

RESEARCHER MEETING

ROUTE CHOICES OF FREIGHT DRIVERS' PRECEPTION IN JAVA ISLAND (TOL AND NON TOL)











HERAWATI & IRAWATI YOUNG RESEARCHER OF MULTIMODAL TRANSPORT

OUTLINE

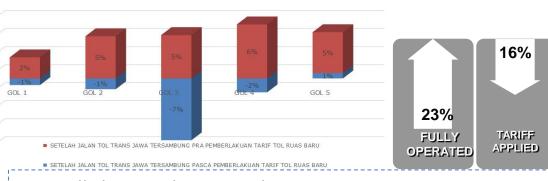


1	BACKGROUND OF STUDY
2	PURPOSES OF STUDY
3	METHODOLOGY
4	RESULT AND DISCUSSION
5	CONCLUSION AND RECOMENDATION

BACKGROUND

LALULINTAS HARIAN RATA-RATA





Toll charge Jakarta-Surabaya = Rp **1.380.000** Atau **Rp 1.800/km** (Source by BPJT Regulation)

EXPENSIVE

No	Toll Road	Length (km)	Investor
1	Cikopo-Palimanan	116	PT Lintas Marga Sedaya
2	Kanci-Pejagan)*	35	PT Semesta Marga Raya
3	Pejagan-Pemalang	57,5	PT Pejagan Pemalang Tol Road
4	Pemalang-Batang	39	PT Pemalang Batang Tol Road
5	Semarang-Batang	75	PT Marga Setiapuritama
6	Semarang-Solo	75,7	PT Trans Marga Jateng
7	Solo-Ngawi)**	90,1	Kerjasama Pemerintah-Swasta (PPP)
8	Ngawi-Kertosono)**	87,02	Kerjasama Pemerintah-Swasta (PPP)
9	Kertosono-Mojokerto	40,5	PT Marga Hanurata Intrinsic
10	Surabaya-Mojokerto	36,27	PT Marga Nujyasumo Agung
	Jumlah	652,09	





Saving travel time by 30 percent or earlier by at 5 hours than traveling time required to cover the same distance via national road

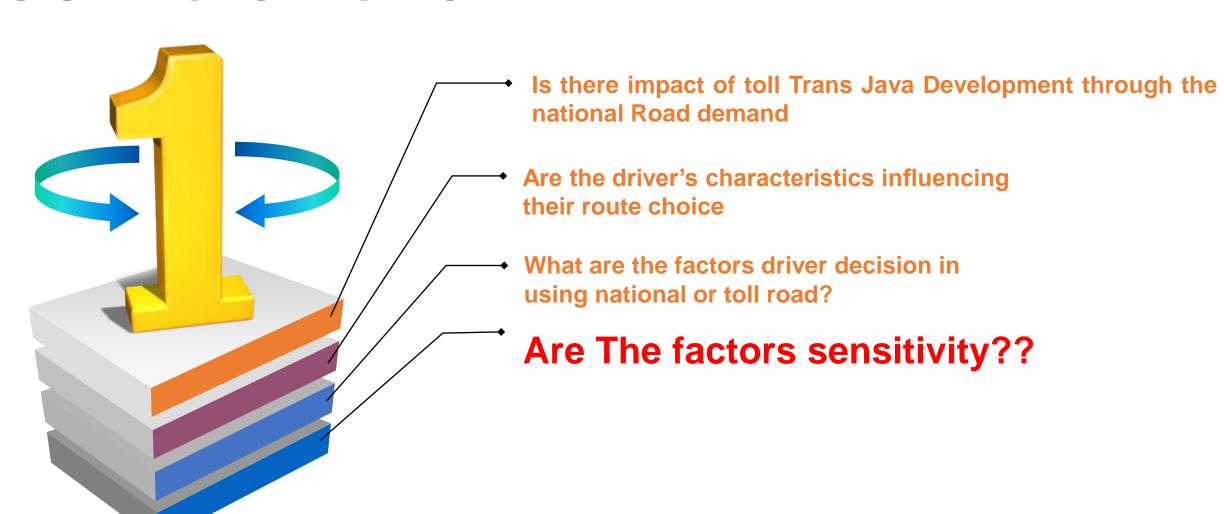
Reducing logistic transport cost
A good transport from Jakarta-Surabaya
takes an average 2 days

→ Travel time certainty shorter

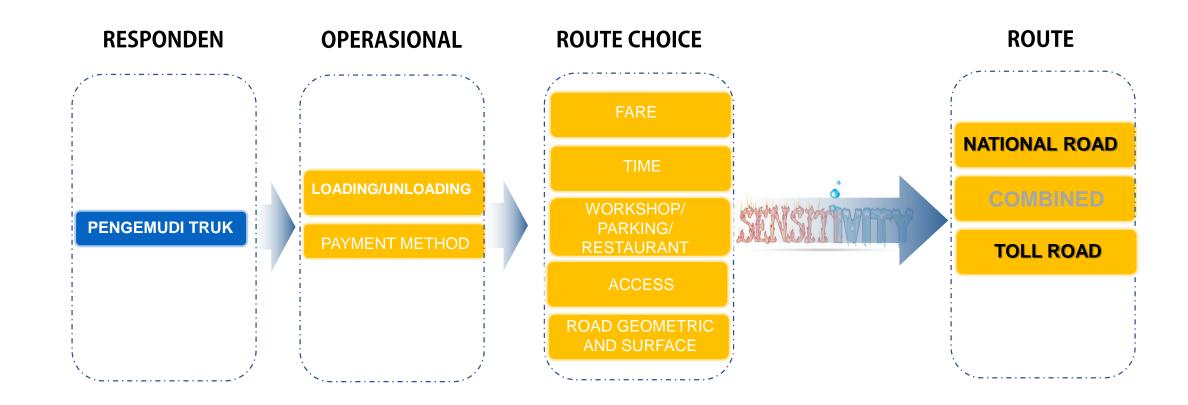
TIME FUEL OVC

HERAWATI \$ IRAWATI

GOALS OF STUDY



METHODOLOGY



ROUTE CHOICE OF FREIGHT DRIVERS' PERCEPTION

SURVEY LOCATION







- 2. LOSARANG
- 3. TANJUNG
- 4. SUBAH
- 5. SERANG
- 5. WIDAN
- 6. WIDODARE

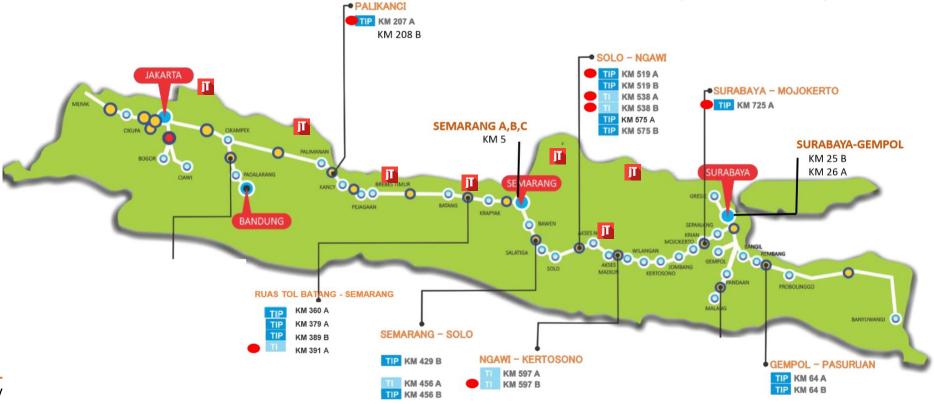
100 samples (50%)







INTERVIEWING TRUCK DRIVER



ROUTE CHOICE OF FREIGHT DRIV HERAWATI \$ IRAWATI

RESULT AND DISCUSSION

Impact to The National Road

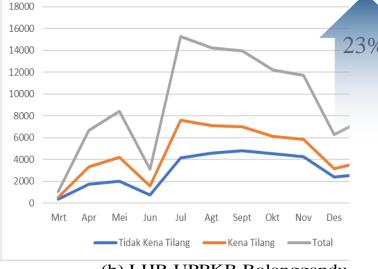


natet April Mei juri juli Augustus durcher durcher Jegenther januari gebruari

Tidak Kena Tilang Kena Tilang Total

(a) LHR UPPKB Losarang

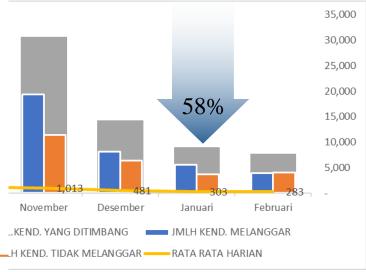
3%



(b) LHR UPPKB Bolanggandu

WEIGHTBRIDGE

TRAFFIC REDUCTION
SANCTION REDUCTION



2482
2437

40%

Oktober November De

Jumlah Kendaraan yang Melanggar

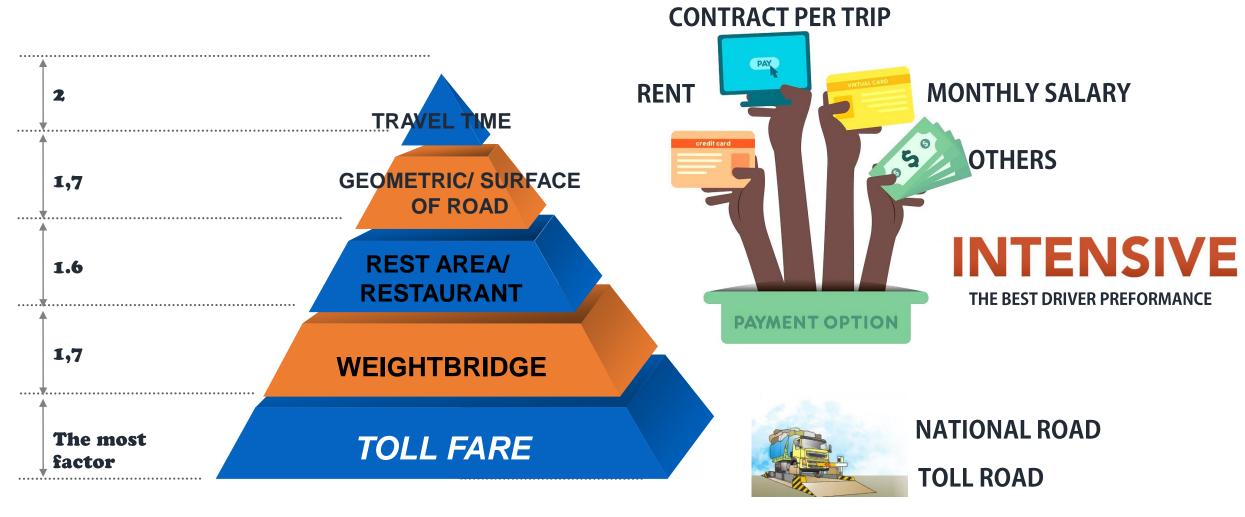
LHR

(c) LHR UPPKB Widodaren

(d) Gambar 4.14 LHR UPPKB Sut

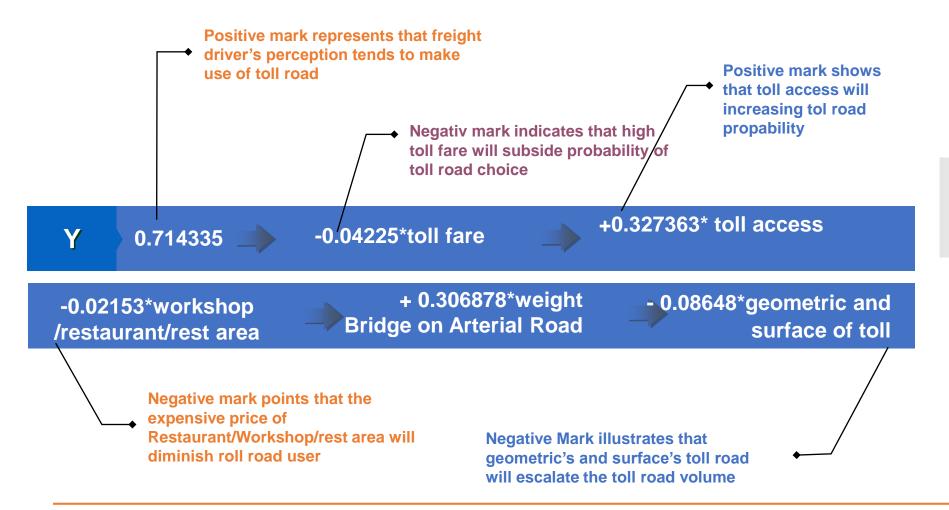
RESULT AND DISCUSSION

Route Choice Factors



79%

RESULT AND DISCUSSION SENSITIVITY OF THAT FACTORS



R-square

R-square = 0.695 or69.5% (Cox & Snell) and 0.938 or 93,8% (Nagekerk).

Uji chi-square

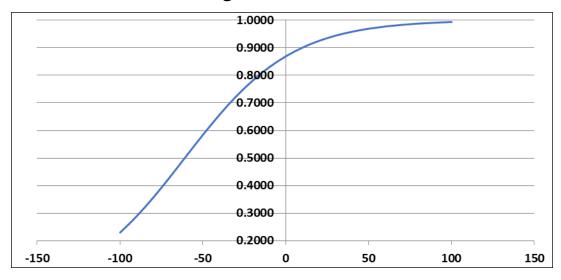
p-signifikansi = 0.58 (>0.05) and H0 accepted.

p-value signifikansi

Every variable'> 0.05 maka terima H0.

RESULT AND DISCUSSION **SENSITIVITY OF THAT FACTORS**

The curve tends to negative area



Sensitivity graphic gradually

HERAWATI \$ IRAWATI

HIGH Toll Fare

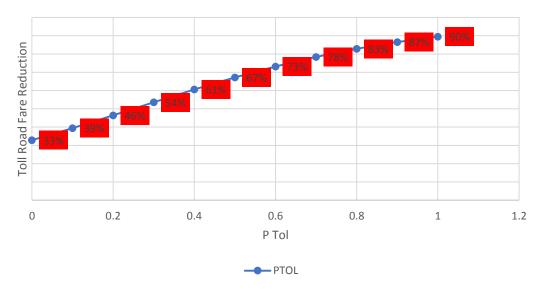
EXPENSIVE Restaurant/Rest Area/

Workshop

WORSE Road Condition

ROUTE CHOICE OF FREIGHT DRIVERS' PERCEPTION





LOWER TOLL RATE = HIGHER TRAFFIC VOLUMES = HIGHER TOLL REVENUE

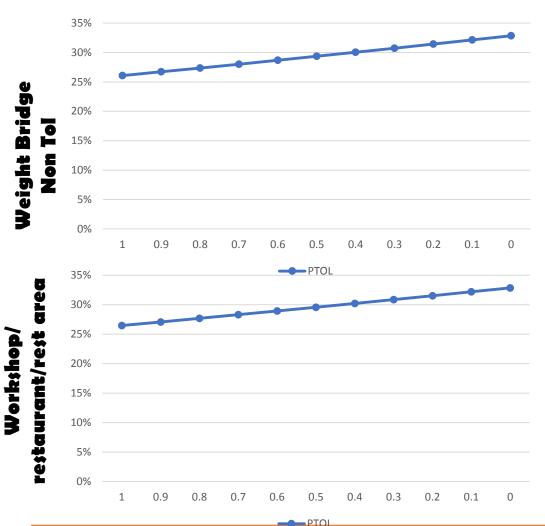
VOLUME	BIAYA	RENVENUE
325.19	-	Rp -
315.71	17,600	Rp 5,556,580
304.46	35,200	Rp 10,717,136
291.48	52,800	Rp 15,390,021
276.97	70,400	Rp 19,498,948
261.36	88,000	Rp 22,999,812
245.21	105,600	Rp 25,894,419
229.18	123,200	Rp 28,235,398
213.91	140,800	Rp 30,119,169
199.93	158,400	Rp 31,668,764

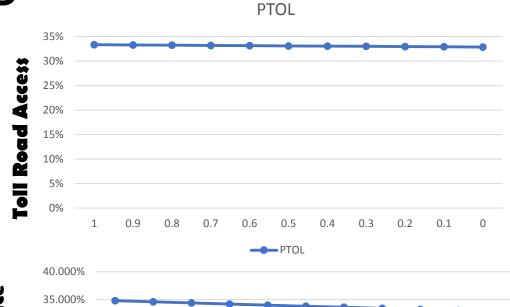
RM/BENGKEL/ **REST AREA**

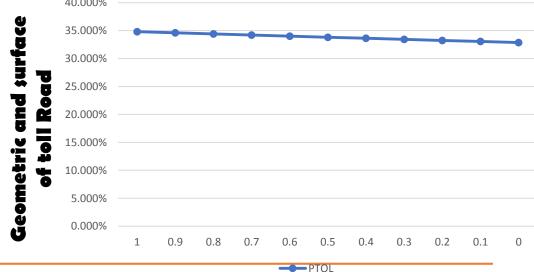
SPBU

RESULT AND DISCUSSION

SENSITIVITY OF THAT FACTORS







CONCLUSION

RECOMENDATION

1. Java Toll Road has reduced freight volume on National Road

Reducing Averaga Traffic Volume and Number of Sanctions

- 2. Driver Behaviour and Intensive Awarded
 Internal and External Costs and the best performance
- 3. Factor Effecting of Freight Drivers

Toll fare, Toll Access, Weighbridge on Arterial Road, Toll road Facilities

4. Sensitivity

Positive with toll road access and
Weighbridge on Arterial Road
Negative with toll road fare, Expensive price
of restaurant menu/workshop services/Rest
area limited

1. Knowledge and Information Improvement
Training and socializing toll road facilities

2. Fare Discounted

Low Season Such as Night travelling, Weekday or off-peak hours

3. Weight Bridge on Toll Road

Controlling overweight and Overdimension truck

THANK YOU