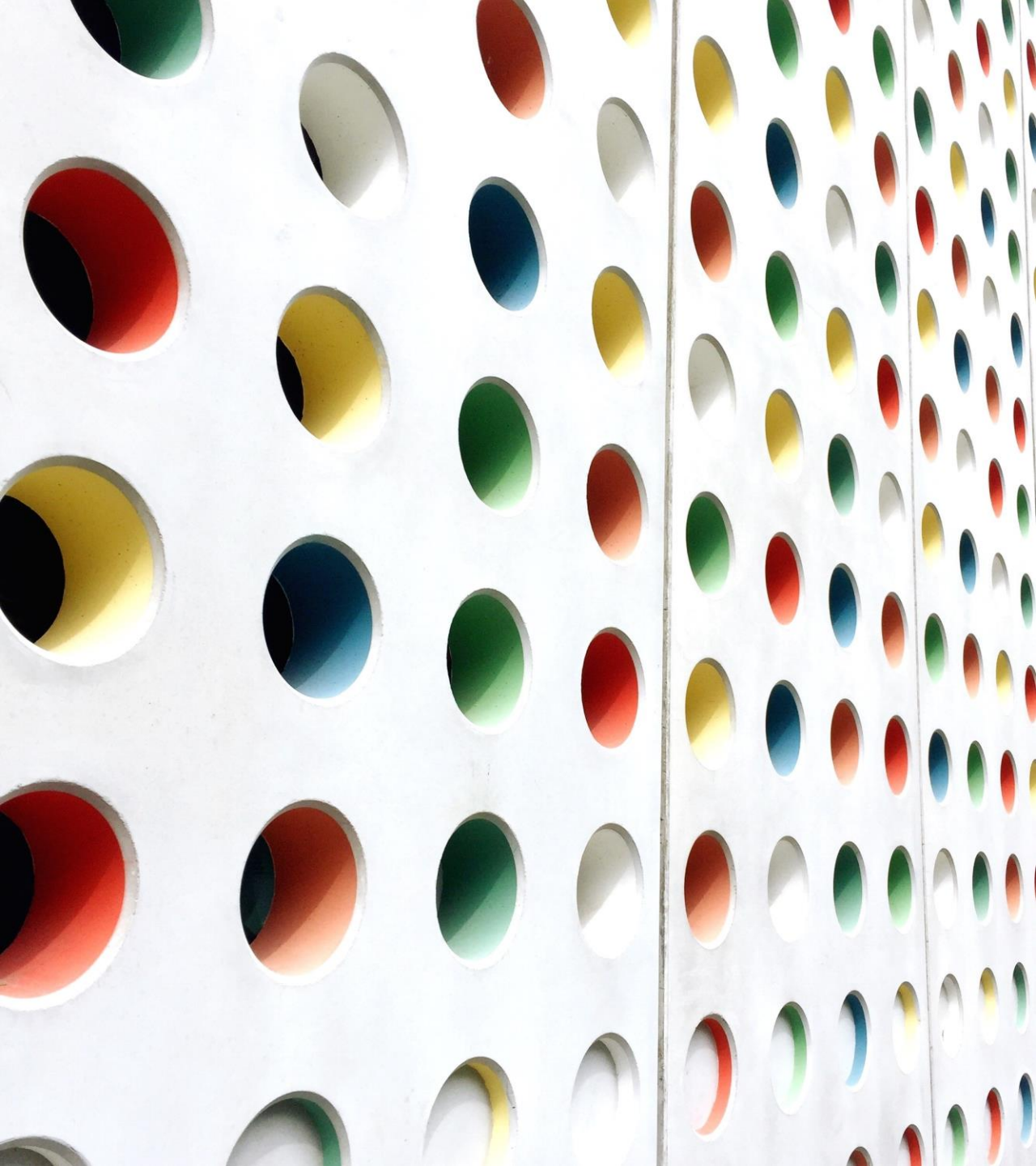




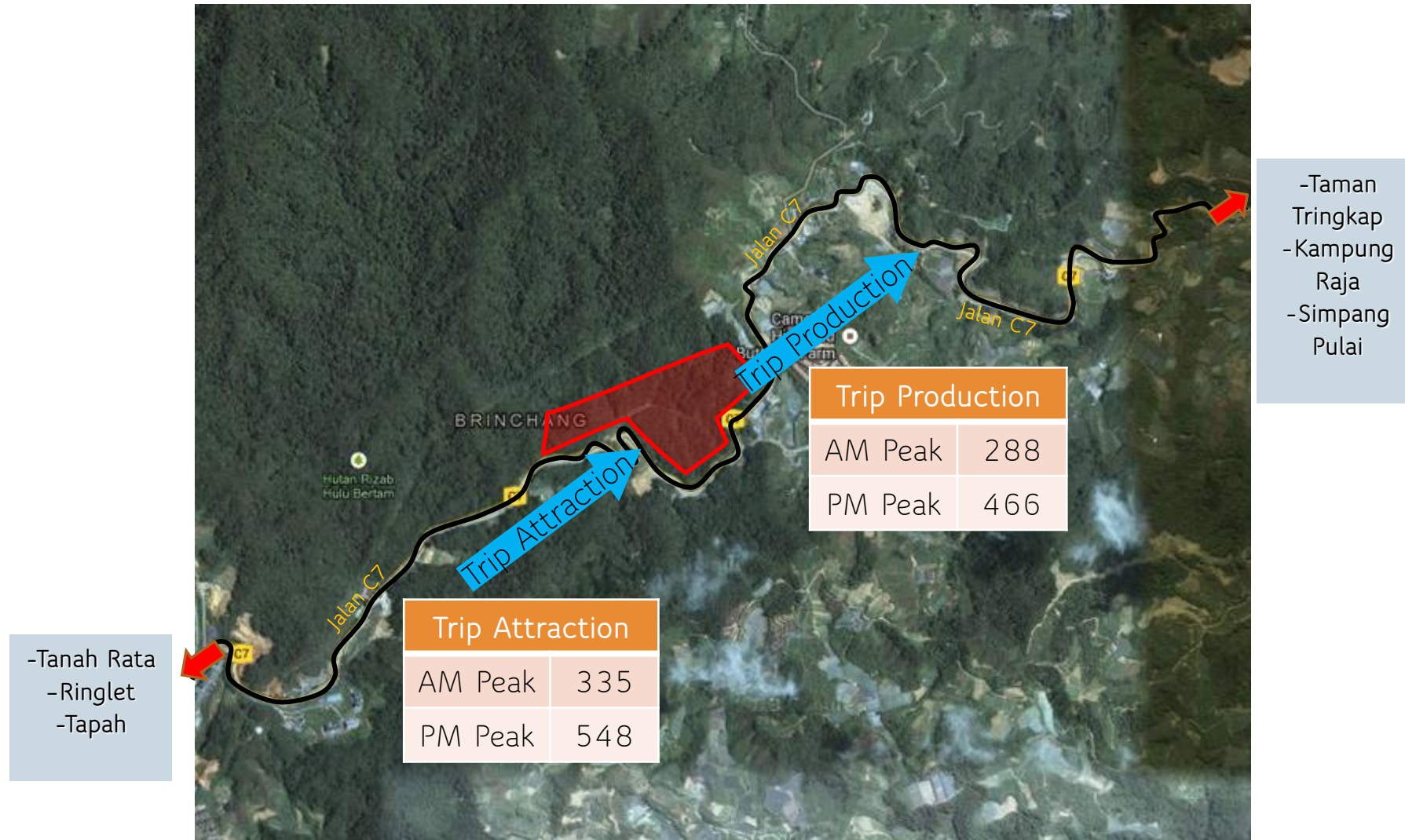
Trip ASSIGNMENT

Ir ASIAH ISMAIL
BAHAGIAN KEJURUTERAAN TRAFIK
CAWANGAN JALAN
JKR MALAYSIA
(09 FEBRUARY 2021)

What is Trip Assignment?

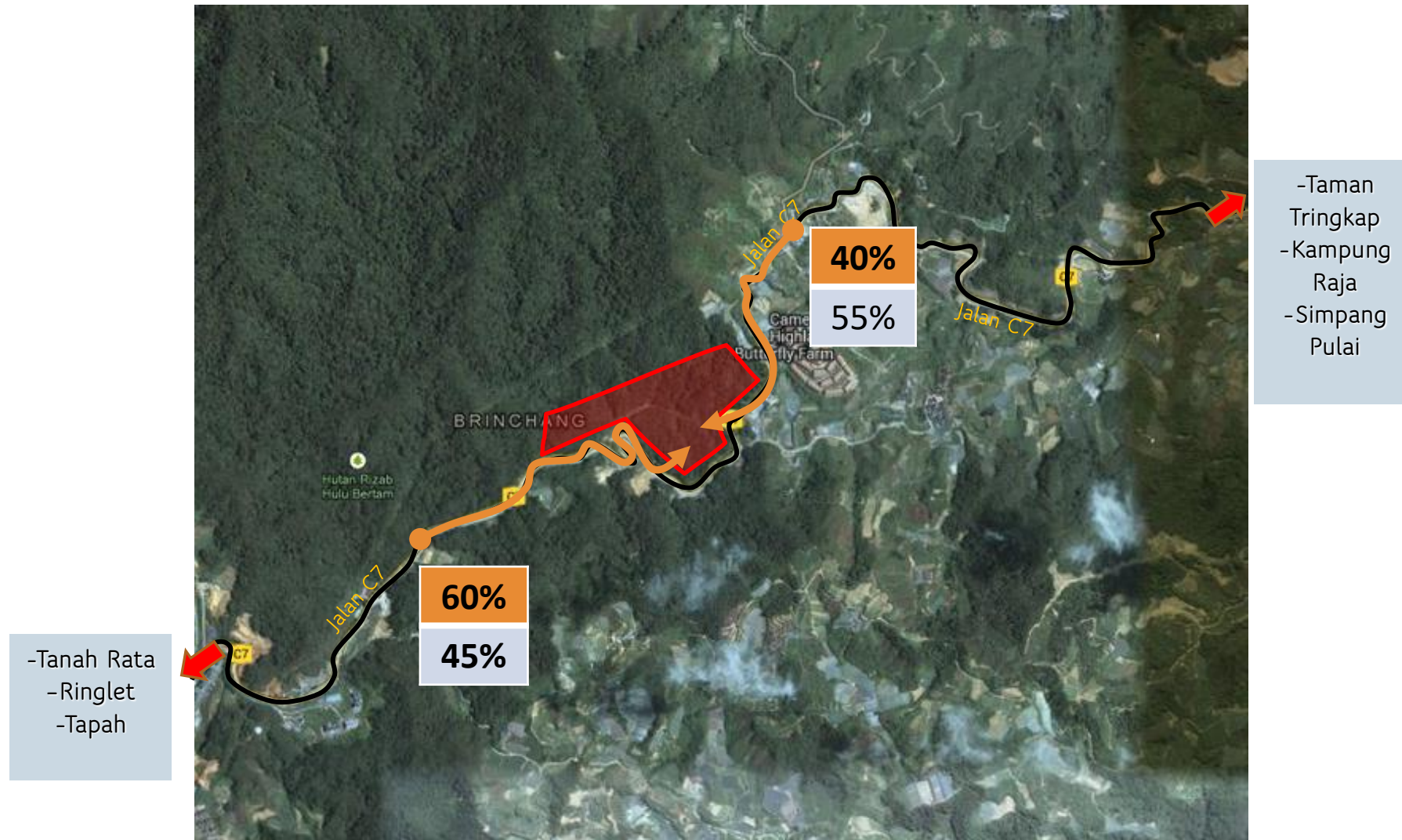
- Trip Generation
- Trip Distribution
- Now, assigned to the road network system to analyse their impact on the roads and intersections
- Based on:
 - The distribution of traffic around the study area will remain similar in the future.
 - shortest route available to reach their destination.
 - entry and exit points that are provided for the proposed development

Example 1



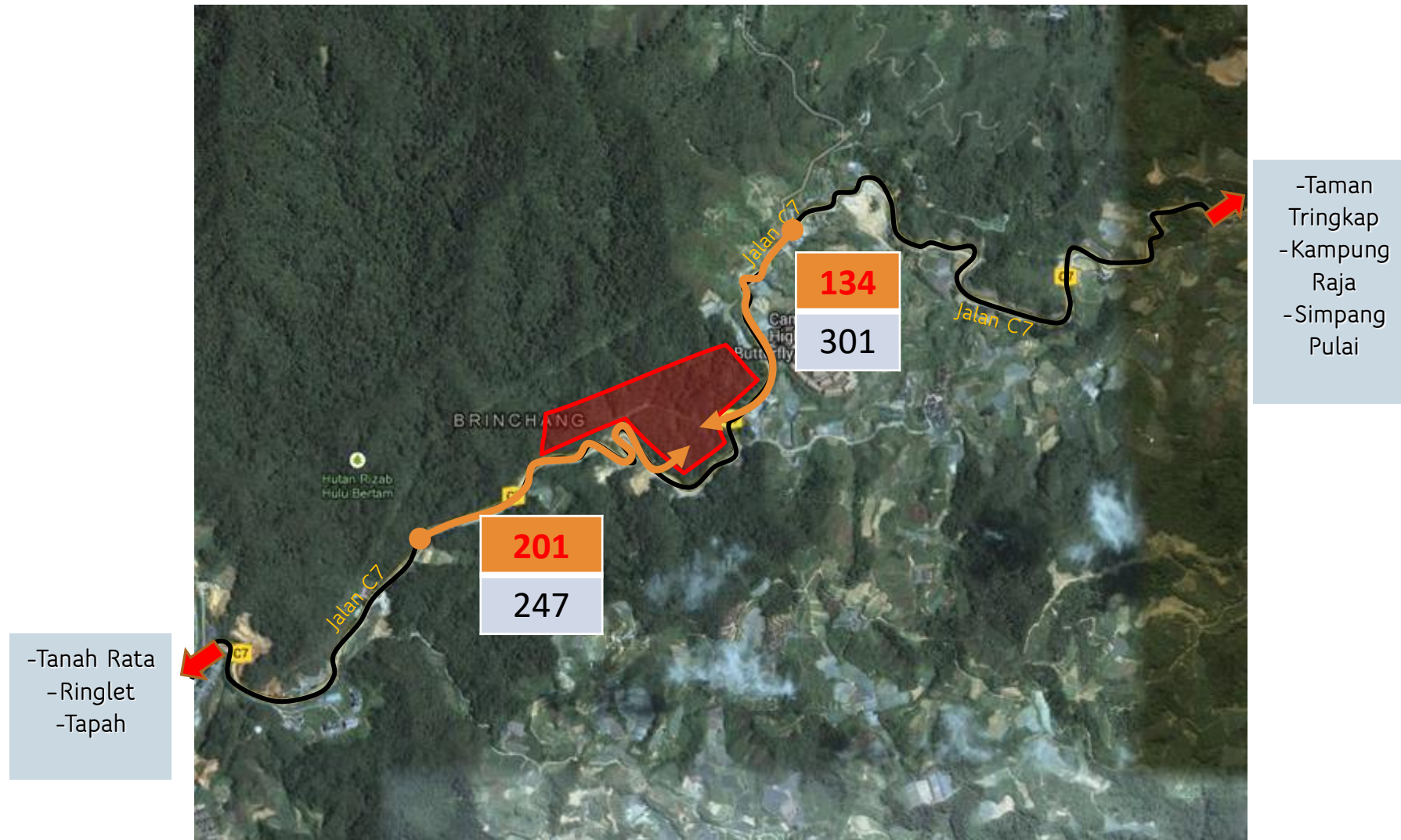
TRIP GENERATION BY THE PROPOSED DEVELOPMENT

Example 1



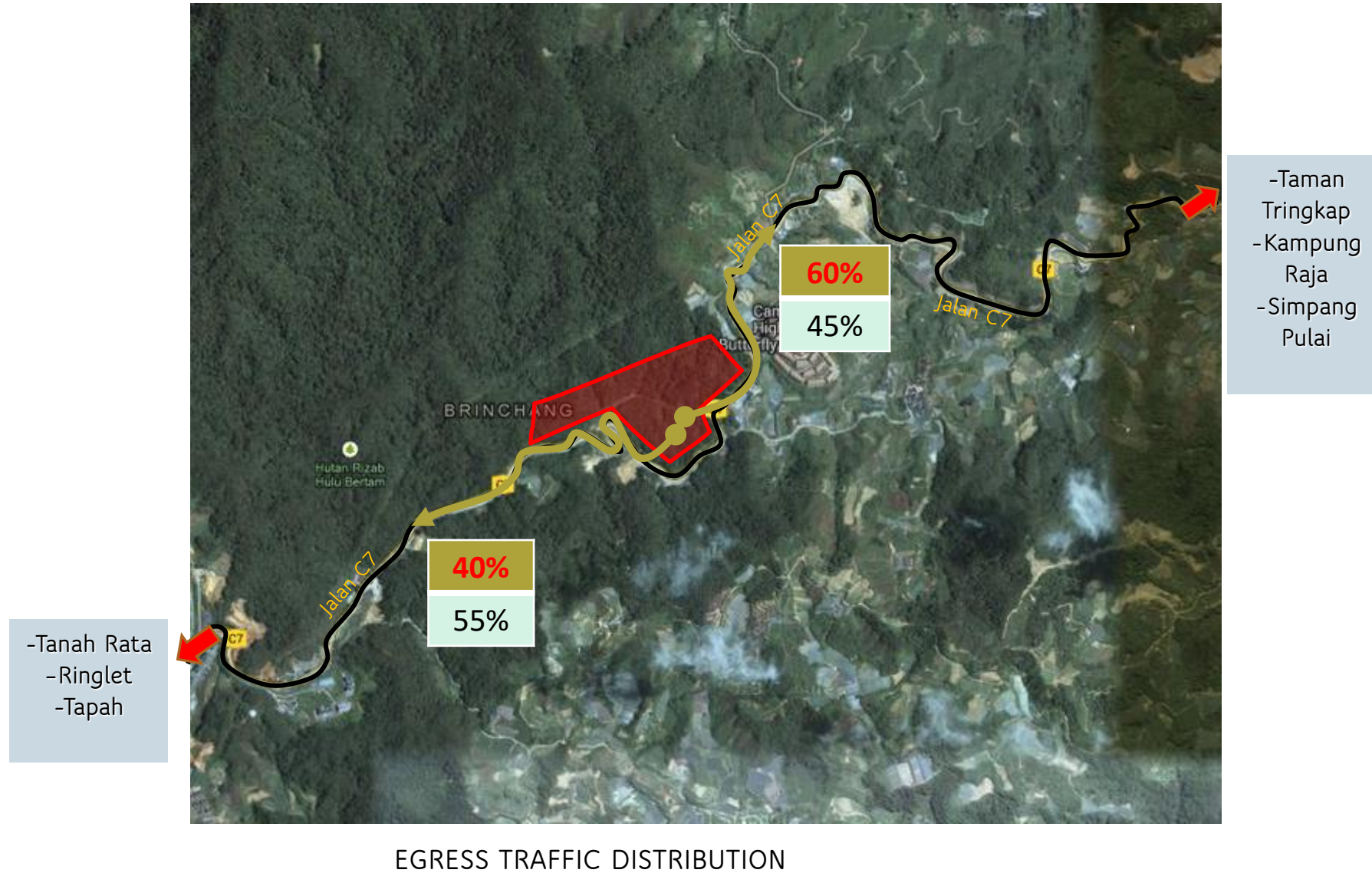
INGRESS TRAFFIC DISTRIBUTION

Example 1

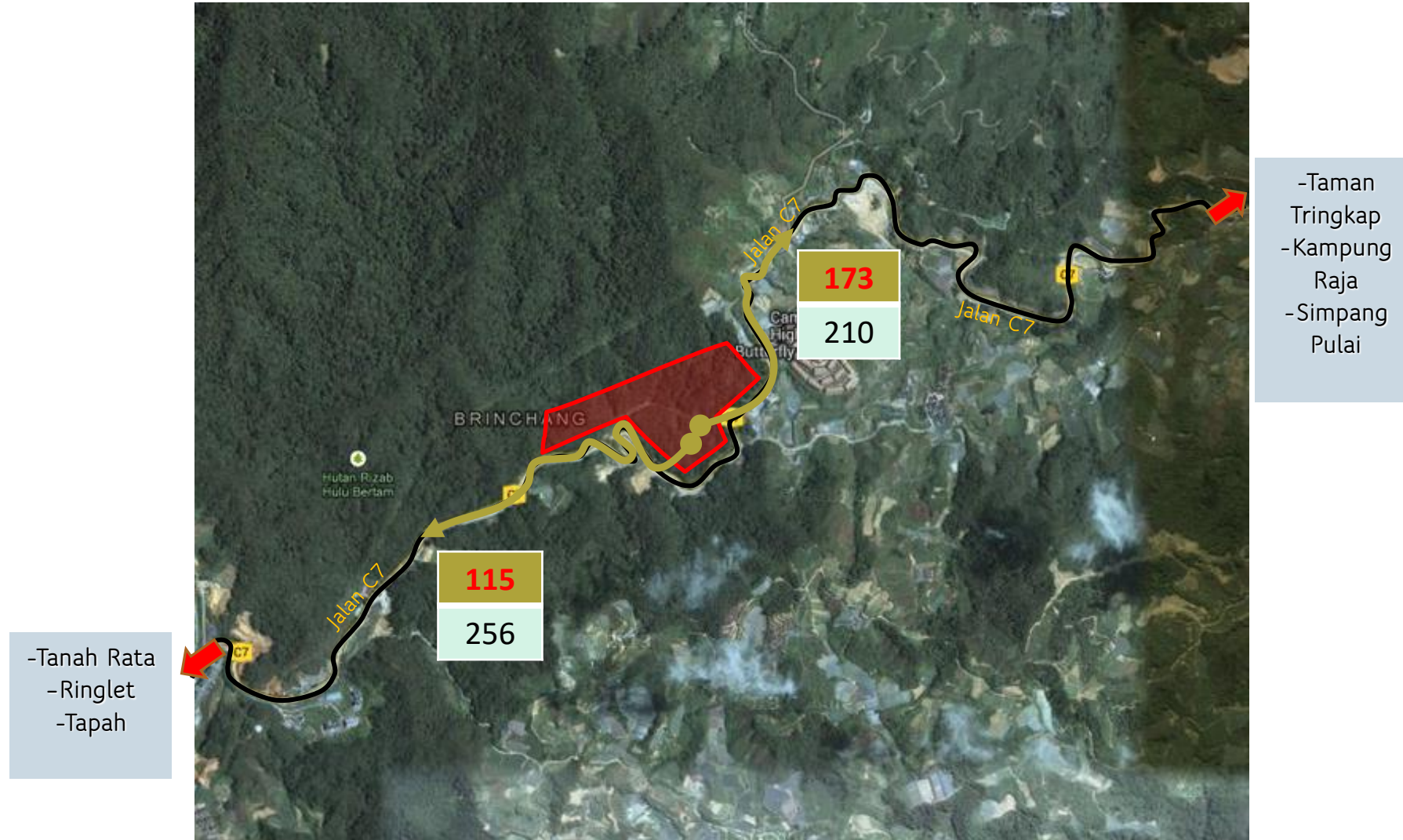


INGRESS TRIP ASSIGNMENT

Example 1

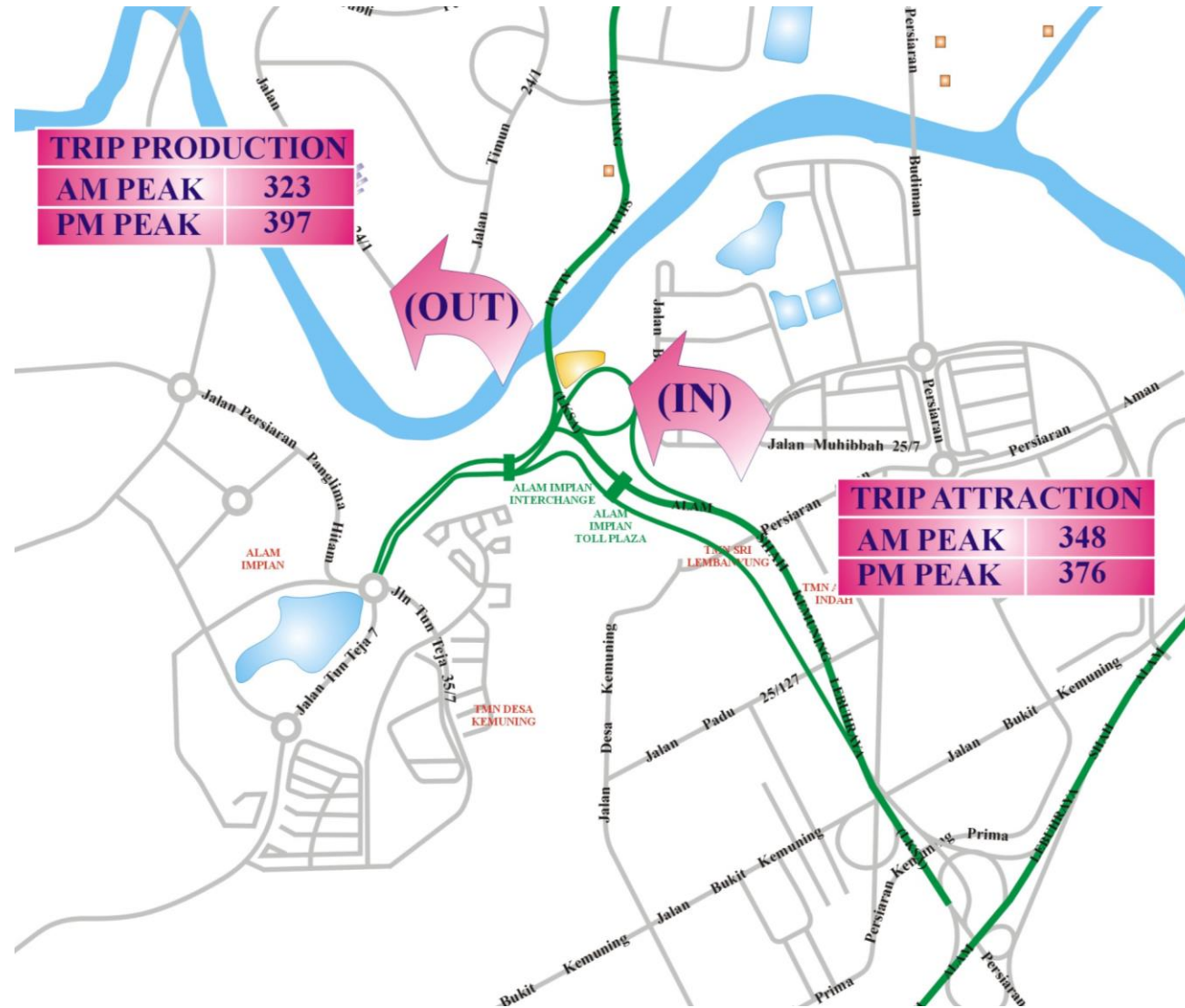


Example 1



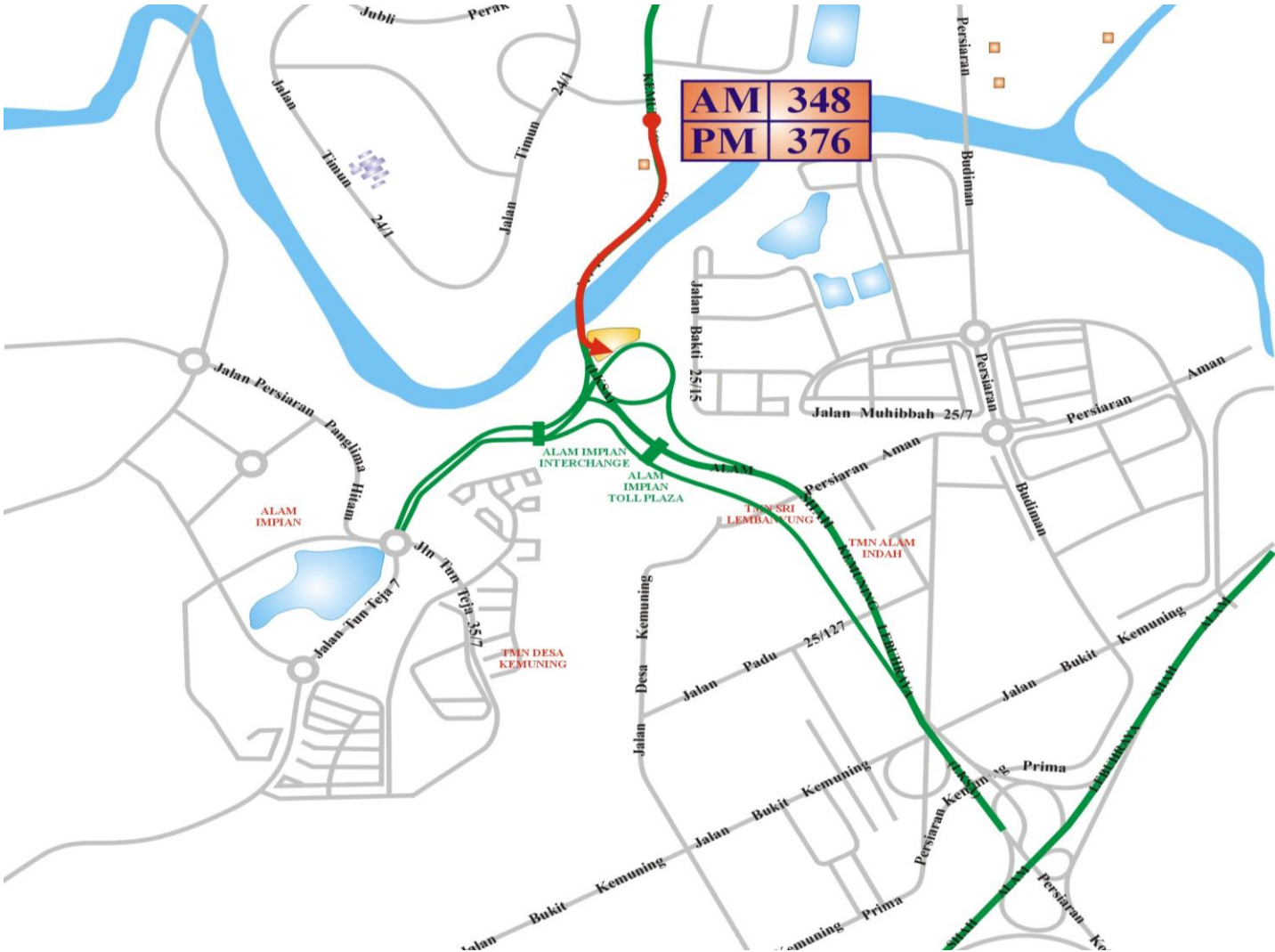
EGRESS TRIP ASSIGNMENT

Example 2



[illegible]

Example 2



INGRESS TRAFFIC ASSIGNMENT

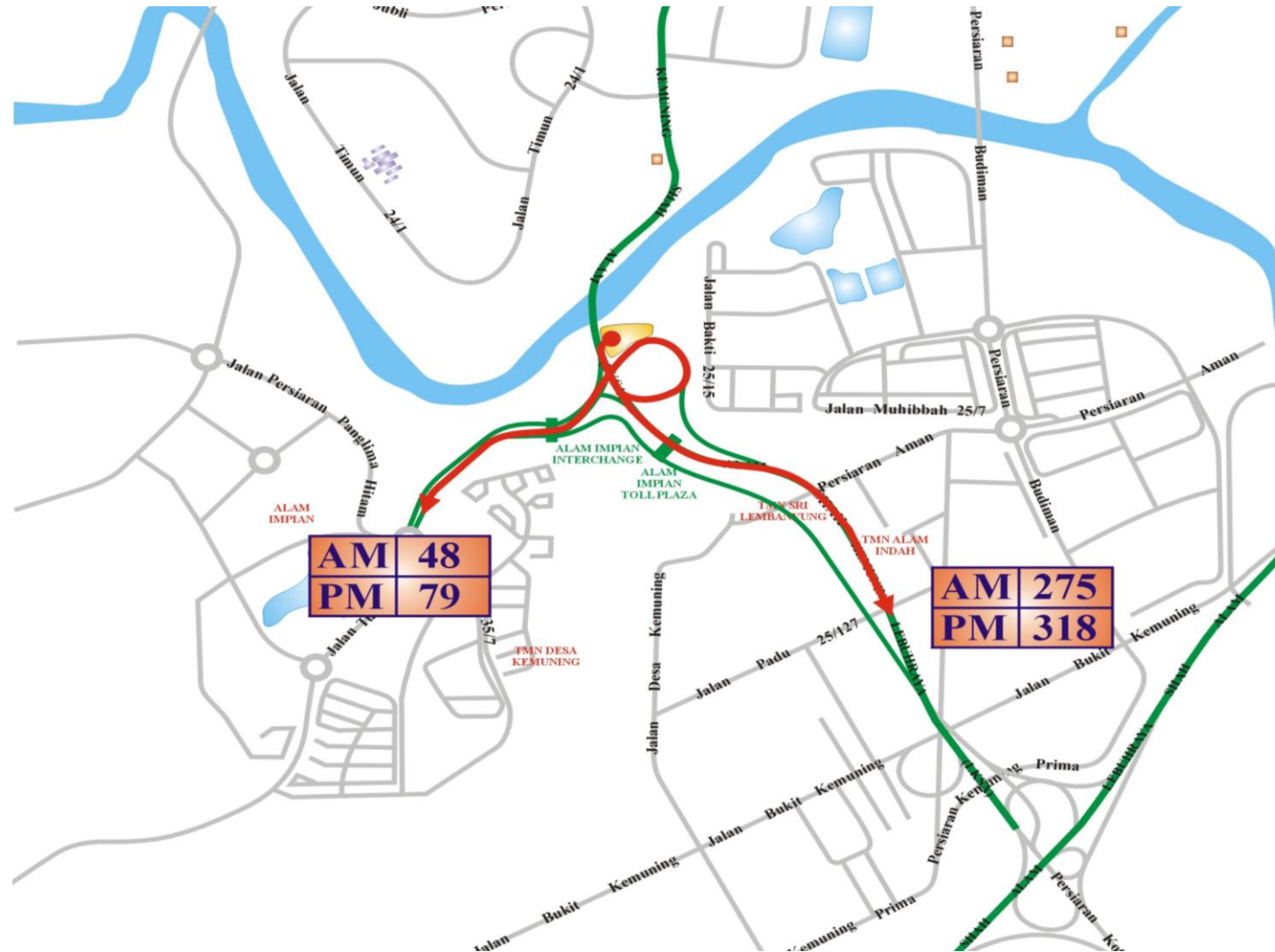
The map illustrates the Alam Implan Interchange and surrounding roads. Two data boxes provide traffic volume percentages for the AM and PM peak periods:

Direction	Percentage
AM	15%
PM	20%

Direction	Percentage
AM	85%
PM	80%

EGRESS TRAFFIC DISTRIBUTION

EGRESS TRAFFIC ASSIGNMENT





EXERCISE

1

INFORMATION GIVEN:

1

Table 2.1: Detail of Development Component

Development Component	Gross Floor Area, GFA (m ²)
A. Clinics	10,374.50
B. Clinical Support Services	2,375.00
C. Training & Education	832.00
D. Non-Clinical Support Services	981.10
E. Support Services	304.00
F. Shared Clinical	16.00
G. Public Amenities	2,250.00
Circulation (30%)	5,139.78
M & E (10%)	1,727.62
Total	24,000.00

INFORMATION GIVEN:

② Annual Traffic Growth Rate :1.5%

③ **Table 4.1: Trip Generation Rates by HPU, Malaysia 2010**

Land Use	Time	Trip Rates	PCU Factor	Trip Distribution (%)	
				In	Out
Polyclinic / Government Health Centre / Clinic	AM	6.79 per TSF	0.80	74	26
	PM	2.33 per TSF	0.80	17	83
Office	AM	1.54 per TSF	0.81	71	29
	PM	1.43 per TSF	0.86	33	67

Note : TSF = Thousand Square Feet

INFORMATION GIVEN:

4

Table 4.2: Peak Hour Development Traffic

Land Use	GFA (m ²)	AM Peak Hour (pcu/hr)			PM Peak Hour (pcu/hr)		
		In	Out	Total	In	Out	Total
Clinic	12,749.50	551	194	745	43	212	255
Office & Non-clinic	11,250.50	107	44	151	49	100	149
Total	24,000.00	658	238	896	92	312	404

Note : GFA = Gross Floor Area

