

# 1 Geopolitical Risks (GPRs) and Foreign Direct Investments: A 2 Business Risk Approach

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## 6 **Abstract**

7 This research seeks to investigate the effect of Geopolitical Risks on Foreign Direct  
8 Investment. Data are from all sixteen countries in West Africa. This research uses the  
9 Generalized linear model to examine the effect of geopolitical risk on Foreign Direct  
10 Investment. The findings reveal that although geopolitical risk(s) have an impact on Foreign  
11 Direct Investment, however, not all the components of Geopolitical risk(s) have the same  
12 relationship with Foreign Direct investments. The implication for this is that investors need to  
13 have sufficient information on Geopolitical Risk(s) to do a risk assessment and see whether the  
14 Geopolitical Risk(s) is within their risk appetite and risk culture. This research adds to the  
15 literature of decision theory, which states that the client must have sufficient knowledge about  
16 issues and topics of interest before making a decision.

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18  
19 **Index terms**— geopolitical risk. foreign direct investment. politics. geography. macroeconomics. risk  
20 management.

## 21 **1 Introduction**

22 geopolitical Risk (GPR) poses a serious concern for investors all over the world. In Nigeria, religious and political  
23 instability caused a massive loss in oil and gas industry (Inyang 2018). Investments in Africa and much of the  
24 Middle East were affected by the Arab spring for a long time 1 . "Brexit 2

## 25 **2 Malmgren 2015**

26 In June 2016 are few examples of geopolitical repercussions on investment. These incidents are indicators  
27 that maximum consideration should be given to GPR when making investment decisions. The causes of GPR  
28 are, political instability, terrorism, conflict between countries or state that can disrupt business activities and  
29 international relation ( , Caldara and Iacoviello 2018), these risks are becoming significant as most important  
30 researches have identified them as essential determinants of investment decision (Carney 2016 Foreign direct  
31 investment (FDI) is an investment in a business by an investor from another country for which the foreign  
32 investor has control (10% or more voting stock) over the company purchased ??OECD, 1998). FDI is the inflow  
33 of investment by an investor into a specific country with a view of having a controlling interest in the firm.  
34 ??Jeffrey & Spaulding, 2005). Generally, FDI improves employment, productivity, and economic growth. It  
35 plays a role in development, foreign exchange, investment, and tax revenue gaps in developing countries ??Smith,  
36 1997; ??uazi, 2007).The in flows of FDI can contribute to Africa's development efforts of employment generation  
37 and growth, having a stake in the global economy, the transfer of modern technologies, improving efficiency, and  
38 increasing the skills of local Labor ??Dupasquier & Osakwe, 2003; ??nyanwu, 2003).Because of these advantages,  
39 African countries are striving to avoid any risk that might discourage foreign direct investment.

40 Countries in West Africa have experienced numerous of political instabilities over the years, some countries  
41 in this region are the most corrupt in the world, their economy is not booming, natural hazard affects some of

## 6 II. GEOPOLITICS, GEOPOLITICAL RISK AND INVESTMENT

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42 these countries, and FDI inflows to West Africa are not stable. The above mentioned are the motivations for  
43 researching on west Africa.

44 Generally, this paper investigates whether geopolitical risks (GPRs) have an impact on FDI taking the following  
45 research objectives into cognizance: to ascertain risks associated with geopolitics; to assess if all the components  
46 of GPR(s) affect FDI the same level. In trying to fulfill these objectives, it is necessary to look at geopolitics from  
47 a business risk approach. Business risk involves looking at a business or investment as a whole and identifying  
48 events and circumstances that may affect such business from achieving its G objectives(IIA 2009). Knowing GPR  
49 is not just about forecasting market and price instability events, but it is more helpful at scanning the business  
50 environment to help strengthen investing strategy when faced with geopolitical events. (Malmgren 2015).For this  
51 research, three risk-associated variables (geography, politics, and macroeconomics) determine GPR.

52 This paper contributes to the literature on the rational model of decision theory, which states that the client  
53 firstly must be aware of the problem before deciding an investment decision. This paper is among the few that  
54 measures GPR with three variables (Geography, macroeconomics, and politics), and finally, this research treats  
55 GPR as a business risk.

56 The organization of this paper is as follows; Section two talks of the literature review. Section three is for data  
57 and methodology. The result and discussion are in four. Finally, five talks of the conclusion and implications of  
58 the research.

### 59 3 II.

### 60 4 Literature Review a) Theoretical Framework

61 Risk management relies on the concept rooted from decision theory (Vaughan 1997) , which means that, the  
62 theory of decision with specific emphasis on normative and rationalistic models for decision making, connect  
63 risk management and investment . Steele and Stefánsson (2015) stated that decision theory focuses on the  
64 proof (reasoning) of an agent's choice. The normative and rationalistic model explained the ideas and logic of  
65 how decisions are made, taking into cognizance the decision maker's awareness of the issue or problem, putting  
66 forward expected outcomes, carefully creating strategies to weigh alternative means, and deciding what alternative  
67 is reasonably accepted (Simon 1960). Risks and uncertainties are the fundamental challenges facing decision-  
68 makers. Therefore, risk management attempts to tackle the unpredictability that hinders the achievement of  
69 objectives.(Commission 2004).

### 70 5 b) Conceptualization

71 i. Understanding Risk Appetite and Risk culture, and the Nature of Risk Management Collier and Agyei-  
72 Ampomah (2006), Stated to understand the nature of risk management, it is useful to know the risk appetite  
73 and risk culture of the organization. Risk appetite is the volume or amount of risk an organization is willing  
74 to take in pursuit of value. While the shared attitudes, values, and practices that define how an organization  
75 view risk in its daily activities is what is called the risk culture. ??u, Roebuck et al. (2002), explained that the  
76 conditions and forces within an organization's internal environment, industry forces, and macro-environmental  
77 forces are the factors that give rise to business risk. Millichamp (2002), explained that external factors stem  
78 from outside the entity and include: change in legislation; interest rates change; change in the exchange rate;  
79 perception or attitude of the public; untested technology; natural threats (such as floods); bad-debt; judicial  
80 matters; environmental issues. He continued that any of these factors could adversely affect an organization,  
81 which in turn have an impact on its financial statement. Moeller (2007), explained that risk management is a  
82 process that starts from the identification of risks to how to respond to these risks. According to Curtis and  
83 Carey (2012), risk management involves the following stages: having an in-depth knowledge on the universe of  
84 risks that constitute to the organization's risk profile; attaching values to them(risks) using a define set of criteria  
85 including both qualitative and quantitative techniques; assessing and managing their interactions by viewing  
86 risk as a holistic approach; determining risk management priorities by comparing the level of risk against the  
87 organization's target risk levels and tolerance thresholds; and deciding on how to respond to risks.

### 88 6 ii. Geopolitics, Geopolitical Risk and Investment

89 In her book-,Geopolitics for Investor Malmgren (2015), explained that geopolitics is more than just foreign policy  
90 but an inclusive subject also dealing with vulnerability to events that are not in the scope of a country's control.

91 Earliest definition of geopolitics was about the interactions of geography with power and the role in  
92 international affairs of state (Kjellén 1911),since then the concept had included subject like international  
93 economics, and political integration (Agnew and Corbridge 1989), modern approach of the topic geopolitics  
94 concentrate on political discourse among international players stemming from all factors that determine the  
95 political and economic importance of a country's geographic location. ??Victor, Jaffe, et al. 2006) Geopolitics  
96 is a non-quantifiable risk, but dismissing it because of its non-quantifiable nature can cause a lot of damages  
97 for investors (Malmgren 2015).As a result of this, identifying GPR is becoming an important issue for investors.  
98 When uncertainty is too high, it can cause depression in investment, i.e., firms may prefer to wait for the  
99 uncertainty to resolve. ??

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### 100 7 iii. Components of Geopolitics: Geography, Politics, and 101 Macroeconomic

102 Generally, geography is the study of the World and its features. Dictionary (2006)says, "Geopolitics is the study  
103 of how geography and economics have an influence on politics and the relations between nations and a study of  
104 the influence of such factors as geography, economics, and demography on the politics and especially the foreign  
105 policy of a state." Malmgren (2015), explained that geopolitics include the effort of countries to project power  
106 beyond their territories to fulfill or achieve their national interest-,and because of this pursuit, geopolitics ties  
107 geography and politics. In a nutshell, geopolitics had always been closely tied to the act of mapping the world.  
108 Flint (2006), stated that geopolitics is part of human geography. Human geography involves understanding  
109 what makes places unique and how such places connect and interact (Knox and Marston 2001). Furthermore  
110 geographers not only study places but the features of such places, e.g., weather patterns, physical settings, etc.  
111 (Flint 2006) The causes of GPR are political instability, terrorism, a conflict between countries or states that  
112 can disrupt business activities and international relations(Malmgren 2015, Caldara and Iacoviello 2018).Political  
113 instability and violence can damage investment, reduce the productiveness of the overall market, which in turn  
114 can affect profitability or survival of investment. Therefore, foreign investors tend to worry about political risk  
115 when deciding as to what foreign markets to expand into (Baek and Qian 2011). MIGA, 2011 identified three  
116 types of political risks that discourage foreign investment: first, nationalization or expropriation of foreign assets;  
117 second, irregularities in policies and regulations in FDI-related policies; and third, war and political violence,  
118 including terrorist activities.

119 Geopolitics is complex subject that also includes macroeconomic variables, e.g., interest rates, inflation  
120 levels, and trade barriers all affect investment decisions. For instance, any sign of price destabilizations in  
121 the global economy usually leads to a geopolitical event (Malmgren 2015).Furthermore, improving growth rates  
122 and consistent macroeconomic policies can enhance the attraction of a particular market. (Busse and Hefeker  
123 2007)

### 124 8 c) Foreign Direct Investment

125 A well-known conceptualization and theoretical framework for FDI determinants is called the "OLI" framework.  
126 The framework" involves grouping microand macro-level factors that ascertain why and where multinational  
127 companies (MNCs) invest abroad. It outlines that firms invest abroad to seek for three types of advantages:  
128 Ownership (O), Location (L), and Internalization (I) advantages. the ownership aspect allows a firm to compete  
129 with other firms in the markets they operate regardless of the disadvantages of being foreign. Location advantages  
130 are those that makes the chosen foreign country a more suitable business environment for FDI. These advantages  
131 can be in the form of labor advantages, natural resources, government regulations, transport costs, macroeconomic  
132 stability, and cultural factors. Exploiting an imperfection in external markets can be referred to as Internalization  
133 advantages. A typical scenario is the Caldara and Iacoviello (2018), constructed the geopolitics risk (GPR) index  
134 by counting the number of times leading newspapers publish articles that discuss the geopolitical events and risks  
135 They created a monthly index starting from 1985 by doing automated textsearches of the electronic archives of  
136 eleven (11) newspapers. They concluded that Geopolitical risks cause a decrease in real activity and stock returns.

137 Kyereboah-Coleman and Agyire-Tettey (2008) used Ghana as a case study on the volatility of the real exchange  
138 rate. The result shows that the volatility of the real exchange rate has a negative influence on FDI inflow.

139 Hailu (2010) did an empirical analysis of the demand-side determinants of the inflow of FDI to African nations-  
140 . The result shows that natural resources, labor quality, trade openness, market accession, and infrastructure  
141 condition positively and significantly affect FDI inflows.

142 Soumyananda (2010) investigated the factors that determine FDI in Nigeria. By using the cointegration  
143 technique, the result concludes that natural resources, trade intensity, macroeconomic risk factors like inflation,  
144 and exchange rates are significant determinants of FDI flow to Nigeria.

145 Obida & Abu (2010) investigated the determinants of FDI in Nigeria by employing the error correction  
146 technique to analyze the relationship between market size, deregulation, political instability, exchange rate  
147 depreciation and foreign direct investment. The results reveal that the market size of the host country,  
148 deregulation, political instability, and exchange rate depreciation are the main determinants of foreign direct  
149 investment in Nigeria.

### 150 9 a) Sample and Variables

151 This study used a total of sixteen countries spanning from the year 2011 to 2017 to show the link between GPR  
152 and FDI. The data focuses on countries in West Africa. West African countries use in this research are Benin,  
153 Burkina Faso, Cape Verde, The Gambia, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Liberia, Mali, Mauritania,  
154 the Niger, Nigeria, Senegal, Sierra Leone, and Togo.

155 This study uses four variables. One dependent variable is Foreign Direct Investment (FDI), and the other  
156 three independent variables are Geographical Risk (GR), Political risk (PR), and Macroeconomic Risk (MR).

### 157 10 Independent Variables Dependent Variable b) Research 158 Model

159 This research uses the General least square model to effectively overcome the weaknesses of ordinary least squares  
160 to guarantee that there is an efficiency of the model parameters, unbiased standard errors, valid t statistics, and  
161 p-values, and to account for the presence of autocorrelation. Generalized Least Squares (GLS) omits the problem  
162 of heteroskedastic or auto-correlation observation. The simple form of the model is;  $Y = X\beta + \epsilon$

163 The Institute for Environment and Human Security, United Nations University, provides Information on  
164 geographical risks. Every year (since 2011), the institution has provided a world risk index in its publication titled  
165 World Risk Report. The World Risk Index indicates the probability that a country or region will be affected by  
166 a disaster. The five components of the world risk index are exposure to natural hazards such as earthquakes,  
167 storms, floods, droughts, and sea-level rise; vulnerability of people and society to natural disaster; susceptibility,  
168 i.e., the extent societies able to cope with severe and immediate disasters; coping capacities as a function of  
169 governance disaster preparedness and early warning, medical services, social and economic security; and adaptive  
170 capacities to future natural events and climate change.

171 Information on political risks are from the world governance indicator provided by World Bank. 4 IV.

### 172 11 Result and Discussion

173 The Worldwide Governance Indicators consist of six broad dimensions of governance: Voice and Accountability,  
174 Political Stability and Absence of Violence/Terrorism, Government Effectiveness, Regulatory Quality, Rule of  
175 Law, and Control of Corruption.

176 Information on Macroeconomics risks is from the World Bank and the international monetary fund (IMF).  
177 Information from the work bank includes; Foreign direct investment inflows, inflation, Merchandised trade, and  
178 employment. Exchange rate data is from the International Monetary Fund exchange rate archives. See table ??  
179 for the definition of variables and measurement. a) General least Square Regression result 4 For world Governance  
180 indicator, this study uses the percentile rank. The Percentile rank among all countries (ranges from 0 (lowest) to  
181 100 (highest) rank). This means, the lower the percentile ranks, the higher the risk and the higher the percentile  
182 rank the lower the risk.

### 183 12 GEOPOLITICAL RISK

184 ? GEOGRAPHICAL RISK

### 185 13 Data and Methodology

186 The Ordinary least square (OLS) was first used as the research model, however, the observations show  
187 Heteroskedasticity and Correlation. Therefore, the research model had to change from that of the ordinary least  
188 square to the General least square(GLS). The Generalized Least Squares (GLS) is a technique for estimating the  
189 unknown parameters in a linear regression model when there is some amount of correlation (Alexander Aitken  
190 1934)

191 By using the GLS model, all variables of Geopolitics have a significant impact on Foreign Direct investment.

192 Exposures to natural hazards and Susceptibility risk have a significant impact of 0.039 and 0.008 on FDI,  
193 respectively. Exposure index has a negative relationship with FDI, which means: when the risk of exposure to  
194 the natural hazards is high, then the foreign direct investment will decrease. However, this is not the case of  
195 susceptibility risk: which is the likelihood of suffering harm in the event of a natural hazard process. The result  
196 shows that susceptibility risk has a positive effect on FDI, meaning when susceptibility risk increases, FDI also  
197 increases. An interpretation of this can be that in the case where a natural disaster causes suffering, investor  
198 sees it as a business opportunity.

199 Macro-economic variables; Merchandised trade, employment, exchange rate, inflation have a significant impact  
200 on FDI, respectively. Merchandised trade (trade) has an effect of 0.021 on FDI, and also a positive relationship  
201 with FDI. This means when trade openness for good increases, FDI also increases.

202 Employment (emp) has a significant impact of 0.001 on FDI, but with a negative relationship. Meaning, when  
203 a country's employment-population increases, then FDI decreases. Exchange Rate (exr) has a significant impact  
204 of 0.025 on FDI with a negative relationship on FDI. Finally, Inflation-GDP deflator (inf) has an impact of 0.065  
205 on FDI with a positive relationship. Take a scenario where higher inflations mean the value of a local currency  
206 is deflating, this will lead to more investment in the foreign currency (US dollars) as it is considered stronger.

207 Political indicators like Voice and Accountability (VAA), Political Stability and Absence of Violence (PSNV),  
208 Government Effectiveness (GoE), Regulation Quality (Reg Q), and Control of Corruption (COC) respectively  
209 have a significant effect on FDI. VAA has a significant impact of 0.019, with a negative relationship with FDI. Both  
210 PSNV and GoE have a significant effect of 0.024 and 0.033 respectively. Also, both have a positive relationship  
211 with FDI. Meaning when there are political stability and non-violence, then FDI will increase, and where there  
212 is Government Effectiveness, FDI will also increase. COC also has a significant effect of 0.084 on FDI with a  
213 positive relationship; means in the case of less corruption, FDI increase. Finally, strict regulations tend to cause  
214 a decline in FDI. It (Reg Q) has a significant impact on FDI. V.

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## 215 **14 Conclusion and Implications**

216 GPR(s) in West Africa are an important determinant for foreign investment since it has a significant impact on  
217 the flow of foreign direct investment in West Africa. However, not all components of GPR affect the inflows of  
218 foreign direct investment in the same way.

## 219 **15 The implications of these findings are in two folds**

220 Firstly foreign investors must have information on GPR before making an investment decisions because such risks  
221 have the potential to affect business operation. Foreign investors also need to know how GPRs affect different  
222 regions by so doing they can assess whether GPR(s) fits within their risk appetite and risk-culture. This also  
223 means, foreign firms need to have a department or consultant for the identification and assessment of GPR(s)

224 Secondly, government or country governance system needs to take into cognizance the GPR(s) that can cause  
225 a reduction in the flow of FDI. Components such as natural disasters, exchange rate regulation quality have a  
226 negative relationship with FDI, therefore the government needs to adjust or improve such issues or create policies  
that can address them <sup>1 2</sup>

Figure 1:

The World Risk index has five components of risk with the following scale;

Susceptibility: 9.61-16.55 very low risk, 16.56-22.06 low risk, 22.07-31.87 medium risk, 31.98-48.06 high risk, 48.07-67.63 very high risk.

Lack of adaptive capacities risk: 27.45-36.39 very low risk, 36.40-44.70 low risk, 44.71-49.40 medium risk, 49.41-57.27 high risk, 57.28-74.26 very high.

Lack of coping capacities risk: 35.75-55.45 very low, 55.46-68.89 low risk, 68

Figure 2: 3

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**15 THE IMPLICATIONS OF THESE FINDINGS ARE IN TWO FOLDS**

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228 .1 Appendix

229 .2 VARIABLE

230 Proxy/measurement Definitions

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## 15 THE IMPLICATIONS OF THESE FINDINGS ARE IN TWO FOLDS

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