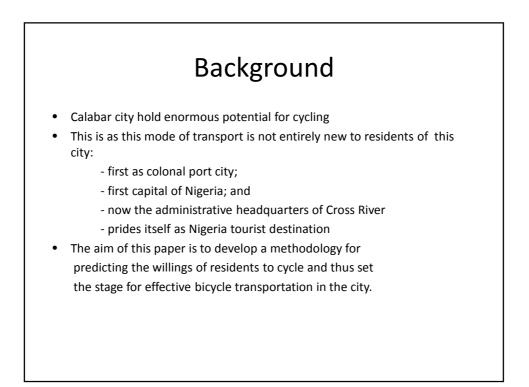
WILLINGNESS TO CONVERT TO THE BICYCLE FOR INTRA CITY TRANSPORTATION IN CALABAR: REVISITING THE OLD WAY.

Sur (Dr) Chima Ogba

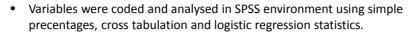
&

Dr. Inah Okon





- Multistage cluster sampling was used to sample respondents from all 22 political wards
- Subsequent 440 instruments were administrated to residents from all wards using random sampling technique
- Instrument included question on whether respondents were willing to ride in the city or not
- A total of 12 bicycle infrastructure and traffic characteristics were asked in a 6-point likert scale with options ranging from highly satisfied (1) to highly dissatisfied (6)

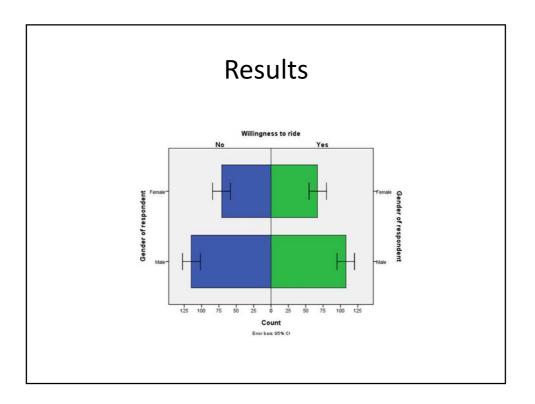


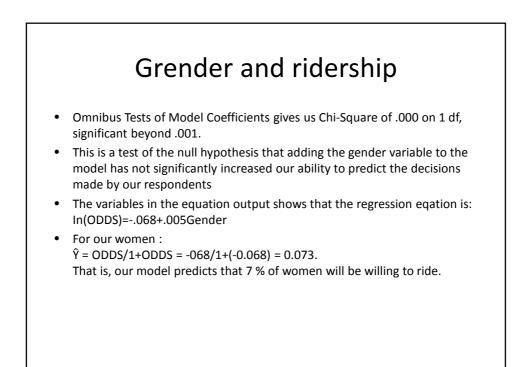
• Our regression model predicted the logit, that is, the natural log of the odds of any of the decision. That is,

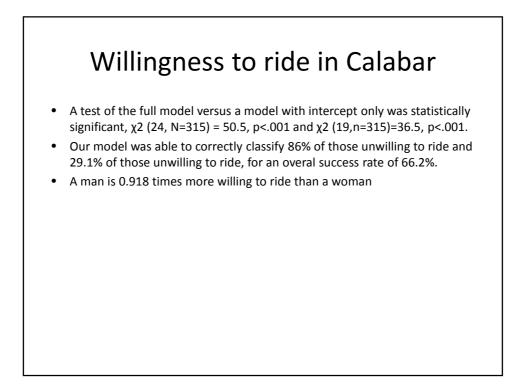
 $LN(ODDS) = In (\hat{\underline{Y}}) = a + bX,$ 1- \hat{Y}

where \hat{Y} the predicted probability of willingness to ride coded with1 rather than 0, unwillingness to ride. 1- \hat{Y} is the predicted probability of the other decision and X is our predictor variable.

Variable	Frequency	Percentage
Gender		The later in the second
Male	223	61.8
Female	138	38.2
Age		
13-17	72	19.9
18-35	206	57.1
36-50	65	18.0
51-65	12	3.3
>65	6	1.7
Education		
Post graduate	12	3.3
Bachelor	98	27.1
OND/NCE	82	22.7
SSCE/WAEC	132	36.6
No formal education	37	10.2
Occupation		
Student	164	45.4
Civil/Public servant	119	33
Armed forces	62	17.2
Other	10	2.8
	6	1.7







Willingness contd.

- Respondents from 50 65yeas are 7.23 times (or 23%) more willing to ride than all other age groups holding 18-35 (our reference age) constant
- Trades (occupation 1) are 1.094 times (or 0.9%) more likely to ride in the city than all other occupations holding students as our control.
- Education (3) (OND/NCE) is 1.73 times more likely to cycle in the city than all other educational groups holding SSCE/WAEC as constant

Bicycle infrastructure/trafic characteristics

- Lanes (1.181)
- Conflicts with motorist (1.338)
- Lack of respect for cycling (1.078)
- Culture_stigma (1.046)
- Weather (1.013)
- Potholes (1.222)
- Safety issues (1.280), and
- Illumination (1.241)
- There present a more significance in predicting the probability of resident's willingness to cycle in the city

