**Y11 EE Literature Review Summary** (*to work on each week before the first Reflection Session on 7 May. Submit on ManageBac by 4 May*)

**Student’s Name Form EE Subject EE Supervisor**

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| Abraham Cheung | 11B | Geography | Mr. Victor Lam |

**Drafted Research Question**

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| What is the relationship between the distribution of parking spaces and traffic congestion in urban areas of Hong Kong? |

**Record details of at least one Research Source/Article you have found *each week* in relation to your drafted RQ**

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| **Week** | **Name of source/article**  *Provide a reference/link* | **Summary of source’s contents**  *How could this help you to construct an argument?* | **Validity/reliability/credibility of source**  *e.g. supporting evidence? potential bias?* |
| 1 (w/c 15 Mar) | https://www.hk2030plus.hk/document/Transport%20Infrastructure%20and%20Traffic%20Review\_Eng.pdf | This article illustrates the general traffic network of Hong Kong, including Mass Transit Railways, buses and minibuses. It also describes the spatial distribution of the population and gives reason on why traffic congestion is an important aspect of daily lives. | Made by the Government of the SAR, which is rather reliable |
| 2 (w/c 22 Mar) | https://www.thb.gov.hk/eng/boards/transport/land/Full\_Eng\_C\_cover.pdf | This is a comprehensive list of potential traffic problems on a broad scale, illustrating that the increased car ownership and the inability to construct new roads have all contributed to the worsening traffic. | Made by the Government of the SAR, but it may be a bit outdated (Dec 2014) |
| 3 (w/c 29 Mar) | https://www.td.gov.hk/filemanager/en/content\_1180/parkingstatistics06.pdf | A breakdown of the temporal and spatial variation in vehicular traffic and distribution, for example, a higher probability of vans to cruise/circle around streets in search for parking spots, worsening the traffic. | Made by the Transport Department, which should be very experienced in traffic-related matters. However, it has been widely criticised for their unwillingness to mitigating issues in the long-run. |
| 4 (w/c 5 Apr) | https://resource.data.one.gov.hk/ogcio/carpark/Parking\_Vacancy\_Data\_Specification.pdf | A piece of documentation that will help me better understand how to retrieve car park information via the government’s API, and to facilitate the development of prototypes for secondary data collection. | Made by the Government of the SAR which is backed by several private companies. There may be slight latency issues or potentially wrong information, but the probability of it happening seems to be rather low as there are positive responses among other communities. |
| 5 (w/c 12 Apr) | https://hub.hku.hk/bitstream/10722/71021/1/content.pdf | This article describes methods in which traffic flow could be monitored accurately, as adopted by the Annual Traffic Census performed by the Transport Department. | Researchers are from the University in Hong Kong, which are highly experienced in dealing with local-specific congestion issues. Methods employed within this study are also heavily curated to suit the needs of traffic monitoring in Hong Kong. |
| 6 (w/c 19 Apr) | https://doi.org/10.1016/j.scs.2020.102126 | A study on how different types of land uses can affect the efficiency of car parks, which in turn cause traffic problems locally and how it can extend to main trunk roads. | Article is published via sciencedirect, which is peer-reviewed and has a very high reputation among researchers. |
| 7 (w/c 26 Apr) | https://www.hindawi.com/journals/jat/2019/5793027/ | A comprehensive study on how the price of parking spaces can influence whether a driver chooses to illegally park in the streets, causing traffic congestion to build up (a predominant issue in Kwun Tong, the targeted study area in this RQ) | Published via the Journal of Advanced Transportation, which is a dedicated institution for traffic-related matters. The publisher also has an excellent reputation and a low acceptance rate, meaning articles submitted are thoroughly reviewed. |
| 8 (w/c 3 May) | https://www.matec-conferences.org/articles/matecconf/pdf/2018/40/matecconf\_istsdc2017\_06008.pdf | Outlines how the capacity of on-street parking spaces can influence the road’s performance. | Although images seem to be unclear, which makes it seem less professional or reliable, it gives a deep sense of insight as to the data collection methods and the justification of choosing the correct study area. |

**Complete before the Reflection Session on 7 May: Is there sufficient material on your RQ? Has your RQ needed to be adapted; why?**

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| I believe that there are sufficient reliable materials to support my RQ, as road management and traffic management is considered to be a major field in engineering. |