

Technical appendix

Strengthening accountability through media in Nigeria: final evaluation

June 2017 Research and Learning

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Introduction

This technical appendix is intended to be read alongside the associated BBC Media Action report, *Strengthening accountability through media in Nigeria: final evaluation*. This is available from: <u>http://dataportal.bbcmediaaction.org/site/assets/uploads/2017/06/Nigeria-Country-Report.pdf</u>.

I. Survey sampling methodology

As outlined in the table below, BBC Media Action carried out four national surveys.

Survey	Data collection	Sample size	Criteria
Baseline	February 2013	n=3,214	Representative of six focal states, adults 15+
Midline	December 2014	n=4,240	Representative of six focal states, adults 15+
Endline	May 2016	n=4,200	Representative of six focal states, adults 15+

Table 1: Quantitative surveys conducted (2013-2016)

For each of these surveys, the sample was not nationally representative, but was instead representative of the population of six focal states: Abuja, Adamawa (replaced by Taraba for the midline due to security issues in Adamawa), Delta, Enugu, Kaduna and Lagos. The sample was stratified across the six focal states. Within these states a probability proportional to size multistage cluster sample was employed. At all stages, the selection of clusters was random and self-weighting. The sampling frame was constructed using the 2006 Nigeria census. Within enumeration areas, predefined random starting points were used to begin household selection. Random walk was applied with a fixed household interval. Within households, a Kish grid was used to select respondents.

Data collection was carried out using face-to-face interviews and recorded using either paper and pen, or computer-assisted personal interviewing (CAPI).

After data collection, the samples were compared to the latest census data and, where necessary to correct for any imbalances in region/state, gender, age and location (urban vs rural), nested weights applied.

2. Programme reach calculations

The total reach figures for Nigeria were based on a reach calculation that incorporated both hard and soft reach estimates.

Hard reach: a hard reach estimate was calculated for the areas covered by BBC Media Action's baseline, midline and endline surveys and by BBC World Service Audiences' North Nigeria survey (2015) – the latter also asked about the reach of BBC Media Action's programmes. This was done by multiplying the adult population by the percentage of respondents who reported listening to BBC Media Action's programmes in the past 12 months.

Soft reach: a soft reach estimate was also calculated in order to report a reach estimate for the states BBC Media Action did not survey. This was based upon additional survey data obtained from BBC World Service Audiences and BBC Media Action's message endline survey.

Table 2 indicates the data sources used for each state at the three reporting stages (baseline, midline and endline). Blue shading indicates hard reach and green shading indicates soft reach. A key underneath the table provides further detail about each of the data sources.

State	Reporting stage						
	Baseline (2013)	Midline (2014)	Endline (2016)				
North cent	ral region						
Benue	×	BBC WS 2012	BBC WS 2015				
FCT Abuja	✓	\checkmark	✓				
Kogi	×	BBC WS 2012	BBC WS 2012				
Kwara	×	BBC WS 2012	BBC WS 2015				
Nasarawa	×	BBC WS 2012	BBC WS 2012				
Niger	×	BBC WS 2012	BBC WS 2012				
Plateau	x	BBC WS 2012	BBC WS 2015				
North east	region						
Adamawa	\checkmark	BBC WS 2012	\checkmark				
Bauchi	×	BBC WS 2012	BBC WS 2015				
Borno	×	×	×				
Gombe	x	BBC WS 2012	BBC WS 2015				
Taraba	×	\checkmark	BBC WS 2015				
Yobe	x	×	×				
North west	region						
Jigawa	×	BBC WS 2012	BBC WS 2012				
Kaduna	✓	\checkmark	✓				
Kano	BBC WS 2010	BBC WS 2012	BBC WS 2015				
Katsina	BBC WS 2010	BBC WS 2012	BBC WS 2012				
Kebbi	BBC WS 2010	BBC WS 2012	BBC WS 2012				
Sokoto	BBC WS 2010	BBC WS 2012	BBC WS 2015				
Zamfara	BBC WS 2010	BBC WS 2012	BBC WS 2015				
South east	region						
Abuja	BBC WS 2011	BBC WS 2011	BBC WS 2011				

Table 2: Data sources for reach estimates

Anambra	BBC WS 2011	BBC WS 2011	BBC WS 2011					
Ebonyi	×	×	×					
Enugu	✓	\checkmark	✓					
lmo	BBC WS 2011	BBC WS 2011	BBC WS 2011					
South south region								
Akwa Ibom	Message 2012	×	×					
Bayelsa	Message 2012	×	×					
Cross River	BBC WS 2011	BBC WS 2011	BBC WS 2011					
Delta	\checkmark	\checkmark	\checkmark					
Edo	BBC WS 2011	BBC WS 2011	BBC WS 2011					
Rivers	BBC WS 2011	BBC WS 2011	BBC WS 2011					
South west	region							
Ekiti	×	×	×					
Lagos	✓	\checkmark	✓					
Ogun	BBC WS 2011	BBC WS 2011	BBC WS 2011					
Ondo	BBC WS 2011	BBC WS 2011	BBC WS 2011					
Osun	BBC WS 2011	BBC WS 2011	BBC WS 2011					
Оуо	BBC WS 2011	BBC WS 2011	BBC WS 2011					

Key

/	
\checkmark	Hard reach based on BBC Media Action survey data (baseline, midline or endline)
×	No data available, so state excluded from the reach estimates
BBC WS 2010	Soft reach based on BBC World Service Audiences' North Nigeria survey data (2010)
BBC WS 2011	Soft reach based on BBC World Service Audiences' South Nigeria survey data (2011)
BBC WS 2012	Soft reach based on BBC World Service Audiences' North Nigeria survey data (2012)
BBC WS 2015	Hard reach based on BBC World Service Audiences' North Nigeria survey data (2015)
Message 2012	Soft reach for Story Story based on BBC Media Action's message endline survey data (2012). These states were not included in estimates for Talk Your Own, <i>Gatana</i>
	Gutana Ka (Tening a Story) and Mutattauna (Let's Discuss).

Soft reach calculations

To calculate the soft reach estimate for states not covered by the hard reach data, BBC Media Action:

- Multiplied the state adult population by the percentage of respondents who reported (during the BBC WS 2010, 2011 and 2012 surveys) listening to the radio partner stations that broadcast BBC Media Action's programmes. This produced the **partner station reach**
- 2. Multiplied the **partner station reach** by the **audience conversion rate**¹ of the relevant region. This gave the soft reach estimate
- 3. Repeated the above two steps for each of BBC Media Action's programmes, and for all programmes combined

The 2013 soft reach estimates of Story Story in Akwa Ibom, Bauchi and Bayelsa were exceptions to this. They were based on rollover figures from BBC Media Action's message endline survey (2012).

¹ The audience conversion rate is the percentage of the partner station's audience who also listened to Global Grant governance programming. This was calculated by extrapolating BBC Media Action's most recent survey data – baseline, midline or endline – for each of the focal states to the other states in their region (excluding any states not covered by BBC World Service Audiences' data).

In 2015, reach was also calculated for the public service announcements (PSAs) that were broadcast on TV and online. The process varied slightly from that used for the radio programmes: partner TV channel reach was calculated instead of partner radio station reach. Due to a lack of comparable data on YouTube and Facebook access across the different datasets being used, the midline survey data was used to calculate a percentage to add onto the reach figures to account for those who had only viewed the PSAs online. This was calculated for each of the six focal states and then applied to all other states in the same region.

3. Regression analysis

This technical appendix summarises the results of analysis BBC Media Action carried out on the Nigeria endline dataset (2016), which has a sample representative of the adult population (15+) of the six focal states surveyed.

BBC Media Action carried out regression analysis to test the association between exposure to its governance programmes and several governance outcomes (political knowledge, discussion, efficacy and participation), while controlling for some of the other key factors which may influence these outcomes.

Variables

The independent variable for regression analysis was exposure to BBC Media Action's governance programmes, with four categories:

- I. Not exposed to any of BBC Media Action's programmes
- 2. Regularly exposed to its drama programmes (Story Story and/or Gatana Gatana Ku)
- 3. Regularly exposed to its factual discussion programmes (Talk Your Own and/or Mutattauna)
- 4. Regularly exposed to both formats (drama and factual)

Those who had been exposed, but not regularly, and those without access to media were set as missing.

The dependent variables were constructed as continuous variables due to the distribution of the outcome variables, and linear (OLS) regression was conducted.

In addition to being based on past research and the specific country context, the confounders used in the analysis were chosen because they were hypothesised to be key factors in influencing the outcome variables.

Significance testing

Before carrying out regression analysis, BBC Media Action conducted statistical tests in order to measure the strength and the direction of bivariate relationships, as well as to test their significance. More precisely, BBC Media Action analysed:

- The relationship between the main independent variable (exposure) and the construct variables defined as outcomes (political knowledge, discussion, internal efficacy and participation)
- The relationships among outcome variables
- The relationship between exposure and all the socio-demographic variables potentially associated with it (referred to as "confounders")
- The relationship between our outcome variables and confounders

BBC Media Action conducted different types of significance tests according to the nature of the variables considered. T-tests and Mann-Whitney U-tests were used to compare the differences between means, Pearson's R and Spearman's Rho tests were used to ascertain correlation, and Chi-squared tests were conducted to measure associations. All tests were conducted with significance at the p = 0.05 level.

Analysis

As mentioned above, BBC Media Action carried out linear (OLS) regression. Such a model allows researchers to work with a continuous dependent variable, derived through confirmatory factor analysis, and independent variables that have either continuous or categorical values. The regression

coefficient for the independent variable provides key information indicating the estimated change in the dependent variable associated with a one unit increase in the independent variable. The model seeks to summarise this association by fitting a straight line to predict the value of the dependent variable based on the observed values of the independent variables.

BBC Media Action's data satisfied the principle assumptions required for justifying the use of OLS: the relationships between the dependent and independent variables were linear and additive, and the error terms were normally distributed, constant, and were not correlated. With these assumptions met, a confidence interval for the regression line was calculated for each estimate and BBC Media Action was able to test whether the hypothesis of a zero slope – that is of no relationship between the two key variables of interest – existed in the true population.

Prior to analysis, BBC Media Action adopted the conventional standard of rejecting the null hypothesis at the 0.05 level. Given this, BBC Media Action expects that any estimated effects that are significantly associated with exposure to the programme of interest fall within the range reported in the confidence intervals 95% of the time.

Table 3: Overview of regression models

Model	Model p	performa	ince	Association with exposure to both			
				orama and factual formats			
	Sample size	R square	Significance	Coefficient	95% confidence interval	Significance	
Regression 1.1 Knowledge OLS model	3,788	0.242	<0.001	0.555	0.328-0.783	<0.001	
Regression 2.1 Discussion OLS model	3,788	0.154	<0.001	0.790	0.547-1.034	<0.001	
Regression 2.2 Discussion OLS model with interaction with interest in politics	3,788	0.159	<0.001	Exposure for very interested -2.004	-3.031 to - 0.976	<0.001	
Regression 2.3 Discussion OLS model with interaction with group activity	3,788	0.155	<0.001	Exposure for active member -0.411	-0.849 to 0.028	0.066	
Regression 3.1 Efficacy OLS model	3,786	0.021	<0.001	0.103	-0.064 to 0.270	0.229	
Regression 4.1 Participation OLS model	3,792	0.360	<0.001	0.285	0.113-0.457	0.001	
Regression 4.2 Participation OLS model with interaction with group activity	3,792	0.362	<0.001	Exposure for active member -0.481	-0.791 to - 0.171	0.002	

Analysis was carried out on the Nigeria endline dataset (2016).

Full model results

Note: 'Ref' indicates the reference category of each variable

Knowledge

Table 4: Regression 1.1 - Knowledge OLS model

Dependent variable: average knowledge of governance issues (0 to 10)

Predictor	Unstandardized coefficients		Standardized coefficient	Significa nce	95.0% confidence interval for B	
	Beta	Standard error	Beta		Lower bound	Upper bound
Not exposed to any	Ref	-	-	-	-	-
programme Be subsubs even e e e d te	057	124	007	(52	100	200
drama (only)	.056	.124	.007	.653	188	.299
Regularly exposed to factual (only)	.144	.140	.016	.304	131	.420
Regularly exposed to both formats	.555	.116	.089	.000	.328	.783
Interest in politics – not at all interested	Ref	-	-	-	-	-
Not very interested	1.379	.138	.220	.000	1.108	1.649
Somewhat interested	2.434	.137	.421	.000	2.165	2.703
Very interested	3.297	.143	.550	.000	3.018	3.577
Group membership – not an active member	Ref	-	-	-	-	-
Active member	.061	.087	.010	.479	108	.231
Female	Ref	-	-	-	-	-
Male	.484	.082	.089	.000	.324	.644
Age 15-24	Ref	-	-	-	-	-
Age 25-34	.220	.108	.033	.041	.009	.430
Age 35-44	.164	.121	.021	.177	074	.402
Age 45-54	.562	.134	.066	.000	.299	.824
Age 55-64	.522	.180	.045	.004	.169	.875
Age 65+	.609	.155	.064	.000	.306	.913
No schooling	Ref	-	-	-	-	-
Some	.106	.162	.015	.513	212	.424
primary/completed primary education						
Completed secondary education	.569	.160	.104	.000	.256	.882
Completed college/university	.747	.170	.120	.000	.414	1.079
Religion – non-Muslim	Ref	-	-	-	-	-
Muslim	.153	.113	.026	.177	069	.375
State - Lagos	Ref	-	-	-	-	-

Adamawa	.320	.227	.039	.159	125	.766
Delta	.415	.209	.055	.047	.006	.824
Enugu	.900	.236	.111	.000	.437	1.362
FCT Abuja	305	.211	047	.147	718	.107
Kaduna	1.011	.218	.172	.000	.582	1.439
Income - low	Ref	-	-	-	-	-
Medium	208	.111	036	.061	425	.010
High	.260	.145	.036	.073	024	.544
Ethnic group - other	Ref	-	-	-	-	-
Hausa	.238	.165	.030	.150	086	.562
Igbo	.130	.145	.021	.370	154	.414
Yoruba	080	.162	012	.621	399	.238
(Constant)	2.091	.289	-	.000	1.523	2.658

The model had an adjusted R square of 0.242. The F statistic was 45.840 (significance < 0.001).

Discussion

Table 5: Regression 2.1 - Discussion OLS model

Dependent variable: average discussion score (0 to 10)

Predictor	Unstandardized		Standardized	Significa	95.0%	
	coefficients		coefficient	nce	confidence	
	D	0. 1. 1	D.		interva	I for B
	Beta	Standard	Beta		Lower	Upper
Net compared to comp	Def	error			bound	bound
Not exposed to any	Ref	-	-	-	-	-
Programme Begularly expected to	227	122	045	011	077	E00
drama (only)	.337	.133	.045	.011	.077	.378
Regularly exposed to factual (only)	.599	.150	.063	.000	.304	.894
Regularly exposed to both formats	.790	.124	.125	.000	.547	1.034
Interest in politics – not	Ref	-	-	-	-	-
at all interested						
Not very interested	.391	.147	.062	.008	.102	.681
Somewhat interested	1.142	.147	.195	.000	.854	1.430
Very interested	1.662	.153	.273	.000	1.363	1.961
Group membership -	Ref	-	-	-	-	-
not an active member						
Active member	.417	.093	.070	.000	.235	.599
Female	Ref	-	-	-	-	-
Male	.829	.087	.150	.000	.658	1.000
Age 15-24	Ref	-	-	-	-	-
Age 25-34	.266	.115	.039	.021	.040	.492
Age 35-44	.277	.130	.035	.033	.022	.532
Age 45-54	.388	.143	.045	.007	.107	.669
Age 55-64	.466	.193	.039	.016	.087	.845
Age 65+	.216	.166	.022	.194	110	.541
No schooling	Ref	-	-	-	-	-
Some	.213	.174	.030	.219	127	.554
primary/completed						
primary						
Completed secondary	.488	.171	.088	.004	.153	.824
Completed	.615	.182	.098	.001	.258	.971
college/university						
Religion - non-Muslim	Ref	-	-	-	-	-
Muslim	.245	.121	.042	.044	.007	.483
State - Lagos	Ref	-	-	-	-	-
Adamawa	-1.074	.243	128	.000	-1.551	597
Delta	796	.223	103	.000	-1.234	358
Enugu	366	.253	045	.148	861	.130
FCT Abuja	454	.225	069	.044	896	012

Kaduna	.486	.234	.082	.038	.028	.945
Income - low	Ref	-	-	-	-	-
Medium	.129	.119	.022	.276	103	.362
High	.336	.155	.045	.030	.032	.640
Ethnic group - other	Ref	-	-	-	-	-
Hausa	040	.177	005	.821	387	.307
Igbo	333	.155	052	.032	637	029
Yoruba	112	.174	017	.521	453	.229
(Constant)	3.173	.310	-	.000	2.565	3.780

The model had an adjusted R square of 0.154. The F statistic was 26.454 (significance < 0.001).

Table 6: Regression 2.2 - Discussion OLS model with interaction with interest in politics

Dependent variable: average discussion score (0 to 10)

Predictor	Unstandardized coefficients		Standardized coefficient	Significa nce	95.0% confidence interval for B	
	Beta	Standard error	Beta		Lower bound	Upper bound
Not exposed to any programme	Ref	-	-	-	-	-
Regularly exposed to drama (only)	2.303	.473	.305	.000	1.376	3.229
Regularly exposed to factual (only)	.850	.451	.090	.059	034	1.733
Regularly exposed to both formats	2.562	.493	.405	.000	1.596	3.529
Interest in politics – not at all interested	Ref	-	-	-	-	-
Not very interested in politics	.667	.173	.105	.000	.329	1.005
Somewhat interested in politics	1.445	.177	.247	.000	1.097	1.793
Very interested in politics	2.103	.186	.346	.000	1.738	2.468
Not very interested x exposure to drama	-1.942	.531	130	.000	-2.982	901
Not very interested x exposure to factual	282	.529	016	.594	-1.318	.755
Not very interested x exposure to both formats	-1.830	.540	135	.001	-2.890	771
Somewhat interested x exposure to drama	-2.100	.511	190	.000	-3.102	-1.099
Somewhat interested x exposure to factual	055	.515	004	.914	-1.066	.955
Somewhat interested x exposure to both	-1.912	.522	207	.000	-2.936	889

formata						
Normalis L	2.275	520	105	000	2.204	1.255
very interested x	-2.375	.520	185	.000	-3.396	-1.355
Vom interested v	702	525	040	100		247
exposure to factual	702	.555	040	.190	-1./51	.547
Vom interested v	2.004	524	224	000	2.021	07(
very interested x	-2.004	.524	224	.000	-3.031	976
formats						
Group momborship -	Rof					
not an active member	I TEI	-	1	1	[⁻	-
Active member	438	093	074	000	256	620
Female	Ref	-	-	-	-	-
Male	831	087	151	000	660	1.003
Δσe 5.74	Ref	-	-	-	-	-
Δσε 25.34	254	115	038	027	029	480
Δσε 35.44	265	130	034	041	011	519
Δσο 45.54	386	143	044	007	106	667
Δσο 55-64	465	193	039	016	086	844
Age 55-04	201	167	021	228	126	528
Education - no	Rof	.107	.021	.220	120	.520
schooling	I TEI	-	1	1	[⁻	-
Some	199	174	028	251	- 141	539
primary/completed	.177	.171	.020	.231		
primary						
Completed secondary	.467	.171	.084	.006	.132	.801
Completed	.587	.181	.093	.001	.231	.943
college/university						
Religion – non-Muslim	Ref	-	-	-	-	-
Muslim	.258	.121	.044	.033	.021	.496
State - Lagos	Ref	-	-	-	-	-
Adamawa	-1.041	.244	124	.000	-1.518	563
Delta	827	.223	107	.000	-1.264	390
Enugu	437	.253	053	.084	932	.059
FCT Abuja	450	.225	069	.045	891	009
Kaduna	.468	.233	.079	.045	.010	.925
Income - low	Ref	-	-	-	-	-
Medium	.128	.118	.022	.278	104	.361
High	.340	.155	.046	.028	.037	.643
Ethnic group - other	Ref	-	-	-	-	-
Hausa	062	.177	008	.727	408	.285
Igbo	329	.155	052	.034	632	026
Yoruba	121	.174	018	.486	462	.220
(Constant)	2.940	.313		.000	2.326	3.553

The model had an adjusted R square of 0.159. The F statistic was 20.956 (significance < 0.001).

Table 7: Regression 2.3 - Discussion OLS model with interaction with group activity

Dependent variable: average discussion score (0 to 10)

Predictor	Unstandardized coefficients		Unstandardized coefficientsStandardized coefficientSignifica coefficient9inininin		95.0% confidence interval for B	
	Beta	Standard	Beta		Lower	Upper
Net owneed to only	Def	error			bound	Dound
Not exposed to any	Ker	-	-	-	-	-
Programme Bogularly expected to	712	222	094	001	276	1 1 / 0
drama (only)	./ 12	.225	.074	.001	.270	1.177
Regularly exposed to factual (only)	1.190	.281	.126	.000	.639	1.740
Regularly exposed to both formats	1.077	.204	.170	.000	.677	1.477
Interest in politics – not at all interested	Ref	-	-	-	-	-
Not very interested	.381	.147	.060	.010	.092	.670
Somewhat interested	1.119	.147	.191	.000	.831	I.407
Very interested	1.634	.153	.269	.000	1.334	1.933
Group membership – not an active member	Ref	-	-	-	-	-
Active member	.674	.127	.114	.000	.425	.923
Active member x	546	.259	062	.035	-1.053	039
Active member y	021	220	076	012	1 475	104
exposure to factual	831	.327	076	.012	-1.4/3	100
Active member x	411	.224	058	.066	849	.028
exposure to both						
formats						
Female	Ref	-	-	-	-	-
Male	.841	.088	.152	.000	.669	1.012
Age 15-24	Ref	-	-	-	-	-
Age 25-34	.268	.115	.040	.020	.042	.494
Age 35-44	.269	.130	.034	.039	.014	.524
Age 45-54	.392	.143	.045	.006	.111	.673
Age 55-64	.456	.194	.038	.018	.077	.836
Age 65+	.197	.167	.020	.238	130	.523
Education – no schooling	Ref	-	-	-	-	-
Some	.213	.174	.030	.221	128	.553
primary/completed						
primary	40.4	171	000	004	150	020
Completed secondary	.494	.1/1	.089	.004	.158	.829
Completed college/university	.630	.182	.100	.001	.2/4	.986
Religion – non-Muslim	Ref	-	-	-	-	-
Muslim	.251	.122	.043	.039	.012	.489

State - Lagos	Ref	-	-	-	-	-
Adamawa	-1.076	.243	129	.000	-1.553	599
Delta	799	.223	104	.000	-1.237	361
Enugu	361	.253	044	.154	857	.135
FCT Abuja	446	.225	068	.048	888	004
Kaduna	.497	.234	.084	.033	.040	.955
Income - low	Ref	-	-	-	-	-
Medium	.133	.119	.023	.262	100	.366
High	.350	.155	.047	.024	.047	.654
Ethnic group - other	Ref	-	-	-	-	-
Hausa	05 l	.177	006	.771	398	.295
Igbo	335	.155	053	.031	639	031
Yoruba	117	.174	017	.502	457	.224
(Constant)	3.003	.316	-	.000	2.383	3.623

The model had an adjusted R square of 0.155. The F statistic was 24.193 (significance < 0.001).

Efficacy

Table 8: Regression 3.1 - Efficacy OLS model

Dependent variable: average political efficacy score (0 to 10).

Predictor	Unstandardized		Standardized	Significa	95.0%	
	соепісі	ents	coefficient	nce	interval for B	
	Bota	Standard	Beta		Lower	Lipper
	Deta	orror	Deta		bound	bound
Not exposed to any	Ref	-	-	-	-	-
programme						
Regularly exposed to drama (only)	.314	.091	.065	.001	.136	.493
Regularly exposed to factual (only)	.317	.103	.053	.002	.114	.519
Regularly exposed to both formats	.103	.085	.025	.229	064	.270
Interest in politics – not at all interested	Ref	-	-	-	-	-
Not very interested	161	.101	040	.110	359	.037
Somewhat interested	212	.101	057	.035	409	015
Very interested	100	.105	026	.338	305	.105
Group membership -	Ref	-	-	-	-	-
not an active member						
Active member	.226	.064	.060	.000	.101	.351
Female	Ref	-	-	-	-	-
Male	.194	.060	.055	.001	.077	.312
Age 15-24	Ref	-	-	-	-	-
Age 25-34	.066	.079	.015	.407	089	.221
Age 35-44	.171	.089	.034	.055	004	.346
Age 45-54	.187	.098	.034	.058	006	.380
Age 55-64	.116	.132	.015	.380	143	.375
Age 65+	.059	. 4	.010	.602	164	.282
Education – no schooling	Ref	-	-	-	-	-
Some primary/completed primary	109	.119	024	.358	343	.124
Completed secondary	075	. 7	021	.522	305	.155
Completed	069	.125	017	.580	313	.175
college/university						
Religion – non-Muslim	Ref	-	-	-	-	-
Muslim	.084	.083	.022	.316	080	.247
State - Lagos	Ref	-	-	-	-	-
Adamawa	469	.167	088	.005	796	142
Delta	291	.153	059	.057	592	.009
Enugu	.092	.173	.018	.596	248	.432

FCT Abuja	074	.155	018	.632	377	.229
Kaduna	302	.160	080	.060	616	.012
Income - low	Ref	-	-	-	-	-
Medium	281	.081	075	.001	440	121
High	184	.106	039	.083	392	.024
Ethnic group - other	Ref	-	-	-	-	-
Hausa	107	.121	021	.376	345	.130
Igbo	185	.106	046	.083	393	.024
Yoruba	.046	.119	.011	.700	188	.280
(Constant)	3.295	.212	-	.000	2.878	3.711

The model had an adjusted R square of 0.021. The F statistic was 3.998 (significance < 0.001).

Participation

Table 9: Regression 4.1 - Participation OLS model

Dependent variable: average participation score (0 to 10)

Predictor	Unstandardized coefficients		Standardized coefficient	Significa nce	95.0% confide interva	95.0% confidence interval for B	
	Beta	Standard error	Beta		Lower bound	Upper bound	
Not exposed to any programme	Ref	-	-	-	-	-	
Exposure to drama (only)	.030	.094	.005	.753	155	.214	
Exposure to factual (only)	.140	.106	.018	.189	069	.348	
Exposure to both formats	.285	.088	.055	.001	.113	.457	
Interest in politics – not at all interested	Ref	-	-	-	-	-	
Not very interested	.033	.104	.006	.750	171	.237	
Somewhat interested	.570	.104	.120	.000	.367	.774	
Very interested	1.170	.108	.236	.000	.958	1.381	
Group membership -	Ref	-	-	-	-	-	
not an active member							
Active member	.802	.066	.166	.000	.673	.930	
Female	Ref	-	-	-	-	-	
Male	.982	.062	.219	.000	.861	1.103	
Age 15-24	Ref	-	-	-	-	-	
Age 25-34	.344	.081	.062	.000	.184	.504	
Age 35-44	.565	.092	.089	.000	.385	.746	
Age 45-54	.832	.101	.118	.000	.633	1.031	
Age 55-64	1.164	.137	.120	.000	.896	1.432	
Age 65+	1.415	.117	.181	.000	1.185	1.645	
Education – no schooling	Ref	-	-	-	-	-	
Some primary/completed primary	.016	.123	.003	.895	224	.257	
Completed secondary	.035	.121	.008	.770	202	.273	
Completed	.157	.128	.031	.221	095	.409	
college/university							
Religion - non-Muslim	Ref	-	-	-	-	-	
Muslim	.013	.086	.003	.882	156	.181	
State - Lagos	Ref	-	-	-	-	-	
Adamawa	.578	.172	.085	.001	.240	.915	
Delta	1.044	.158	.167	.000	.734	1.353	
Enugu	1.578	.179	.237	.000	1.227	1.928	

FCT Abuja	.957	.159	.180	.000	.644	1.269
Kaduna	545	.165	112	.001	869	221
Income - low	Ref	-	-	-	-	-
Medium	.238	.084	.050	.005	.073	.402
High	.326	.110	.054	.003	.111	.541
Ethnic group - other	Ref	-	-	-	-	-
Hausa	.001	.125	.000	.991	244	.247
Igbo	244	.110	047	.026	459	029
Yoruba	.077	.123	.014	.530	164	.318
(Constant)	.957	.219	-	.000	.527	1.386

The model had an adjusted R square of 0.360. The F statistic was 80.040 (significance < 0.001).

Table 10: Regression 4.2 - Participation OLS model with interaction with group activity

Dependent variable: average participation score (0 to 10)

Predictor	Unstandardized coefficients		Standardized coefficient	Significa nce	95.0% confidence interval for B	
	Beta	Standard error	Beta		Lower bound	Upper bound
Not exposed to any programme	Ref	-	-	-	-	-
Exposure to drama (only)	.425	.157	.069	.007	.116	.733
Exposure to factual (only)	.258	.198	.034	.193	130	.646
Exposure to both formats	.628	.144	.122	.000	.345	.911
Interest in politics – not at all interested	Ref	-	-	-	-	-
Not very interested	.035	.104	.007	.739	170	.239
Somewhat interested	.553	.104	.116	.000	.350	.757
Very interested	1.151	.108	.233	.000	.939	1.362
Group membership – not an active member	Ref	-	-	-	-	-
Active member	1.023	.090	.212	.000	.847	1.199
Active member x exposure to drama	571	.183	080	.002	930	213
Active member x exposure to factual	180	.232	020	.437	635	.274
Active member x exposure to both formats	481	.158	083	.002	791	171
Female	Ref	-	-	-	-	-
Male	.998	.062	.222	.000	.877	1.120
Age 15-24	Ref	-	-	-	-	-
Age 25-34	.345	.081	.063	.000	.185	.504
Age 35-44	.565	.092	.088	.000	.385	.745

Age 45-54	.844	.101	.119	.000	.645	1.043
Age 55-64	1.165	.137	.120	.000	.897	1.432
Age 65+	1.415	.118	.181	.000	1.184	1.646
Education – no	Ref	-	-	-	-	-
schooling						
Some	.029	.123	.005	.811	211	.270
primary/completed						
primary education						
Completed secondary	.053	.121	.012	.660	184	.290
education						
Completed	.180	.128	.035	.161	072	.432
college/university						
Religion – non-Muslim	Ref	-	-	-	-	-
Muslim	.017	.086	.003	.846	152	.185
State - Lagos	Ref	-	-	-	-	-
Adamawa	.565	.172	.083	.001	.228	.902
Delta	1.036	.158	.165	.000	.726	1.345
Enugu	1.556	.179	.234	.000	1.205	1.906
FCT Abuja	.964	.159	.181	.000	.652	1.276
Kaduna	538	.165	111	.001	861	214
Income - low	Ref	-	-	-	-	-
Medium	.245	.084	.051	.003	.081	.410
High	.339	.109	.056	.002	.124	.554
Ethnic group – other	Ref	-	-	-	-	-
Hausa	002	.125	.000	.985	247	.243
Igbo	237	.110	046	.031	452	022
Yoruba	.078	.123	.014	.525	163	.319
(Constant)	.785	.223	-	.000	.347	1.223

The model had an adjusted R square of 0.362. The F statistic was 72.770 (significance < 0.001).