Mitigating Fraud in Incentivized Online Surveys: Lessons from Facebook Recruitment in Nigeria

Supplementary materials

Figure A1: Ad creative and text



How do you feel about inequalities in Nigeria?

Sign up now to take part in our survey. It consists of three rounds and selected participants will get 500 Naira worth of airtime after each round.

We are looking for adults (18+) residing in Nigeria to share their opinions. This project is approved by the KU Leuven Social and Societal Ethics Committee (reference G-2022-5238-R3(AMD)).

For more information on our research see:

https://soc.kuleuven.be/crpd

Table A1: Details of Facebook ad campaigns

	Strategy 1			Strategy 2	
	No comp.	₩250	₦640	₩500	
Reach	750,084	1,360,792	2,347,435	3,663,664	
Impressions	2,549,774	7,617,201	7,816,618	16,957,630	
Clicks	19,283	59 <i>,</i> 048	75,564	192,878	
Amount spent on ads (€)	1,095.77	3,211.38	3,160.71	4,398.13	
Avg. cost per click (€)	0.06	0.05	0.04	0.02	
Valid responses	34	698	2752	2333	
Ad budget per valid response (€)	32.23	4.60	1.15	1.89	
Compensation amount (NGN)	0.00	174,500.00	1,761,280.00	1,166,500.00	
Compensation amount (€) ¹	0.00	414.30	4,181.66	2,399.60	
Total cost per response (€)	32.23	5.19	2.67	2.91	

Note: 1) the estimate for strategy 1 is based on the exchange rate of October 10^{th} , 2022 ($\leq 1 = \aleph$ 421.19); the estimate for strategy 2 is based on the exchange rate of March 8^{th} , 2023 ($\leq 1 = \aleph 486.12$)

	Strategy 1		Strategy 2	
	Round 1	Round 2	Round 1	Round 2
p25	3:21	4:10	6:32	6:51
Median	5:09	6:35	9:14	9:58
p75	8:12	10:19	14:20	15:24

Table A2: Time (in Minutes) spent on survey: recruitment Strategy 1 vs recruitment Strategy 2

Figure A2: Suspicious response patterns on gender and state variables (Strategy 1)

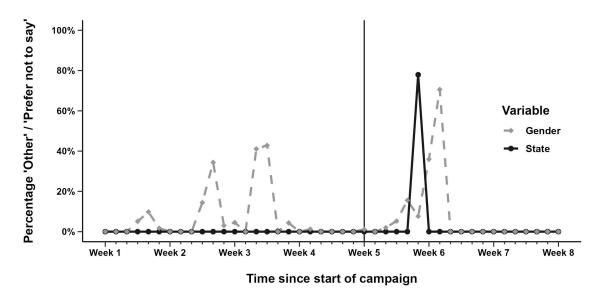


Table A3: Comparison of initial and revised strategies in terms of responses and duplicates

	Strategy 1			Strategy 2		
	Round 1	Round 2	Retention	Round 1	Round 2	Retention
Responses	3485	815	23.4%	2333	2171	93.1%
Device duplicates	736	23	-	54	35	-
Phone number dupl.	538	0	-	0	0	-

	WhatsA	pp Users	WhatsAp	p Non-users	χ² Test
Total	3042	82.1%	664	17.9%	
Gender					χ² (1) = 0.20; <i>p</i> =.66
Male	1899	62.7%	421	36.7%	
Female	1131	37.3%	240	36.3%	
Age group					χ² (1) = 2.19; <i>p</i> =.14
Younger	2339	77.3%	529	80.0%	
Older	687	22.7%	132	20.0%	
Geopolitical zone					χ² (5) = 6.44; <i>p</i> =.27
North-Central	725	23.9%	142	21.4%	
North-East	339	11.2%	82	12.3%	
North-West	435	14.3%	98	14.8%	
South-East	236	7.8%	38	5.7%	
South-South	342	11.3%	82	12.3%	
South-West	958	31.6%	222	33.4%	

Table A4: Results of χ^2 tests comparing demographics of WhatsApp users with non-users