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EXECUTIVE SUMMARY

Campbell Reith Hill LLP (CampbellReith) has been instructed on behalf of Medway Council to prepare a Transport Assessment in support of the preparation of a masterplan for Innovation Park Medway at Rochester Airport.

The Innovation Park Medway Masterplan allows for the erection of up to 101,000m² of Business and General Industrial floor space (comprising science park, innovation uses incorporating manufacturing and engineering) with associated means of access, distributor and service roads, parking facilities, footpaths and cycle ways, and landscaping.

The trip generation of the proposed masterplan has been assessed and the associated vehicular traffic assigned to the local road network using an agreed traffic distribution based on journey to work Census data. This allows for the capacity of the local road junctions to be assessed through junction modelling.

The proposed development will generate in the region of 1,680 two-way people trips in the AM peak hour and 1,159 two-way people trips in the PM peak hour. Of these total trips it is anticipated that 1,092 will be vehicle trips in the AM peak hour and 753 will be vehicle trips in the PM peak hour.

The site can also be accessed by means other than the private car. The masterplan provides a means of access for bus services which will provide good connectivity between the site and the town centre and surrounding areas. The bus services also allow for onward journeys by train from Rochester and Chatham stations where there are direct train services to key destinations including London Victoria, London St Pancras International, Dover, Ramsgate, Faversham and Luton.

Pedestrians and cyclists are catered for currently by a reasonable network of footways and cycle facilities. The Innovation Park aims to improve accessibility by non-car modes of travel to provide better access to and from the site by cyclists and for pedestrians to walk to and from the site and local facilities.

1.0 INTRODUCTION

- 1.1. Campbell Reith Hill LLP (CampbellReith) has been instructed on behalf of Medway Council to prepare a Transport Assessment in support of the masterplan for Innovation Park Medway for a high quality innovation park, with flexible plots to encourage a wide range of high-value.
- 1.2. The Innovation Park Medway Masterplan allows for the erection of up to 101,000m² of Business and General Industrial floor space (science park and innovation uses) with associated means of access, distributor and service roads, parking facilities, footpaths and cycle ways, and landscaping.
- 1.3. Innovation Park Medway will be situated on land at Rochester Airport. The airport is owned by Medway Council and is currently leased to Rochester Airport Ltd. The site sits within the local authority boundaries of both Medway Council and Tonbridge & Malling Borough Council.
- 1.4. The Rochester Airport Masterplan SPD was adopted by Medway Council in January 2014. The SPD established the vision for the airport and key development principles. A masterplan have been developed that is adaptive, allowing for a wide range of buildings and spaces that can be delivered when there is demand.
- 1.5. The Transport Assessment is sub-divided into nine chapters; the chapters being:
 - Chapter 1: Introduction;
 - Chapter 2: Sets out the approach to the Transport Assessment;
 - Chapter 3: Identifies the relevant planning policies;
 - Chapter 4: Provides a description of the location and current use of the site;
 - Chapter 5: Sets out the development proposals;
 - Chapter 6: Sets out the trip generation and distribution;
 - Chapter 7: Presents the impact of the development on the transport network;
 - Chapter 8: Provides details on sustainability; and
 - Chapter 9: Conclusions.

2.0 APPROACH TO THE TRANSPORT ASSESSMENT

- 2.1. Transport assessments are required to consider the development in relation to all transport modes and its ability to reduce the reliance on the private car and offer a choice in transport. This Transport Assessment has been written with reference to current Planning Practice Guidance. In preparing the Transport Assessment the following considerations are considered relevant:
 - Reducing the need to travel, especially by car;
 - The accessibility of the location;
 - Environmental impact of travel;
 - Measures that may assist in influencing travel behaviour; and
 - Managing access to the highway network
- 2.2. With these considerations in mind the Transport Assessment has considered each of the key modes of transport that will be used by people travelling to and from the development. The key elements of the approach to the assessment of each mode are briefly described below.

Walking and Cycling

2.3. A qualitative assessment has been undertaken of the walking and cycling facilities available and the impact, if any, the development proposal will have on these facilities.

Public Transport

2.4. The accessibility to and the availability of public transport to site users of the new development has also been reviewed. This assessment has been used to identify any deficiencies in the public transport provision, and any benefits the development can bring in terms of improved quality and enhanced viability of local public transport.

Vehicular Impact

- 2.5. An initial assessment of the local road network has been carried out concentrating on the impact at the following local road junctions:
 - Laker Road / Rochester Road B2097
 - Lankester Parker Road / Rochester Road B2097
 - Innovation Centre access / Maidstone Road A229
 - Maidstone Road A229 / Shirley Road / retail park roundabout

3.0 RELEVANT PLANNING POLICIES

National Policy and Guidance

3.1. The 'National Planning Policy Framework' was first published in March 2012 and updated in July 2018. This is the current planning guidance document for England. This aims to encourage a more sustainable approach to transport that reduces the negative environmental impacts associated with the private car remains. It aims to balance the transport system in favour of sustainable transport modes and give people a choice about how they travel.

Local Planning Documents

- 3.2. The Local Plan for Medway currently covers Development Plan policies from a number of plans including the Medway Local Plan 2003. This sets out a vision for future development in Medway to ensure that the needs of the area are met through a number of policies and proposals. Medway Council are currently working on the new Local Plan, Future Medway, which will replace the 2003 Medway Local Plan and cover the period up to 2035. Subject to outcomes of the independent examination by a planning inspector, Medway's new Local Plan will be adopted in 2020 with the publication of the draft plan expected in Winter 2018/2019.
- 3.3. Tonbridge & Malling Borough Council have a suite of Development Plan Documents including Core Strategy, Development Land Allocations DPD and Managing Development and the Environment DPD along with saved policies from the Tonbridge and Malling Borough Local Plan. The Council will be producing a new Local Plan. This new Plan will have a time horizon up to 2031 and, once adopted, will form part of the Council's Development Plan and will replace the current suite of adopted local plans.

Planning Approach

3.4. The preferred approach for delivering Innovation Park Medway through the planning system is to use a Local Development Order (LDO). This is a planning mechanism that was introduced by the Planning and Compulsory Purchase Act 2004 which allows Local Planning Authorities to extend permitted development rights for certain specified forms of development. If this approach is taken forward both Medway Council and Tonbridge & Malling Borough Council will be adopting their own separate LDOs for the parts of Innovation Park Medway that lie within their respective authorities.

4.0 THE SITE AND EXISTING CONDITIONS

Site Location

- 4.1. The site is split into two separate areas, to the north and south of the existing airfield site.
- 4.2. The Northern Area consists of two parcels. The main parcel to the west comprises the airfield occupied by part of runway 16/34. The second parcel is currently occupied by BAE Systems and is used as a car parking area.
- 4.3. To the north of the Northern Area, the site is bounded by buildings occupied by BAE Systems. Rochester Airport Industrial Estate is located to the northwest and Laker Road Industrial Estate lies to the west. To the east is the retained Rochester Airport site.
- 4.4. The Southern Area also consists of two parcels. The eastern parcel is currently partly used as parking for the Innovation Centre. The western parcel is the site of Woolmans Wood Caravan Park with space for approximately 100-125 caravans.
- 4.5. To the north of the Southern Area is the existing Innovation Centre. The site is bounded by the B2097 to the west and the A229 to the east. The retained Rochester Airport site lies to the northwest and, to the south, the site is bounded by existing residential development.

Local Road Network

- 4.6. Rochester Airport is located between the A229 to the east and the B2097 to the west. These roads meet to the south at the Bridgewood roundabout interchange. The A229 continues over the roundabout to the south via a grade-separated flyover with the signalised roundabout giving access to the B2097 and the A2045 Walderslade Woods which runs to the south and east of the junction.
- 4.7. To the south of the Bridgewood roundabout is another grade-separated junction which connects the A229 to the link road leading east to the M2 motorway. The M2 grade-separated interchange also gives access to the A2045 to the east meaning that there is an element of route-choice available for drivers travelling between the A229, M2 and A2045.
- 4.8. From the Bridgewood junction, the A229 Maidstone Road continues north and meets the Horsted Gyratory where the A229 City Way continues north to Rochester town centre and the A230 Maidstone Road continues northeast to Chatham town centre.
- 4.9. To the west of the airport site, the B2097 Rochester Road gives access to Laker Road and Lankester Parker Road which serve the industrial estates. The B2097 Rochester Road becomes the B2097 Maidstone Road as it approaches Rochester town centre, further to the north.
- 4.10. The location of the site is shown in Figure 1.

Public Transport

4.11. The area is served by a number of bus routes, primarily Service 101 which runs via the A229 to Maidstone in one direction and Chatham and Gillingham in the other direction. On the western side of the site, Service 142 operates via Warren Wood between Blue Bell village and Rochester and Chatham. The frequency of bus services on these routes are summarised in Table 4.1 below. The timetables are appended to this report at Appendix 1.

Table 4.1: Local bus services

Camiaa		Service Interval							
Service Number	Route	Route Monday - Friday		Satu	rday	Sun	-		
Hamber		Daytime	Evening	Daytime	Evening	Daytime	Evening		
101	Maidstone – Chatham – Gillingham	12 minutes	30 minutes	12 minutes	30 minutes	20 minutes	2 per hour		
142	Chatham – Rochester – Blue Bell Hill	60 minutes	-	120 minutes	-	-	-		

4.12. The nearest railway stations are Rochester and Chatham, both approximately 4km to the north of the site. There are direct services from these stations to key destinations including London Victoria, London St Pancras International, Dover, Ramsgate, Faversham and Luton.

Pedestrian and Cycle Facilities

- 4.13. The majority of the existing pedestrian and cycle facilities are found to the east of the airport with limited facilities in the vicinity of the B2097. There are no footways on a section of the B2097 to the south of Laker Road. Existing pedestrian facilities include a signalised crossing on the A229 providing access to the Davis Estate area and southbound bus stops on Maidstone Road. There is a cycle route along the A229 consisting of both on-street and off-street paths. This route connects the Walderslade area with Rochester town centre.
- 4.14. The areas that can be reached by walking and cycling 5, 10 and 15 minutes from the Northern Area are shown in Figures 2 and 3 respectively.

Historical Accident Data

- 4.15. Accident data for the five year period up to September 2017 has been reviewed for the area in the immediate vicinity of the site. There have been a number of 'slight' incidents, primarily located at junctions. There have been three 'serious' incidents on the A229 Maidstone Road section of road between Bridgewood roundabout and Shirley Avenue roundabout. The first incident occurred at the Bridgewood roundabout in May 2014 involving a car and motorcycle. The second incident occurred in icy conditions in December 2014 on the A229 slip road involving a motorcycle. The third incident occurred in July 2017 involving a car and pedestrian crossing at the signalised pedestrian crossing adjacent to Watson Avenue.
- 4.16. A summary of these accidents can be found at Appendix 2.

5.0 DEVELOPMENT PROPOSALS

- 5.1. The Innovation Park Medway Masterplan allows for the erection of up to 101,000m² of Business and General Industrial floor space (science park and innovation uses) with associated means of access, distributor and service roads, parking facilities, footpaths and cycle ways, and landscaping.
- 5.2. A number of new access points are proposed to connect the site to existing infrastructure. For the Northern Area, three points of access are proposed from Laker Road with the central access point planned to be a bus access and the northern and southern internal roads being used by all traffic to access the parking areas.
- 5.3. The Southern Area will be accessed by vehicles from the A229 via the Innovation Centre access. There is the potential for a future pedestrian / cycle link along the western boundary of the airport to connect the Northern and Southern Areas.
- 5.4. The 'Runway Park' green spine will form the core of the landscaping strategy for the Innovation Park and will provide a key route for pedestrians through the Northern Area.
- 5.5. Car parking for the development it to be provided in accordance with Medway Council's parking standards. It is noted that these parking standards are maximum and there may be potential to reduce the overall number of parking spaces for the Innovation Park based on a review of the anticipated parking accumulation.
- 5.6. Minimum requirements will be met for accessible spaces, cycle parking, delivery spaces and electric vehicle charging provision. Motorcycle parking will also be provided.
- 5.7. The development is expected to be delivered in phases with Phase 1 anticipated to comprise the north-western section of the Northern Area and the eastern section of the Southern Area, giving around 28,200m² GFA.
- 5.8. There is a long-term aspiration for a new link connecting the Northern Area to the existing road network in the vicinity of Horsted Gyratory in order to allow improved connections for pedestrians, cyclists and buses. This will improve accessibility between the site and areas to the north and east.

6.0 TRIP GENERATION AND DISTRIBUTION

Trip Generation

- 6.1. A series of technical notes have been written and circulated which review the trip generation currently allocated for the Rochester Airport site in Medway Council's traffic modelling assessment and compares this with the trip rates and traffic generation associated with an Innovation Park development using current trip rates from the TRICS database. The Technical Notes are appended to this report at Appendix 3.
- 6.2. A modified set of vehicle trip rates has been calculated by applying a mode share obtained by reviewing the journey to work data for the local workplace population to the total people trips rates in the TRICS database. This is considered to be representative for Innovation Park Medway.
- 6.3. The floor area has been calculated that would generate the equivalent amount of vehicle traffic as that expected for the B1/B2 employment site allocations in the Medway strategic traffic modelling. Technical Note 2 concludes that an Innovation Park of around 101,000m² will generate less traffic in each of the peak hours than the four employment allocation sites combined based on the trip rates presented in this note.
- 6.4. Taking the floor areas from the illustrative masterplan, Table 6.1 summarises the total people trip rates and number of predicted person trips from an Innovation Park development of 100,648m².

Table 6.1: Innovation Park total people rates (per 100m²) and peak hour person trips

	Trip Rate In	Trip Rate Out	Trip Rate Total	Predicted Trips In	Predicted Trips Out	Predicted Total Trips
AM Peak Hour	1.414	0.249	1.663	1,428	251	1,680
PM Peak Hour	0.118	1.030	1.148	119	1,040	1,159

- 6.5. The table above shows that it is anticipated the Innovation Park will generate in the region of 1,680 two-way person trips in the AM peak hour and 1,159 two-way person trips in the PM peak hour.
- 6.6. Table 6.2 summarises the vehicle trip rates and number of predicted vehicle trips from an Innovation Park development of 100,648m².

Table 6.2: Innovation Park vehicle trip rates (per 100m²) and peak hour vehicle trips

	Trip Rate In	Trip Rate Out	Trip Rate Total	Predicted Trips In	Predicted Trips Out	Predicted Total Trips
AM Peak Hour	0.919	0.162	1.081	928	164	1,092
PM Peak Hour	0.077	0.670	0.746	77	676	753

6.7. The table above shows that it is anticipated the Innovation Park will generate in the region of 1,092 two-way vehicle trips in the AM peak hour and 753 two-way vehicle trips in the PM peak hour.

Trip Distribution

6.8. The journey to work data to employment in the local area has been used to distribute the proposed development traffic onto the local road network by assigning trips via the following key routes in the proportions shown:

•	A229 N (from Rochester / Chatham)	5%
•	A230 N (from Chatham / Gillingham)	27%
•	A2045 (from Walderslade)	9%
•	M2 E (from east Kent)	16%
•	A229 S (from Maidstone / M20)	18%
•	M2 N (from Gravesend / A2)	8%
•	B2097 N (from Rochester)	17%

6.9. The comprehensive existing highway network will result in the proposed development traffic dispersing relatively quickly on the network. Figures 6 and 7 show the proposed development distribution for the Northern Area and Southern Area respectively. Figures 8 and 9 show the proposed development trips assigned to the road network in the AM and PM peak hours respectively based on the proposed distribution based on a total floor area of 84,048m² for the Northern Area and 16,600m² for the Southern Area.

Traffic Growth and Assessment Years

6.10. The impacts of the development on the local junctions will be assessed for the period of five years from the current base year. The junctions will therefore be assessed for 2018 and 2023. A growth factor has been applied to the base year in order to forecast the increase in background traffic by 2023. The growth factor has been obtained by using the TEMPRO/NTM database. The growth factors for the Medway area for 2018-2023 are 1.076 in both the AM peak period and PM peak period.

Impact on Local Road Junctions

6.11. The impact of the proposed development traffic on the local road junctions will be dependent, in part, on the proposed phasing and access arrangements. In Phase 1, the Northern Area will have the greatest impact on the Lankester Parker Road junction with Rochester Road due to the parcels expected to form Phase 1 being located at the northern end of the Northern Area. Traffic arriving and departing to and from the south is likely to make use of the Laker Road junction as an alternative to Lankester Parker Road. The quantum of traffic using Laker Road will increase as development of the Northern Area continues in future phases.

- 6.12. It is expected that junction capacity improvements will be required at both the Lankester Parker Road and Laker Road junctions with Rochester Road. The precise timescales for implementing junction improvements will be based on a quantum of development. Both junctions currently comprise a ghost island right turn layout. The level of turning traffic will increase with the introduction of proposed development traffic. Once the anticipated queue lengths for arriving traffic exceed the existing queuing provision at the junction it will either be necessary to extend the length of the right turn lane, or signalise the junction to control the turning movements more effectively. Signalisation will assist in allowing departing traffic in the PM peak period to exit the minor roads onto Rochester Road. Further assessment will be undertaken as part of the Transport Assessment work.
- 6.13. The proposed development traffic associated with the Southern Area will primarily have an impact at the Innovation Centre access and the Shirley Road roundabout to the north, as all development traffic departing the Southern Area will be required to use this junction with the existing road network layout. For later phases of the development it is proposed to investigate the introduction of an all-movement signalised junction at the Innovation Centre access which would remove the need for traffic arriving from the north and traffic departing to the south to have to u-turn at the adjacent roundabouts. The time of implementation for any proposed junction modification would be dependent on quantum and phasing.
- 6.14. Further assessment will be undertaken following up-to-date traffic surveys at the junctions in question. New traffic surveys can only be carried out during school term times in neutral months in order to avoid any uncharacteristic traffic patterns.

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7.0 SUSTAINABILITY

Public Transport

- 7.1. The area is served by a number of bus routes, primarily Service 101 which runs via the A229 to Maidstone in one direction and Chatham and Gillingham in the other direction.
- 7.2. The internal layout of the Northern Area has been designed to accommodate bus services. It is hoped that the Innovation Park will be served by new or re-routed bus services via B2097.
- 7.3. Modern public transport systems such as the ArrivaClick service will be explored as it is anticipated that this type of facility would fit in well with the Innovation Park Medway's ethos. This system is a flexible, on-demand app-based minibus service which takes multiple passengers heading in the same direction in a shared vehicle. Customers are guaranteed a seat on a luxury minibus which has wifi and charging points. The system currently operates in Kent around Sittingbourne and Kent Science Park and plans to expand its operation zone in the future.

Pedestrians and Cyclists

7.4. Pedestrians and cyclists are catered for by a reasonable network of footways and cycle facilities at present. The aspiration of Innovation Park Medway is to improve linkages for non-car modes of travel with new footpaths and routes suitable for cyclists. This will allow for easy access to and from the site by cyclists and for pedestrians to walk to and from the site and local facilities and bus stops. There is a long term aspiration to improve accessibility between the site and areas to the north and east.

Travel Plan

7.5. The Travel Plan will promote sustainable modes of transport for residents to encourage travel by means other than the private car.

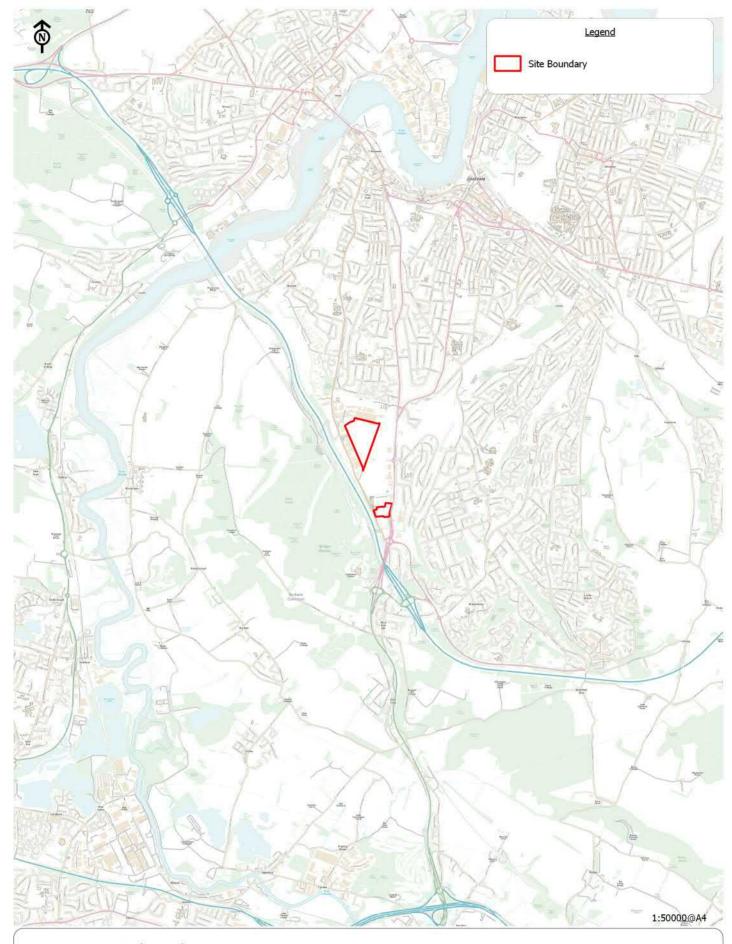
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8.0 CONCLUSIONS

- 8.1. This Transport Assessment has been prepared in support of the proposed Innovation Park Medway development.
- 8.2. The trip generation exercise estimates that the proposed development will generate in the region of 1,680 two-way people trips in the AM peak hour and 1,159 two-way people trips in the PM peak hour. Of these total trips it is anticipated that 1,092 will be vehicle trips in the AM peak hour and 753 will be vehicle trips in the PM peak hour.
- 8.3. This vehicle trip generation is less than the allocated employment sites are considered to potentially generate using the assumed B1/B2 land use mix in the strategic transport modelling.
- 8.4. The Innovation Park can be accessed by means other than the private car. The masterplan provides a means of access for bus services which will provide good connectivity between the site and the town centre and surrounding areas. The bus services also allow for onward journeys by train from Rochester and Chatham stations where there are direct train services to key destinations including London Victoria, London St Pancras International, Dover, Ramsgate, Faversham and Luton.
- 8.5. Pedestrians and cyclists are catered for currently by a reasonable network of footways and cycle facilities. The Innovation Park aims to improve accessibility by non-car modes of travel to provide better access to and from the site by cyclists and for pedestrians to walk to and from the site and local facilities.

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Figures



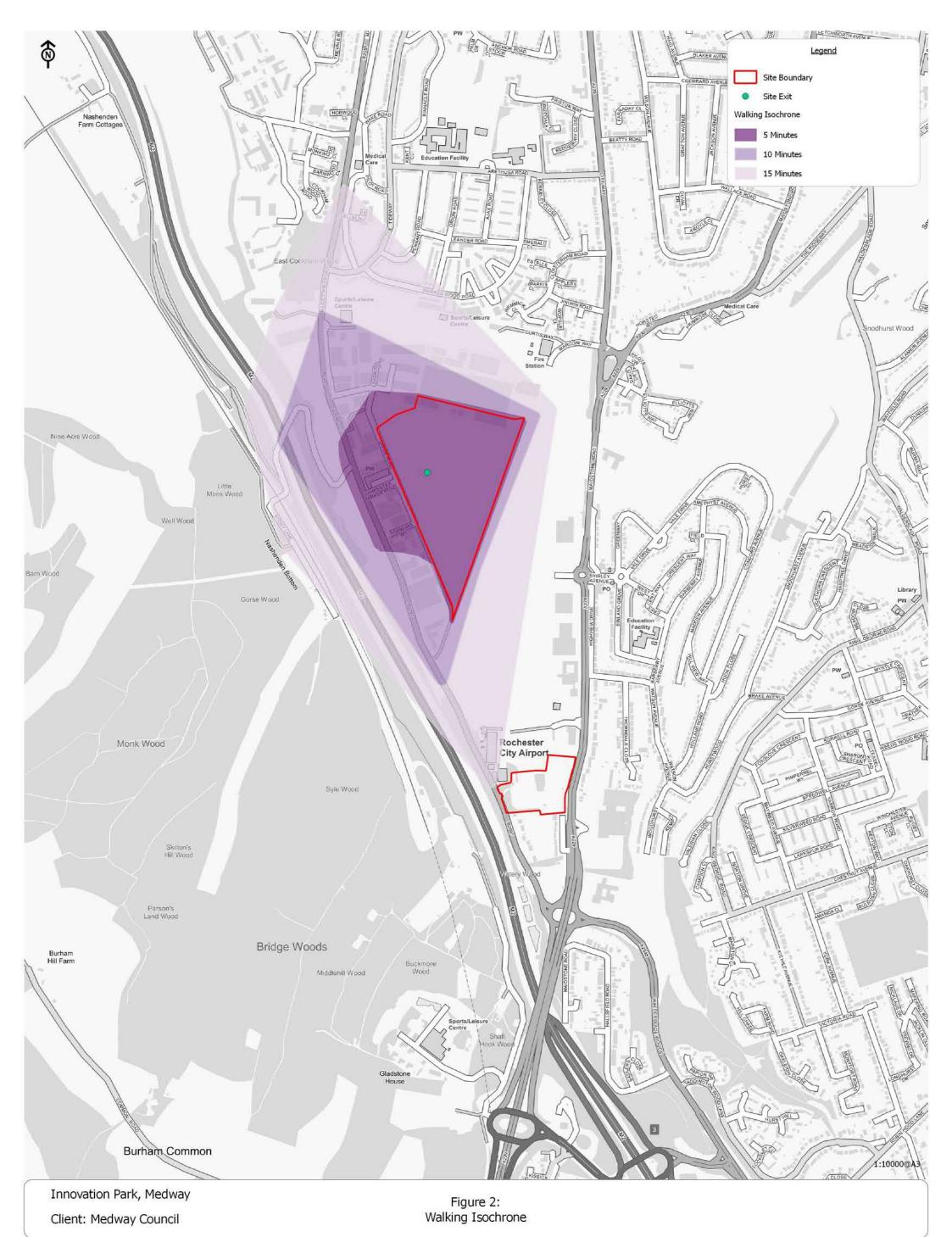
Innovation Park, Medway

Client: Medway Council

Figure 1: Site Location Plan

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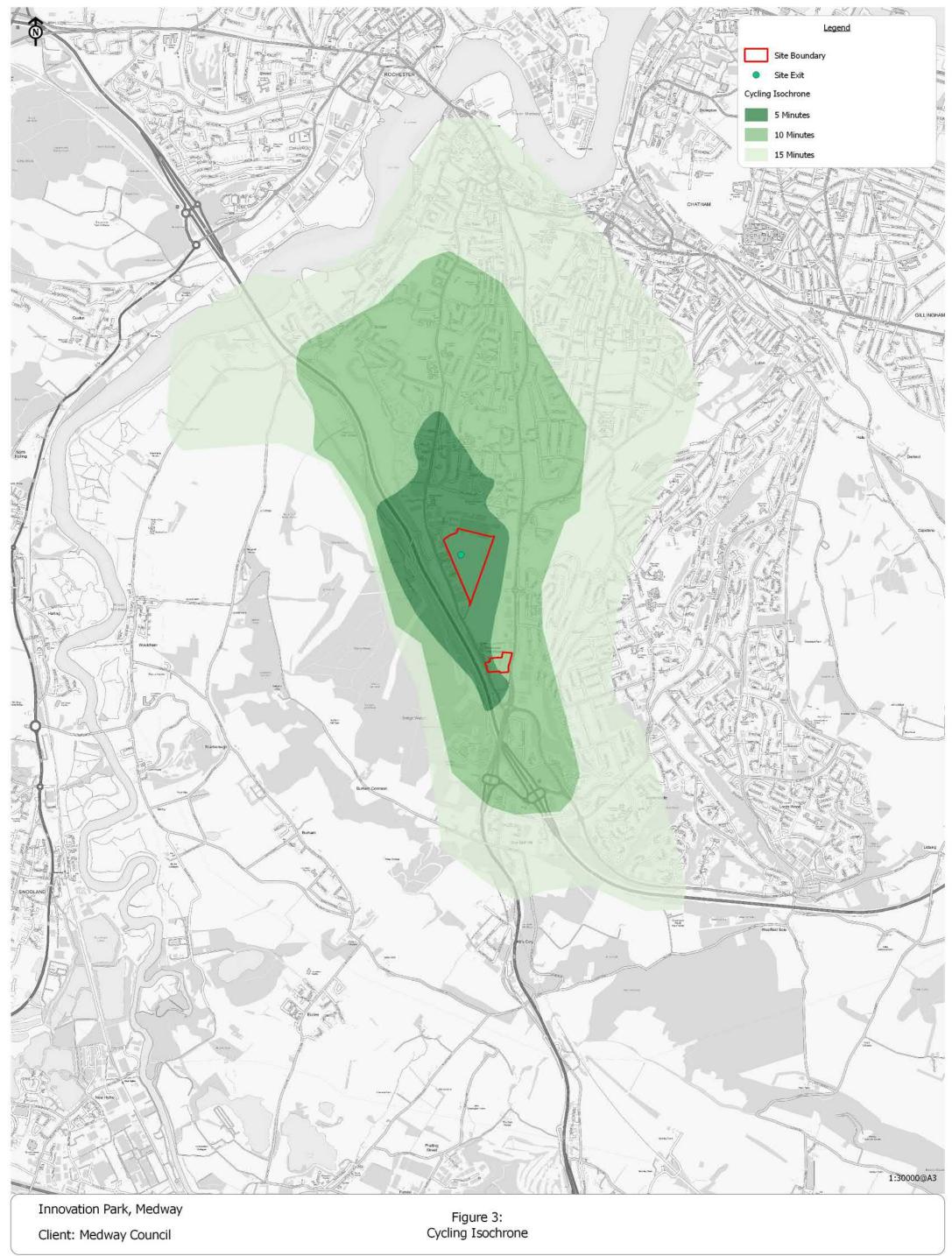
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Figure 6 - Distribution of development traffic for Northern Area

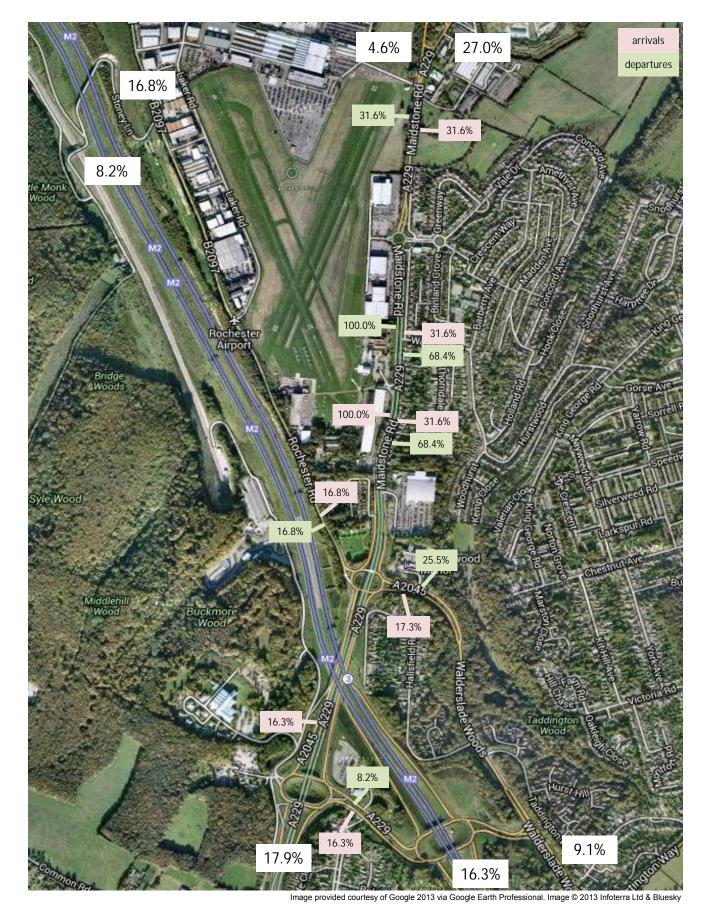


Figure 7 - Distribution of development traffic for Southern Area $\,$



Figure 8 - Development trip generation - AM peak hour

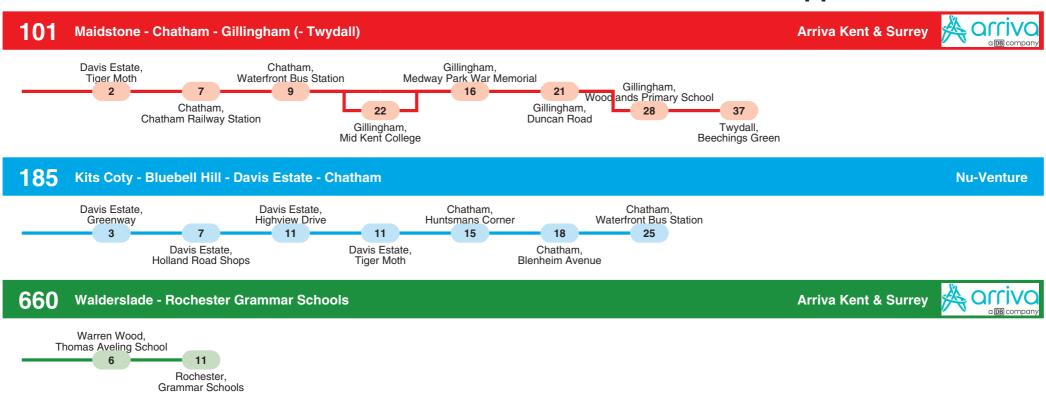


Figure 9 - Development trip generation - PM peak hour

Appendix 1: Public Transport Information



Bus departures from this stop Davis Estate opp Watson Avenue



The numbers circled indicate approximate timings in minutes from Davis Estate, Watson Avenue

Mondays to Fr	ridays					Bus times as at 2	24th August 2018
Time Service Note							
<i>0653</i> 101	<i>0819</i> 101 1	1019 101	1219 101	1419 101	1601 1 01	1805 101 4	2027 101 4
<i>0705</i> 101	<i>0832</i> 101 1	1031 101	1231 101	1431 101	1614 1 01	1817 101 4	<i>2056</i> 101 2
<i>0718</i> 101	0844 101	1043 101	1243 101	1443 101	1627 101	1829 101	2127 101 4
<i>0730</i> 101	<i>0856</i> 101	1055 1 01	1255 101	1455 101	1641 101	1840 101 4	2156 101 2
0742 101	0908 101	1107 <mark>101</mark>	1307 <mark>101</mark>	1507 101 SHOL	1654 101	1851 101 4	2227 101 4
0749 660 SDO	0920 101	1119 101	1319 101	1507 101 SDO	<i>1708</i> 101	1901 101	<i>2256</i> 101 ₂
<i>0754</i> 101 1	0931 101	1131 <mark>101</mark>	1331 <mark>101</mark>	1519 101 SHOL	1719 1 01	1913 101	2327 101
<i>0754</i> 660 SDO	0943 101	1143 101	1343 101	1519 101 SDO	1731 1 01	1926 101 4	
<i>0805</i> 185	<i>0955</i> 101	1155 101	1355 101	<i>1534</i> 101	1743 1 01	1941 101	
<i>0807</i> 101 1	1007 101	<i>1207</i> 101	1407 1 01	1548 101 I	1755 101 4	1956 101	
Saturdays						Bus times as at 2	25th August 2018
						Time Service Note	
0027 101	0931 101	1107 101	1243 101	1419 101	1555 101	1731 101	1956 101
0657 101	0943 101	1119 <u>101</u>	1255 <u>101</u>	1431 101	1607 <u>101</u>	1743 101 4	2027 101 4
0728 101	0955 101	1131 <u>101</u>	1307 <u>101</u>	1443 101	1619 101	1754 101 4	2056 101 2
<i>0758</i> 101	1007 101	1143 101	1319 <u>101</u>	1455 101	1631 101	1806 101	2127 101 4
0800 185 3	1019 101	1155 101	1331 <u>101</u>	1507 101	1643 1 01	1826 101 4	2156 101 2
0828 101	1031 101	1207 101	1343 <u>101</u>	1519 <u>101</u>	1655 101 4	1846 101	2227 101 4
<i>0853</i> 101	1043 101	1219 <u>101</u>	1355 <u>101</u>	1531 101	1707 101 4	1906 101 4	<i>2256</i> 101 2
0919 101	1055 101	1231 101	1407 101	1543 101	1719 101 4	1926 101 4	2327 101
Sundays						Bus times as at 2	26th August 2018
			Time Service Note		Time Service Note		Time Service Note
0027 101	1104 101	1214 101 4	1334 101	1434 101 4	1554 101 4	1724 101 4	2024 101
0924 101	1114 101 4	1234 101	1334 101 4	1454 101 4	1604 101	1732 101 4	2032 101
<i>0934</i> 101 4	1134 101	1234 101 4	1354 101 4	1504 101	1614 101 4	1824 101 4	
1024 101	1134 101 4	1254 101 4	1404 101	1514 101 4	1634 <u>101</u>	1832 101 4	
1034 101 4	1154 101 4	1304 101	1414 101 4	1534 101	1634 101 4	1924 101	
1054 101 4	1204 101	1314 101 4	1434 101	1534 101 4	1704 101 4	1932 101	

Notes: SHOL-Operates during School Holidays SDO - Schooldays only

1 - serves Gillingham, Mid Kent College 2 - terminates at Chatham, Waterfront Bus Station

3-terminates at Davis Estate, Highview Drive4-terminates at Twydall, Beechings Green

Times shown in italics are approximate times



Next bus times on your phone

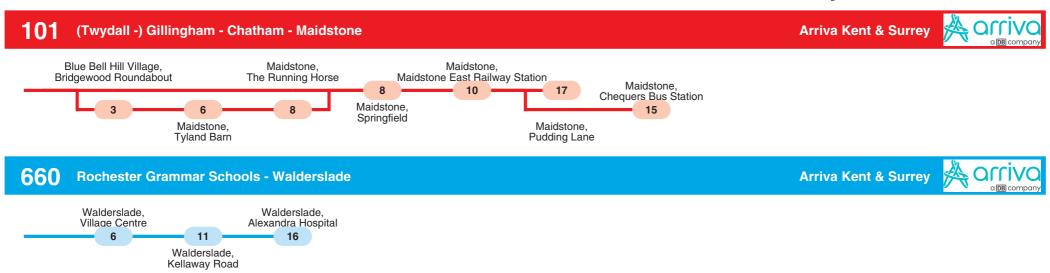
the code for this stop is **chagwjp**

Mobile internet: Use the QR code (left) if you can, or enter the stop code at www.nextbuses.mobi By SMS: text the stop code to 84268. Add a space and service number for just that service.

Internet enquiries incur normal mobile internet charges. SMS messages cost 25p plus your normal text message charge. Live Departure information will be given if available (eg 3 mins) - otherwise scheduled times will be shown as clock times (eg 1007).



Bus departures from this stop Davis Estate adj Watson Avenue



The numbers circled indicate approximate timings in minutes from Davis Estate, Watson Avenue

Mondays to Fi	ridays					Bus times as at 2	24th August 2018
	Time Service Note						
0614 101	0804 101	1009 101	1209 101	1409 101	1600 101	1712 101 SDO	1900 101 2
0626 101	<i>0816</i> 101	1021 101	1221 101	1421 101	1610 101	1723 101 SHOL	1916 101 ₂
0638 101	0828 101	1033 101	1233 101	1433 101	1622 101	1726 101 SDO	1946 101 2
<i>0650</i> 101	0841 101	1045 101	1245 101	1445 101	1632 101 SHOL	1734 101 SHOL	2017 101 1,2
<i>0659</i> 101	<i>0855</i> 101	1057 101	<i>1257</i> 101	1457 101	1635 101 SDO	1738 101 SDO	2047 101 1,2
<i>0710</i> 101	0908 101	1109 101	1309 101	1509 101	1644 101 SHOL	1748 101	2116 101 2
<i>0722</i> 101	0921 101	1121 101	1321 101	1521 101	1647 101 SDO	1801 101	2147 101 1,2
0731 101	0933 101	1133 <mark>101</mark>	1333 101	1538 101	1656 101 SHOL	1813 101	2216 101 2
<i>0740</i> 101	0945 101	1145 101	1345 101	1541 660 SDO	1659 101 SDO	1829 101	2247 101 1,2
<i>0752</i> 101	0957 101	1157 101	1357 101	1550 101	1709 101 SHOL	1845 101 ₂	2347 101 1,2,Fr
Saturdays						Bus times as at 2	25th August 2018
Time Service Note	Time Service Note	Time Service Note	Time Service Note	Time Service Note	Time Service Note		Time Service Note
0617 101	0909 101	1045 101	1221 101	1357 101	1533 101	1709 101	2017 101 1,2
0647 101	0921 101	1057 101	1233 101	1409 101	1545 101	1721 101	2047 101 1,2
0717 101	0933 101	1109 101	1245 101	1421 101	1557 101	1740 101	2116 101 2
0747 101	0945 101	1121 101	1257 101	1433 101	1609 101	1800 101	2147 101 1,2
0811 101	0957 101	1133 101	1309 101	1445 101	1621 101	1825 101	2216 101 2
0833 101	1009 101	1145 101	1321 101	1457 101	1633 101	1850 101 2	2247 101 1,2
0845 101	1021 101	1157 101	1333 101	1509 101	1645 101	1920 101 2	2347 101 1,2
<i>0857</i> 101	1033 101	1209 101	1345 101	1521 101	1657 101	1950 101 ₂	
Cundovo						Desa disease as at 0	ACUL A
Sundays						Bus times as at 2	
Time Service Note				Time Service Note	Time Service Note		Time Service Note
0838	1022	1142	1248	1402	1518	1643	1952 101
00.0	. •						
0943	1102	1218	1322	1442	1548	1843 101 2 1852 101	
1018 101	1122 101	1242 101	1348 101	1502 101	1642 101	1943 101 ₂	

Notes: SHOL-Operates during School Holidays

Fr - Operates only on Fridays

SDO -Schooldays only Times shown in italics are approximate times

1-serves also from Blue Bell Hill Village, Bridgewood Roundabout to Maidstone, The Running Horse

2-terminates at Maidstone, Chequers Bus Station



Next bus times on your phone

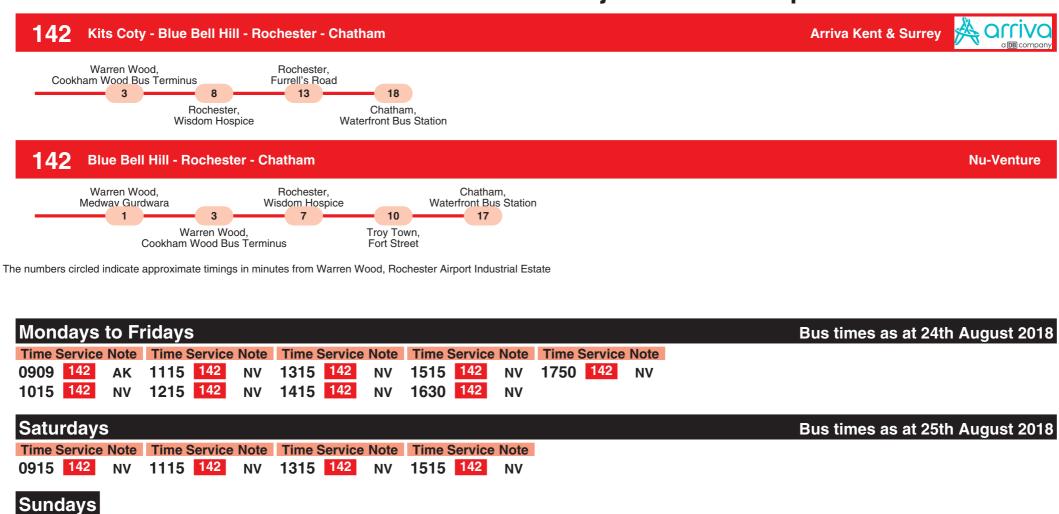
the code for this stop is **chagwim**

Mobile internet: Use the QR code (left) if you can, or enter the stop code at www.nextbuses.mobi
By SMS: text the stop code to 84268. Add a space and service number for just that service.

Internet enquiries incur normal mobile internet charges. SMS messages cost 25p plus your normal text message charge. Live Departure information will be given if available (eg 3 mins) - otherwise scheduled times will be shown as clock times (eg 1007).



Bus departures from this stop Warren Wood adj Rochester Airport Industrial Estate



Notes: AK-Arriva Kent & Surrey NV-Nu-Venture

No Service



Next bus times on your phone

the code for this stop is **chamamd**

Mobile internet: Use the QR code (left) if you can, or enter the stop code at www.nextbuses.mobi By SMS: text the stop code to 84268. Add a space and service number for just that service.

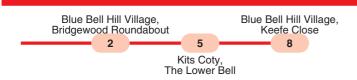
Internet enquiries incur normal mobile internet charges. SMS messages cost 25p plus your normal text message charge. Live Departure information will be given if available (eg 3 mins) - otherwise scheduled times will be shown as clock times (eg 1007).



Bus departures from this stop Warren Wood opp Rochester Airport Industrial Estate

142 Chatham - Rochester - Kits Coty - Blue Bell Hill

Nu-Venture



The numbers circled indicate approximate timings in minutes from Warren Wood, Rochester Airport Industrial Estate

Mondays to Fi	ridays					Bus times as at 24th August 2018
Time Service Note		-	Time Service Note			
0743 142	0958 142	1058 142	1158 142	1258 142	1358 142	1458 142
Saturdays						Bus times as at 25th August 2018
Time Service Note	Time Service Note	Time Service Note				
1058 142	1258 142	1458 142				
Sundays						
No Service						



Next bus times on your phone

the code for this stop is **chajmjm**

Mobile internet: Use the QR code (left) if you can, or enter the stop code at www.nextbuses.mobi
By SMS: text the stop code to 84268. Add a space and service number for just that service.

Internet enquiries incur normal mobile internet charges. SMS messages cost 25p plus your normal text message charge. Live Departure information will be given if available (eg 3 mins) - otherwise scheduled times will be shown as clock times (eg 1007).

Appendix 2: Accident Data



Crash Date: Friday, May 02, 2014 **Time of Crash:** 5:35:00 AM **Crash Reference: 2014460241405**

Highest Injury Severity: Serious **Road Number:** A2045 **Number of Casualties:** 1

Highway Authority: Kent exc Medway Towns Number of Vehicles: 2

Local Authority: Tonbridge and Malling District (B) **OS Grid Reference:** 574730

Weather Description: Fine without high winds

Road Surface Description: Dry

Speed Limit: 30

Light Conditions: Darkness: street lights present but unlit

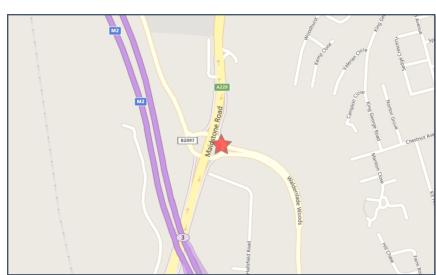
Carriageway Hazards: None

Junction Detail: Roundabout

Junction Pedestrian Crossing: No physical crossing facility within 50 metres

Road Type: Roundabout

Junction Control: Auto traffic signal



For more information about the data please visit: www.crashmap.co.uk/home/aboutthedata and www.crashmap.co.uk/home/definitions

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163360



Vehicles involved

Vehicle Ref	Vehicle Type		Driver Gender		Vehicle Maneouvre	First Point of Impact			Hit Object - Off Carriageway
1	Car (excluding private hire)	7	Male	26 - 35	Vehicle is moving off	Front	Journey as part of work	None	None
	Motorcycle over 125cc and up to 500cc	18	Male	26 - 35	Vehicle is moving off	Nearside	Other	None	None

Casualties

Vehicle Ref	Casualty Ref	Injury Severity	Casualty Class	Gender	Age Band	Pedestrian Location	Pedestrian Movement
2	1	Serious	Driver or rider	Male	26 - 35	Unknown or other	Unknown or other

For more information about the data please visit: www.crashmap.co.uk/home/aboutthedata and www.crashmap.co.uk/home/definitions





Crash Date: Sunday, December 14, 2014 Time of Crash: 5:00:00 AM Crash Reference: 2014460250810

Highest Injury Severity: Serious **Road Number:** A229 **Number of Casualties:** 1

Highway Authority: Medway Towns Number of Vehicles: 1

Local Authority: Medway

Weather Description: Fine without high winds

Road Surface Description: Frost or Ice

Speed Limit: 40

Light Conditions: Darkness: street lights present and lit

Carriageway Hazards: None

Junction Detail: Slip road

Junction Pedestrian Crossing: No physical crossing facility within 50 metres

Road Type: Dual carriageway

Junction Control: Give way or uncontrolled



For more information about the data please visit: www.crashmap.co.uk/home/aboutthedata and www.crashmap.co.uk/home/definitions

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Vehicles involved

Vehicle Ref	Vehicle Type		Driver Gender	 Vehicle Maneouvre	First Point of Impact	· · · · · ·		Hit Object - Off Carriageway
1	Motorcycle over 125cc and up to 500cc	4	Male	Vehicle proceeding normally along the carriageway, not on a bend	Nearside	Commuting to/from work	None	None

Casualties

Ì	Vehicle Ref	Casualty Ref	Injury Severity	Casualty Class	Gender	Age Band	Pedestrian Location	Pedestrian Movement
	1	1	Serious	Driver or rider	Male	21 - 25	Unknown or other	Unknown or other

For more information about the data please visit: www.crashmap.co.uk/home/aboutthedata and www.crashmap.co.uk/home/definitions



2017 data is provisional and is subject to change

Crash Reference: 2017460200665

Highest Injury Severity: Serious **Road Number:** A229 **Number of Casualties:** 1

Highway Authority: Medway Towns Number of Vehicles: 1

Local Authority: Medway **OS Grid Reference:** 574763 164128

Time of Crash: 3:20:00 PM

Weather Description: Fine without high winds

Road Surface Description: Dry

Crash Date:

Speed Limit: 40

Light Conditions: Daylight: regardless of presence of streetlights

Carriageway Hazards: None

Junction Detail: T or staggered junction

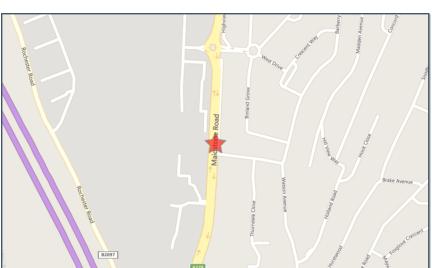
Junction Pedestrian Crossing: Pelican, puffin, toucan or similar non-junction

pedestrian light crossing

Friday, July 14, 2017

Road Type: Dual carriageway

Junction Control: Give way or uncontrolled



For more information about the data please visit: www.crashmap.co.uk/home/aboutthedata and www.crashmap.co.uk/home/definitions

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2017 data is provisional and is subject to change

Vehicles involved

Vehicle Ref	Vehicle Type	Vehicle Age	Driver Gender	 Vehicle Maneouvre	First Point of Impact	_	_	Hit Object - Off Carriageway
1	Car (excluding private hire)	-1	Male	Vehicle proceeding normally along the carriageway, not on a bend	Unknown	Other	None	None

Casualties

Vehicle Ref	Casualty Ref	Injury Severity	Casualty Class	Gender	Age Band	Pedestrian Location	Pedestrian Movement
1	1	Serious	Pedestrian	Female	75-84	In carriageway, crossing on	Crossing from driver's offside
						pedestrian crossing facility	

For more information about the data please visit: www.crashmap.co.uk/home/aboutthedata and www.crashmap.co.uk/home/definitions

Appendix 3: Technical Notes



Technical Note T1

Project: Innovation Park Medway

From: Neal Murphy

File Ref: NMnm12841-220618- Pages: 6 Date: 22/06/2018

TN1.docx

Subject Trip Rates and Traffic Generation Comparison

1.0 Executive Summary

- 1.1. This technical note presents a review of the trip generation currently allocated for the Rochester Airport site in Medway Council's traffic modelling assessment and compares this with the trip rates and traffic generation associated with an Innovation Park development, as currently proposed, using current trip rates from the TRICS database. This shows that the trip rates observed at Cambridge Science Park are less than those assumed for the B1/B2/B8 development. By applying a mode share obtained by reviewing the journey to work data for the local workplace population a modified set of trip rates has been calculated which is considered to be representative for Innovation Park Medway.
- 1.2. The floor area that would generate the equivalent amount of vehicle traffic as that allocated for the B1/B2/B8 development in the Medway traffic modelling has been calculated. This shows that an Innovation Park of 101,688m² floorspace is predicted to generate the same volume of vehicular traffic in the combined AM and PM peak hours as the 76,000m² B1/B2/B8 mix development.

2.0 Medway Trip Rates

2.1. It is understood that the current traffic modelling incorporates a development of 76,000m² floorspace that is split equally between use classes B1, B2 and B8. The two-way trips in the AM peak hour and PM peak hour have been provided and are summarised in Table 2.1.

Table 2.1 – Medway Council Traffic Modelling Trips

Use Class	Floorspace	Two-way trips AM peak hour	Two-way trips PM peak hour	Two-way trips AM+PM peak hour
B1	25,333m²	645	575	1,220
B2	25,333m²	312	221	533
B8	25,333m²	53	52	105
Total	76,000m²	1,010	848	1,858

2.2. Table 2.2 converts the two-way trips for each use class from Table 1 into a trip rate per 100m² of land use.



Table 2.2 – Medway Council Traffic Modelling Trip Rates

Use Class	Two-way trip rate AM peak hour	Two-way trip rate PM peak hour	Two-way trip rate AM+PM peak hour
B1	2.546	2.270	4.816
B2	1.232	0.872	2.104
В8	0.209	0.205	0.414
Combined	1.329	1.116	2.445

3.0 TRICS Database Trip Rates

- 3.1. The proposed development in for innovation uses. Given the specific nature of the development, which may include laboratory space etc., the employment density is expected to be lower than for conventional office use. The current version of the TRICS database (v7.5.1) has therefore been interrogated to obtain representative trip rates for an Innovation Park.
- 3.2. The following criteria have been used when selecting appropriate sites from the database for the residential units:
 - Land Use 02/B Employment Business Park
 - Suburban, Edge of Town, Neighbourhood Centre sites over 50,000m²
 - Multi-modal weekday surveys from 2010 onwards
 - Only latest surveys included where a site has been re-surveyed
- 3.3. The database matched one site, CA-02-B-03 Cambridge Science Park. The Person Trip Rates and Vehicle Trip Rates for this site are summarised in Table 3.1 with the full output presented at the end of this technical note.

Table 3.1 - Cambridge Science Park Trip Rates from the TRICS Database

		AM peak hou	r	PM peak hour			
Per 100m²	Trip Rate In	Trip Rate Out	Two-way Trip Rate	Two-way Trip Rate	Trip Rate Out	Two-way Trip Rate	
Person Trip Rate	1.414	0.249	1.663	0.118	1.030	1.148	
Vehicle Trip Rate	0.903	0.112	1.015	0.036	0.590	0.626	

3.4. A comparison of the two-way vehicle trip rates presented in Tables 2.2 and 3.1 shows that the Cambridge Science Park trip rates are lower than the combined uses class trip rate currently used for the Rochester Airport site. However, the relative accessibility of the sites via non-car modes of transport should be considered in order to provide greater confidence in the calculated trip rates.

4.0 Modal Split

- 4.1. The vast majority of the trip generation of the Innovation Park in the AM and PM peak hours will be related to staff journeys to and from work. The Journey to Work data from Census 2011 has therefore been used to determine the likely modal split for the Innovation Park in the peak hours.
- 4.2. The Mid Layer Super Output Areas used for this assessment are Medway 026, Medway 033 and Tonbridge and Malling 001. The areas covered are shown in Figure 4.1. The modal split for these areas are shown in Figures 4.2 to 4.4 respectively.

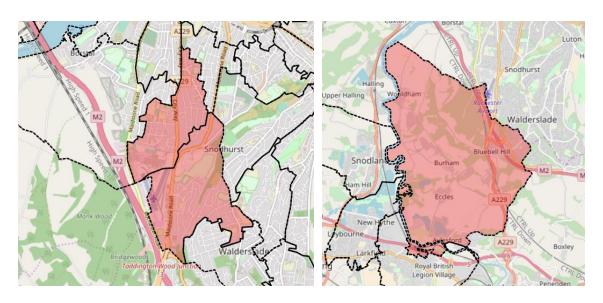


Figure 4.1 – Medway 026, Medway 033, and Tonbridge and Malling 001 Areas.

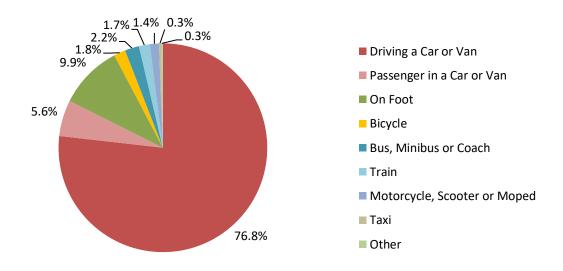


Figure 4.2 – Modal split of journeys to work (Workday population) for 'Medway 026'

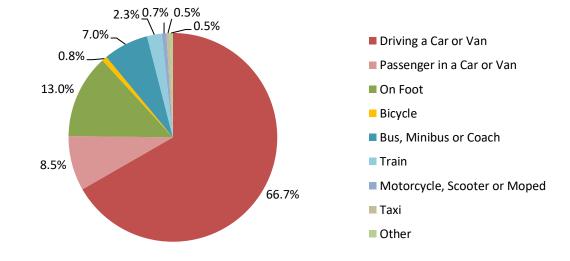


Figure 4.3 – Modal split of journeys to work (Workday population) for 'Medway 033'



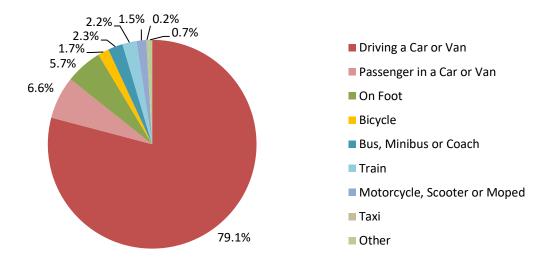


Figure 4.4 – Modal split of journeys to work (Workday population) for 'Tonbridge and Malling 001'

- 4.3. The Medway 033 area covers the existing Innovation Centre and commercial premises along Maidstone Road. This area has a higher proportion of journeys to work by bus, reflecting the presence of a frequent bus service along Maidstone Road. This area also has the lowest proportion of journeys to work by driving a car or van of the three areas considered.
- 4.4. For the purposes of establishing a mode share for trips to and from the Innovation Park in the peak hours it is considered appropriate to apply the modal split in Table 4.1. This assumes that journeys where the main mode of travel is by train will be completed by taxi or by a regular bus route serving the site. The implementation of a Travel Plan for the site will aim to further reduce the proportion of trips made by car.

Table 4.1 - Proposed modal split

Mode of Travel	Mode Share	Comments
Driving a car or van	64%	Based on 2011 Medway 033 share with allowance for mode shift to walking / cycling / bus
Passenger	8%	Based on 2011 Medway 033 share
On foot	13%	Based on Medway 033, plus allowance for potential increase due to new housing locally to the site
Bicycle	2%	Allowance for potential increase in existing mode share due to new housing locally
Bus, minibus or coach	11%	Based on Medway 033 share with allowance for potential service improvements and assumes completion of journeys where train is the main mode share
Motorcycle, scooter or moped	1%	Based on 2011 Medway share
Taxi	1%	Allowance for completion of journeys where train is the main mode share



5.0 Modified Innovation Park Trip Rates

5.1. The mode share for 'driving a car or van' and 'taxi' presented in Table 4.1 have been combined, in order to present a robust assessment, and a factor of 0.65 applied to the Science Park Person Trip Rates presented in Table 3.1 to obtain a modified Vehicle Trip Rate, as shown in Table 5.1. This trip rate is considered appropriate for the type of development proposed. The vehicle trip rates obtained are higher than the vehicle trip rates observed at Cambridge Science Park.

Table 5.1 - Modified Vehicle Trip Rates based on modal split

ı	Per 100m²		AM peak hour		PM peak hour				
ı		Trip Rate In	Trip Rate Out	Two-way Trip Rate	Two-way Trip Rate	Trip Rate Out	Two-way Trip Rate		
	Vehicle Trip Rate	0.919	0.162	1.081	0.077	0.670	0.746		

6.0 Comparison of Vehicle Traffic Generation

6.1. Table 6.1 compares the peak hour traffic generation of a 76,000m² development using the Medway trip rates and the modified trip rates presented in Table 5.1.

Table 6.1 – Comparison of Vehicle Trips traffic generation

76,000m² -	A	M peak hou	ır	Р	Both peak hours		
	Trips In	Trips Out	Two- way	Trips In	Trips Out	Two- way	two-way trips
Medway Trip Rates			1,010			848	1,858
Innovation Park Trip Rates	699	123	822	58	509	567	1,389

- 6.2. The Innovation Park is predicted to generate fewer trips for the same floor area than the B1/B2/B8 development assumption made as part of the Medway transport modelling.
- 6.3. Based on the Innovation Park trip rates presented in Table 5.1, Table 6.2 presents the amount of Innovation Park floorspace that would generate the equivalent volume of vehicle trips allocated in the Medway transport model for both the combined peak hours and for solely the AM peak hour.

Table 6.2 – Equivalent development traffic generation

Equivalent	Д	M peak hou	ır	Р	Both peak hours		
floorspace	Trips In Trips Out		Two- way	Trips In	Trips Out	Two- way	two-way trips
101,688m²	935	165	1,099	78	681	759	1,858
93,436m²	859	151	1,010	72	626	697	1,707

6.4. An Innovation Park of 101,688m² floorspace is predicted to generate the same volume of vehicular traffic in the combined AM and PM peak hours as the 76,000m² B1/B2/B8 mix development. Similarly, an Innovation Park of 93,436m² floorspace is predicted to generate the same volume of vehicular traffic in the AM peak hour as the 76,000m² B1/B2/B8 mix development.

Raven House 29 Linkfield Lane Redhill RH1 1SS T: +44 (0)1737 784 500 E: transport@campbellreith.com



7.0 Next Steps

- 7.1. The trip rates proposed will be required to be agreed with the relevant highway authorities, along with the suitability of applying the vehicle traffic equivalent calculations to obtain the appropriate quantum of floorspace for the Innovation Park.
- 7.2. The proposed development traffic can then be distributed onto the local road network using an agreed traffic distribution. The impact of the proposed development's vehicular traffic can then be considered for the junctions to be analysed as part of the Transport Assessment.

CampbellReith Linkfield Lane Redhill Licence No: 426201

Calculation Reference: AUDIT-426201-180621-0632

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT Category : B - BUSINESS PARK MULTI - MODAL VEHICLES

Selected regions and areas:

04 EAST ANGLIA

CA CAMBRIDGESHIRE 1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Secondary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Gross floor area

Actual Range: 132084 to 132084 (units: sqm)
Range Selected by User: 50000 to 132084 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/10 to 06/10/17

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Friday 1 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count 1 days
Directional ATC Count 0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaking using machines.

Selected Locations:

Edge of Town

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

No Sub Category

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Secondary Filtering selection:

Use Class:

B1 1 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 1 mile:

10,001 to 15,000 1 days

This data displays the number of selected surveys within stated 1-mile radii of population.

TRICS 7.5.1 290318 B18.22 Database right of TRICS Consortium Limited, 2018. All rights reserved

Thursday 21/06/18 Page 2

Redhill CampbellReith Linkfield Lane

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Secondary Filtering selection (Cont.):

Population within 5 miles:

125,001 to 250,000

1 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles: 0.6 to 1.0

1 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

No

1 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:

No PTAL Present

1 days

This data displays the number of selected surveys with PTAL Ratings.

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LIST OF SITES relevant to selection parameters

1 CA-02-B-03 MILTON ROAD SCIENCE PARK

CAMBRI DGESHI RE

CAMBRIDGE Edge of Town No Sub Category

Total Gross floor area:

142687 sqm *06/10/17*

Survey date: FRIDAY

Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

CampbellReith Linkfield Lane

Redhill

Licence No: 426201

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MULTI-MODAL VEHICLES Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

		ARRIVALS			DEPARTURES			TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30									
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	1	132084	0.167	1	132084	0.033	1	132084	0.200
07:30 - 08:00	1	132084	0.364	1	132084	0.061	1	132084	0.425
08:00 - 08:30	1	132084	0.531	1	132084	0.072	1	132084	0.603
08:30 - 09:00	1	132084	0.372	1	132084	0.040	1	132084	0.412
09:00 - 09:30	1	132084	0.142	1	132084	0.023	1	132084	0.165
09:30 - 10:00	1	132084	0.032	1	132084	0.023	1	132084	0.055
10:00 - 10:30	1	132084	0.033	1	132084	0.017	1	132084	0.050
10:30 - 11:00	1	132084	0.026	1	132084	0.014	1	132084	0.040
11:00 - 11:30	1	132084	0.030	1	132084	0.018	1	132084	0.048
11:30 - 12:00	1	132084	0.035	1	132084	0.022	1	132084	0.057
12:00 - 12:30	1	132084	0.033	1	132084	0.040	1	132084	0.073
12:30 - 13:00	1	132084	0.028	1	132084	0.038	1	132084	0.066
13:00 - 13:30	1	132084	0.045	1	132084	0.023	1	132084	0.068
13:30 - 14:00	1	132084	0.030	1	132084	0.022	1	132084	0.052
14:00 - 14:30	1	132084	0.029	1	132084	0.032	1	132084	0.061
14:30 - 15:00	1	132084	0.020	1	132084	0.033	1	132084	0.053
15:00 - 15:30	1	132084	0.024	1	132084	0.047	1	132084	0.071
15:30 - 16:00	1	132084	0.023	1	132084	0.056	1	132084	0.079
16:00 - 16:30	1	132084	0.020	1	132084	0.065	1	132084	0.085
16:30 - 17:00	1	132084	0.015	1	132084	0.095	1	132084	0.110
17:00 - 17:30	1	132084	0.019	1	132084	0.271	1	132084	0.290
17:30 - 18:00	1	132084	0.017	1	132084	0.319	1	132084	0.336
18:00 - 18:30	1	132084	0.010	1	132084	0.330	1	132084	0.340
18:30 - 19:00	1	132084	0.011	1	132084	0.290	1	132084	0.301
19:00 - 19:30	·		2.0	•		2.273	•		3.001
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00						+			
21:00 - 21:30									
21:30 - 22:00						+			
22:00 - 22:30			+						
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			2.056			1.984			4.040

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

CampbellReith Linkfield Lane Redhill

Licence No: 426201

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MULTI - MODAL TAXIS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

		ARRIVALS			DEPARTURES			TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30	,			,			,		
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
07:30 - 08:00	1	132084	0.003	1	132084	0.003	1	132084	0.006
08:00 - 08:30	1	132084	0.003	1	132084	0.003	1	132084	0.004
08:30 - 09:00	1	132084	0.002	1	132084	0.002	1	132084	0.004
09:00 - 09:30	1	132084	0.004	1	132084	0.002	1	132084	0.000
09:30 - 10:00				1			1		
	1	132084 132084	0.001	1	132084 132084	0.001	1	132084 132084	0.002
10:00 - 10:30	1								
10:30 - 11:00	1	132084	0.002	1	132084	0.002	1	132084	0.004
11:00 - 11:30	1	132084	0.001	1 1	132084	0.001	1	132084	0.002
11:30 - 12:00	1	132084	0.001		132084			132084	
12:00 - 12:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
12:30 - 13:00	1	132084	0.000	1	132084	0.001	1	132084	0.001
13:00 - 13:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
13:30 - 14:00	1	132084	0.001	1	132084	0.000	1	132084	0.001
14:00 - 14:30	1	132084	0.002	1	132084	0.002	1	132084	0.004
14:30 - 15:00	1	132084	0.001	1	132084	0.001	1	132084	0.002
15:00 - 15:30	1	132084	0.001	1	132084	0.001	1	132084	0.002
15:30 - 16:00	1	132084	0.000	1	132084	0.001	1	132084	0.001
16:00 - 16:30	1	132084	0.001	1	132084	0.001	1	132084	0.002
16:30 - 17:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
17:00 - 17:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
17:30 - 18:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
18:00 - 18:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
18:30 - 19:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.021			0.021			0.042

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

CampbellReith Linkfield Lane

Redhill

Licence No: 426201

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MULTI-MODAL OGVS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

		ARRIVALS		[DEPARTURES			TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30	,			,					
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	1	132084	0.003	1	132084	0.002	1	132084	0.005
07:30 - 08:00	1	132084	0.003	1	132084	0.004	1	132084	0.007
08:00 - 08:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
08:30 - 09:00	1	132084	0.001	1	132084	0.000	1	132084	0.001
09:00 - 09:30	1	132084	0.002	1	132084	0.000	1	132084	0.002
09:30 - 10:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
10:00 - 10:30	1	132084	0.001	1	132084	0.001	1	132084	0.002
10:30 - 11:00	1	132084	0.001	1	132084	0.000	1	132084	0.001
11:00 - 11:30	1	132084	0.001	1	132084	0.000	1	132084	0.001
11:30 - 12:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
12:00 - 12:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
12:30 - 13:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
13:00 - 13:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
13:30 - 14:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
14:00 - 14:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
14:30 - 15:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
15:00 - 15:30	1	132084	0.001	1	132084	0.000	1	132084	0.001
15:30 - 16:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
16:00 - 16:30	1	132084	0.001	1	132084	0.000	1	132084	0.001
16:30 - 17:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
17:00 - 17:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
17:30 - 18:00	1	132084	0.000	1	132084	0.001	1	132084	0.000
18:00 - 18:30	1	132084	0.000	1	132084	0.001	1	132084	0.001
18:30 - 19:00	1	132084	0.000	1	132084	0.001	1	132084	0.002
19:00 - 19:30	'	10200-4	3.000	'	102004	3.001	'	10200-4	3.001
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.014			0.011			0.025
Total Nates.			0.014			0.011			0.023

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

CampbellReith Linkfield Lane Redhill

Licence No: 426201

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MULTI - MODAL PSVS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

	ARRIVALS				DEPARTURES			TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30	,			,			,		
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00	1	132084	0.000	1	122004	0.000	1	132084	0.000
07:00 - 07:30	1			1	132084		1		0.000
07:30 - 08:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
08:00 - 08:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
08:30 - 09:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
09:00 - 09:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
09:30 - 10:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
10:00 - 10:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
10:30 - 11:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
11:00 - 11:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
11:30 - 12:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
12:00 - 12:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
12:30 - 13:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
13:00 - 13:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
13:30 - 14:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
14:00 - 14:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
14:30 - 15:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
15:00 - 15:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
15:30 - 16:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
16:00 - 16:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
16:30 - 17:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
17:00 - 17:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
17:30 - 18:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
18:00 - 18:30	1	132084	0.000	1	132084	0.000	1	132084	0.000
18:30 - 19:00	1	132084	0.000	1	132084	0.000	1	132084	0.000
19:00 - 19:30							-		
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 23:30							-		
			0.000			0.000			0.000
Total Rates:			0.000			0.000			0.000

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

CampbellReith Linkfie

Linkfield Lane

Redhill

Licence No: 426201

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MULTI - MODAL CYCLISTS
Calculation factor: 100 sqm
BOLD print indicates peak (busiest) period

	ARRIVALS			EPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30	,			,			,		
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	1	132084	0.023	1	132084	0.005	1	132084	0.028
07:30 - 08:00	1	132084	0.047	1	132084	0.010	1	132084	0.057
08:00 - 08:30	1	132084	0.091	1	132084	0.015	1	132084	0.106
08:30 - 09:00	1	132084	0.101	1	132084	0.011	1	132084	0.112
09:00 - 09:30	1	132084	0.073	1	132084	0.011	1	132084	0.084
09:30 - 10:00	1	132084	0.056	1	132084	0.015	1	132084	0.071
10:00 - 10:30	1	132084	0.028	1	132084	0.015	1	132084	0.043
10:30 - 11:00	1	132084	0.031	1	132084	0.012	1	132084	0.043
11:00 - 11:30	1	132084	0.017	1	132084	0.008	1	132084	0.025
11:30 - 12:00	1	132084	0.017	1	132084	0.014	1	132084	0.031
12:00 - 12:30	1	132084	0.022	1	132084	0.021	1	132084	0.043
12:30 - 13:00	1	132084	0.018	1	132084	0.021	1	132084	0.039
13:00 - 13:30	1	132084	0.027	1	132084	0.022	1	132084	0.049
13:30 - 14:00	1	132084	0.017	1	132084	0.015	1	132084	0.032
14:00 - 14:30	1	132084	0.013	1	132084	0.012	1	132084	0.025
14:30 - 15:00	1	132084	0.012	1	132084	0.019	1	132084	0.031
15:00 - 15:30	1	132084	0.023	1	132084	0.034	1	132084	0.057
15:30 - 16:00	1	132084	0.014	1	132084	0.023	1	132084	0.037
16:00 - 16:30	1	132084	0.017	1	132084	0.042	1	132084	0.059
16:30 - 17:00	1	132084	0.020	1	132084	0.061	1	132084	0.081
17:00 - 17:30	1	132084	0.019	1	132084	0.067	1	132084	0.086
17:30 - 18:00	1	132084	0.014	1	132084	0.075	1	132084	0.089
18:00 - 18:30	1	132084	0.019	1	132084	0.061	1	132084	0.080
18:30 - 19:00	1	132084	0.009	1	132084	0.041	1	132084	0.050
19:00 - 19:30	•	.02001	3.007		. 3233 7	3.011	•	.52551	3.000
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
			0.729			0.620			1 250
Total Rates:			0.728			0.630			1.358

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

Licence No: 426201

CampbellReith

Linkfield Lane

Redhill

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MULTI - MODAL VEHICLE OCCUPANTS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

		ARRIVALS		[DEPARTURES	i		TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30	,			,					
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	1	132084	0.178	1	132084	0.037	1	132084	0.215
07:30 - 08:00	1	132084	0.401	1	132084	0.067	1	132084	0.468
08:00 - 08:30	1	132084	0.557	1	132084	0.079	1	132084	0.636
08:30 - 09:00	1	132084	0.427	1	132084	0.045	1	132084	0.472
09:00 - 09:30	1	132084	0.175	1	132084	0.030	1	132084	0.205
09:30 - 10:00	1	132084	0.045	1	132084	0.030	1	132084	0.075
10:00 - 10:30	1	132084	0.045	1	132084	0.022	1	132084	0.067
10:30 - 11:00	1	132084	0.036	1	132084	0.019	1	132084	0.055
11:00 - 11:30	1	132084	0.045	1	132084	0.024	1	132084	0.069
11:30 - 12:00	1	132084	0.048	1	132084	0.030	1	132084	0.078
12:00 - 12:30	1	132084	0.045	1	132084	0.056	1	132084	0.101
12:30 - 13:00	1	132084	0.036	1	132084	0.050	1	132084	0.086
13:00 - 13:30	1	132084	0.061	1	132084	0.029	1	132084	0.090
13:30 - 14:00	1	132084	0.039	1	132084	0.029	1	132084	0.068
14:00 - 14:30	1	132084	0.039	1	132084	0.046	1	132084	0.085
14:30 - 15:00	1	132084	0.030	1	132084	0.043	1	132084	0.073
15:00 - 15:30	1	132084	0.032	1	132084	0.059	1	132084	0.091
15:30 - 16:00	1	132084	0.030	1	132084	0.079	1	132084	0.109
16:00 - 16:30	1	132084	0.028	1	132084	0.087	1	132084	0.115
16:30 - 17:00	1	132084	0.020	1	132084	0.126	1	132084	0.146
17:00 - 17:30	1	132084	0.026	1	132084	0.319	1	132084	0.345
17:30 - 18:00	1	132084	0.023	1	132084	0.363	1	132084	0.386
18:00 - 18:30	1	132084	0.014	1	132084	0.370	1	132084	0.384
18:30 - 19:00	1	132084	0.014	1	132084	0.318	1	132084	0.332
19:00 - 19:30							·		
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			2.394			2.357			4.751

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

CampbellReith Linkfield Lane

Redhill

Licence No: 426201

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MULTI-MODAL PEDESTRIANS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

		ARRIVALS			DEPARTURES		TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30	,			,			,		
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	1	132084	0.018	1	132084	0.003	1	132084	0.021
07:30 - 08:00	1	132084	0.036	1	132084	0.004	1	132084	0.040
08:00 - 08:30	1	132084	0.080	1	132084	0.020	1	132084	0.100
08:30 - 09:00	1	132084	0.055	1	132084	0.010	1	132084	0.065
09:00 - 09:30	1	132084	0.036	1	132084	0.008	1	132084	0.044
09:30 - 10:00	1	132084	0.030	1	132084	0.016	1	132084	0.046
10:00 - 10:30	1	132084	0.025	1	132084	0.014	1	132084	0.039
10:30 - 11:00	1	132084	0.019	1	132084	0.011	1	132084	0.030
11:00 - 11:30	1	132084	0.019	1	132084	0.004	1	132084	0.023
11:30 - 12:00	1	132084	0.015	1	132084	0.017	1	132084	0.032
12:00 - 12:30	1	132084	0.030	1	132084	0.040	1	132084	0.070
12:30 - 13:00	1	132084	0.042	1	132084	0.033	1	132084	0.075
13:00 - 13:30	1	132084	0.036	1	132084	0.048	1	132084	0.084
13:30 - 14:00	1	132084	0.036	1	132084	0.012	1	132084	0.048
14:00 - 14:30	1	132084	0.020	1	132084	0.009	1	132084	0.029
14:30 - 15:00	1	132084	0.008	1	132084	0.008	1	132084	0.016
15:00 - 15:30	1	132084	0.011	1	132084	0.011	1	132084	0.022
15:30 - 16:00	1	132084	0.014	1	132084	0.017	1	132084	0.031
16:00 - 16:30	1	132084	0.021	1	132084	0.034	1	132084	0.055
16:30 - 17:00	1	132084	0.016	1	132084	0.042	1	132084	0.058
17:00 - 17:30	1	132084	0.020	1	132084	0.073	1	132084	0.093
17:30 - 18:00	1	132084	0.012	1	132084	0.079	1	132084	0.091
18:00 - 18:30	1	132084	0.010	1	132084	0.036	1	132084	0.046
18:30 - 19:00	1	132084	0.002	1	132084	0.023	1	132084	0.025
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.611			0.572			1.183

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

CampbellReith

Linkfield Lane

Redhill

Licence No: 426201

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MULTI-MODAL PUBLIC TRANSPORT USERS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

		ARRIVALS			DEPARTURES			TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30	,			,			,		
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	1	132084	0.022	1	132084	0.002	1	132084	0.024
07:30 - 08:00	1	132084	0.036	1	132084	0.002	1	132084	0.038
08:00 - 08:30	1	132084	0.061	1	132084	0.055	1	132084	0.116
08:30 - 09:00	1	132084	0.043	1	132084	0.013	1	132084	0.056
09:00 - 09:30	1	132084	0.025	1	132084	0.004	1	132084	0.029
09:30 - 10:00	1	132084	0.014	1	132084	0.002	1	132084	0.016
10:00 - 10:30	1	132084	0.005	1	132084	0.004	1	132084	0.009
10:30 - 11:00	1	132084	0.007	1	132084	0.002	1	132084	0.009
11:00 - 11:30	1	132084	0.007	1	132084	0.002	1	132084	0.009
11:30 - 12:00	1	132084	0.003	1	132084	0.016	1	132084	0.020
12:00 - 12:30	1	132084	0.004	1	132084	0.005	1	132084	0.020
12:30 - 13:00	1	132084	0.002	1	132084	0.003	1	132084	0.006
13:00 - 13:30	1	132084	0.003	1	132084	0.005	1	132084	0.009
13:30 - 14:00	1	132084	0.030	1	132084	0.005	1	132084	0.035
14:00 - 14:30	1	132084	0.002	1	132084	0.004	1	132084	0.006
14:30 - 15:00	1	132084	0.002	1	132084	0.008	1	132084	0.019
15:00 - 15:30	1	132084	0.002	1	132084	0.010	1	132084	0.017
15:30 - 16:00	1	132084	0.002	1	132084	0.005	1	132084	0.012
16:00 - 16:30	1	132084	0.005	1	132084	0.003	1	132084	0.008
16:30 - 17:00	1	132084	0.003	1	132084	0.023	1	132084	0.028
17:00 - 17:30	1	132084	0.003	1	132084	0.021	1	132084	0.024
17:30 - 18:00	1	132084	0.002	1	132084	0.024	1	132084	0.020
18:00 - 18:30	1	132084	0.002	1		0.029	1	132084	0.031
18:30 - 18:30	1	132084	0.002	1	132084 132084	0.008	1	132084	0.010
	- 1	132004	0.004	I	132004	0.013	- 1	132004	0.019
19:00 - 19:30 19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00			0.007			0.040			0.545
Total Rates:			0.297			0.268			0.565

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

CampbellReith Linkfield Lane R

Redhill

Licence No: 426201

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MULTI - MODAL TOTAL PEOPLE Calculation factor: 100 sqm
BOLD print indicates peak (busiest) period

		ARRIVALS		DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30	,			,			,		
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	1	132084	0.242	1	132084	0.046	1	132084	0.288
07:30 - 08:00	1	132084	0.519	1	132084	0.083	1	132084	0.602
08:00 - 08:30	1	132084	0.789	1	132084	0.170	1	132084	0.959
08:30 - 09:00	1	132084	0.625	1	132084	0.079	1	132084	0.704
09:00 - 09:30	1	132084	0.308	1	132084	0.054	1	132084	0.362
09:30 - 10:00	1	132084	0.145	1	132084	0.063	1	132084	0.208
10:00 - 10:30	1	132084	0.103	1	132084	0.055	1	132084	0.158
10:30 - 11:00	1	132084	0.093	1	132084	0.045	1	132084	0.138
11:00 - 11:30	1	132084	0.086	1	132084	0.039	1	132084	0.125
11:30 - 12:00	1	132084	0.084	1	132084	0.077	1	132084	0.161
12:00 - 12:30	1	132084	0.100	1	132084	0.123	1	132084	0.223
12:30 - 13:00	1	132084	0.100	1	132084	0.107	1	132084	0.207
13:00 - 13:30	1	132084	0.129	1	132084	0.103	1	132084	0.232
13:30 - 14:00	1	132084	0.123	1	132084	0.061	1	132084	0.184
14:00 - 14:30	1	132084	0.074	1	132084	0.071	1	132084	0.145
14:30 - 15:00	1	132084	0.060	1	132084	0.079	1	132084	0.139
15:00 - 15:30	1	132084	0.067	1	132084	0.114	1	132084	0.181
15:30 - 16:00	1	132084	0.062	1	132084	0.125	1	132084	0.187
16:00 - 16:30	1	132084	0.070	1	132084	0.185	1	132084	0.255
16:30 - 17:00	1	132084	0.059	1	132084	0.250	1	132084	0.309
17:00 - 17:30	1	132084	0.067	1	132084	0.484	1	132084	0.551
17:30 - 18:00	1	132084	0.051	1	132084	0.546	1	132084	0.597
18:00 - 18:30	1	132084	0.045	1	132084	0.475	1	132084	0.520
18:30 - 19:00	1	132084	0.029	1	132084	0.397	1	132084	0.426
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			4.030			3.831			7.861

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

Licence No: 426201

CampbellReith Linkfield Lane

Redhill

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MULTI-MODAL CARS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

	ARRIVALS DEPAR			EPARTURES			TOTALS	TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30	<i></i>			, ,			,		
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	1	132084	0.152	1	132084	0.025	1	132084	0.177
07:30 - 08:00	1	132084	0.132	1	132084	0.049	1	132084	0.395
08:00 - 08:30	1	132084	0.518	1	132084	0.063	1	132084	0.581
08:30 - 09:00	1	132084	0.364	1	132084	0.035	1	132084	0.399
09:00 - 09:30	1	132084	0.304	1	132084	0.020	1	132084	0.377
09:30 - 10:00	1	132084	0.133	1	132084	0.020	1	132084	0.133
10:00 - 10:30	1	132084	0.028	1	132084	0.018	1	132084	0.044
10:30 - 11:00	1	132084	0.028	1	132084	0.012	1	132084	0.040
11:00 - 11:30	1	132084	0.021	1	132084	0.013	1	132084	0.034
11:30 - 12:00	1	132084	0.023	1	132084	0.017	1	132084	0.040
	1			1			1		0.048
12:00 - 12:30		132084	0.029		132084	0.038		132084	
12:30 - 13:00	1	132084	0.022	1	132084	0.034	1	132084	0.056
13:00 - 13:30	1	132084	0.039	1	132084	0.020	1	132084	0.059
13:30 - 14:00	1	132084	0.026	1	132084	0.017	1	132084	0.043
14:00 - 14:30	1	132084	0.024	1	132084	0.030	1	132084	0.054
14:30 - 15:00	1	132084	0.015	1	132084	0.027	1	132084	0.042
15:00 - 15:30	1	132084	0.017	1	132084	0.042	1	132084	0.059
15:30 - 16:00	1	132084	0.020	1	132084	0.052	1	132084	0.072
16:00 - 16:30	1	132084	0.015	1	132084	0.059	1	132084	0.074
16:30 - 17:00	1	132084	0.014	1	132084	0.089	1	132084	0.103
17:00 - 17:30	1	132084	0.016	1	132084	0.263	1	132084	0.279
17:30 - 18:00	1	132084	0.014	1	132084	0.310	1	132084	0.324
18:00 - 18:30	1	132084	0.010	1	132084	0.324	1	132084	0.334
18:30 - 19:00	1	132084	0.010	1	132084	0.285	1	132084	0.295
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			1.914			1.860			3.774

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

Redhill CampbellReith Linkfield Lane

Licence No: 426201

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MULTI-MODAL LGVS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

		ARRIVALS		D	EPARTURES			TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30	, ,			,			,		
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	1	132084	0.008	1	132084	0.005	1	132084	0.013
07:30 - 08:00	1	132084	0.008	1	132084	0.002	1	132084	0.010
08:00 - 08:30	1	132084	0.007	1	132084	0.005	1	132084	0.012
08:30 - 09:00	1	132084	0.004	1	132084	0.003	1	132084	0.007
09:00 - 09:30	1	132084	0.003	1	132084	0.002	1	132084	0.005
09:30 - 10:00	1	132084	0.005	1	132084	0.003	1	132084	0.003
10:00 - 10:30	1	132084	0.003	1	132084	0.003	1	132084	0.005
10:30 - 11:00	1	132084	0.002	1	132084	0.000	1	132084	0.002
11:00 - 11:30	1	132084	0.005	1	132084	0.001	1	132084	0.002
11:30 - 12:00	1	132084	0.002	1	132084	0.001	1	132084	0.003
12:00 - 12:30	1	132084	0.004	1	132084	0.002	1	132084	0.005
12:30 - 13:00	1	132084	0.004	1	132084	0.002	1	132084	0.007
13:00 - 13:30	1	132084	0.003	1	132084	0.002	1	132084	0.007
13:30 - 14:00	1	132084	0.004	1	132084	0.002	1	132084	0.007
14:00 - 14:30	1	132084	0.003	1	132084	0.004	1	132084	0.007
14:30 - 15:00	1	132084	0.002	1	132084	0.001	1	132084	0.003
15:00 - 15:30	1	132084	0.003	1	132084	0.003	1	132084	0.006
15:30 - 16:00	1	132084	0.003	1	132084	0.003	1	132084	0.008
	1			1			1		0.004
16:00 - 16:30 16:30 - 17:00	1	132084 132084	0.002	1	132084 132084	0.004	1	132084 132084	0.008
17:00 - 17:30	1	132084	0.001	1	132084	0.008	1	132084	0.007
17:30 - 18:00	1	132084	0.004	1	132084	0.005	1	132084	0.009
18:00 - 18:30	1	132084	0.000	1	132084	0.005	1	132084	0.005
18:30 - 19:00	1	132084	0.000	1	132084	0.004	1	132084	0.004
19:00 - 19:30							+		
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00			0.005			0.272			
Total Rates:			0.081			0.072			0.153

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

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TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MULTI - MODAL MOTOR CYCLES Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

		ARRIVALS		С	EPARTURES			TOTALS	TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate	
00:00 - 00:30	.,			- ,			.,			
00:30 - 01:00										
01:00 - 01:30										
01:30 - 02:00										
02:00 - 02:30										
02:30 - 03:00										
03:00 - 03:30										
03:30 - 04:00										
04:00 - 04:30										
04:30 - 05:00										
05:00 - 05:30										
05:30 - 06:00										
06:00 - 06:30										
06:30 - 07:00										
07:00 - 07:30	1	132084	0.004	1	132084	0.001	1	132084	0.005	
07:30 - 08:00	1	132084	0.004	1	132084	0.001	1	132084	0.006	
08:00 - 08:30	1	132084	0.004	1	132084	0.002	1	132084	0.007	
08:30 - 09:00	1	132084	0.000	1	132084	0.002	1	132084	0.000	
09:00 - 09:30	1	132084	0.000	1	132084	0.001	1	132084	0.003	
09:30 - 10:00	1	132084	0.002	1	132084	0.001	1	132084	0.003	
10:00 - 10:30	1	132084	0.001	1	132084	0.000	1	132084	0.002	
10:30 - 11:00	1	132084	0.002	1	132084	0.000	1	132084	0.002	
11:00 - 11:30	1	132084	0.001	1	132084	0.000	1	132084	0.001	
11:30 - 12:00	1	132084	0.001	1	132084	0.002	1	132084	0.001	
12:00 - 12:30	1	132084	0.002	1	132084	0.002	1	132084	0.004	
12:30 - 13:00	1	132084	0.001	1	132084	0.000	1	132084	0.001	
13:00 - 13:30	1	132084	0.002	1	132084	0.001	1	132084	0.003	
13:30 - 14:00	1	132084	0.002	1	132084	0.001	1	132084	0.003	
	1	132084		1			1			
14:00 - 14:30	1	132084	0.001	1	132084	0.000		132084 132084	0.001	
14:30 - 15:00	1		0.002	1	132084	0.001	1		0.003	
15:00 - 15:30		132084	0.002		132084	0.002	1	132084	0.004	
15:30 - 16:00	1	132084	0.001	1	132084	0.001	1	132084	0.002	
16:00 - 16:30	1	132084	0.001	1	132084	0.002	1	132084	0.003	
16:30 - 17:00	1	132084	0.000	1	132084	0.000	1	132084	0.000	
17:00 - 17:30	1	132084	0.002	1	132084	0.006	1	132084	0.008	
17:30 - 18:00	1	132084	0.000	1	132084	0.003	1	132084	0.003	
18:00 - 18:30	1	132084	0.000	1	132084	0.000	1	132084	0.000	
18:30 - 19:00	1	132084	0.001	1	132084	0.000	1	132084	0.001	
19:00 - 19:30										
19:30 - 20:00										
20:00 - 20:30										
20:30 - 21:00										
21:00 - 21:30										
21:30 - 22:00										
22:00 - 22:30										
22:30 - 23:00										
23:00 - 23:30										
23:30 - 24:00										
Total Rates:			0.037			0.027			0.064	

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

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Parameter summary

Trip rate parameter range selected: 132084 - 132084 (units: sqm)

Survey date date range: 01/01/10 - 06/10/17

Number of weekdays (Monday-Friday): 1
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 0
Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

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Technical Note T2

Project: Innovation Park Medway

From: Neal Murphy

File Ref: NMnm12841-170718- Pages: 6 Date: 17/07/2018

TN2.docx

Subject Updated Traffic Generation Comparison

1.0 Executive Summary

- 1.1. This technical note presents an update to Technical Note T1 and a review of the trip generation associated with the latest floor area expectations provided by Medway Council and compares this with the trip rates and traffic generation associated with an Innovation Park development, as currently proposed, using current trip rates from the TRICS database.
- 1.2. This shows that the trip rates observed at Cambridge Science Park are less than those assumed for the B1/B2 development. A modified set of trip rates has been calculated by applying a mode share obtained by reviewing the journey to work data for the local workplace population. This is considered to be representative for Innovation Park Medway.
- 1.3. The floor area that would generate the equivalent amount of vehicle traffic as that expected for the B1/B2 employment site allocations in the Medway strategic traffic modelling has been calculated. The technical note concludes that an Innovation Park of 101,000m² will generate less traffic in each of the peak hours than the four employment allocation sites combined based on the trip rates presented in this note.

2.0 Medway Trip Rates

- 2.1. Details of the revised quantum and use class for the potential employment land allocations comprising site reference numbers 0378, 0724, 0804 and 0845 have been provided by Medway Council. It is understood that this quantum will be used in the STA modelling exercise. The four sites collectively comprise the following floor areas:
 - B1(a) 5,350m²
 - ◆ B1(b) 5,350m²
 - B1(c) 28,520m²
 - ◆ B2 28,520m²
- 2.2. In the absence of the number of trips associated with the individual B1 use classes, the trip rates in Table 2.2 of Technical Note T1 have been used to calculate the two-way trips in the AM peak hour and PM peak hour and are summarised in Table 2.1.

Table 2.1 – Medway Council potential employment allocation site trips

Use Class	Floorspace	Two-way trips AM peak hour	Two-way trips PM peak hour	Two-way trips AM+PM peak hour
B1	39,220m ²	999	890	1,889
B2	28,520m ²	351	249	600
Total	67,740m ²	1,350	1,139	2,489



2.3. Table 2.2 confirms the trip rates that have been used and provides a combined trip rate for the employment land allocations based on the provided B1/B2 split.

Table 2.2 – Medway Council Traffic Modelling Trip Rates (per 100m²)

Use Class	Two-way trip rate AM peak hour	Two-way trip rate PM peak hour	Two-way trip rate AM+PM peak hour
B1	2.546	2.270	4.816
B2	1.232	0.872	2.104
Combined	1.993	1.681	3.674

3.0 TRICS Database Trip Rates

- 3.1. The proposed development in for innovation uses. Given the specific nature of the development, which may include laboratory space etc., the employment density is expected to be lower than for conventional office use. The current version of the TRICS database (v7.5.1) has therefore been interrogated to obtain representative trip rates for an Innovation Park.
- 3.2. The following criteria have been used when selecting appropriate sites from the database for the residential units:
 - Land Use 02/B Employment Business Park
 - Suburban, Edge of Town, Neighbourhood Centre sites over 50,000m²
 - Multi-modal weekday surveys from 2010 onwards
 - Only latest surveys included where a site has been re-surveyed
- 3.3. The database matched one site, CA-02-B-03 Cambridge Science Park. The Person Trip Rates and Vehicle Trip Rates for this site are summarised in Table 3.1 with the full output presented at the end of this technical note.

Table 3.1 - Cambridge Science Park Trip Rates from the TRICS Database

	,	AM peak hou	r	PM peak hour			
Per 100m²	Trip Rate In	Trip Rate Out	Two-way Trip Rate	Two-way Trip Rate	Trip Rate Out	Two-way Trip Rate	
Person Trip Rate	1.414	0.249	1.663	0.118	1.030	1.148	
Vehicle Trip Rate	0.903	0.112	1.015	0.036	0.590	0.626	

3.4. A comparison of the two-way vehicle trip rates presented in Tables 2.2 and 3.1 shows that the Cambridge Science Park trip rates are lower than the combined uses class trip rate for the employment site allocations. However, the relative accessibility of the sites via non-car modes of transport should be considered in order to provide greater confidence in the calculated trip rates.

4.0 Modal Split

4.1. The vast majority of the trip generation of the Innovation Park in the AM and PM peak hours will be related to staff journeys to and from work. The Journey to Work data from Census 2011 has therefore been used to determine the likely modal split for the Innovation Park in the peak hours.



4.2. The Mid Layer Super Output Areas used for this assessment are Medway 026, Medway 033 and Tonbridge and Malling 001. The areas covered are shown in Figure 4.1. The modal split for these areas are shown in Figures 4.2 to 4.4 respectively.

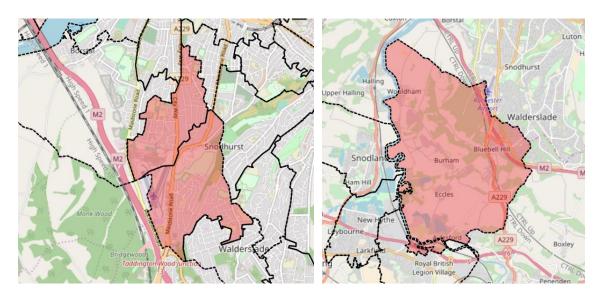


Figure 4.1 – Medway 026, Medway 033, and Tonbridge and Malling 001 Areas.

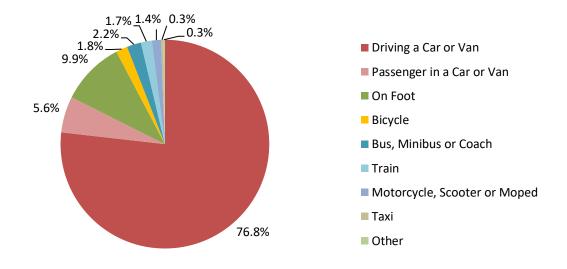


Figure 4.2 – Modal split of journeys to work (Workday population) for 'Medway 026'

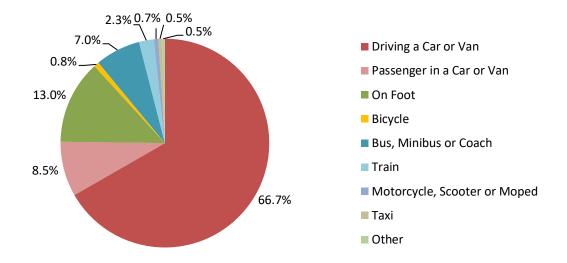


Figure 4.3 – Modal split of journeys to work (Workday population) for 'Medway 033'

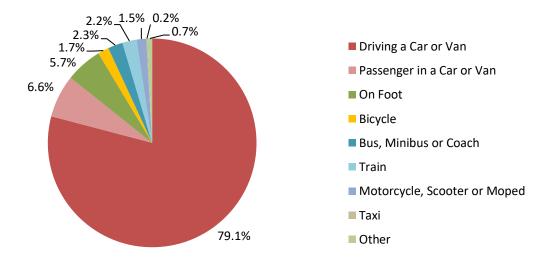


Figure 4.4 – Modal split of journeys to work (Workday population) for 'Tonbridge and Malling 001'

- 4.3. The Medway 033 area covers the existing Innovation Centre and commercial premises along Maidstone Road. This area has a higher proportion of journeys to work by bus, reflecting the presence of a frequent bus service along Maidstone Road. This area also has the lowest proportion of journeys to work by driving a car or van of the three areas considered.
- 4.4. For the purposes of establishing a mode share for trips to and from the Innovation Park in the peak hours it is considered appropriate to apply the modal split in Table 4.1. This assumes that journeys where the main mode of travel is by train will be completed by taxi or by a regular bus route serving the site. The implementation of a Travel Plan for the site will aim to further reduce the proportion of trips made by car.



Table 4.1 - Proposed modal split

Mode of Travel	Mode Share	Comments
Driving a car or van	64%	Based on 2011 Medway 033 share with allowance for mode shift to walking / cycling / bus
Passenger	8%	Based on 2011 Medway 033 share
On foot	13%	Based on Medway 033, plus allowance for potential increase due to new housing locally to the site
Bicycle	2%	Allowance for potential increase in existing mode share due to new housing locally
Bus, minibus or coach	11%	Based on Medway 033 share with allowance for potential service improvements and assumes completion of journeys where train is the main mode share
Motorcycle, scooter or moped	1%	Based on 2011 Medway share
Taxi	1%	Allowance for completion of journeys where train is the main mode share

5.0 Modified Innovation Park Trip Rates

5.1. The mode share for 'driving a car or van' and 'taxi' presented in Table 4.1 have been combined, in order to present a robust assessment, and a factor of 0.65 applied to the Science Park Person Trip Rates presented in Table 3.1 to obtain a modified Vehicle Trip Rate, as shown in Table 5.1. This trip rate is considered appropriate for the type of development proposed. The vehicle trip rates obtained are higher than the vehicle trip rates observed at Cambridge Science Park but lower than the trip rates applied to the B1/B2 employment site allocations.

Table 5.1 - Modified Vehicle Trip Rates based on modal split

Per 100m²		AM peak houi		PM peak hour			
	Trip Rate In	Trip Rate Out	Two-way Trip Rate	Two-way Trip Rate	Trip Rate Out	Two-way Trip Rate	
Vehicle Trip Rate	0.919	0.162	1.081	0.077	0.670	0.746	

6.0 Comparison of Vehicle Traffic Generation

6.1. Based on the employment allocation site trip rates presented in Table 2.2 and the Innovation Park trip rates presented in Table 5.1; Table 6.1 presents the amount of Innovation Park floorspace that would generate the equivalent volume of vehicle trips generated by the employment site allocations for combined peak hours and for solely the AM peak hour.

Table 6.1 – Equivalent development traffic generation

Equivalent floorspace	AM peak hour			PM peak hour			Both peak hours
	Trips In	Trips Out	Two- way	Trips In	Trips Out	Two- way	two-way trips
136,223m ² (based on AM/PM peak)	1,252	220	1,473	104	912	1,016	2,489
124,890m ² (based on AM peak)	1,148	202	1,350	96	836	932	2,282



- 6.2. An Innovation Park of 136,223m² floorspace is predicted to generate the same volume of vehicular traffic in the combined AM and PM peak hours as the B1/B2 employment site allocations using the given trip rates. Similarly, an Innovation Park of 124,890m² floorspace is predicted to generate the same volume of vehicular traffic in the AM peak hour as the B1/B2 employment site allocations.
- 6.3. This means that an Innovation Park of 101,000m² will generate less traffic than the combined 67,740m² B1/B2 employment allocation sites, as shown in Table 6.2. Comparing the calculated employment allocation sites' two-way traffic generation using the B1/B2 trip rates with that of a 101,000m² Innovation Park, the Innovation Park is estimated to generate 258 fewer two-way trips in the AM peak hour and 385 fewer two-way trips in the PM peak hour.

Table 6.2 – Development traffic generation comparison

Floorspace	AM peak hour			PM peak hour			Both peak hours
	Trips In	Trips Out	Two- way	Trips In	Trips Out	Two- way	two-way trips
67,740m ² B1/B2 allocation			1,350			1,139	2,489
101,000m ² Innovation Park	928	163	1,092	77	676	754	1,845
Difference			-258			-385	-643

7.0 Next Steps

7.1. The proposed trip rates are subject to agreement by Medway Council. The proposed development traffic from Innovation Park Medway will then be distributed onto the local road network using a traffic distribution based on Journey to Work Census data, to be agreed. The impact of the proposed development's vehicular traffic can then be considered for the junctions to be analysed as part of the Transport Assessment.

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