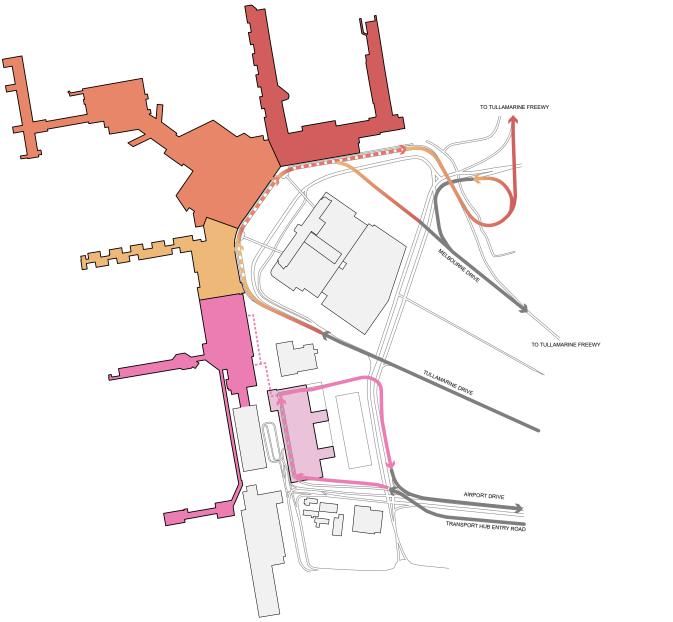
# TASK 01

# **AIRPORT STUDY**



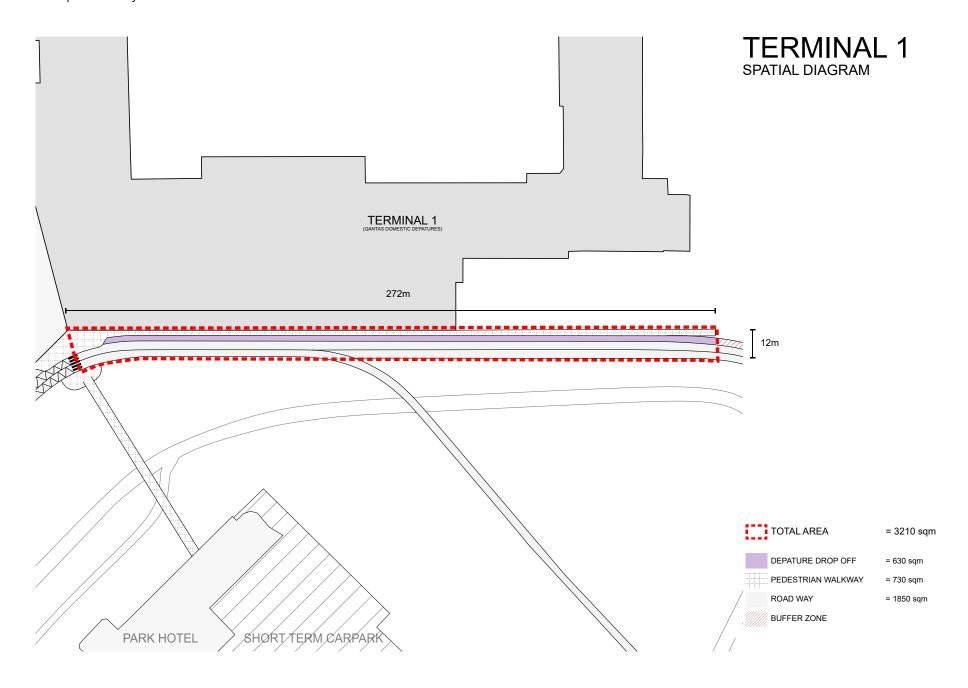
TASK 01 // Airport Study

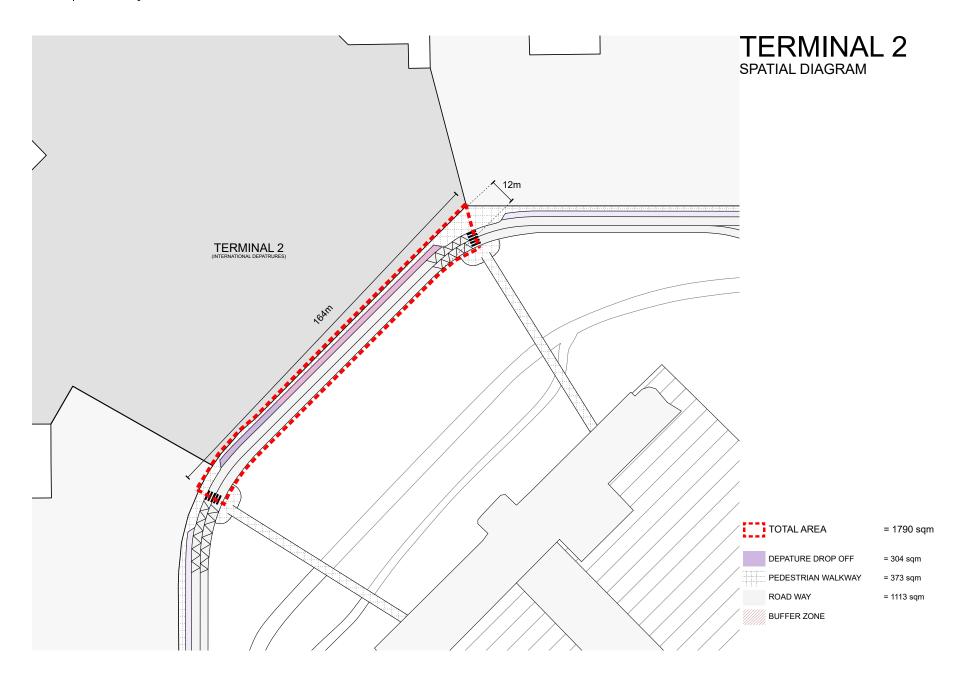


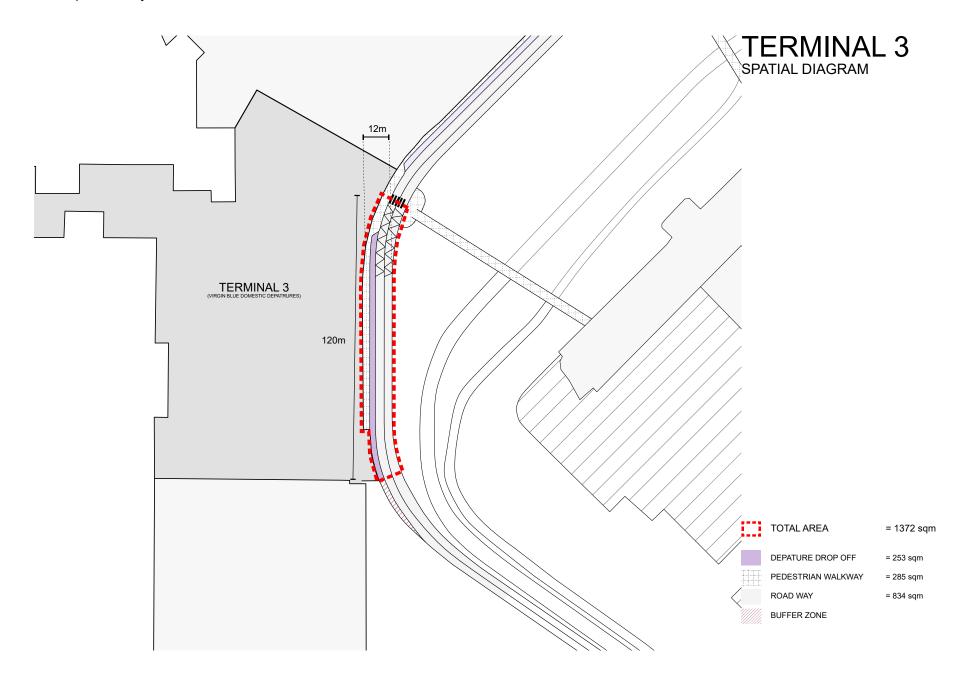


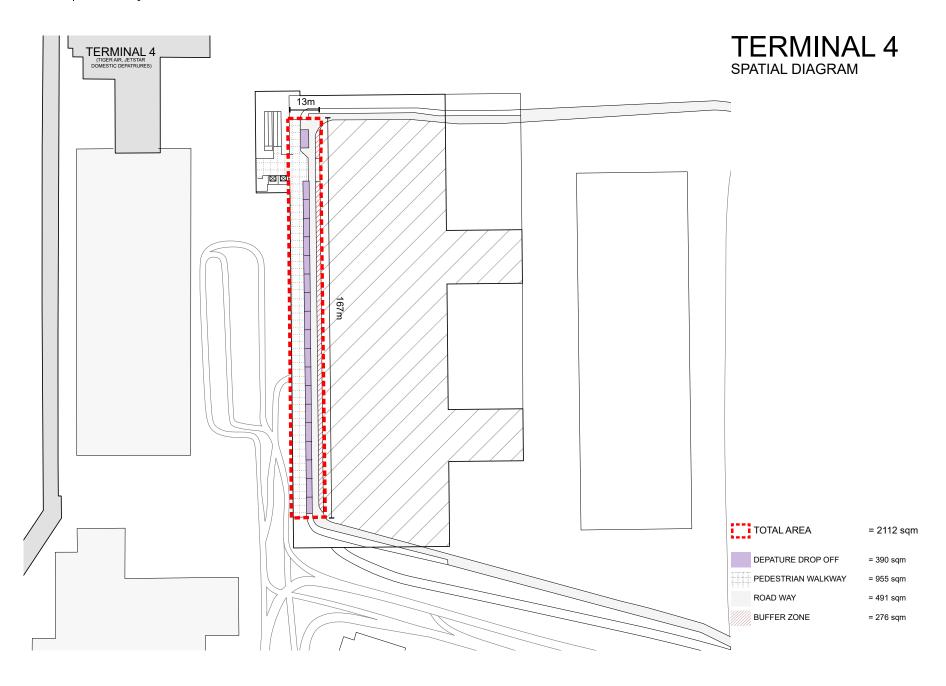
# TERMINAL 1 - 4 DEPARTURE CIRCULATION

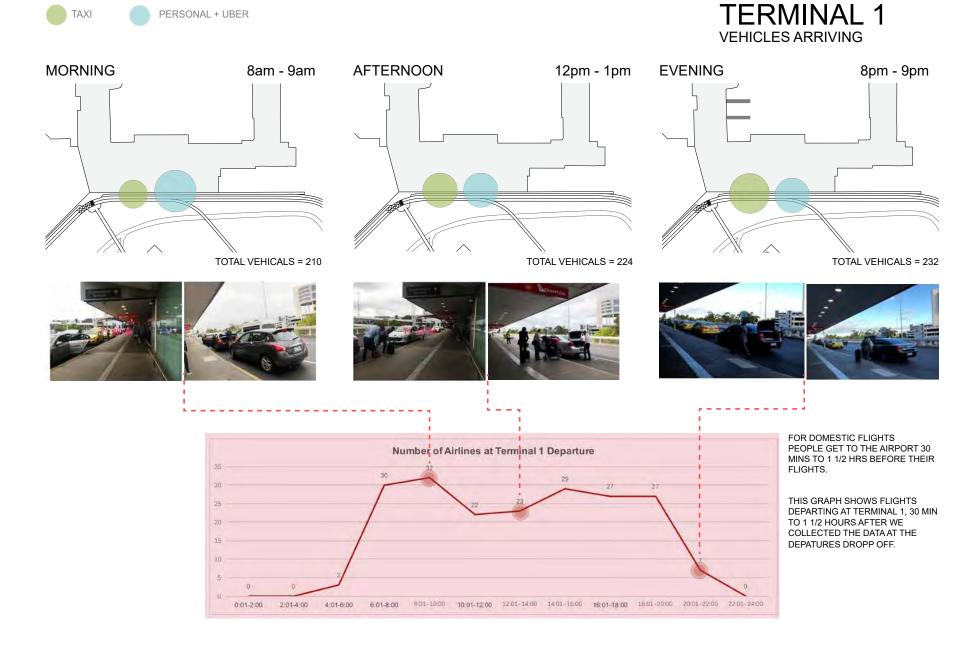


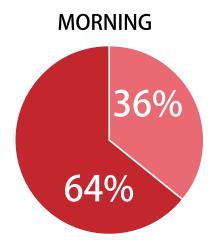


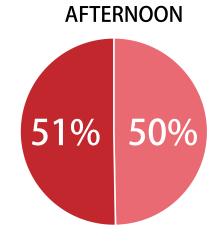


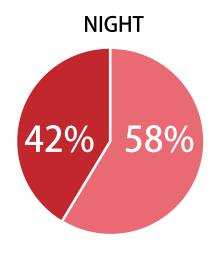




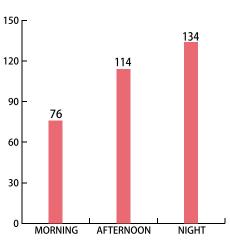


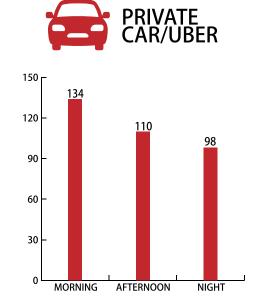














MORNING	60	79	32	<b>4 6</b>
AFTERNOON	46	102	J <sub>1</sub> JJ <sub>1</sub> JJ <sub>24</sub>	<b>U, W, W, U, U</b> 7
NIGHT	76	57	40	9



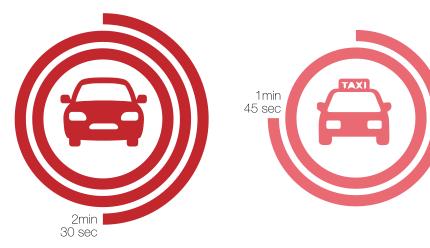
Telling cars to MOVE ALONG if they parked for too long

Answering QUESTIONS for lost





# HOW LONG ARE PEOPLE STAYING?





NO QUEUE as there was excess parking provided past the terminal doors, so spill over moved forward

### WHAT IS THE SPACE USED FOR?









Drop Off



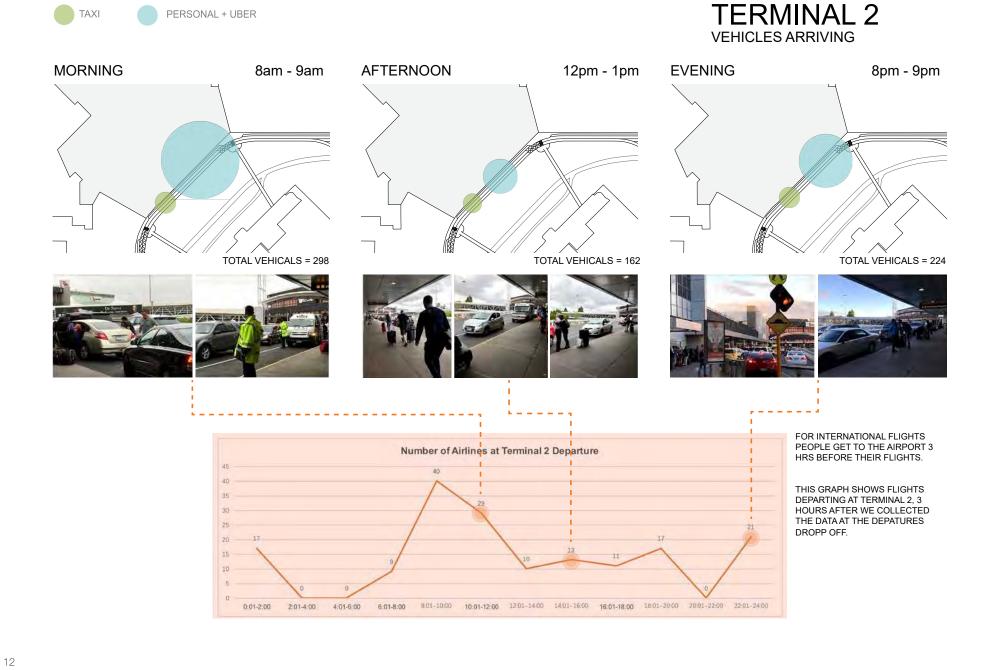
Trolleys

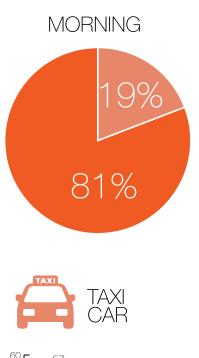


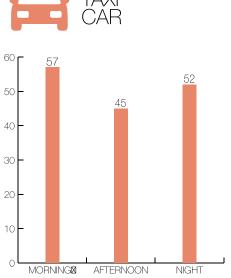


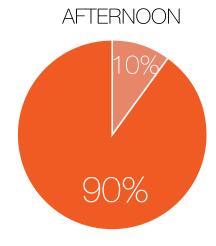
Walking

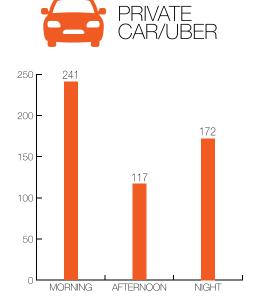
Saying Goodbye

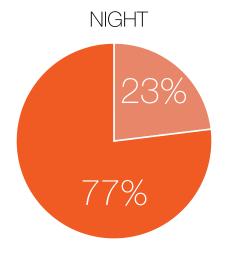














MORNING	54		112		121		+ 11
AFTERNOON	48	<u>, Ш</u> ,	55	Ш,	57		2
NIGHT	47		79		93		5



5 ushers in the MORNING

1 all other times

VITAL in during PEAK hours to push on traffic and maximise the number of cars in the SPACE

Cars needed ogranising



# HOW LONG ARE PEOPLE STAYING?







#### WHAT IS THE SPACE USED FOR?









Drop Off



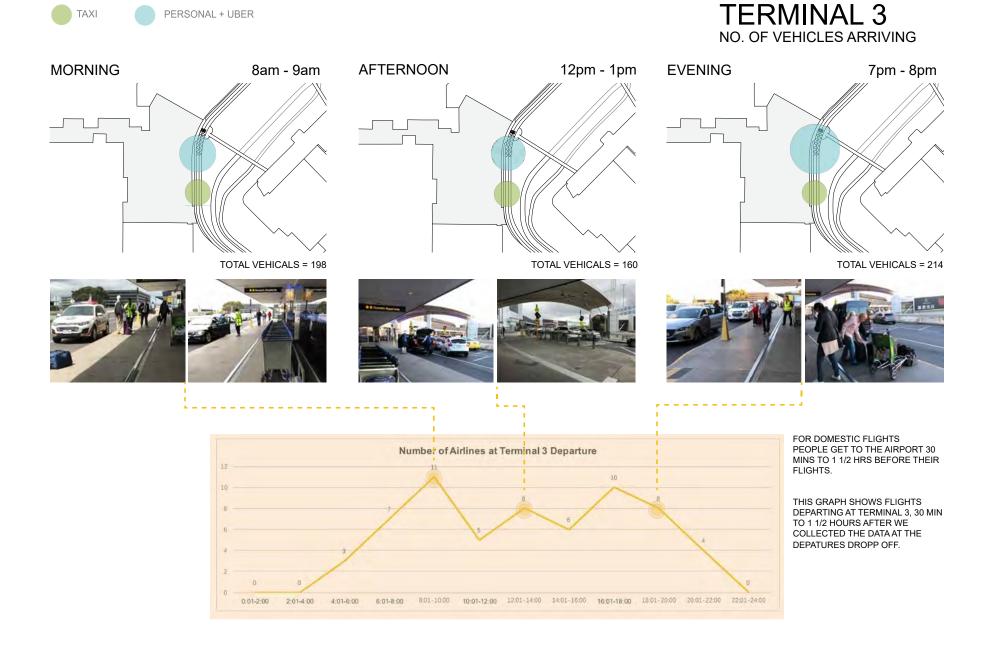


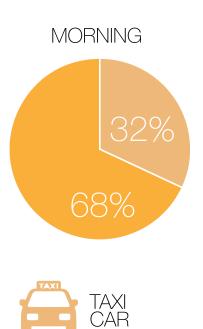


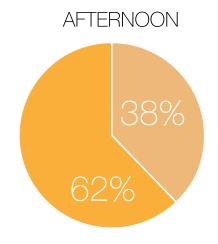
Trolleys Parking Pay

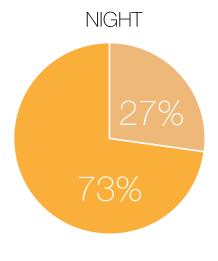
Walking

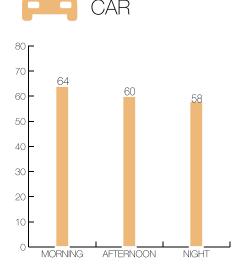
Saying Goodbye

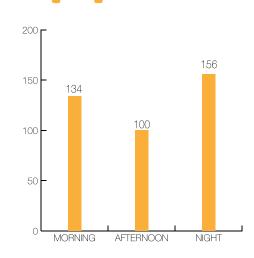












PRIVATE CAR/UBER



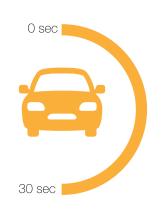
T3 DATA

MORNING	100	54	32	+ 12
AFTERNOON	70	48	J, III, III, II <sub>26</sub>	16
NIGHT	80	66	44	17



Cars in the QUEUE seen to be waiting for T2

# HOW LONG ARE PEOPLE STAYING?





### WHAT IS THE SPACE USED FOR?











Trolleys



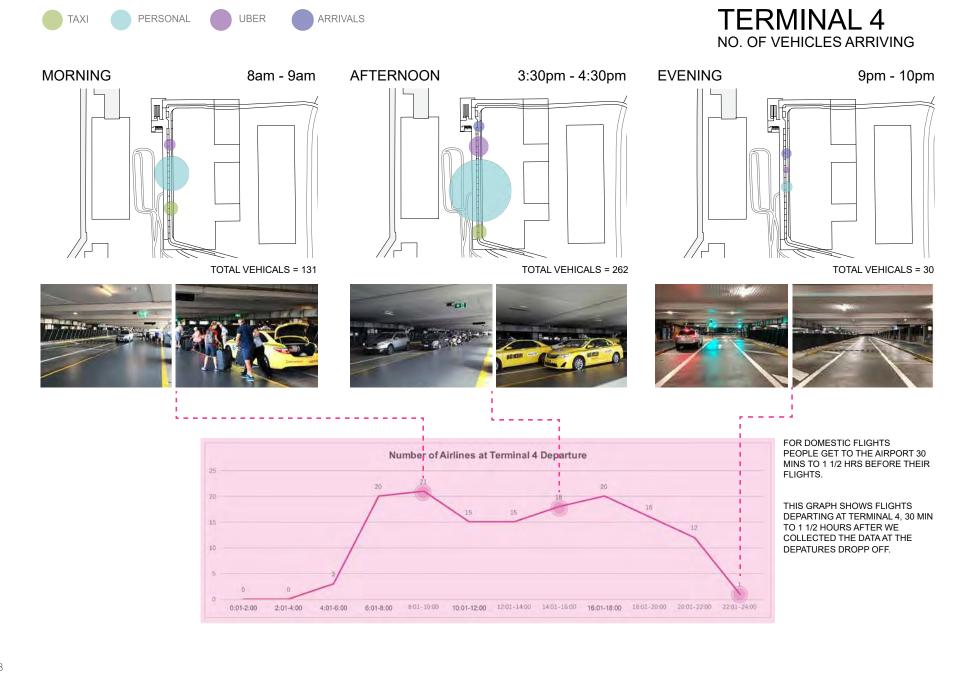


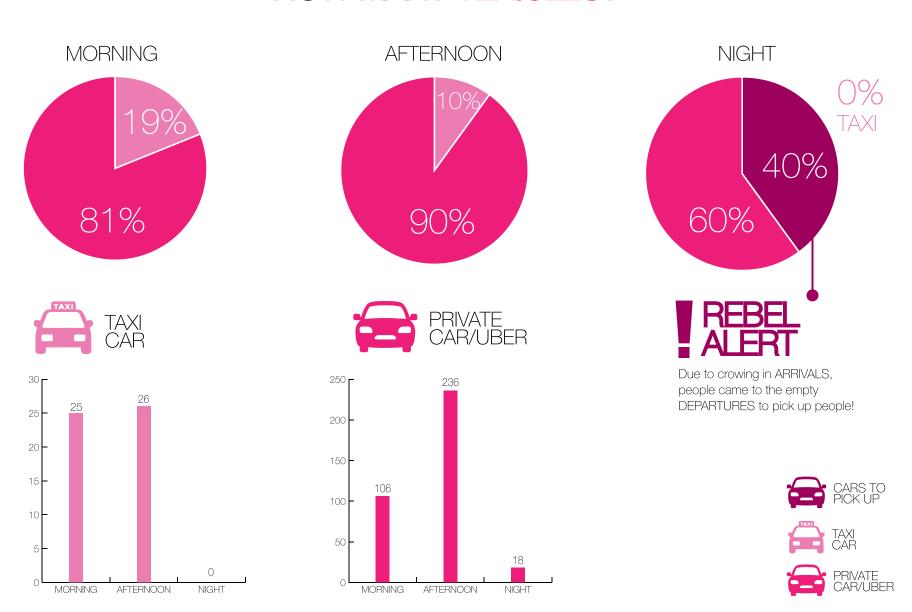


Parking Pay

Walking

Saying Goodbye





MORNING	36		43		9		<b>+</b> 8
AFTERNOON	151	J, W,	82	$U_{i}U_{i}$	18	J , <b>W</b> , <b>W</b> , L	8
NIGHT	12		3		1		1



Ushers came in and out randomly at T4 - appearing to have no need to organise the cars

Purpose: to check everything is OK

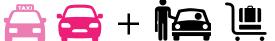




# WHAT IS THE SPACE USED FOR?















Drop Off

Trolleys

Walking Saying Goodbye

#### IN OFF PEAK TIMES...



An UNEEDED QUEUE was formed behind cars tht parked in spot midway - despite front spots being free

#### HOW LONG ARE PEOPLE STAYING?







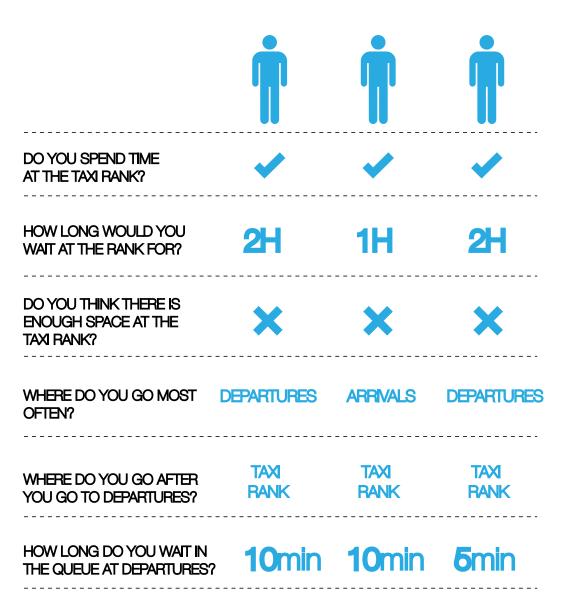


#### IN PEAK TIMES...



Up to 3-5 people waiting in the QUEUE at peak times

# WHAT DO THE TAXI DRIVERS THINK?







# **SUMMARY**

	TOTAL DROP OFF TOTAL PEDESTRIAI TOTAL ROAD	N	= 1577 sqm = 2341 sqm = 4288 sqm	TOTAL TAXI TOTAL PERSONAL + UB	ER	= =	711 1622				
TERMINAL 4	DROP OFF AREA PEDESTRIAN AREA ROAD AREA TOTAL AREA	= = =	390 sqm 955 sqm 491 sqm <b>2112 sqm</b>	NO. TAXI NO. PERSONAL NO. UBER TOTAL VEHICLES	= = =	51 302 58 <b>411</b>		TOTAL PEOPLE	=	607	
TERMINAL 3	DROP OFF AREA PEDESTRIAN AREA ROAD AREA TOTAL AREA	= =	253 sqm 283 sqm 834 sqm <b>1372 sqm</b>	NO. TAXI NO. PERSONAL + UBER TOTAL VEHICLES	= =	182 390 <b>572</b>		TOTAL PEOPLE	=	1072	
TERMINAL 2	DROP OFF AREA PEDESTRIAN AREA ROAD AREA TOTAL AREA	= = =	304 sqm 373 sqm 1113 sqm <b>1790 sqm</b>	NO. TAXI NO. PERSONAL + UBER TOTAL VEHICLES	= =	154 530 <b>684</b>		TOTAL PEOPLE	=	1526	
TERMINAL 1	DROP OFF AREA PEDESTRIAN AREA ROAD AREA TOTAL AREA	= = =	630 sqm 730 sqm 1850 sqm <b>3210 sqm</b>	NO. TAXI NO. PERSONAL + UBER TOTAL VEHICLES	= =	324 342 <b>666</b>		TOTAL PEOPLE	=	1034	

# **FUTURE ASSUMPTIONS**

#### Scenario 1: if all automatic vehicles are public owned or owned by big companies

- The airport don't need short-term or long-term parking spaces for passengers but there need places for the automatic vehicles to circulate from departure to arrivals or other parts of the airport.
- Drop off and traffic flow will be quicker and the drop off zones could be used more efficiently compared to human drivers, especially for the two domestic terminals.

# Scenario 2: if there are mix of privately-owned automatic vehicles and public/commercial automatic vehicles

- The demand of parking spaces, particularly long term will decrease as people can just send their automatic vehicles home.
- The drop off process will be quicker as they do not have to interact and complete the transaction with the drivers. The whole traveling process would be even faster with the integration of luggage check-in on board of the automatic vehicles and automatic bag-drop.

