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**INSTITUTIONAL FACTORS, CORPORATE GOVERNANCE ATTRIBUTES
AND SUSTAINABILITY INITIATIVES OF NIGERIAN LISTED FIRMS: THE
MODERATING EFFECT OF ENVIRONMENTAL POLICY**

BY



USMAN AHMED KUMO

UUM
Universiti Utara Malaysia

**DOCTOR OF PHILOSOPHY
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AND SUSTAINABILITY INITIATIVES OF NIGERIAN LISTED FIRMS: THE
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BY

USMAN AHMED KUMO (904437)



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College of Business
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Abstract

Sustainability Initiatives (SI), which encompass economic, environmental, social, and governance aspects, have gained prominence due to growing stakeholder interest and are closely related to Corporate Social Responsibility (CSR) reporting. The purpose of this study is to examine the relationship between institutional factors Economic Constraints and Competition (COMP), Governance Attributes of Board Size (BSZE), Board Independence (BOIND), Board Gender Diversity (BGD) and Board CSR Committee (BCSRC)) and SI, and to investigate the moderating effect of Environmental Policy (ENVP) on the relationship between governance attributes and SI on the financial and non-financial listed firms from 2016 to 2021. Data were collected from the companies assessed and recognized by Nigeria's global CSR Consensus Rater (CSRHUB). A total of 504 firm-year observations were considered using the annual reports and accounts of 84 sampled companies. The panel-corrected standard errors (PCSEs) regression was used to test the developed hypotheses for this study. The result of this study documents that economic constraints measured by Access to Finance (ACFI) shows that ACFI is not significantly related to SI. In contrast, COMP is positive and significantly associated with SI. However, the findings also portray that BSZE is negative and significantly associated with SI. At the same time, BOIND significantly and positively influences SI. Similarly, BGD is significant and positively related to SI. On the contrary, BCSRC is negative and insignificantly related to SI. Even though the environmental policy does not moderate the other variables (BSZE, BOIND, and BGD), the finding shows a positive and significant moderating effect of ENVP on the BCSRC and SI. The univariate result of the t-test also shows that SI has substantially improved positively among non-financial sector firms than the financial sector. Hence, this study suggests that regulatory authorities should assess how the companies deal with environmental policies in connection with their boards to ensure a good CSR committee that could be responsible for SI practices among firms in Nigeria.

Keywords: Sustainability initiatives; Institutional factors; Governance attributes; Environmental policy

Abstrak

Inisiatif Kemampanan (*SI*), yang merangkumi aspek ekonomi, alam sekitar, sosial, dan tadbir urus, telah mendapat perhatian yang semakin meningkat disebabkan oleh minat pemegang berkepentingan dan berkait rapat dengan pelaporan Tanggungjawab Sosial Korporat (*CSR*). Tujuan kajian ini adalah untuk mengkaji hubungan antara faktor institusi Kekangan Ekonomi dan Persaingan (*COMP*), Atribut Tadbir Urus Saiz Lembaga (*BSZE*), Kebebasan Lembaga (*BOIND*), Kepelbagaian Jantina Lembaga (*BGD*) dan Ahli Jawatankuasa Lembaga *CSR* (*BCSRC*) dan *SI*. Ia juga menyiasat kesan penyederhanaan Polisi Alam Sekitar (*ENVP*) dan hubungannya dengan tadbir urus syarikat. Sampel kajian adalah melibatkan syarikat tersenarai yang bukan kewangan dan kewangan, dari tahun 2016 hingga 2021. Data dikumpul daripada syarikat yang dinilai dan diiktiraf oleh Penilai Konsensus *CSR* Global Nigeria (*CSRHUB*). Sejumlah 504 pemerhatian bagi tahun firma telah menggunakan laporan tahunan dan 84 pemerhatian menggunakan akaun syarikat sebagai sampel. Regresi Ralat Piawai Yang Diperbetulkan Panel (*PCSE*) digunakan untuk menguji hipotesis yang dibangunkan untuk kajian ini. Hasil kajian ini mendapati bahawa kekangan ekonomi yang diukur melalui Akses Kepada Kewangan (*ACFI*) menunjukkan bahawa *ACFI* tidak mempunyai kaitan yang signifikan dengan *SI*. Sebaliknya, *COMP* adalah positif dan signifikan berkaitan dengan *SI*. Walau bagaimanapun, dapatan juga menggambarkan bahawa *BSZE* adalah negatif dan mempunyai kaitan yang signifikan dengan *SI*. Pada masa yang sama, *BOIND* secara signifikan dan positif mempengaruhi *SI*. Begitu juga dengan *BGD* yang signifikan dan positif terhadap *SI*. Sebaliknya, *BCSRC* adalah negatif dan tidak signifikan terhadap *SI*. Walaupun polisi alam sekitar tidak *moderate* pemboleh ubah yang lain (*BSZE*, *BOIND* dan *BGD*), hasil dapatan menunjukkan kesan *moderating* yang positif dan signifikan bagi *ENVP* terhadap *BCSRC* dan *SI*. Hasil keputusan *univariate* bagi *t-test* menunjukkan bahawa *SI* menunjukkan peningkatan yang ketara bagi syarikat di sektor bukan kewangan berbanding sektor kewangan. Oleh itu, kajian ini mencadangkan pihak berkuasa kawal selia perlu menilai bagaimana syarikat mengurus polisi alam sekitar berhubung dengan lembaga bagi memastikan jawatankuasa *CSR* yang baik yang boleh bertanggungjawab bagi amalan *SI* di kalangan firma di Nigeria.

Kata kunci: Inisiatif kemampanan; Faktor institusi; Sifat tadbir urus; Dasar alam sekitar

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LIST OF ABBREVIATIONS

Abbreviations	Definitions of Terms
ACFI	Access to finance
AGE	Company Age
BCSRC	Board CSR committee
BGD	Board gender diversity
BOIND	Board independence
BSZE	Board size
CBN	Central Bank of Nigeria
CDP	Carbon Disclosure Project
CFCS	China Forest Certification Scheme
CG	Corporate Governance
COMP	Competition
CSR	Corporate Social Responsibility
DPR	Department of Petroleum Reserves
ENVP	Environmental Policy
ESEG	Economic, Social, Environmental, and Governance
ESI	Environmentally Sensitive Industries
GRI	Global Reporting Initiatives
IT	Institutional Theory
LEV	Company Leverage
LT	Legitimacy Theory
NDU	Nigerian Development Update
NESREA	National Environmental Standards and Regulations Enforcement Agency
NSE	Nigerian Stock Exchange
SI	Sustainability initiatives
ST	Stakeholder Theory
SZE	Company size
UNGC	United Nations Global Compact

Source: Researchers' compilation.

CHAPTER ONE

INTRODUCTION

1.1 Background of the study

The businesses' sustainability initiatives (SI) focus on economic, environmental, social, and governance. It is a sister concept of Corporate Social Responsibility (CSR) reporting (Hamid & Othman, 2019; Kiyanga et al., 2016). The expansion of SI is due to increased stakeholder interest in companies' environmental, social, and governance performance (Correia, 2019; Dhaliwal et al., 2014). Also, SI has become increasingly important to society and a matter of interest to scholars and professionals on social, environmental, and governance issues as business stakeholders (Correia, 2019).

SI depict the impact of present actions on the future's ecosystems, societies, and environments (Singh & Misra, 2021). The institutions involved in promoting SI include the United Nations (UN), the International Federation of Accountants (IFAC), the Global Reporting Initiative (GRI), the Organisation for Economic Co-operation and Development (OECD), and the Institute of Directors in Southern Africa [IoDSA] (Adedeji et al., 2020; Almatrooshi et al., 2018; and Chang, 2016). Sustainability issues gained acceptance globally when the Brundtland Commissions' published report of 1987 averred that sustainability as,

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APPENDICES

APPENDIX A: LISTED FIRM ON THE NIGERIAN STOCK EXCHANGE AS AT 31 DECEMBER 2021

S/N	COMPANY NAME	TICKER	SECTOR
1	ELLAH LAKES PLC.	ELLAHLAKES	AGRICULTURE
2	FTN COCOA PROCESSORS PLC	FTNCOCOA	AGRICULTURE
3	LIVESTOCK FEEDS PLC.	LIVESTOCK	AGRICULTURE
4	OKOMU OIL PALM PLC.	OKOMUOIL	AGRICULTURE
5	PRESCO PLC	PRESCO	AGRICULTURE
CONGLOMERATES			
1	AG LEVENTIS NIGERIA PLC.	AGLEVENTIS	CONGLOMERATES
2	CHELLARAMS PLC.	CHELLARAM	CONGLOMERATES
3	JOHN HOLT PLC.	JOHNHOLT	CONGLOMERATES
4	S C O A NIG. PLC.	SCOA	CONGLOMERATES
5	TRANSNATIONAL CORPORATION NIGERIA PLC	TRANSCORP	CONGLOMERATES
6	U A C N PLC.	UACN	CONGLOMERATES
CONSTRUCTION/REAL ESTATE			
1	ARBICO PLC.	ARBICO	CONSTRUCTION/REAL ESTATE
2	JULIUS BERGER NIG. PLC.	JBERGER	CONSTRUCTION/REAL ESTATE
3	ROADS NIG PLC.	ROADS	CONSTRUCTION/REAL ESTATE
4	SFS REAL ESTATE INVESTME TRUST	SFSREIT	CONSTRUCTION/REAL ESTATE
5	SMART PRODUCTS NIGERIA PLC	SMURFIT	CONSTRUCTION/REAL ESTATE
6	UACN PROPERTY DEVELOPME COMPANY PLC	UAC-PROP	CONSTRUCTION/REAL ESTATE
7	UNION HOMES REAL ESTA INVESTMENT TRUST	UHOMREIT	CONSTRUCTION/REAL ESTATE
8	UPDC REAL ESTATE INVESTME TRUST	UPDCREIT	CONSTRUCTION/REAL ESTATE
CONSUMER GOODS			
1	CADBURY NIGERIA PLC.	CADBURY	CONSUMER GOODS
2	CHAMPION BREWERIES PLC.	CHAMPION	CONSUMER GOODS
3	DANGOTE FLOUR MILLS PLC.	DANFLOUR	CONSUMER GOODS
4	DANGOTE SUGAR REFINERY PLC.	DANGSUGAR	CONSUMER GOODS
5	DN TYRE & RUBBER PLC.	DUNLOP	CONSUMER GOODS

6	FLOUR MILLS NIGERIA PLC.	FLOURMILL	CONSUMER GOODS
7	GOLDEN GUINEA BREWERIES PLC.	GOLDBREW	CONSUMER GOODS
8	GUINNESS NIG PLC.	GUINNESS	CONSUMER GOODS
9	HONEYWELL FLOUR MILL PLC	HONYFLOUR	CONSUMER GOODS
10	INTERNATIONAL BREWERIES PLC.	INTBREW	CONSUMER GOODS
11	JOHN HOLT PLC.	JOHNHOLT	CONSUMER GOODS
12	MCNICHOLS PLC.	MCNICHOLS	CONSUMER GOODS
13	MULTI-TREX INTEGRATED FOC PLC	MULTITREX	CONSUMER GOODS
14	NOTHERN NIGERIA FLOUR MILLS P	NNFM	CONSUMER GOODS
15	NASCON ALLIED INDUSTRIES PLC	NASCON	CONSUMER GOODS
16	NESTLE NIGERIA PLC.	NESTLE	CONSUMER GOODS
17	NIGERIAN BREWERIES PLC.	NB	CONSUMER GOODS
18	NIGERIAN ENAMELWARE PLC.	ENAMELWA	CONSUMER GOODS
19	P Z CUSSONS NIGERIA PLC.	PZ	CONSUMER GOODS
20	UTC NIGERIA PLC.	UTCNIG	CONSUMER GOODS
21	UNILEVER NIGERIA PLC.	UNILEVER	CONSUMER GOODS
22	UNION DICON SALT PLC.	UNIONDICON	CONSUMER GOODS
23	VITAFOAM NIG PLC.	VITAFOAM	CONSUMER GOODS

FINANCIAL SERVICES

1	ABBNEY MORTGAGE BANK PLC	ABBNEYBDS	FINANCIAL SERVICES
2	ACCESS BANK PLC.	ACCESS	FINANCIAL SERVICES
3	AFRICA PRUDENTIAL PLC	AFRIPRUD	FINANCIAL SERVICES
4	AFRICAN ALLIANCE INSURANCE PI	AFRINSURE	FINANCIAL SERVICES
5	AIICO INSURANCE PLC.	AIICO	FINANCIAL SERVICES
6	ASO SAVINGS AND LOANS PLC	ASOSAVINGS	FINANCIAL SERVICES
7	AXAMANSARD INSURANCE PLC	MANSARD	FINANCIAL SERVICES
8	CONSOLIDATED INSURANCE PLC	HALLMA CHIPLC	FINANCIAL SERVICES

9	CORNERSTONE INSURANCE PLC	CORNERST	FINANCIAL SERVICES
10	CORONATION INSURANCE PLC	WAPIC	FINANCIAL SERVICES
11	CUSTODIAN INVESTMENT PLC	CUSTODIAN	FINANCIAL SERVICES
12	DEAP CAPITAL MANAGEMENT TRUST PLC	DEAPCAP	FINANCIAL SERVICES
13	ECOBANK TRANSNATION INCORPORATED	ETI	FINANCIAL SERVICES
14	FBN HOLDINGS PLC	FBNH	FINANCIAL SERVICES
15	FCMB GROUP PLC.	FCMB	FINANCIAL SERVICES
16	FIDELITY BANK PLC	FIDELITYBK	FINANCIAL SERVICES
17	GOLDLINK INSURANCE PLC	GOLDINSURE	FINANCIAL SERVICES
18	GUARANTY TRUST BANK PLC.	GUARANTY	FINANCIAL SERVICES
19	GUINEA INSURANCE PLC.	GUINEAINS	FINANCIAL SERVICES
20	INFINITY TRUST MORTGAGE BA PLC	INFINITY	FINANCIAL SERVICES
21	INTERNATIONAL INSURANCE PLC	ENER INTENEGINS	FINANCIAL SERVICES
22	JAIZ BANK PLC	JAIZBANK	FINANCIAL SERVICES
23	LASACO ASSURANCE PLC.	LASACO	FINANCIAL SERVICES
24	LAW UNION AND ROCK INSURAN PLC	LAWUNIONINS	FINANCIAL SERVICES
25	LINKAGE ASSURANCE PLC	LINKASSURE	FINANCIAL SERVICES
26	LIVINGTRUST MORTGAGE BANK PI	LIVINGTRUST	FINANCIAL SERVICES
27	MUTUAL BENEFITS ASSURANCE PL	MBENEFIT	FINANCIAL SERVICES
28	NEM INSURANCE PLC	NEM	FINANCIAL SERVICES
29	NIGER INSURANCE PLC	NIGERINS	FINANCIAL SERVICES
30	NIGERIA ENERYGY SECTOR FUND	NESF	FINANCIAL SERVICES
31	NPF MICROFINANCE BANK PLC	NPFMCRFBK	FINANCIAL SERVICES
32	PRESTIGE ASSURANCE PLC	PRESTIGE	FINANCIAL SERVICES
33	REGENCY ASSURANCE PLC	REGALINS	FINANCIAL SERVICES
34	RESORT SAVINGS & LOANS PLC	RESORTSAL	FINANCIAL SERVICES
35	ROYAL EXCHANGE PLC.	ROYALEX	FINANCIAL SERVICES

36	SOVEREIGN TRUST INSURANCE PLC	SOVRENINS	FINANCIAL SERVICES
37	STACO INSURANCE PLC	STACO	FINANCIAL SERVICES
38	STANBIC IBTC HOLDINGS PLC	STANBIC	FINANCIAL SERVICES
39	STANDARD ALLIANCE INSURANCE PLC.	STDINSURE	FINANCIAL SERVICES
40	STERLING BANK PLC.	STERLNBANK	FINANCIAL SERVICES
41	SUNU ASSURANCES NIGERIA PLC.	SUNUASSUR	FINANCIAL SERVICES
42	UNIC DIVERSIFIED HOLDINGS PLC.	UNIC	FINANCIAL SERVICES
43	UNION BANK NIG.PLC.	UBN	FINANCIAL SERVICES
44	UNION HOMES SAVINGS AND LOAN PLC.	UNHOMES	FINANCIAL SERVICES
45	UNITED BANK FOR AFRICA PLC	UBA	FINANCIAL SERVICES
46	UNITED CAPITAL PLC	UCAP	FINANCIAL SERVICES
47	UNITY BANK PLC	UNITYBNK	FINANCIAL SERVICES
48	UNIVERSAL INSURANCE PLC	UNIVINSURE	FINANCIAL SERVICES
49	VALUEALLIANCE VALUE FUND	VALUEFUND	FINANCIAL SERVICES
50	VERITAS KAPITAL ASSURANCE PLC	VERITASKAP	FINANCIAL SERVICES
51	WEMA BANK PLC.	WEMABANK	FINANCIAL SERVICES
52	ZENITH BANK PLC	ZENITHBANK	FINANCIAL SERVICES

HEALTHCARE

1	EKOCORP PLC.	EKOCORP	HEALTHCARE
2	EVANS MEDICAL PLC.	EVANSMED	HEALTHCARE
3	FIDSON HEALTHCARE PLC	FIDSON	HEALTHCARE
4	GLAXO SMITHKLINE CONSUMER NIGERIA PLC.	GLAXOSMITH	HEALTHCARE
5	MAY & BAKER NIGERIA PLC.	MAYBAKER	HEALTHCARE
6	MORISON INDUSTRIES PLC.	MORISON	HEALTHCARE
7	NEIMETH INTERNATIONAL PHARMACEUTICALS PLC	NEIMETH	HEALTHCARE
8	NIGERIA-GERMAN CHEMICALS PLC	NIG-GERMAN	HEALTHCARE
9	PHARMA-DEKO PLC.	PHARMDEKO	HEALTHCARE
10	UNION DIAGNOSTIC & CLINIC SERVICES PLC	UNIONDAC	HEALTHCARE

ICT

1	AIRTEL AFRICA PLC	AIRTELAFRI	ICT
2	BRICLINKS AFRICA PLC	BAPLC	ICT
3	CHAMS PLC	CHAMS	ICT

4	COURTEVILLE BUSINESS SOLUTIO PLC	COURTVILLE	ICT
5	E-TRANZACT INTERNATIONAL PLC	ETRANZACT	ICT
6	MTN NIGERIA COMMUNICATIONS P	MTNN	ICT
7	NCR (NIGERIA) PLC.	NCR	ICT
8	OMATEK VENTURES PLC	OMATEK	ICT
9	TRIPPLE GEE AND COMPANY PLC.	TRIPPLEG	ICT
INDUSTRIAL GOODS			
1	AUSTIN LAZ & COMPANY PLC	AUSTINLAZ	INDUSTRIAL GOODS
2	BERGER PAINTS PLC	BERGER	INDUSTRIAL GOODS
3	BETA GLASS PLC.	BETAGLAS	INDUSTRIAL GOODS
4	BUA CEMENT PLC	BUACEMENT	INDUSTRIAL GOODS
5	CAP PLC	CAP	INDUSTRIAL GOODS
6	CUTIX PLC.	CUTIX	INDUSTRIAL GOODS
7	DANGOTE CEMENT PLC	DANGCEM	INDUSTRIAL GOODS
8	FIRST ALLUMINIUM PLC	FIRSTALUM	INDUSTRIAL GOODS
9	GREIF NIGERIA PLC	VANLEER	INDUSTRIAL GOODS
10	LAFARGE AFRICA PLC.	WAPCO	INDUSTRIAL GOODS
11	MEYER PLC.	MEYER	INDUSTRIAL GOODS
12	NOTORE CHEMICAL IND PLC	NOTORE	INDUSTRIAL GOODS
13	PORTLAND PAINTS & PRODUC NIGERIA PLC	PORTPAINT	INDUSTRIAL GOODS
14	PREMIER PAINTS PLC.	PREMPAINTS	INDUSTRIAL GOODS
15	THOMAS WYATT NIGERIA PLC.	THOMASWYAT	INDUSTRIAL GOODS
NATURAL RESOURCES			
1	ALUMINIUM EXTRUSION IND. PLC.	ALEX	NATURAL RESOURCES
2	B.O.C. GASES PLC.	BOCGAS	NATURAL RESOURCES
3	MULTIVERSE MINING EXPLORATION PLC	A MULTIVERSE	NATURAL RESOURCES
4	THOMAS WYATT NIG. PLC.	THOMASWY	NATURAL RESOURCES
OIL AND GAS			
1	ARDOVA PLC	ARDOVA	OIL AND GAS
2	CAPITAL OIL PLC	CAPOIL	OIL AND GAS
3	CONOIL PLC	CONOIL	OIL AND GAS
4	ETERNA PLC.	ETERNA	OIL AND GAS
5	FORTE OIL PLC.	FORTE	OIL AND GAS

6	JAPPAUL GOLD & VENTURES PLC	JAPPAULGOLD	OIL AND GAS
7	MRS OIL NIGERIA PLC.	MRS	OIL AND GAS
8	OANDO PLC	OANDO	OIL AND GAS
9	RAK UNITY PET. COMP. PLC.	RAKUNITY	OIL AND GAS
10	SEPLAT PETROLEUM DEV. COMPA PLC	SEPLAT	OIL AND GAS
11	TOTAL NIGERIA PLC.	TOTAL	OIL AND GAS
	SERVICES		
1	ACADEMY PRESS PLC.	ACADEMY	SERVICES
2	AFROMEDIA PLC	AFROMEDIA	SERVICES
3	ASSOCIATED BUS COMPANY PLC	ABCTRANS	SERVICES
4	C & I LEASING PLC.	CILEASING	SERVICES
5	CAPITAL HOTEL PLC	CAPHOTEL	SERVICES
6	CAVERTON OFFSHORE SUPPORT C PLC	CAVERTON	SERVICES
7	DAAR COMMUNICATIONS PLC	DAARCOMM	SERVICES
8	GLOBAL SPECTRUM ENER SERVICES PLC	GSPECPLC	SERVICES
9	IKEJA HOTEL PLC	IKEJAHOTEL	SERVICES
10	INTERLINKED TECHNOLOGIES PLC	INTERLINK	SERVICES
11	JULI PLC.	JULI	SERVICES
12	LEARN AFRICA PLC	LEARNAFRCA	SERVICES
13	MEDVIEW AIRLINE PLC	MEDVIEWAIR	SERVICES
14	NIGERIAN AVIATION HANDLI COMPANY PLC	NAHCO	SERVICES
15	R T BRISCOE PLC.	RTBRISCOE	SERVICES
16	RED STAR EXPRESS PLC	REDSTAREX	SERVICES
17	SECURE ELECTRONIC TECHNOLO PLC	NSLTECH	SERVICES
18	SKYWAY AVIATION HANDLI COMPANY PLC	SKYAVN	SERVICES
19	TANTALIZERS PLC	TANTALIZER	SERVICES
20	THE INITIATES PLC	INITSPLC	SERVICES
21	TOURIST COMPANY OF NIGERIA PL	TOURIST	SERVICES
22	TRANSCORP HOTELS PLC	TRANSCOHOT	SERVICES
23	TRANS-NATIONWIDE EXPRESS PLC	TRANSEXPR	SERVICES
24	UNIVERSITY PRESS PLC.	UPL	SERVICES

APPENDIX B

List of quoted companies rated and ranked by CSRHUB consensus ESG rating as of November. (2021)

COMPANIES CATEGORY		CSRHUB OVERALL % RATING	COMMUNITY	EMPLOYEE	ENVIRONMENT	GOVERNANCE
Financial Services						
1	Ecobank Transnational Incorporated	98	5 1	5 1	6 3	4 9
2	Fidelity Bank Plc	54	5 1	5 1	6 3	4 9
3	Guaranty Trust Bank Plc	62	5 1	5 1	6 3	4 9
4	Jaizbank Plc	NA	5 1	5 1	6 3	4 9
5	Sterling Bank Plc	98	5 1	5 1	6 3	4 9
6	Union Bank Nigeria Plc	96	5 1	5 1	6 3	4 9
7	Unity Bank Plc	NA	5 1	5 1	6 3	4 9
8	Wema Bank Plc	NA	5 1	5 1	6 3	4 9
9	Access Bank Plc	99	5 1	5 1	6 3	4 9
10	United Bank for Africa Plc	74	5 1	5 1	6 3	4 9
11	Zenith International Bank Plc	92	5 1	5 1	6 3	4 9
12	Fbn Holdings Plc	85	5 1	5 1	6 3	4 9
13	Fcmb Group Plc	89	5 1	5 1	6 3	4 9
14	Stanbic IBTC Holdings	NA	5 1	5 1	6 3	4 9
15	NPF Microfinance Bank	NA	5 1	5 1	6 3	4 9
16	Aiico Insurance Plc	NA	5 1	5 1	6 3	4 9
17	Consolidated Hallmark Insurance Plc	NA	5 1	5 1	6 3	4 9

18	Cornerstone Insurance Plc	NA	5	5	6	4
			1	1	3	9
19	Goldlink Insurance Plc	NA	5	5	6	4
			1	1	3	9
20	Guinea Insurance Plc	NA	5	5	6	4
			1	1	3	9
21	Lasaco Assurance Plc	NA	5	5	6	4
			1	1	3	9
22	Linkage Assurance Plc	NA	5	5	6	4
			1	1	3	9
23	Mansard Insurance Plc	NA	5	5	6	4
			1	1	3	9
24	Mutual Benefits Assurance Plc	NA	5	5	6	4
			1	1	3	9
25	Nem Insurance Plc	NA	5	5	6	4
			1	1	3	9
26	Niger Insurance Plc	NA	5	5	6	4
			1	1	3	9
27	Prestige Assurance Plc	NA	5	5	6	4
			1	1	3	9
28	Sovereign Trust Insurance Plc	NA	5	5	6	4
			1	1	3	9
29	Standard Alliance Insurance Plc	NA	5	5	6	4
			1	1	3	9
30	Universal Insurance Plc	NA	5	5	6	4
			1	1	3	9
31	Abbey Mortgage Bank Plc	NA	5	5	6	4
			1	1	3	9
32	Aso Savings and Loans Plc	NA	5	5	6	4
			1	1	3	9
33	Resorts Savings and Loans Plc	NA	5	5	6	4
			1	1	3	9
34	Union Homes Savings & Loans	NA	5	5	6	4
			1	1	3	9
35	Africa Prudential Plc	NA	5	5	6	4
			1	1	3	9
36	Royal Exchange Plc	NA	5	5	6	4
			1	1	3	9
37	Custodian Investment Plc	NA	5	5	6	4
			1	1	3	9
INDUSTRIAL GOODS						
38	Chemicals and Allied Products PLC	NA	5	5	6	4
			1	1	3	9
39	Cutix Plc	NA	5	5	6	4
			1	1	3	9
40	Dangote Cement	59	5	5	6	4
			1	1	3	9
41	Dangote Flour Mills Plc	67	5	5	6	4
			1	1	3	9

42	Lafarge Africa plc	11	5	5	6	4
			1	1	3	9
43	Ashaka Cement	NA	5	5	6	4
			1	1	3	9
44	Beta glass plc	NA	5	5	6	4
			1	1	3	9
CONSUMER GOODS						
45	Unilever Nigeria plc	33	5	5	6	4
			1	1	3	9
46	PZ Cussons Nigeria Plc	41	5	5	6	4
			1	1	3	9
47	Nigeria Enamelware	NA	5	5	6	4
			1	1	3	9
48	Nestle Nigeria	84	5	5	6	4
			1	1	3	9
49	Cadbury Nigeria plc	NA	5	5	6	4
			1	1	3	9
50	Honeywell Four Mills Nigeria	NA	5	5	6	4
			1	1	3	9
51	Flour Mills Nigeria Plc	30	5	5	6	4
			1	1	3	9
52	Nigerian Breweries Plc	16	5	5	6	4
			1	1	3	9
53	Guinness Nigeria plc	11	5	5	6	4
			1	1	3	9
54	International breweries plc	NA	5	5	6	4
			1	1	3	9
55	Champion Breweries Plc	NA	5	5	6	4
			1	1	3	9
56	Dangote Sugar Refinery	NA	5	5	6	4
			1	1	3	9
57	DN Tyre and Rubber Plc	NA	5	5	6	4
			1	1	3	9
CONGLOMERATES						
58	SCOA Nigeria plc	NA	5	5	6	4
			1	1	3	9
59	Transnational Corporation Nigeria plc	75	5	5	6	4
			1	1	3	9
60	UAC Nigeria Plc	1	5	5	6	4
			1	1	3	9
61	Julius BERGER Nigeria plc	36	5	5	6	4
			1	1	3	9
62	Chellarams Plc	NA	5	5	6	4
			1	1	3	9
CONSTRUCTION AND REAL ESTATE						
63	UACN Property Development plc	NA	5	5	6	4
			1	1	3	9
HEALTH CARE						

64	Fidson Health Care Nigeria Plc	NA	5 1	5 1	6 3	4 9
65	Glaxo Smithkline Consumer Nig. Plc	NA	5 1	5 1	6 3	4 9
ICT						
66	Computer Warehouse Group CWG	NA	5 1	5 1	6 3	4 9
67	Airtel Africa plc	82	5 1	5 1	6 3	4 9
68	MTN Nigeria Communications Ltd	NA	5 1	5 1	6 3	4 9
NATURAL RESOURCES						
69	BOC Gases Plc	NA	5 1	5 1	6 3	4 9
70	Aluminium Extrusion Industries plc	NA	5 1	5 1	6 3	4 9
OIL AND GAS						
71	Oando Plc	78	5 1	5 1	6 3	4 9
72	Conoil Plc	NA	5 1	5 1	6 3	4 9
73	Eterna Plc	NA	5 1	5 1	6 3	4 9
74	MRS Oil Nigeria Plc	NA	5 1	5 1	6 3	4 9
75	Total Nigeria Plc	NA	5 1	5 1	6 3	4 9
76	Seplat Petroleum Development Co.	89	5 1	5 1	6 3	4 9
77	Fort Oil Plc	53	5 1	5 1	6 3	4 9
78	Capital Oil Plc	NA	5 1	5 1	6 3	4 9
AGRICULTURE						
79	Okomu Oil Palm Company Plc	NA	5 1	5 1	6 3	4 9
80	Presco Plc	NA	5 1	5 1	6 3	4 9
81	Lives Stock Feeds Plc	NA	5 1	5 1	6 3	4 9
SERVICES						
82	Redstar Express Plc	NA	5 1	5 1	6 3	4 9
83	Tantalizers Plc	NA	5 1	5 1	6 3	4 9
84	Capital Hotel Plc	NA	5 1	5 1	6 3	4 9

85	Ikeja Hotel Plc	NA	5	5	6	4
			1	1	3	9
86	Tourist Company of Nigeria Plc	NA	5	5	6	4
			1	1	3	9
87	Daar Communications Plc	NA	5	5	6	4
			1	1	3	9
88	University Press Plc	NA	5	5	6	4
			1	1	3	9
89	Secure Electronic Technology Plc	NA	5	5	6	4
			1	1	3	9
90	Nigeria Aviation Handling Company	NA	5	5	6	4
			1	1	3	9

Source: Researchers' compilation from CSRHUB (Nov.2021)

Appendix C

Details of Table 3.4 SI Index used to measure DV

S/N	ECONOMIC INDICATORS
1	Income
2	Operational expenses
3	Employee remunerations and assistance
4	Costs to providers of Assets
5	Expenses to government
6	Communal funds
7	Hazards and prospects postured by climate change
8	Monetary implications of the hazard and prospect postured by climate change
9	Expenses of plans taken to manage hazards or prospects postured by climate change
10	Worth of clear profit plan commitments
11	Method of settling the clear profit plan commitments (Charges)
12	The proportion of remuneration donated by the employer and employee
13	Monetary support acknowledged by the government

-
- 14 Expenses on local contractors at momentous locations of operations

SOCIAL INDICATORS

- 15 Reimbursements to full-time employees
- 16 Damage/grievance rate/job-related sicknesses rate
- 17 Healthiness and wellbeing employee physical activity
- 18 Illustration of males and females in governance physiques
- 19 Identical compensation of males and females
- 20 Juvenile labour
- 21 Resident community expansion programs
- 22 Shareholder appointment plans
- 23 Anti-corruption strategies and measures
- 24 Partisan monetary and other types of donations made by the organization
- 25 Contractors and customers focus on assessments for influences on society.
- 26 Possible negative influences on society identified in the source chain

ENVIRONMENTAL INDICATORS

- 27 Renewable and non-renewable materials used
- 28 Recycled materials used to manufacture the organization's products and services
- 29 Fuel/electricity/heating/cooling/steam consumption
- 30 Electricity/heating/cooling/steam sold
- 31 Reduction in energy consumption due to conservation
- 32 Water is withdrawn for operations.
- 33 Water is recycled and reused.
- 34 Gross direct Greenhouse gas Emissions
- 35 Organic Pollutants
- 36 Water discharge and quality of water discharged
-

37	Waste and method of disposal
38	Number and volume of spills
39	Environmental protection expenditures
40	Assessment of suppliers based on environmental risks
41	Assessment of clients based on environmental risks
	GOVERNANCE INDICATORS
42	Governance composition and structure
43	Capabilities of associates of the peak governance body
44	Structure of board executives
45	Directors' tenancy period
46	Other significant spots and commitments of directors
47	Shareholder representation
48	The chairman is an administrative executive officer.
49	Clash of interest – cross-board association and interrelated party disclosures
50	Role of the board in finding and supervising economic, social, and environmental influences
51	The committee that integrates substantial features in the sustainability report
52	Main governance body in hazard management
53	Executives' and directors' compensation
54	Establishment's code of conduct and code of ethics
55	Apparatuses for seeking advice on honesty matters
56	Signal-propelling apparatuses or hotlines
	Total: 56 items

APPENDIX D: DIAGNOSTIC CHECKS AND MULTIVARIATE ANALYSIS

DESCRIPTIVE STATISTICS

```
. sum dvti access_finance comp bsze boind bgd bcsrc csze age envp lev
```

Variable	Obs	Mean	Std. Dev.	Min	Max
-----+-----					
dvti	504	.3295777	.0594607	0.25	.5178571
access_fin~e	504	.9940476	.0769981	0	1
comp	504	.4761905	.499929	0	1
bsze	504	10.73413	3.672577	4	22
boind	504	5.222634	3.670575	0	25
-----+-----					
bgd	504	17.51032	12.31823	0	66.66666
bcsrc	504	.0972222	.2965545	0	1
csze	504	18.07300	2.174317	14.226	24.064
age	504	7.590240	.0328821	7.07	7.9136
envp	504	.2919974	.1221083	0	.6666667
-----+-----					
lev	504	.6892983	.5373867	0	5.600808

CORRELATION ANALYSIS

pwcorr dvsi access_finance comp bsze boind bgd bcsrc csze age envp lev

		dvsi	access~e	comp	bsze	boind	bgd	bcsrc	
-----+-----									
dvsi		1.0000							
access_fin~e		0.4293	1.0000						
comp		0.1714	0.0738	1.0000					
bsze		0.3260	0.2264	0.0572	1.0000				
boind		0.2991	0.1102	0.2674	0.3995	1.0000			
bgd		0.2795	0.1101	-0.0189	0.1301	0.1692	1.0000		
bcsrc		0.1543	0.0254	0.0358	0.3012	0.0714	0.0432	1.0000	
csze		0.5954	0.4413	0.0596	0.6175	0.1610	0.2149	0.3447	
age		0.6563	0.6520	0.1106	0.3473	0.1665	0.1687	0.0401	
envp		0.5925	0.1852	-0.0406	0.2230	0.0951	0.1536	0.2576	
lev		0.1624	0.0969	-0.1214	0.0900	-0.0200	0.0377	0.0506	
-----+-----									
		csze	age	envp	lev				
csze		1.0000							
age		0.6765	1.0000						
envp		0.3776	0.2828	1.0000					
lev		0.1456	0.1494	0.0649	1.0000				

OLS Model

reg dvsi access_finance comp bsze boind bgd bcsrc csze age envp lev

Source		SS	df	MS	Number of obs	=	504
-----+-----					F(10, 493)	=	103.01
Model		1.20276223	10	.120276223	Prob > F	=	0.0000
Residual		.57563055	493	.001167608	R-squared	=	0.6763
-----+-----					Adj R-squared	=	0.6698
Total		1.77839278	503	.003535572	Root MSE	=	.03417

dvsi		Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----							
access_finance		.0007634	.0260972	0.03	0.977	-.050512	.0520389
comp		.0129062	.0032336	3.99	0.000	.0065528	.0192595
bsze		-.0015427	.0005852	-2.64	0.009	-.0026925	-.0003928
boind		.002631	.0004846	5.43	0.000	.0016788	.0035832
bgd		.0004702	.0001289	3.65	0.000	.0002168	.0007235
bcsrc		-.0050716	.0058191	-0.87	0.384	-.0165048	.0063616
csze		.0035096	.0008767	4.00	0.000	.001787	.0052322
age		.0255654	.0028846	8.86	0.000	.0198977	.0312331
envp		.2004404	.0137855	14.54	0.000	.1733548	.2275261
lev		.0081416	.0028745	2.83	0.005	.0024938	.0137895
cons		3.89e-16	.0197282	0.00	1.000	-.0387618	.0387618

		0.6561
		= 0 (assumed)

	Coef.	Std.

	-.003503	.016
	.0074947	.003
	-.0019381	.000

		max =		6
Wald chi2(10)		=		2444.55
Prob > chi2		=		0.0000

Err.	z	P> z	[95% Conf. Interval]	

834	-0.22	0.829	-.035222	.0282159
405	1.95	0.051	-.0000325	.015022

Number of obs = 504

Number of groups = 84

Obs per group:

$$\min = 6$$

```
avg = 6.0
```

max = 6

$$= 2444.55$$

```
Prob > chi2      =      0.0000
```

[95% Conf. Interval]

$$-.035222 \quad .0282159$$

$\cdot .0000325 \quad \cdot .015022$

$$-.0029183 \quad - .0009579$$

.0006067 .002385

.0000917 .0005396

-.0140135 .0139981

.0000987 .0030343

.0283737 .0379268

.1973743 .2490575

$\cdot .0032413$ $\cdot .0133756$

-.0296491 .0179806

```

-----+-----
sigma_u | .03078685
sigma_e | .01687945
rho | .76887703 (fraction of variance due to u_i)
-----+-----

```

```

. estimate store random
. xttest0
Breusch and Pagan Lagrangean multiplier test for random effects
dvs1[id,t] = Xb + u[id] + e[id,t]

```

Estimated results:

	Var	sd = sqrt(Var)
dvs1	.0035356	.0594607
e	.0002849	.0168795
u	.0009478	.0307869

```

Test:   Var(u) = 0
        chibar2(01) = 666.25
Prob > chibar2 = 0.0000

```

	Coef.	Std.
β_0	-0.0279	.016
β_1	-.0044578	.004
β_2	.0046632	.004
β_3	.0010111	.000

	F(10,410)	=	237.01	
	Prob > F	=	0.0000	

Err.	t	P> t	[95% Conf. Interval]	

974	-0.27	0.788	-.0370844 .0281688	
314	1.03	0.304	-.0042444 .0135709	

Number of obs = 504

Number of groups = 84

Obs per group:

$$\min = 6$$

```
avg = 6.0
```

max = 6

$$= 237.01$$

Prob > F	=	0.0000
----------	---	--------

dvsi	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
------	-------	-----------	---	------	----------------------

access_finance		-.0044578	.0165974	-0.27	0.788	-.0370844	.0281688
comp		.0046632	.0045314	1.03	0.304	-.0042444	.0135709

comp		.0046632	.0045314	1.03	0.304	-.0042444	.0135709
------	--	----------	----------	------	-------	-----------	----------

```
bsze | -.0019111 .0005373 -3.56 0.000 -.0029672 -.000855
```

boind		.0012534	.000498	2.52	0.012	.0002745	.0022323
-------	--	----------	---------	------	-------	----------	----------

```
bgd |      .0002831      .0001216          2.33      0.020          .0000441          .0005222
```

```
bcsrc |  -.0009672   .0086728   -0.11   0.911   -.0180158   .0160814
```

```
csze |      .0010133      .0008713      1.16      0.246      -.0006995      .0027262
```

```
age |      .0346566      .0027235      12.73      0.000      .0293029      .0400102
```

```
envp | .2259181 .0143386 15.76 0.000 .1977317 .2541045
```

```
lev |      .0041807      .0054864          0.76      0.446      -.0066042      .0149656
```

cons		-.0052826	.0119637	-0.44	0.659	-.0288005	.0182352
------	--	-----------	----------	-------	-------	-----------	----------

```
-----+-----
sigma_u | .03213593
sigma_e | .01687945
rho | .78376698 (fraction of variance due to u_i)
-----
```

F test that all $u_i=0$: $F(83, 410) = 19.40$ Prob > F = 0.0000

HETEROSCEDASTICITY TEST

. xttest3

Modified Wald test for groupwise heteroskedasticity
in fixed effect regression model

$H_0: \sigma(i)^2 = \sigma^2$ for all i

chi2 (84) = 5.0e+06

Prob>chi2 = 0.0000

MULTICOLLINEARITY TEST (WITHOUT MODERATION)

VIF

Variable	VIF	1/VIF
-----+-----		
csze	3.22	0.310383
age	2.83	0.352907
bsze	1.99	0.502526
access_fin~e	1.74	0.574886
boind	1.36	0.733546
bcsrc	1.28	0.779498
envp	1.22	0.819203
comp	1.13	0.888254
bgd	1.09	0.920212
lev	1.05	0.953735
-----+-----		
Mean VIF	1.69	

MULTICOLLINEARITY TEST (WITH MODERATION)

VIF

Variable	VIF	1/VIF
-----+-----		
mean_bsz_e~p	8.98	0.111393
mean_bcsrc~p	7.95	0.125765
bcsrc	7.09	0.141070
mean_bin_e~p	6.10	0.163897
bsze	4.16	0.240534
boind	3.94	0.253599
mean_bgd_e~p	3.79	0.263742
age	3.52	0.284034
csze	3.39	0.295294
envp	3.24	0.308528
bgd	2.85	0.351012
access_fin~e	1.83	0.547432
comp	1.20	0.830797
lev	1.05	0.950109
-----+-----		
Mean VIF	4.22	

PANEL CORRECTED STANDARD ERROR TEST

xtpcse dvsi access_finance comp bsze boind bgd bcsrc csze age envp lev

Linear regression, correlated panels corrected standard errors (PCSEs)

Group variable: id Number of obs = 504

Time variable: year Number of groups = 84

Panels: correlated (balanced) Obs per group:

Autocorrelation: no autocorrelation min = 6
avg = 6
max = 6

Estimated covariances = 3570 R-squared
= 0.6763

Estimated autocorrelations = 0
Wald chi2(10) = 6694.94

Estimated coefficients = 11
Prob > chi2 = 0.0000

		Panel-corrected				
		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
-----+-----						
access_finance		.0007634	.0108599	0.07	0.944	-.0205216 .0220485
comp		.0129062	.0020154	6.40	0.000	.008956 .0168564

bsze		-.0015427	.0003797	-4.06	0.000	-.0022868	-.0007985
boind		.002631	.0005807	4.53	0.000	.0014929	.0037691
bgd		.0004702	.0000864	5.44	0.000	.0003008	.0006395
bcsrc		-.0050716	.0033118	-1.53	0.126	-.0115627	.0014194
csze		.0035096	.0005412	6.48	0.000	.0024488	.0045704
age		.0255654	.002001	12.78	0.000	.0216435	.0294873
envp		.2004404	.0123048	16.29	0.000	.1763236	.2245573
lev		.0081416	.0012694	6.41	0.000	.0056537	.0106296
_cons		3.89e-16	.0090649	0.00	1.000	-.0177668	.0177668

```
. xtglsl dvsl access_finance comp bsze boind bgd bcsrc csze age envp lev
```

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: homoskedastic

Correlation: no autocorrelation

Estimated covariances	=	1	Number of obs	=	504
Estimated autocorrelations	=	0	Number of groups	=	84
Estimated coefficients	=	11	Time periods	=	6
			Wald chi2(10)	=	1053.09
Log likelihood	=	992.1211	Prob > chi2	=	0.0000

	dvsi	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
access_finance		.0007634	.0258108	0.03	0.976	-.0498248	.0513517
comp		.0129062	.0031981	4.04	0.000	.006638	.0191744
bsize		-.0015427	.0005788	-2.67	0.008	-.0026771	-.0004082
boind		.002631	.0004793	5.49	0.000	.0016916	.0035705
bgd		.0004702	.0001275	3.69	0.000	.0002202	.0007201
bcsrc		-.0050716	.0057552	-0.88	0.378	-.0163516	.0062084
csze		.0035096	.0008671	4.05	0.000	.0018101	.0052091
age		.0255654	.002853	8.96	0.000	.0199737	.0311572
envp		.2004404	.0136343	14.70	0.000	.1737178	.2271631
lev		.0081416	.002843	2.86	0.004	.0025695	.0137138
_cons		1.42e-14	.0195117	0.00	1.000	-.0382423	.0382423

WITH MODERATION

```
. xtpcse dvsi access_finance comp bsize boind bgd bcsrc envp demeaned_bsz_envp demeaned_bin_envp  
demeaned_bgd_envp demeaned_bcsrc_envp csze ag > e lev
```

Linear regression, correlated panels corrected standard errors (PCSEs)

```
Group variable:   id               Number of obs   =       504  
Time variable:   year             Number of groups =       84  
Panels:          correlated (balanced) Obs per group:  
Autocorrelation: no autocorrelation min           =        6  
                                           avg           =        6  
                                           max           =        6  
  
Estimated covariances = 3570  
R-squared = 0.6793  
  
Estimated autocorrelations = 0 Wald chi2(14) =  
14927.51  
Estimated coefficients = 15 Prob > chi2 =  
0.0000
```

```
-----  
          |               Panel-corrected  
dvsi |      Coef.   Std. Err.      z    P>|z|      [95% Conf. Interval]  
-----+-----
```

access_finance		.0077456	.0126486	0.61	0.540	-.0170453	.0325364
comp		.0123885	.0016599	7.46	0.000	.0091351	.0156419
bsize		-.0014565	.0004201	-3.47	0.001	-.0022799	-.000633
boind		.0029563	.0006073	4.87	0.000	.0017661	.0041465
bgd		.0004645	.0000542	8.57	0.000	.0003583	.0005708
bcsrc		-.0084514	.0031093	-2.72	0.007	-.0145455	-.0023573
envp		.2012467	.0093412	21.54	0.000	.1829383	.2195551
demeaned_bsz_envp		.0018026	.0029269	0.62	0.538	-.0039341	.0075392
demeaned_bin_envp		-.0047792	.0036967	-1.29	0.196	-.0120246	.0024661
demeaned_bgd_envp		-.0001785	.0007276	-0.25	0.806	-.0016045	.0012475
demeaned_bcsrc_envp		.0782625	.0334117	2.34	0.019	.0127768	.1437481
csze		.0035736	.000543	6.58	0.000	.0025094	.0046379
age		.0237499	.0020822	11.41	0.000	.0196689	.0278308
lev		.0082476	.001226	6.73	0.000	.0058446	.0106505
_cons		.0032511	.0104569	0.31	0.756	-.0172441	.0237464

```
-----
xtscc dvti access_finance comp bsize boind bgd bcsrc envp demeaned_bsz_envp demeaned_bin_envp
demeaned_bgd_envp demeaned_bcsrc_envp csze age
> lev
```

Regression with Driscoll-Kraay standard errors	Number of obs	=	504
Method: Pooled OLS	Number of groups	=	84
Group variable (i): id	F(14, 5)	=	3555.27
maximum lag: 2	Prob > F	=	0.0000

R-squared = 0.6793

Root MSE = 0.0342

		Drisc/Kraay					
	dvsi	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	

access_finance		.0077456	.0071481	1.08	0.328	-.0106293	.0261204
comp		.0123885	.0025525	4.85	0.005	.0058272	.0189499
bsze		-.0014565	.0005005	-2.91	0.033	-.0027431	-.0001698
boind		.0029563	.0006008	4.92	0.004	.0014119	.0045007
bgd		.0004645	.0000229	20.27	0.000	.0004056	.0005234
bcsrc		-.0084514	.0063918	-1.32	0.243	-.024882	.0079793
envp		.2012467	.0050071	40.19	0.000	.1883755	.2141179
demeaned_bsz_envp		.0018026	.0050646	0.36	0.736	-.0112163	.0148214
demeaned_bin_envp		-.0047792	.0050141	-0.95	0.384	-.0176684	.0081099
demeaned_bgd_envp		-.0001785	.001071	-0.17	0.874	-.0029315	.0025745
demeaned_bcsrc_envp		.0782625	.0457419	1.71	0.148	-.0393209	.1958458
csze		.0035736	.0011128	3.21	0.024	.0007132	.0064341
age		.0237499	.0028051	8.47	0.000	.0165392	.0309606
lev		.0082476	.000973	8.48	0.000	.0057465	.0107487
_cons		.0032511	.0073731	0.44	0.678	-.015702	.0222043

CROSS SECTIONAL DEPENDENCY

linktest

Source	SS	df	MS	Number of obs	=	504
Model	1.21651559	2	.608257796	F(2, 501)	=	542.36
Residual	.561877187	501	.001121511	Prob > F	=	0.0000
				R-squared	=	0.6841
				Adj R-squared	=	0.6828
Total	1.77839278	503	.003535572	Root MSE	=	.03349
dvsi	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
_hat	.9194506	.0874687	10.51	0.000	.7475999	1.091301
_hatsq	.1730037	.1761722	0.98	0.327	-.1731237	.5191311
_cons	.0073382	.0125814	0.58	0.560	-.0173807	.032057