Appendix TA - D

HIGHWAYS ENGLAND CONSULTATION RESPONSES

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lighways England	TN2 Trip Distribution	Table 7.2	Car Commuting journey times for "Comparator" sites	The Bluewater figures do not add up to 100%	The table has been checked and is confirmed to be a minor rounding e
lighways England	TN2 Trip Distribution	Paragraph 7.3.4	Commuting Distances	The differences in commuting distances between London Resort and the existing Peninsula employment due to the Resort offering "more attractive" employment opportunities. More information should be provided to back up this assertion.	Volterra have provided a further assessment and technical note which opportunities.
lighways England lighways England	TN2 Trip Distribution	Section 6.3 and 6.4 Chapter 7	Visitor Distribution for RDE and Water Park Staff Journey to work Distribution	The report asset is that non-zero driving on visitors to the ADZ will assot withing other parts of the Resol of be staying on site. Similarly, for the Water Park, 65% of visits from 2029 onwards will come from visitors staying on site. Evidence should be provided to substantiate these numbers. The report estimates that 1800 employees will be accommodated on site. HE have yet to see details of the housing being provided on site, other than a headline figure of 500 units. This would suggest an average occupation of 3.6 employees per unit, which would seem high unless it is student style accommodation. In which case where would those who work on site but the rest of their families do not be living. And if those with such families are living on site, how are the 1,800 housed? Evidence should be provided to demonstrate that this will be successful. Should employees not wish to live on site, how will the accommodation space be used? Will it be turned into additional hotel space for example or will it be mothballed?	This information was provided by Profun - who are world leading exp The use of on site staff accommodation is a tried and tested method f It is envisaged that the units will be student housing type accommoda families will be utilising the on site staff accommodation. LRCH are preparing a worker / staff strategy that will detail where staf
lighways England	TN2 Trip Distribution	Table 5-1/ 5-2 and Table 5-14	UK Visitors distribution assumptions	over 120 minutes by car from the Resort will travel to and from the resort on the same day. HE remain unconvinced by the assumptions on overnight visitors and domestic tourism and HE in their opinion believe the distribution model should reflect the origins and destinations of visitors on their days of travel to and from the resort as this may give a different distribution overall HE would like to see a sensitivity test to examine whether a distribution based upon the day of travel to and from the resort would give a different O-D distribution using the proposed methodology. The report asserts that from 2029 onwards, 73% of visitors to the RDE will also be visiting other parts of the Resort or be staying on site.	Given the scale of the modelling provided to us for use, it is sensible to result in a significant change. WSP will provide a comparison between the UK home origin distribut explained further in the TA.
				One issue with the approach is that an assumption has been applied to visitors living more than 120 minutes from the resort by car. Adjustments have been made to reflect assumptions on the day of travel that 50% will later stay at a hotel within the Resort or within a one- hour drive. Further reduction to trips from the 120 minutes plus time band, with Paragraph 5.4.5 stating that on the day of travel 67% of the remaining half will reside at a hotel or other form of accommodation within 60 minutes of the Resort. This leaves 17% of UK visitors whose home is	LDP forecast 100% to stay overnight and we were robust to assume 5 their information, gathered from various existing sources and analyse
ighways England	TN1 Trip Generation	Appendix A	Trip Generation Validation	How do the hourly arrival and departure profiles compare to the equivalent TRICS profiles for non-cross visitation trips?	Please see comments above.
ighways England	TN1 Trip Generation		Servicing and deliveries	The report does not appear to provide information on servicing and deliveries	Servicing to the site will be undertaken primarily via river or off-peak l included in the assessed AM and PM peak hours. The submission will management.
ighways England	TN1 Trip Generation	Section 5.3	Staff Employee Numbers	The Staff employee numbers outlined in the report across the different day types and seasons, requires further information and justification	WSP will provide further explanation in the TA and supporting applica ProFun, who have expertise on understanding the staffing demand fo Highways England's Leisure / Resort experts if available.
lighways England	TN1 Trip Generation	Appendix A		produced for the resort as written in Paragraph 2.5.4 of the main report. Further information on single purpose trips and cross visitation is also provided in Sections 6.3 and 6.4 of the Trip Distribution report for example. Therefore, further work is required to apply cross visitation and internal trip assumptions for the resort to the TRICS evidence to validate the claim that the visitor numbers used for the corresponding features of the Resort are robust. We would also expect a significant number of trips to the RDE, Event, Water park and Hotels to be from customers travelling for a single purpose - not making cross visitations, which could be ascertained from a comparison against TRICS data. Additionally, we would like to see examples of different profiles for visitors in terms of the cross visitation, time spent on site vis a vis the arrival and departure profiles for different parts of the resort in the SATD report, and the proportion of visitors they represent. In the absence of suitable evidence enabling Highways England to accept all forecasts as robust, one solution may be to demonstrate that the daily and hourly arrival and departure forecasts will not be exceeded including any measures required to achieve this.	In the construct that more is able to accurately product the large's simply reflects the uniqueness of the proposals and that there is limit unsubstantiated assumptions. As can be expected, the cross visitation and visitor forecasts in a resor application of a singular percentage. The visitor information provided more appropriate than individual TRICS sites with or without any furt It is not considered appropriate or proportionate to undertake a furth comparable site within in that would allow for a comparison. No sites within the UK have the combination of travel options that is forecasts developed by the experts in these types of large scale world ProFun and LDP are both industry experts and have provided necessa assessment days. If Highways England have specialists in this field, th Furthermore, ProFun have now provided the required information to still apply despite land uses / SQM changes and the over-arching conc
				The conclusion in Appendix A is that the figures have not been adjusted to account for cross visitation or linked trips and although it makes no attempt to quantify them the validation concludes that the visitation numbers for the London Resort are robust. As it stands, the report leaves the reader with substantially different numbers of person arrivals and departures for the individual elements of the Resort and the TRICS evidence with only a brief written explanation for the differences. This is despite estimates of cross-visitation and internal trips being	TN1 proved that TRICS was not a suitable source for calculating the tr The TRICS information supplied was intended to provide a high level trip rates to some of the individual components of the London Resor This was completed in 2017 and as outlined in the Appendix it was ac potential of linked trips between services and therefore it is likely to since the analysis in 2017 and it was included to provide an indication It is not considered that TRICS is able to accurately predict the large s
ighways England	TN1 Trip Generation	Paragraph 2.3.1	Visitor and staff demand has been developed using commercially sensitive data and standard practices "to enable a robust estimate of the likely number of visitor footfall expected".	No further explanation is provided to how the forecasts were produced, therefore HE unable to ascertain whether the forecasts are indeed forecast. Therefore would require further information to support such assertions to be made available	Profun/ Volterra have provided further information on the backgrour commercial sensitivity the data remains at a high level. The profiles and analysis have been completed by industry experts ar Leisure and Theme Park industry.
ighways England	TN1 Trip Generation		The PM peak hour justification	HE would question whether a 1700-1800 PM evening peak should also be assessed as this is traditionally the evening peak	We will be assessing 1700-1800. Further information in the TA and TN1 will set out the demand profil may then be completed at a later date (post submission) if required.
		Section	Statement	Comment	Comment

ofile in the hours either side of the peak commuter periods. A sensitivity test ed.

round data used to calculate the visitor and staff demand profiles. Due to

s and any review or queries should be raised by equivalent experts in the

e trip generation for this unique development.

vel review of the potential trip generation that could occur if you were to apply sort.

s acknowledged that the individual land use have not taken in to account the to over-estimate the trip generation associated. The proposals have changed tion of the likely trips should an alternative methodology is applied.

ge scale multi use developments such as an international leisure resort. This imited comparable data that can be used without applying numerous

esort such as the proposals is not a simple exercise or the result of an ded by ProFun and LDP is based on existing theme parks and is considered further adjustments.

further review of TRICS at this stage, as the TRICS database does not have a

It is available for The London Resort and it is considered appropriate to use the orld leading entertainment sites.

essary data to profile visitors and staff throughout the various years and I, then they would be happy to discuss directly as well. n to support the Back of house, RD&E and hotel elements. Principles of the TN conclusion will not change

plication material. This will be based on the information provided to us by d for large entertainment resorts. We would welcome comments from

eak between 19:00-07:00 of after 10:00-16:00, These are therefore not will include a operations management strategy setting out the proposed

ne 50%. This is determined and based on where the visitors live. This is based on lysed be their world renowned team.

ble to assume appropriate time bandings and any adjustments are unlikely to

ibution vs the final day of travel distribution. This will be summarised and

experts in this field.

nod for large scale resorts and theme parks. nodation aimed at the more junior members of staff. It is not expected that

staff will be sourced from and how the uptake of this housing will be managed.

hich supports the attractiveness of the London Resort employment

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Highways England	TN2 Trip Distribution	Staff Distribution	Clarification is still required regarding the means that staff are able to access the site and the percentage of each; for example between main A2 access and local road network.	The staff will access the site in the same way as visitors. There will als
Highways England	TN2 Trip Distribution	Visitor split between Kent or Essex entrances	Clarification is required regarding the assumed split between the propensity of visitors to use either the Kent or Essex entrances. While advance ticketing may assist in managing numbers how will the Resort ensure that, for example, Tilbury does not becomes overwhelmed and hence drivers either abort their visit or then have to drive additional SRN miles to the Kent entrance.	The split between 25% north and 75% south, was based on home orig will likely be more from south of the river, however Ticketing and eve parks will be built out in a phased approach that aligns with the dema
Highways England	TN3 Mode Share	Mode Share Methodology	HE stated that travel costs and times should be taken into consideration for different travel modes from different locations in order to validate any mode share proposed for the Resort. This is the conventional transport modelling approach for assessing mode shares and would be used, for example, when looking at the attractiveness of a new public transport service. It can equally be used for establishing mode choice to a new location such as London Resort using private and slow modes or public transport as all origins and destinations are known and travel costs and time information can be readily established. Proportionately, the larger the transport scheme (or private development considering mode choice) the greater the need to use a more analytical and robust approach (mode choice model based upon travel times and costs as described above).	It is acknowledged that a traditional modelling approach typically incl development is not a typical attraction. There is a lack of evidence for a cost of travel approach for a leisure us sensitive as commuters for example, as the visit will not be a frequent Further information on costs and resulting impacts are shown in the r TN4 has looked at the sensitivity of users to mode shift from various of Alongside this, the Events Management and Ticketing Strategy will sel modes, this could be measures such as subsidising the cost of Public T TN4 will provide further information that looks at the range of public ranges will be used to provide an indication of the likely demand on v shares will be variable dependent not only on day type, but also other sustainable tickets). LRCH will manage the staff of the Resort, and combined with the Trav
Highways England	TN3 Mode Share	Mode Share Methodology	Firstly, the approach does not consider visitors (or employees) who may travel by car and park locally or close to an existing public transport service for their final trip to the Resort. Presently, there is parking capacity at Ebbsfleet international station and free on street parking in Dartford and Gravesham with adequate opportunities for arrival at the Resort by taxi, rail or bus (or potentially walking) for the last leg of the journey. Any such trips should also be included within an assessment of demand impacts.	The Offsite Parking Strategy document sets out an approach to monit recorded. This includes discussions with the team and management a parks at those locations do have approval for the corresponding level underutilised resources if these can managed appropriately. The Offs Parking Zones (CPZ) in the areas Dartford/ Gravesham could also be re The users parking at Bluewater are likely to be a linked trip and alread primarily. The associated modelling should assume that there is limite City etc. It should also be noted that commuters will be parked before
Highways England	TN3 Mode Share	Mode Share Methodology	Secondly, the approach does not consider the financial cost and journey times by different modes to reach the Resort. This is particularly relevant as there are unlikely to be many individuals visitors to the Resort. The mode share assessment has assumed a car occupancy factor of 3 for visitors. Any mode share calculation should consider the public transport costs and door to door journey times for a party of three compared to the use of three or more people in the same car from home without any need to access public transport services and stations, interchange and waiting times. Choices regarding mode of transport are likely to be affected by the geographical origin of the party and their age. For example, a group of late teens/early twenties living in central London and being part of the Oyster Generation may well choose to travel by public transport. That same group living in the London suburbs may find it cheaper, quicker and more convenient to travel by car.	The Future Mobility team is undertaking a further review of mode shi outline the range of potential mode shares that could be adopted by
Highways England	TN3 Mode Share	London Private Car Mode Share	 HE also have concerns about the methodology for selecting the car mode share percentages for visitor arrivals from London. The methodology is primarily based upon Great Britain Day Visitor statistics, seemingly with some validation by comparison to Census Journey to Work data for trips within, into and out of London which needs further clarification (see below). The Great Britain Day Visitor statistics for 2015 reveal the car mode share for trips to London attractions is 37% (Tables 5-1 and 5-2). The 37% of arrivals by car also excludes additional arrivals by taxi meaning the actual number of arrivals by car is higher. The 2019 equivalent data (Table 5-3) shows car travel at 32% or 38% depending upon length of stay or type of tourist trip. These figures do not include taxi travel which would increase the totals to 36% or 42%. Based upon this data, a mode share by London residents for arrival at London Resort has been assumed to be 32% (Table 5-4). HE would question the appropriateness of a blanket car mode share for locations across London particularly given the large distribution of trips to and from London by visitors and the overall demand expected at the Resort. Car mode share for trips to the Resort will vary from Borough to Borough due to differences in competing modes, costs and travel times. Using a blanket factor for the Resort for London may lead to incorrect model assignment of the demand and incorrect impact assessment. Again. conventional mode share modelling prior to assignment would overcome this. In assuming a mode share of 32% to London Resort from London Residents assumes that the site has equivalent accessibility as the tourist attractions where the surveys were undertaken. London resort is considered essentially to be located within London. This is obviously not the case. Although the site has excellent connections with London via Ebbsfleet international and there are regional rail services via Swanscombe, Dartford and Gravesend to London, The are	Further information and analysis on the London mode share, includin TN3 - Section 5.4.

I also be limited access off London Road

origin distribution, not the day of travel. There is a potential that day of travel d event management strategies will manage the car park capacities. The car lemands from visitors as set out in TN1 and TN3.

includes travel costs and times to assist various mode uptake, however, the

re use / international venue such as the proposals. Users will be less cost uent occurrence.

he relevant updates in TN4 – Current and Future Mobility. bus distributions.

Il set out how the site will consider measures to improve attractiveness of olic Transport for visitors.

blic mode shares, based on some factors, including cost elasticities. These on various mode shares to access the site. This acknowledges that the mode ther factors, including ticketing and cost incentivisation (such as promotion of

Travel Plans, this will allow control over movements and mode choice.

onitor parking and implement necessary measures if impacts are being ent at Bluewater and at Ebbsfleet station (HS1). It should be noted that the car evel of trips associated with those car parks and therefore it makes sense to use Offsite Parking Strategy also sets out that consideration of the use of Control be reviewed.

ready part of that demand. The Ebbsfleet parking is used for commuting mited or no spare capacity in terms of parking due to the build out of Garden efore London Resort visitors arrive.

e shift potential, including cost elements. This will be presented and used to I by visitors to London Resort.

uding disaggregation by Inner and Outer London Boroughs has been provided in

ige for staff is a standard operation and demo anagement policy will outline the use of park ol staff vehicle usage.
iscussions with HE if there is a viable alternat
e Rail Team are reviewing this.
rs have been checked and updated where ne to account cross visitation and linked trips ac
eady take account of the cross visitation
I the arrival and departure profiles based on i include trips within the traditional commute tesort. As noted above, a 17:00 - 18:00 hour v strategy, being developed by leading special es that will control visitor flows. The numbers thour. Visitors will be made aware (e.g. throup ples departure profile.
which takes this into account. An adjustment or transit time.

emonstrates LRCH's commitment to promoting non-vehicular modes to all staff parking. The Staff Travel Plan, will set out management techniques and initiatives

rnative provided.

necessary. The arrival and departure profiles have been provided by individual s across the Resort.

on industry data. The other land uses, such as RDE and Events have arrival and nuter peak periods. This is considered appropriate and reflective of the likely user our will be assessed.

ecialists that have experience of managing large scale events, will set out ibers set out reflect that LRCH will implement strategies to run events etc to through real time information) on external network congestion and hotspots

nent, shifting profiles by half an hour and a peak half hour to take into account

ent TN and ticketing management strategy. Measures to review impacts are set