045	18302	17941	-361	478	469	-9	957	938	-19	1435	1407	-28
All	2046	18302	17941	-361	483	473	-10	965	946	-19	1448	1419	-29
All	2047	18302	17941	-361	486	476	-10	972	953	-19	1458	1429	-29
All	2048	18302	17941	-361	489	479	-10	978	958	-19	1467	1438	-29
All	2049	18302	17941	-361	491	481	-10	982	963	-19	1473	1444	-29
All	2050	18302	17941	-361	493	483	-10	986	966	-19	1478	1449	-29
All	2051	18302	17941	-361	490	481	-10	991	971	-20	1491	1462	-29
All	2052	18302	17941	-361	487	477	-10	994	974	-20	1501	1471	-30
All	2053	18302	17941	-361	483	473	-10	996	976	-20	1509	1479	-30
All	2054	18302	17941	-361	479	469	-9	997	977	-20	1515	1486	-30
All	2055	18302	17941	-361	473	464	-9	996	977	-20	1519	1489	-30
All	2056	18302	17941	-361	468	458	-9	995	975	-20	1522	1492	-30
All	2057	18302	17941	-361	461	452	-9	992	972	-20	1523	1493	-30
All	2058	18302	17941	-361	454	445	-9	988	968	-19	1521	1491	-30
All	2059	18302	17941	-361	447	438	-9	982	963	-19	1518	1488	-30
All	2060	18302	17941	-361	439	430	-9	976	957	-19	1513	1483	-30
All	2061	18302	17941	-361	429	421	-8	964	945	-19	1500	1470	-30
All	2062	18302	17941	-361	419	411	-8	953	934	-19	1486	1457	-29
All	2063	18302	17941	-361	409	401	-8	940	921	-19	1470	1441	-29
All	2064	18302	17941	-361	398	390	-8	925	907	-18	1453	1424	-29
All	2065	18302	17941	-361	387	379	-8	910	892	-18	1433	1405	-28
All	2066	18302	17941	-361	375	368	-7	894	876	-18	1413	1385	-28
All	2067	18302	17941	-361	364	357	-7	877	859	-17	1390	1362	-27
All	2068	18302	17941	-361	352	345	-7	859	842	-17	1366	1339	-27
All	2069	18302	17941	-361	340	334	-7	840	824	-17	1340	1314	-26
All	2070	18302	17941	-361	329	322	-6	821	805	-16	1314	1288	-26
All	2071	18302	17941	-361	317	311	-6	803	787	-16	1288	1263	-25
All	2072	18302	17941	-361	305	299	-6	783	768	-15	1261	1236	-25
All	2073	18302	17941	-361	294	288	-6	764	749	-15	1234	1209	-24
All	2074	18302	17941	-361	283	277	-6	744	729	-15	1205	1181	-24
All	2075	18302	17941	-361	272	266	-5	724	710	-14	1177	1153	-23
All	2076	18302	17941	-361	260	255	-5	703	689	-14	1146	1124	-23
All	2077	18302	17941	-361	249	244	-5	683	669	-13	1117	1095	-22
All	2078	18302	17941	-361	238	234	-5	662	649	-13	1086	1065	-21
Car	Total	723532	705413	-18119	15841	15440	-402	33929	33055	-875	52018	50670	-1347
LGV Freight	Total	175751	174566	-1185	3853	3826	-27	8265	8204	-61	12678	12582	-95
OGV1	Total	175031	179374	4343	3833	3927	95	8210	8412	202	12588	12897	308
All	Total	1074314	1059353	-14961	23527	23193	-334	50405	49671	-734	77283	76149	-1134

CO2_EMISSIONS_TRADED

Submode	Year	Emissions (tonnes)			cost (£000s, low)			cost (£000s, central)			cost (£000s, high)		
		DM	DS	Increase	DM	DS	Increase	DM	DS	Increase	DM	DS	Increase
Car	2019	21	21	0	0	0	0	0	0	0	0	0	0
Car	2032	64	63	-1	1	1	-0	3	3	-0	4	4	-0
LGV Freight	2019	0	0	0	0	0	0	0	0	0	0	0	0
LGV Freight	2032	0	0	0	0	0	0	0	0	0	0	0	0
OGV1	2019	0	0	0	0	0	0	0	0	0	0	0	0
OGV1	2032	0	0	0	0	0	0	0	0	0	0	0	0
All	2019	21	21	0	0	0	0	0	0	0	0	0	0
All	2020	25	25	0	0	0	0	0	0	0	1	1	0
All	2021	32	32	0	0	0	0	0	0	0	1	1	0
All	2022	39	39	0	0	0	0	0	0	0	1	1	0
All	2023	45	45	0	0	0	0	1	1	0	2	2	0
All	2024	50	50	-0	0	0	-0	1	1	-0	2	2	-0
All	2025	55	54	-0	1	1	-0	1	1	-0	2	2	-0

All	2026	63	63	-0	1	1	-0	2	2	-0	3	3	-0
All	2027	69	69	-0	1	1	-0	2	2	-0	3	3	-0
All	2028	74	73	-1	1	1	-0	2	2	-0	4	4	-0
All	2029	75	75	-1	1	1	-0	3	3	-0	4	4	-0
All	2030	74	73	-1	1	1	-0	3	3	-0	4	4	-0
All	2031	69	68	-1	1	1	-0	3	3	-0	4	4	-0
All	2032	64	63	-1	1	1	-0	3	3	-0	4	4	-0
All	2033	59	58	-1	1	1	-0	2	2	-0	4	4	-0
All	2034	54	53	-1	1	1	-0	2	2	-0	3	3	-0
All	2035	49	48	-1	1	1	-0	2	2	-0	3	3	-0
All	2036	45	44	-1	1	1	-0	2	2	-0	3	3	-0
All	2037	41	40	-1	1	1	-0	2	2	-0	3	3	-0
All	2038	37	37	-0	1	1	-0	2	2	-0	3	3	-0
All	2039	34	34	-0	1	1	-0	2	2	-0	2	2	-0
All	2040	31	31	-0	1	1	-0	2	2	-0	2	2	-0
All	2041	28	27	-0	1	1	-0	1	1	-0	2	2	-0
All	2042	27	27	-0	1	1	-0	1	1	-0	2	2	-0
All	2043	24	24	-0	1	1	-0	1	1	-0	2	2	-0
All	2044	21	21	-0	1	1	-0	1	1	-0	2	2	-0
All	2045	22	22	-0	1	1	-0	1	1	-0	2	2	-0
All	2046	20	20	-0	1	1	-0	1	1	-0	2	2	-0
All	2047	19	18	-0	0	0	-0	1	1	-0	1	1	-0
All	2048	22	22	-0	1	1	-0	1	1	-0	2	2	-0
All	2049	19	19	-0	1	0	-0	1	1	-0	2	2	-0
All	2050	19	19	-0	1	1	-0	1	1	-0	2	2	-0
All	2051	19	19	-0	1	0	-0	1	1	-0	2	2	-0
All	2052	19	19	-0	1	0	-0	1	1	-0	2	2	-0
All	2053	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2054	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2055	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2056	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2057	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2058	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2059	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2060	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2061	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2062	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2063	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2064	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2065	19	19	-0	0	0	-0	1	1	-0	2	2	-0
All	2066	19	19	-0	0	0	-0	1	1	-0	1	1	-0
All	2067	19	19	-0	0	0	-0	1	1	-0	1	1	-0
All	2068	19	19	-0	0	0	-0	1	1	-0	1	1	-0
All	2069	19	19	-0	0	0	-0	1	1	-0	1	1	-0
All	2070	19	19	-0	0	0	-0	1	1	-0	1	1	-0
All	2071	19	19	-0	0	0	-0	1	1	-0	1	1	-0
All	2072	19	19	-0	0	0	-0	1	1	-0	1	1	-0
All	2073	19	19	-0	0	0	-0	1	1	-0	1	1	-0
All	2074	19	19	-0	0	0	-0	1	1	-0	1	1	-0
All	2075	19	19	-0	0	0	-0	1	1	-0	1	1	-0
All	2076	19	19	-0	0	0	-0	1	1	-0	1	1	-0
All	2077	19	19	-0	0	0	-0	1	1	-0	1	1	-0
All	2078	19	19	-0	0	0	-0	1	1	-0	1	1	-0
Car	Total	1868	1851	-18	34	33	-0	74	73	-1	118	116	-1
LGV Freight	Total	0	0	0	0	0	0	0	0	0	0	0	0
OGV1	Total	0	0	0	0	0	0	0	0	0	0	0	0
All	Total	1868	1851	-18	34	33	-0	74	73	-1	118	116	-1

CO2_EMISSIONS_BY_TIME_PERIOD_UNTRADED

Submode	Year	Emissions (tonnes)			cost (£000s, low)			cost (£000s, central)			cost (£000s, high)		
		DM	DS	Increase	DM	DS	Increase	DM	DS	Increase	DM	DS	Increase
AM peak	2019	3665	3712	46	82	83	1	164	166	2	246	249	3
AM peak	2032	4169	4204	35	84	84	1	167	169	1	251	253	2
PM peak	2019	4403	4776	372	98	107	8	197	213	17	295	320	25
PM peak	2032	5919	5276	-643	119	106	-13	238	212	-26	356	318	-39
Inter-peak	2019	7124	7395	271	159	165	6	318	331	12	478	496	18
Inter-peak	2032	8439	8680	241	169	174	5	339	348	10	508	522	15

AM peak	Total	243312	245441	2129	5327	5373	47	11408	11507	99	17489	17641	152
PM peak	Total	339865	308325	-31539	7446	6749	-697	15960	14451	-1509	24475	22153	-2322
Inter-peak	Total	491137	505587	14449	10754	11070	316	23037	23712	676	35319	36355	1035

NOTE: The cost of any EU Allowances (EUAs) purchased to cover traded emissions (i.e. emissions from sectors covered by the EU Emissions Trading System) will be reflected in the purchase price of traded sector goods (such as electricity). Since the purchase price is used in the costs, considered in transport appraisal, the cost of the relevant EUAs will be included in the cost benefit analysis, "internalising" the costs of emissions from traded sectors.

The CO2 EMISSIONS BY TIME PERIOD TRADED reported in the table below are therefore provided for information purposes only - they are not included in the Economic Efficiency of the Transport System (TEE) table.

For further information, please refer to TAG Unit A-3 para. 4.1.5 and 4.2.9

CO2_EMISSIONS_BY_TIME_PERIOD_TRADED

Submode	Year	Emissions (tonnes)			cost (£000s, low)			cost (£000s, central)			cost (£000s, high)		
		DM	DS	Increase	DM	DS	Increase	DM	DS	Increase	DM	DS	Increase
AM peak	2019	5	5	-0	0	0	-0	0	0	-0	0	0	-0
AM peak	2032	15	15	-0	0	0	-0	1	1	-0	1	1	-0
PM peak	2019	6	6	0	0	0	0	0	0	0	0	0	0
PM peak	2032	19	19	-0	0	0	-0	1	1	-0	1	1	-0
Inter-peak	2019	9	9	-0	0	0	-0	0	0	-0	0	0	-0
Inter-peak	2032	30	30	-0	1	1	-0	1	1	-0	2	2	-0
AM peak	Total	450	444	-6	8	8	-0	18	17	-0	28	28	-0
PM peak	Total	555	549	-5	10	10	-0	22	22	-0	35	34	-0
Inter-peak	Total	864	857	-7	16	16	-0	34	34	-0	55	54	-0

MODE

User benefits and changes in revenues by mode, all years. £000s.

Mode	Year	User Time	User_Charges PT_fares_(pri)	Vehicle_Operating_Cost Fuel	Operator_Rev Non_fuel	Operator_Rev PT_fares_(pri)	Indirect Taxes
Road	2019	-1995	0	-310	-105	0	150
Road	2020	-1673	0	-265	-89	0	124
Road	2021	-1355	0	-223	-74	0	100
Road	2022	-1046	0	-185	-59	0	78
Road	2023	-747	0	-150	-46	0	58
Road	2024	-458	0	-117	-33	0	40
Road	2025	-178	0	-87	-21	0	23
Road	2026	94	0	-60	-10	0	8
Road	2027	358	0	-34	0	0	-6
Road	2028	614	0	-10	10	0	-19
Road	2029	864	0	12	19	0	-31
Road	2030	1106	0	32	27	0	-42
Road	2031	1340	0	52	35	0	-53
Road	2032	1567	0	71	42	0	-63
Road	2033	1544	0	70	41	0	-61
Road	2034	1521	0	68	39	0	-59
Road	2035	1499	0	66	38	0	-57
Road	2036	1477	0	64	37	0	-56
Road	2037	1457	0	62	36	0	-55
Road	2038	1438	0	61	34	0	-53
Road	2039	1418	0	59	33	0	-52
Road	2040	1400	0	57	32	0	-51
Road	2041	1383	0	56	31	0	-50
Road	2042	1366	0	54	30	0	-49
Road	2043	1349	0	53	29	0	-47
Road	2044	1339	0	51	28	0	-47
Road	2045	1329	0	50	27	0	-46
Road	2046	1319	0	49	26	0	-45
Road	2047	1308	0	48	26	0	-44
Road	2048	1297	0	47	25	0	-43
Road	2049	1286	0	46	24	0	-42
Road	2050	1276	0	45	24	0	-42
Road	2051	1265	0	44	23	0	-41
Road	2052	1254	0	43	22	0	-40
Road	2053	1243	0	42	22	0	-39
Road	2054	1232	0	41	21	0	-39
Road	2055	1221	0	40	20	0	-38
Road	2056	1210	0	39	20	0	-37
Road	2057	1199	0	38	19	0	-36

Road	2058	1189	0	37	19	0	-36
Road	2059	1179	0	36	18	0	-35
Road	2060	1170	0	35	17	0	-34
Road	2061	1161	0	34	17	0	-34
Road	2062	1152	0	34	16	0	-33
Road	2063	1143	0	33	16	0	-33
Road	2064	1135	0	32	16	0	-32
Road	2065	1126	0	31	15	0	-31
Road	2066	1117	0	31	15	0	-31
Road	2067	1109	0	30	14	0	-30
Road	2068	1100	0	29	14	0	-30
Road	2069	1091	0	29	13	0	-29
Road	2070	1083	0	28	13	0	-28
Road	2071	1074	0	27	13	0	-28
Road	2072	1066	0	27	12	0	-27
Road	2073	1057	0	26	12	0	-27
Road	2074	1049	0	26	12	0	-26
Road	2075	1040	0	25	11	0	-26
Road	2076	1032	0	24	11	0	-25
Road	2077	1024	0	24	11	0	-25
Road	2078	1015	0	23	10	0	-24
Road	Total	55230	0	640	695	0	-1427

SUBMODE

User benefits and changes in revenues by submode/vehicle type, modelled years and total. £000s.

Submode	Year	User	User_Charges	Vehicle_Operating_Cost	Operator_Rev	Indirect	
		Time	PT_fares_(pri	Fuel	Non_fuel	PT_fares_(pri	Taxes
Car	2019	-1088	0	-218	-37	0	100
Car	2032	1661	0	77	42	0	-67
LGV Freight	2019	-671	0	-58	-25	0	27
LGV Freight	2032	-41	0	0	6	0	-6
OGV1	2019	-235	0	-35	-43	0	23
OGV1	2032	-53	0	-5	-6	0	10
All	2019	-1995	0	-310	-105	0	150
All	2032	1567	0	71	42	0	-63
Car	Total	65300	0	1395	1122	0	-1896
LGV Freight	Total	-6211	0	-342	43	0	-57
OGV1	Total	-3858	0	-414	-469	0	526
All	Total	55230	0	640	695	0	-1427

PERSON_TYPES

User benefits and changes in revenues by person type, modelled years and total. £000s.

Person_type	Year	User	User_Charges	Vehicle_Operating_Cost	Operator_Rev	Indirect	
		Time	PT_fares_(pri	Fuel	Non_fuel	PT_fares_(pri	Taxes
All	2019	-1995	0	-310	-105	0	150
All	2032	1567	0	71	42	0	-63
All	Total	55230	0	640	695	0	-1427

PURPOSE

User benefits and changes in revenues by trip purpose, modelled years and total. £000s.

Purpose	Year	User	User_Charges	Vehicle_Operating_Cost	Operator_Rev	Indirect	
		Time	PT_fares_(pri	Fuel	Non_fuel	PT_fares_(pri	Taxes
HB NHB Emplo	2019	-1243	0	-101	-85	0	51
HB NHB Emplo	2032	453	0	3	19	0	-2
HB Work	2019	-661	0	-80	-5	0	32
HB Work	2032	1051	0	65	8	0	-45
HB Education	2019	-91	0	-7	0	0	3
HB Education	2032	63	0	3	3	0	-4
HB Other	2019	0	0	-59	-8	0	31
HB Other	2032	0	0	16	11	0	-16
NHB Other	2019	0	0	-63	-8	0	33
NHB Other	2032	0	0	-16	2	0	5
HB NHB Emplo	Total	11536	0	-521	85	0	241
HB Work	Total	41533	0	1814	241	0	-1474
HB Education	Total	2161	0	75	84	0	-131
HB Other	Total	0	0	203	283	0	-430
NHB Other	Total	0	0	-931	2	0	367

PERIOD

User benefits and changes in revenues by time period, modelled years and total. £000s.

Period	Year	User Time	User_Charges PT_fares_(pri)	Vehicle_Operating_Cost Fuel	Operator_Rev Non_fuel	Operator_Rev PT_fares_(pri)	Indirect Taxes
AM peak	2019	-313	0	-34	-5	0	10
AM peak	2032	-322	0	-33	-3	0	6
PM peak	2019	-1199	0	-163	-79	0	80
PM peak	2032	2214	0	179	47	0	-108
Inter-peak	2019	-482	0	-113	-21	0	60
Inter-peak	2032	-325	0	-74	-2	0	39
AM peak	Total	-16120	0	-1365	-118	0	263
PM peak	Total	88709	0	5265	993	0	-3493
Inter-peak	Total	-17358	0	-3260	-180	0	1803

NON MONETISED TIME BENEFITS BY TIME SAVING

Time benefits (thousands of person hrs) by size of time saving

Vehicle type	Purpose	Year	< -5 mins	-5 to -2 mins	-2 to 0 mins	0 to 2 mins	2 to 5 mins	> 5 mins
Car	HB NHB Employe	2019	-25	-9	-14	4	6	23
Car	HB NHB Employe	2032	-19	-12	-20	11	11	59
Car	HB NHB EmployeTotal		-1160	-691	-1169	598	627	3283
Car	HB Work	2019	-176	-55	-43	11	4	143
Car	HB Work	2032	-109	-87	-53	29	40	404
Car	HB Work	Total	-6999	-5016	-3091	1602	2151	22396
Car	HB Education	2019	-15	-7	-14	2	2	14
Car	HB Education	2032	-9	-8	-17	9	7	33
Car	HB Education	Total	-604	-471	-987	476	400	1867
Car	HB Other	2019	0	0	0	0	0	0
Car	HB Other	2032	0	0	0	0	0	0
Car	HB Other	Total	0	0	0	0	0	0
Car	NHB Other	2019	0	0	0	0	0	0
Car	NHB Other	2032	0	0	0	0	0	0
Car	NHB Other	Total	0	0	0	0	0	0
LGV Freight	HB NHB Employe	2019	-57	-14	-23	7	9	12
LGV Freight	HB NHB Employe	2032	-61	-28	-41	18	17	91
LGV Freight	HB NHB EmployeTotal		-3626	-1578	-2340	983	939	4903
LGV Freight	HB Work	2019	0	0	0	0	0	0
LGV Freight	HB Work	2032	0	0	0	0	0	0
LGV Freight	HB Work	Total	0	0	0	0	0	0
LGV Freight	HB Education	2019	0	0	0	0	0	0
LGV Freight	HB Education	2032	0	0	0	0	0	0
LGV Freight	HB Education	Total	0	0	0	0	0	0
LGV Freight	HB Other	2019	0	0	0	0	0	0
LGV Freight	HB Other	2032	0	0	0	0	0	0
LGV Freight	HB Other	Total	0	0	0	0	0	0
LGV Freight	NHB Other	2019	0	0	0	0	0	0
LGV Freight	NHB Other	2032	0	0	0	0	0	0
LGV Freight	NHB Other	Total	0	0	0	0	0	0
OGV1	HB NHB Employe	2019	-13	-3	-8	1	2	2
OGV1	HB NHB Employe	2032	-8	-7	-9	4	3	11
OGV1	HB NHB EmployeTotal		-491	-401	-543	230	165	619
OGV1	HB Work	2019	0	0	0	0	0	0
OGV1	HB Work	2032	0	0	0	0	0	0
OGV1	HB Work	Total	0	0	0	0	0	0
OGV1	HB Education	2019	0	0	0	0	0	0
OGV1	HB Education	2032	0	0	0	0	0	0
OGV1	HB Education	Total	0	0	0	0	0	0
OGV1	HB Other	2019	0	0	0	0	0	0
OGV1	HB Other	2032	0	0	0	0	0	0
OGV1	HB Other	Total	0	0	0	0	0	0
OGV1	NHB Other	2019	0	0	0	0	0	0
OGV1	NHB Other	2032	0	0	0	0	0	0
OGV1	NHB Other	Total	0	0	0	0	0	0

MONETISED TIME BENEFITS BY TIME SAVING

Time benefits (£000s) by size of time saving

Vehicle type	Purpose	Year	< -5 mins	-5 to -2 mins	-2 to 0 mins	0 to 2 mins	2 to 5 mins	> 5 mins
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Car	HB NHB Employe	2019	-534	-207	-309	89	133	492
Car	HB NHB Employe	2032	-337	-213	-363	194	199	1066
Car	HB NHB Employe	Total	-18232	-10642	-17899	9042	9568	49769
Car	HB Work	2019	-997	-310	-245	61	20	810
Car	HB Work	2032	-511	-411	-247	135	188	1897
Car	HB Work	Total	-28890	-19967	-12397	6304	8359	88124
Car	HB Education	2019	-73	-37	-70	11	10	68
Car	HB Education	2032	-40	-33	-70	36	30	139
Car	HB Education	Total	-2195	-1676	-3496	1644	1384	6500
Car	HB Other	2019	0	0	0	0	0	0
Car	HB Other	2032	0	0	0	0	0	0
Car	HB Other	Total	0	0	0	0	0	0
Car	NHB Other	2019	0	0	0	0	0	0
Car	NHB Other	2032	0	0	0	0	0	0
Car	NHB Other	Total	0	0	0	0	0	0
LGV Freight	HB NHB Employe	2019	-580	-140	-233	67	91	124
LGV Freight	HB NHB Employe	2032	-512	-235	-346	149	139	764
LGV Freight	HB NHB Employe	Total	-26195	-11196	-16647	6939	6677	34211
LGV Freight	HB Work	2019	0	0	0	0	0	0
LGV Freight	HB Work	2032	0	0	0	0	0	0
LGV Freight	HB Work	Total	0	0	0	0	0	0
LGV Freight	HB Education	2019	0	0	0	0	0	0
LGV Freight	HB Education	2032	0	0	0	0	0	0
LGV Freight	HB Education	Total	0	0	0	0	0	0
LGV Freight	HB Other	2019	0	0	0	0	0	0
LGV Freight	HB Other	2032	0	0	0	0	0	0
LGV Freight	HB Other	Total	0	0	0	0	0	0
LGV Freight	NHB Other	2019	0	0	0	0	0	0
LGV Freight	NHB Other	2032	0	0	0	0	0	0
LGV Freight	NHB Other	Total	0	0	0	0	0	0
OGV1	HB NHB Employe	2019	-158	-36	-98	17	18	22
OGV1	HB NHB Employe	2032	-74	-71	-91	41	29	113
OGV1	HB NHB Employe	Total	-4297	-3337	-4613	1910	1382	5097
OGV1	HB Work	2019	0	0	0	0	0	0
OGV1	HB Work	2032	0	0	0	0	0	0
OGV1	HB Work	Total	0	0	0	0	0	0
OGV1	HB Education	2019	0	0	0	0	0	0
OGV1	HB Education	2032	0	0	0	0	0	0
OGV1	HB Education	Total	0	0	0	0	0	0
OGV1	HB Other	2019	0	0	0	0	0	0
OGV1	HB Other	2032	0	0	0	0	0	0
OGV1	HB Other	Total	0	0	0	0	0	0
OGV1	NHB Other	2019	0	0	0	0	0	0
OGV1	NHB Other	2032	0	0	0	0	0	0
OGV1	NHB Other	Total	0	0	0	0	0	0

TOTAL BENEFITS BY TIME SAVING

Total benefits (£000s) by size of time saving			< -5 mins	-5 to -2 mins	-2 to 0 mins	0 to 2 mins	2 to 5 mins	> 5 mins
Vehicle type	Purpose	Year						
Car	HB NHB Employe	2019	-572	-224	-335	97	146	527
Car	HB NHB Employe	2032	-355	-228	-386	206	212	1124
Car	HB NHB Employe	Total	-19032	-11246	-18791	9483	10065	51873
Car	HB Work	2019	-1105	-335	-272	62	25	880
Car	HB Work	2032	-544	-433	-266	148	201	2019
Car	HB Work	Total	-30670	-20921	-13195	6747	8836	92791
Car	HB Education	2019	-79	-39	-75	11	11	73
Car	HB Education	2032	-41	-34	-73	39	32	147
Car	HB Education	Total	-2296	-1730	-3640	1739	1461	6788
Car	HB Other	2019	-64	-22	-28	-3	12	39
Car	HB Other	2032	-31	-18	-27	23	15	66
Car	HB Other	Total	-1471	-773	-1121	744	601	2507
Car	NHB Other	2019	-59	-22	-21	2	4	24
Car	NHB Other	2032	-39	-12	-16	12	6	35
Car	NHB Other	Total	-1701	-534	-687	409	232	1352
LGV Freight	HB NHB Employe	2019	-656	-158	-262	79	103	140
LGV Freight	HB NHB Employe	2032	-561	-261	-374	168	155	838
LGV Freight	HB NHB Employe	Total	-28316	-12173	-17804	7657	7294	36831

OGV1	HB Education	2019	0	0	0	0	0	0	0	0	0
OGV1	HB Education	2032	0	0	0	0	0	0	0	0	0
OGV1	HB Education	Total	0	0	0	0	0	0	0	0	0
OGV1	HB Other	2019	0	0	0	0	0	0	0	0	0
OGV1	HB Other	2032	0	0	0	0	0	0	0	0	0
OGV1	HB Other	Total	0	0	0	0	0	0	0	0	0
OGV1	NHB Other	2019	0	0	0	0	0	0	0	0	0
OGV1	NHB Other	2032	0	0	0	0	0	0	0	0	0
OGV1	NHB Other	Total	0	0	0	0	0	0	0	0	0

MONETISED TIME BENEFITS BY DISTANCE

Time benefits (£000s) by distance

Vehicle type	Purpose	Year	< 1 kms	1 to 5 kms	5 to 10 kms	10 to 15 kms	15 to 20 kms	20 to 50 kms	50 to 100 kms	>100 kms
Car	HB NHB Employe	2019	199	-530	-6	0	0	0	0	0
Car	HB NHB Employe	2032	201	341	4	0	0	0	0	0
Car	HB NHB Employe	Total	10096	11372	138	0	0	0	0	0
Car	HB Work	2019	-5	-653	-3	0	0	0	0	0
Car	HB Work	2032	27	1010	14	0	0	0	0	0
Car	HB Work	Total	1134	39801	598	0	0	0	0	0
Car	HB Education	2019	-2	-88	-0	0	0	0	0	0
Car	HB Education	2032	4	60	-0	0	0	0	0	0
Car	HB Education	Total	143	2036	-18	0	0	0	0	0
Car	HB Other	2019	0	0	0	0	0	0	0	0
Car	HB Other	2032	0	0	0	0	0	0	0	0
Car	HB Other	Total	0	0	0	0	0	0	0	0
Car	NHB Other	2019	0	0	0	0	0	0	0	0
Car	NHB Other	2032	0	0	0	0	0	0	0	0
Car	NHB Other	Total	0	0	0	0	0	0	0	0
LGV Freight	HB NHB Employe	2019	-15	-656	-1	0	0	0	0	0
LGV Freight	HB NHB Employe	2032	22	-64	1	0	0	0	0	0
LGV Freight	HB NHB Employe	Total	845	-7115	58	0	0	0	0	0
LGV Freight	HB Work	2019	0	0	0	0	0	0	0	0
LGV Freight	HB Work	2032	0	0	0	0	0	0	0	0
LGV Freight	HB Work	Total	0	0	0	0	0	0	0	0
LGV Freight	HB Education	2019	0	0	0	0	0	0	0	0
LGV Freight	HB Education	2032	0	0	0	0	0	0	0	0
LGV Freight	HB Education	Total	0	0	0	0	0	0	0	0
LGV Freight	HB Other	2019	0	0	0	0	0	0	0	0
LGV Freight	HB Other	2032	0	0	0	0	0	0	0	0
LGV Freight	HB Other	Total	0	0	0	0	0	0	0	0
LGV Freight	NHB Other	2019	0	0	0	0	0	0	0	0
LGV Freight	NHB Other	2032	0	0	0	0	0	0	0	0
LGV Freight	NHB Other	Total	0	0	0	0	0	0	0	0
OGV1	HB NHB Employe	2019	-1	-234	-0	0	0	0	0	0
OGV1	HB NHB Employe	2032	2	-55	0	0	0	0	0	0
OGV1	HB NHB Employe	Total	62	-3932	12	0	0	0	0	0
OGV1	HB Work	2019	0	0	0	0	0	0	0	0
OGV1	HB Work	2032	0	0	0	0	0	0	0	0
OGV1	HB Work	Total	0	0	0	0	0	0	0	0
OGV1	HB Education	2019	0	0	0	0	0	0	0	0
OGV1	HB Education	2032	0	0	0	0	0	0	0	0
OGV1	HB Education	Total	0	0	0	0	0	0	0	0
OGV1	HB Other	2019	0	0	0	0	0	0	0	0
OGV1	HB Other	2032	0	0	0	0	0	0	0	0
OGV1	HB Other	Total	0	0	0	0	0	0	0	0
OGV1	NHB Other	2019	0	0	0	0	0	0	0	0
OGV1	NHB Other	2032	0	0	0	0	0	0	0	0
OGV1	NHB Other	Total	0	0	0	0	0	0	0	0

TOTAL BENEFITS BY DISTANCE

Total benefits (£000s) by distance

Vehicle type	Purpose	Year	< 1 kms	1 to 5 kms	5 to 10 kms	10 to 15 kms	15 to 20 kms	20 to 50 kms	50 to 100 kms	>100 kms
Car	HB NHB Employe	2019	212	-568	-6	0	0	0	0	0
Car	HB NHB Employe	2032	212	357	4	0	0	0	0	0
Car	HB NHB Employe	Total	10519	11684	150	0	0	0	0	0
Car	HB Work	2019	-5	-729	-11	0	0	0	0	0
Car	HB Work	2032	29	1086	11	0	0	0	0	0

Car	HB Work	Total	1197	41940	451	0	0	0	0	0
Car	HB Education	2019	-3	-94	-2	0	0	0	0	0
Car	HB Education	2032	4	66	-1	0	0	0	0	0
Car	HB Education	Total	147	2209	-36	0	0	0	0	0
Car	HB Other	2019	-1	-58	-8	0	0	0	0	0
Car	HB Other	2032	0	24	1	0	0	0	0	0
Car	HB Other	Total	7	484	-5	0	0	0	0	0
Car	NHB Other	2019	-12	-54	-5	0	0	0	0	0
Car	NHB Other	2032	-2	-12	-0	0	0	0	0	0
Car	NHB Other	Total	-154	-737	-39	0	0	0	0	0
LGV Freight	HB NHB Employe	2019	-18	-735	-1	0	0	0	0	0
LGV Freight	HB NHB Employe	2032	22	-59	2	0	0	0	0	0
LGV Freight	HB NHB Employe	Total	851	-7436	75	0	0	0	0	0
LGV Freight	HB Work	2019	0	0	0	0	0	0	0	0
LGV Freight	HB Work	2032	0	0	0	0	0	0	0	0
LGV Freight	HB Work	Total	0	0	0	0	0	0	0	0
LGV Freight	HB Education	2019	0	0	0	0	0	0	0	0
LGV Freight	HB Education	2032	0	0	0	0	0	0	0	0
LGV Freight	HB Education	Total	0	0	0	0	0	0	0	0
LGV Freight	HB Other	2019	0	0	0	0	0	0	0	0
LGV Freight	HB Other	2032	0	0	0	0	0	0	0	0
LGV Freight	HB Other	Total	0	0	0	0	0	0	0	0
LGV Freight	NHB Other	2019	0	0	0	0	0	0	0	0
LGV Freight	NHB Other	2032	0	0	0	0	0	0	0	0
LGV Freight	NHB Other	Total	0	0	0	0	0	0	0	0
OGV1	HB NHB Employe	2019	-2	-311	-0	0	0	0	0	0
OGV1	HB NHB Employe	2032	2	-67	1	0	0	0	0	0
OGV1	HB NHB Employe	Total	73	-4843	29	0	0	0	0	0
OGV1	HB Work	2019	0	0	0	0	0	0	0	0
OGV1	HB Work	2032	0	0	0	0	0	0	0	0
OGV1	HB Work	Total	0	0	0	0	0	0	0	0
OGV1	HB Education	2019	0	0	0	0	0	0	0	0
OGV1	HB Education	2032	0	0	0	0	0	0	0	0
OGV1	HB Education	Total	0	0	0	0	0	0	0	0
OGV1	HB Other	2019	0	0	0	0	0	0	0	0
OGV1	HB Other	2032	0	0	0	0	0	0	0	0
OGV1	HB Other	Total	0	0	0	0	0	0	0	0
OGV1	NHB Other	2019	0	0	0	0	0	0	0	0
OGV1	NHB Other	2032	0	0	0	0	0	0	0	0
OGV1	NHB Other	Total	0	0	0	0	0	0	0	0

SENSITIVITY

Total user benefits as a percentage of total DM user costs

Modelled Years		
Mode	2019	2032
Road	-7.04%	3.65%

Economy: Economic Efficiency of the Transport System(TEE)

Consumer - Commuting user benefits		All Modes	Road							
Travel Time		41533	41533							
Vehicle operating costs		2055	2055							
User charges		0	0							
During Construction & Maintenance		0	0							
NET CONSUMER - COMMUTING BENEFITS		43588	43588							
Consumer - Other user benefits		All Modes	Road							
Travel Time		2161	2161							
Vehicle operating costs		-285	-285							
User charges		0	0							
During Construction & Maintenance		0	0							
NET CONSUMER - OTHER BENEFITS		1877	1877							
Business		All Modes	Road	Personal	Road	Freight	Bus	Personal	Bus	Freight
Travel Time		11536		21606		-10070				
Vehicle operating costs		-436		746		-1182				
User charges		0		0		0				

During Construction & Maintenance	0	0	0
Subtotal	11100	22352	-11252
Private Sector Provider Impacts			
Revenue	0		0
Operating costs	0		0
Investment costs	0		0
Grant/subsidy	0		0
Subtotal	0		0
Other business Impacts			
Developer contributions	0		0
NET BUSINESS IMPACT	11100		
TOTAL			
Present Value of Transport Economic Efficiency Benefits (TEE)	56565		

Note: Benefits appear as positive numbers, while costs appear as negative numbers.
Note: All entries are present values discounted to 2010, in 2010 prices

Public Accounts			
Local Government Funding	ALL MODES	Road	
Revenue	0		0
Operating Costs	2738		2738
Investment Costs	25087		25087
Developer Contributions	0		0
Grant/Subsidy Payments	0		0
NET IMPACT	27825		27825
Central Government Funding: Transport	ALL MODES	Road	
Revenue	0		0
Operating costs	0		0
Investment costs	13975		13975
Developer Contributions	0		0
Grant/Subsidy Payments	0		0
NET IMPACT	13975		13975
Central Government Funding: Non-Transport			
Indirect Tax Revenues	1427		1427
TOTALS			
Broad Transport Budget	41799		41799
Wider Public Finances	1427		1427

Note: Costs appear as positive numbers, while revenues and developer contributions appear as negative numbers.
Note: All entries are present values discounted to 2010, in 2010 prices

Analysis of Monetised Costs and Benefits

Greenhouse Gases		734
Economic Efficiency: Consumer Users (Commuting)		43588
Economic Efficiency: Consumer Users (Other)		1877
Economic Efficiency: Business Users and Providers		11100
Wider Public Finances (Indirect Taxation Revenues)		-1427
Present Value of Benefits (PVB)		55872
Broad Transport Budget		41799
Present Value of Costs (PVC)		41799
OVERALL IMPACTS		
Net Present Value (NPV)		14073
Benefit to Cost Ratio (BCR)		1.337

Note: This table includes costs and benefits which are regularly or occasionally presented in monetised form in

transport appraisals, together with some where monetisation is in prospect. There may also be other significant costs and benefits, some of which cannot be presented in monetised form. Where this is the case, the analysis presented above does NOT provide a good measure of value for money and should not be used as the sole basis for decisions.

TUBA Run Information
- calculations completed

File Summary

- Scheme File : C:\HCCTP\TUBA_Runs\HCCTP_FullScheme_withoutDependentHousing_ObservedAnnualisation.txt
- Economic File : C:\HCCTP\TUBA_Runs\economics_1_9_5_HCCTP.txt
- Output File : C:\HCCTP\TUBA_Runs\HCCTP_FullScheme_withoutDependentHousing_ObservedAnnualisation.OUT

Elapsed time :