

# FDI and Terrorism in developing Asia: Approaches and Discussion

Metaxas, Theodore and Kechagia, Polyxeni

University of Thessaly, Department of Economics, Volos, Greece

2017

Online at https://mpra.ub.uni-muenchen.de/78165/MPRA Paper No. 78165, posted 06 Apr 2017 13:35 UTC

**FDI and Terrorism in developing Asia:** 

**Approaches and Discussion** 

**Theodore Metaxas** 

Assistant Professor of Economic Development, Department of Economics,

University of Thessaly

E – mail: metaxas@uth.gr

Polyxeni Kechagia

PhD Researcher, Economist Department of Economics,

University of Thessaly

E - mail: kehagia@uth.gr

**Abstract** 

International capital flows have a significant social, political and financial impact on

the trading countries. These flows are distributed among the geographical regions and

as a result over the past decades underdeveloped, developing and transition economies

made efforts and proceeded to reforms so as to absorb more foreign capital inflows. A

determinant factor of foreign capital inflows is the host country's political stability.

We focus on external conflicts and terrorist attacks, taking into consideration the

remarkable increase in total terrorist attacks in recent decades. In addition, we focus

on a specific type of foreign capital flows and therefore we study the foreign direct

investment (FDI) inflows. We perform a literature review on empirical studies that

examined the interaction between FDI and terrorist attacks. The purpose of the essay

is to investigate and discuss the correlation between FDI and terrorism in developing

economies during the period 1970 – 2015 in the developing Asian countries. We aim

at evaluating the impact of terrorism on the FDI inflows in the region. The

contribution of the essay refers to the fact that it covers a larger period of time

compared to past studies and that it includes both fatalities and injuries occurring

from international terrorist attacks. We argue that terrorist attacks have a negative

impact on FDI inflows in the region.

**Keywords:** Foreign Direct Investment, Developing Countries, International Conflicts,

Terrorism, Asia

JEL Classification: F21, F51, R11, O53

1

## Introduction

International capital flows are influenced by various socioeconomic and political factors and they have a great social and financial impact on the trading countries. These flows are distributed among the geographical regions and as a result over the past decades mostly the underdeveloped, the developing and the transition economies make efforts and reforms so as to absorb more foreign capitals. Consequently, certain countries manage to attract more foreign investors and to become top destinations for foreign capitals.

Nevertheless, the amount of capital inflows invested in a host economy is determined by political and socioeconomic conditions and events. It is therefore essential for the host countries to improve the political and socioeconomic conditions, focusing on the political stability, the external conflicts and the terrorist attacks, taking into consideration the remarkable increase in total terrorist attacks in recent decades. At the same time the trading countries have to encounter successfully the challenges arising from the globalization process, as well as the financial and political shocks.

The purpose of the present essay is to investigate and discuss the interaction between external conflicts, focusing on terrorism, and foreign capital inflows, focusing on FDI inflows, in the Asian developing and emerging countries during the period 1970 – 2015. Furthermore, we pay attention on a factor that influences a country's political stability; that it to say external conflicts and terrorist attacks. In addition, we study a specific type of foreign capital flows; that is to day FDI inflows. We aim at evaluating the impact of terrorism on the FDI inflows in the developing economies, based on the fact that the region ranked first among the top FDI recipient areas in 2015. Therefore, we aim at investigating the impact of sudden political and economic events, including the financial crisis of 2008, on the correlation between FDI and international terrorism in the Asian developing and emerging countries.

In particular, we conduct an extended literature review on previous empirical studies regarding the FDI inflows in the developing countries. Subsequently, we proceed to a specified literature review on empirical studies that focused on the interaction between FDI inflows and terrorism in the developing economies. We compare and present in table form the dependent and independent variables, the methodology, the findings and the suggestions of the previous studies. We argue that

terrorism has a negative impact on the FDI inflows of the studied countries and that economic and political shocks are considered a deterrent for foreign investors. Consequently, we argue that the host countries with high rates of terrorism, which were significantly affected by the financial crisis, fail to absorb increased FDI inflows.

The contribution of the paper refers to the fact that we investigate an extented period of time. Thus, we study empirical papers published from 1970 to 2017, taking therefore into consideration the impact of important socio – economic and political historical events, including the Oil Crisis, the fall of the Berlin Wall, the Enlargement of the European Union, the recent financial crisis etc. In addition, we limit our study on a specific geographical region based on recent facts, as presented by the World Bank, the United Nations Conference on Trade and Development (UNCTAD) and the International Monetary Funf (IMF). Hence, we study the developing countries which managed to attract the majority of the FDI inflows during the year 2015. Furthermore, we include both fatalities and injuries occurring from international terrorist attacks (UNCTAD, 2015).

## The interaction between FDI and Terrorism

The review of the international literature concluded to a series of studies that focused on the interaction between FDI and terrorism worldwide. The dependent and independent variables used, as well as the most important empirical findings are presented in Table 1. The researches presented in Table 1 focused on samples of countries other than the Asian ones, which are presented in the following section. As expected the majority of the empirical papers reached to the conclusion that there is a negative impact of terrorism on FDI inflows. Thus, the countries that present high rates of terrorist incidents present decreased FDI inflows or become unattractive to foreign investors and multinational companies. Therefore, terrorism is considered a determinant factor of FDI inflows in the developing countries.

Table 1: Empirical findings on the interaction between FDI and terrorism in developing countries

Authors	Dependent	Independent variables	Empirical findings		
	variable				
Enders &	FDI	Terrorist attacks Negative impact of terrorism of			
<b>Sandler</b> (1996)			FDI.		
Ramcharran	FDI	Political risk (PR) and	Negative interaction between PR		
(1999)		economic performance	and FDI, positive interaction		
		(EP)	between EP and FDI		
Resnick (2001)	FDI	Political instability,	Political instability prevents FDI		
		Gross Domestic	inflows		
		Product (GDP), Trade			
		openness, conflicts			
Gupta et al	GDP,	Conflicts, Total	Conflicts have a negative impact		
(2004)	Government	Investments, Exports,	on financial growth, total		
	and defense	Population, Level of	investment and growth rate.		
	expenditure	Education			
Blomberg &	FDI	GDP, Distance,	Terrorist attacks, wars and		
Mody (2005)		Language, Corruption,	revolutions have a negative		
		Terrorist attacks, Wars,	impact on FDI		
		Revolutions			
Busse &	FDI	Gross National	Political stability, conflicts,		
Hefeker (2007)		Income, Trade	terrorism and corruption are		
		openness, Inflation,	determinants factors of FDI		
		Political risk,	inflows.		
		Terrorism, Corruption,			
		Bureaucracy, Political			
		stability			
Abadie &	FDI to GDP	Terrorist attacks, legal	Terrorism influences the		
Gardeazabal		and political distribution of capital inflo			
(2008)		framework, business	High rates of terrorist attacks are		
		environment	associated to low amount of FDI		
			inflows.		
Shahrestani &	GDP, FDI,	Labor force, Level of	Terrorism has a negative and		
Anaraki (2008)	Total	education,	statistically significant impact		

	productivity	Governance, on economic growth, FDI and			
	,	Terrorism, Inflation	total productivity.		
Papaioannou	Foreign	Institutional quality,	Institutional quality, terrorism		
(2009)	capital	terrorism, conflicts,	and conflicts are determinant		
(2007)	inflows	Population, Financial	factors of foreign capita		
	initows	risk	inflows.		
<b>Muckley (2010)</b>	FDI	Number of deaths			
Witchiey (2010)	1101	because of terrorist	Terrorism has a negative impact on FDI.		
		attacks	on rui.		
A 1 (2011)	EDI		TTh and the second seco		
Agrawal (2011)	FDI	Terrorist attacks,	There is a statistically		
		Number of victims of	significant negative impact of		
		terrorism, Population,	terrorism on FDI inflows.		
		GDP			
Alomar & El	FDI	Trade barriers,	Negative impact of terrorism on		
Sakka (2011)		Terrorist attacks,	FDI.		
		Population, GDP			
Berrebi &	Number of	GDP, Government	Terrorism has a negative impact		
<b>Ostwald (2011)</b>	deaths	expenditure, FDI,	on FDI inflows.		
	because of	Development aid, Civil			
	terrorist	right			
	attacks				
Hayakawa et al	FDI	GDP, Population,	Political stability, corruption and		
(2011)		Trade openness,	internal and external conflicts		
		Political risk,	are determinant factors of FDI		
		terrorism, conflicts,	inflows.		
		violence, political			
		stability, corruption			
Qian & Baek	FDI	GDP, Trade openness,	Political risk is a determinant		
(2011)		Political risk, Internal	factor of FDI inflows. The 9/11 <sup>1</sup>		
		and external conflicts	terrorist attack rendered the		
			political risk even more crucial		
			in attracting FDI in the		
			industrialized economies.		
Buchanan et al	FDI	Governance, Violence,	Institutional quality and the		

<sup>&</sup>lt;sup>1</sup> The terrorist attack of September 11, 2001

(2012)		Terrorism, Corruption,	absence of terrorism have a	
(===)		Trade openness,	positive impact on FDI inflows.	
		Domestic investment,	positive impact on 1 21 mile was	
		GDP		
	TTD 1			
Khan & Akbar	FDI	GDP, Trade openness,	Political risks, including	
(2013)		Political risk,	terrorism and conflicts, are	
		terrorism, conflicts,	determinant factors of FDI	
		violence, corruption,	inflows, mostly in the middle –	
		bureaucracy	income countries.	
Omay et al	FDI	Terrorist attacks	Negative impact of terrorism on	
(2013)			FDI inflows. The higher the	
			intensity of terrorist events the	
			higher the impact on FDI.	
Bandyopadhya	FDI	Terrorist attacks,	Domestic and international	
y et al (2014)		Development aid,	terrorism has a negative impact	
		GDP, Trade openness,	on FDI inflows. Development	
		inflation	aid could reduce of the risk of	
			terrorist attacks.	
Kinyanjui	FDI	Terrorist attacks Negative impact of terrorist		
(2014)			FDI.	
Asongu et al	FDI	Terrorist attacks,	Terrorism and development aid	
(2015)		Development aid,	affect negatively FDI inflows.	
		Trade openness,		
		Inflation, GDP,		
		Infrastructure		
Ezeoha &	FDI	Conflicts, GDP,	Conflicts and terrorism attacks	
Ugwu (2015)		Governmental policies,	have a negative impact on FDI	
(- · 1 · )		Trade openness,	inflows. The institutional	
		Inflation, Development	development moderated this	
		aid, Infrastructure,	influence.	
		Terrorism	inituonee.	
Data 1	EDI		Nicosalina in a Carta	
Motahari &	FDI	GDP, Level of	Negative impact of terrorism on	
Dehghani		education, Trade	FDI.	
(2015)		openness, Population		
Younas (2015)	GDP	Terrorism,	Terrorism has a negative impact	

		Globalization, FDI,	on FDI and economic growth.		
		Trade barriers	Globalization moderated the		
			impact of terrorism on FDI.		
Asongu &	Capital	Terrorism, Defense	Terrorism has a negative impact		
Amankwah –	flows	expenditure, GDP,	on FDI inflows.		
Amoah (2016)		FDI, Inflation,			
		Population			
Bezić et al	FDI	Terrorist incidents,	Terrorism and political stability		
(2016)		Natural disasters,	are the most important factors in		
		GDP, Capital openness	attracting FDI.		
Erkekoglu &	FDI	Exports, Population,	Political stability, terrorism and		
Kilicarslan		GDP, Violence,	violence are determinant factors		
(2016)		Inflation, Political	of FDI inflows.		
		stability, Terrorism,			
		Corruption			
Filer &	Capital	Terrorist incidents,	Terrorist incidents affect		
Stanišić (2016)	flows (FDI,	Language, Border,	negatively the FDI inflows.		
	portfolio	Religion	Terrorist attacks mostly affect		
	investment,		FDI inflows compared to		
	external		portfolio investment and		
	debt)		external debt.		
Gammoudi &	FDI	Political risk, Political	Political stability and the		
<b>Cherif</b> (2016)		stability, Internal and	absence of conflicts are		
		external conflicts,	determinant factors of FDI		
		Terrorism, Corruption, inflows.			
		Trade openness,			
		Market size, Inflation			

It is observed that the above presented empirical studies concluded that there is a negative relation between FDI inflows and terrorist attacks. Furthermore, political instability and poor institutional quality render more possible the presence of violence and conflicts, discouraging thus foreign investors. Consequently, internal and external conflicts do not only affect the amount of FDI inflows, but also the trust of foreign multinational companies towards the host country's economy. The reduced FDI

inflows because of terrorist attacks then prevent the country's total investments and economic growth.

In other words, it is observed that terrorism influences the worldwide capital allocation. A country's attractiveness towards foreign investors is affected by the intensity of the terrorist attacks, which is also influenced by sudden political and social socks, such as the 9/11 terrorist attack. It should though noticed that the impact of terrorism on FDI inflows in the developing counties should be studied along with other parameters, including the development aid, the host country's efforts to improve the political and institutional framework, as well as its external debt and other types of investment. Finally, the host country's classification regarding the level of development and its attitude towards the globalization process should also be considered.

Nevertheless, certain empirical studies reached to opposite or ambiguous results, as presented in Table 2, suggesting that terrorist attacks do not influence FDI inflows, considering that they are not a highly determinant factor. In addition, the impact of terrorism on FDI is determined and altered by other factors, such as the type of terrorism, the organisation membership, the intensity and the frequency of the attacks. Finally, the interaction is influenced by other political risk parameters.

Table 2: Controversial empirical findings on the interaction between FDI and terrorism in developing countries

Authors	Dependent	Independent variables	Empirical findings
	variable		
Enders et al	FDI	GDP, Human Capital,	Terrorism has a negative impact
(2006)		Distance, Labor force,	on FDI for the OECD <sup>2</sup> member
		Terrorism	countries. However, the impact
			for non-OECD member countries
			is insignificant.
Li (2006)	FDI	Violence, Conflicts,	No significant interaction between
		Interstate terrorism,	terrorist attacks and FDI inflows.
		Interstate wars	
Daude &	FDI	GDP, Labor force,	Conflicts, terrorism and Rule of
Stein (2007)		Distance, Trade barriers,	Law are not the most important

<sup>&</sup>lt;sup>2</sup> Organisation of Economic Co-operation and Development

-

		Institutional quality,	factors in attractive FDI. Political		
		Political risk	stability and the legal and		
			regulatory framework mostly		
			influence FDI inflows.		
Younas (2009)	Total	Development aid, GDP,	Domestic and interstate conflicts		
	investment to	Political quality, political	are not determinant factors of FDI		
	GDP	risk, terrorism, conflicts, inflows.			
		political stability			
Ali & Fiess	FDI	Institutional quality,	Institutional quality is a		
(2010)		political stability,	determinant factor of FDI;		
		conflicts, Corruption,	however, IPR have a stronger		
		GDP, Trade openness,	influence on FDI inflows		
		Inflation, Trade barriers,	compared to terrorism and		
		Taxation, Intellectual	violence.		
		Property Rights (IPR)			
Powers &	FDI	Business related	Business related terrorism has a		
Choi (2012)		terrorism, Non-business negative impact on FDI. However			
		related terrorism, the non-business related terror			
		Interstate and civil	impact on FDI is statistically		
		conflicts, market size,	insignificant.		
		Regime, Economic			
		Growth, Economic			
		Openness			
Okada (2013)	FDI	Financial openness,	Financial openness and		
		Political stability,	institutional quality have a		
		Institutional quality,	positive influence on FDI inflows;		
		Bureaucracy, Law &	nevertheless, bureaucracy and		
		Order, Conflicts,	Law & Order are the most		
		Terrorism, Trade	important determinant factors of		
		openness, Level of FDI.			
		education, inflation			
Mascarenhas	Terrorist	Type of terrorist attack,	Internal terrorism has a higher		
& Sandler	attacks	Inflation, Interstate	impact on FDI, remittances and		
(2014)		conflicts, Remittances,	development aid compared to		
		Development aid	interstate terrorism.		
Efobi &	Capital flows	Terrorist attacks,	Interstate and domestic conflicts		

Asongu (2015)		Corruption, Trade	increase the amount of capital
		openness, exchange rate	inflows.
Efobi et al	FDI	Development aid,	Terrorism has a negative impact
(2015)		Terrorist attacks, GDP,	on FDI inflows solely for the
		Trade openness,	highly corrupt countries.
		Infrastructure, Inflation	
Quyang &	Mergers and	GDP, Distance,	Terrorist incidents do not
<b>Rajan</b> (2016)	Acquisitions	Language, Trade	influence M&A. However, the
	(M&A) as	Openness, Terrorist	intensity and the frequency of
	FDI inflows	attacks	terrorist attacks have a negative
			impact on M&A.

In summary, it is argued that the impact of terrorism on FDI inflows is differentiated and affected by various factors, including the corruption in the host country and the type of the terrorist attacks (business related or non – business related, domestic or international etc.). In addition, the relation between FDI and terrorism is influenced by the host country's membership in organizations, such as OECD. Therefore, it is argued that the empirical studies that reached to the above presented results concluded that other factors are more important than terrorism when attracting FDI. Thus, these factors refer to the political stability, to the legal and regulatory framework, to the IPR and the bureaucracy, which influence more the foreign investors' decisions compared to the terrorism rates.

Special attention should also be paid on the role of the terrorist attacks' intensity. According to Omay et al (2013) the intensity of the terrorist events influences the impact of terrorism on FDI. Therefore, terrorist attacks of high intensity have a greater impact on the FDI inflows compared to lower intensity attacks. Similarly, according to Quyang and Rajan (2016) both the intensity and the frequency of the terrorist events influence the FDI inflows, as expressed though M&A. However, their study reached to the conclusion that terrorism do not influence M&A, suggesting that frequency and intensity have a greater impact on capital inflows rather compared to the terrorist attacks.

## FDI and terrorism in developing Asia

In the present section we present and discuss the findings of empirical studies regarding the relation between FDI and terrorism; however, we only focus on the empirical papers that studied the case of the developing and emerging Asian countries. The case of the developing and emerging Asian countries has been chosen among other developing economies and regions, that is to say Africa, Latin America and the Caribbean, transition economies and developed economies, because they managed to attract the majority of the FDI inflows in 2015. Hence, we study the developing Asian countries because they are the largest FDI recipient worldwide.

Moreover, the case of the developing Asian countries presents great interest because of the region high heterogeneity. The region includes countries that are characterized by different level of development, varying from highly developed to least developed (UNCTAD, 2016). According to the IMF (2015) the list of the developing and emerging Asian countries includes the following ones: Islamic Republic of Afghanistan, Bangladesh, Bhutan, Brunei Darussalam, Cambodia, China, Republic of Fiji, India, Indonesia, Kiribati, Lao People's Democratic Republic (P.D.R.), Malaysia, Maldives, Myanmar, Nepal, Pakistan, Papua New Guinea, Philippines, Samoa, Solomon Islands, Sri Lanka, Thailand, Timor - Leste, Tonga, Tuvalu, Vanuatu and Vietnam<sup>3</sup>. Therefore, we study a sample of 27 countries of the region.

During the past years the Asian developing countries have managed to attract increased FDI inflows. From 2014 the rise of the absorbed capitals was remarkably high. The FDI inflows in the region for the year 2014 are estimated at almost \$470 billion, rendering the area a top FDI destination. In particular, it is observed that among the countries of the region, those located on the South - East and East Asia attracted increased capital inflows. Among these economies, China remained the largest FDI inflows recipient (UNCTAD, 2015). In 2015, the amount of FDI inflows absorbed in the region reached a new peak estimated at \$541 billion. The new record was mostly driven by significant economic performance of the South East and the East Asian countries (UNCTAD, 2016).

The rise in FDI inflows in the developing Asian countries during the period 2013 – 2015 is presented in the following figure. It is observed that from 2013 there is

<sup>&</sup>lt;sup>3</sup> Hong Kong is a Special Administrative Region (S.A.R.) of China and thus it is not examined as a separate country.

a constant increase on the FDI inflows of the region. It should be noted that FDI inflows in 2013 reached at 410 billion dollars, while until 2015 they increased by almost 110 billion dollars during a two – year time period. Despite the fact that certain economies of the region did not manage to attract higher amount of foreign capitals, the difference was offset by the increased FDI invested in the top recipient countries, such as China and Hong Kong.

(olinois of donars)

541

500

431

400

200

100

2013

2014

2015

**Figure 1:** FDI inflows in the developing Asia (2013 – 2015) (billions of dollars)

Source: UNCTAD (2016)

In particular, the amount of billions of dollars that the studied countries absorbed is presented in Table 3. It is observed that China remains the top FDI destination in the region and that the country managed to absorb increased foreign inflows in 2015 compared to 2014. In addition, India is also listed among the top destinations in developing Asia and attracted more FDI in 2015 compared to 2014. On the contrary, despite the fact that Indonesia also attracts significant amount of FDI, it is observed that the total amount absorbed during 2015 are lower compared to 2014. Finally, it should be highlighted the fact that Thailand presented the highest rise on FDI inflows in 2015 compared to the rest countries of the region. It is noted that the official data for the year 2016 are not available yet.

**Table 3:** FDI inflows in 27 developing Asian countries (2014 – 2015) (Billions of dollars)

Country	2014	2015
Afghanistan	54	58
Bangladesh	1.551	2.235
Bhutan	32	12
Brunei Darussalam	568	173
Cambodia	1.720	1.701
China	128.500	135.610
Fiji	343	332
India	34.582	44.208
Indonesia	21.866	15.508
Kiribati	8	2
Laos	721	1.220
Malaysia	10.877	11.121
Maldives	333	324
Myanmar	946	2.824
Nepal	30	51
Pakistan	1.865	865
Papua New Guinea	-30	-28
Philippines	6.813	5.234
Samoa	23	16
Solomon Islands	21	21
Sri Lanka	894	681
Thailand	3.537	10.845
Timor Leste	49	43
Tonga	56	13
Tuvalu	1	1
Vanuatu	-18	29
Vietnam	9.200	11.800

Source: IMF, 2016

When regarding to the recipient countries of the region in 2015, it is observed that Hong Kong, China and India managed to attract the majority of the foreign capitals invested in developing Asia. As presented in figure 2, Hong Kong and China are the largest FDI recipient countries in the region during 2015. It is noted that FDI inflows in Hong Kong and China are presented separately so as to highlight the amount of foreign capitals received by them. Apart from Figure 2, it is already noticed that in the present essay China and Hong Kong SAR would be studied as a unique country.

Hong Kong
China
India
Indonesia
16
Vietnam
12
Malaysia
11
Thailand
11

**Figure 2:** Top FDI destination countries in developing Asia (2015) (billions of dollars)

Source: UNCTAD (2016)

100

150

200

50

0

Thus, the literature review focused on the empirical studies that investigated the impact of terrorism on FDI inflows in the developing Asian countries. It is observed that, despite the different time periods studied, the researchers argued that there is a negative relation between FDI inflows and terrorist attacks. Therefore, the empirical papers studied reached to the conclusion that the presence of violence, conflicts and terrorism render the host countries less attractive to foreign investors and have a negative impact on FDI inflows.

Table 4: Empirical findings on the interaction between FDI and terrorism in Developing Asia

Authors	Dependent	Independent	Country	Studied	Empirical findings
	variable	variables		period	
Rasheed & Tahir (2012)	FDI	Terrorist attacks	Pakistan	2003-2011	Negative impact of terrorism on FDI inflows.
Afza & Anwar (2013)	FDI	Terrorist attacks, Population, GDP, Trade Openness, Inflation	Pakistan	1980-2010	Negative impact of political instability and terrorism on FDI inflows.
Shahbaz et al (2013)	FDI	Terrorist attacks	Pakistan	2000-2011	Negative impact of terrorism on FDI inflows.
Anwar & Afza (2014)	FDI	Terrorist attacks, Inflation, GDP, Gas production	Pakistan	1980-2010	Political instability and terrorism have a negative impact on FDI inflows.
Haider & Anwar (2014)	FDI	Terrorist attacks	Pakistan	2000-2011	Negative impact of terrorism on FDI inflows.
Manzoor et al (2014)	FDI	Infrastructure, Trade openness, Human capital, Terrorist attacks	Pakistan, China	1995-2011	Terrorism is a significant determinant factor of FDI. The impact of terrorism on FDI in Pakistan is higher compared to China.
Nazik et al (2014)	FDI	Terrorist attacks	Pakistan	2000-2013	Negative impact of terrorism on FDI inflows.
Ullah & Rahman (2014)	FDI	GDP, Exchange rate, Taxation, Trade openness, Terrorist attacks	Pakistan	1995-2013	Negative impact of terrorism on FDI inflows.
Zeb et al (2014)	GDP	FDI, Trade	Pakistan	1972-2012	Terrorist attacks have a

		openness, Political			moderate negative
					${oldsymbol{arepsilon}}$
		stability, Terrorist			impact on FDI inflows.
		attacks			
Akbar &	FDI	GDP, Terrorist	Pakistan	2000-2013	Terrorist attacks deter
Akbar (2015)		attacks, Trade			FDI inflows.
		openness,			
		Exchange rate,			
		Political stability			
Ali et al	FDI to GDP	Number of deaths	Pakistan	1989-2014	Terrorism has a short
(2015)	רטו ונו טטר		rakistali	1909-2014	
, ,		because of terrorist			and long – term negative
		attacks, Human			impact on FDI inflows.
		Development			
		Index, Market size			
Hyder et al	GDP	Population, Human	Pakistan	1981-2012	Terrorism has a negative
(2015)		capital, Trade			impact on FDI and
		openness,			economic growth.
		Development aid,			
		Terrorist attacks			
Mumtaz &	FDI	Market size,	8	1980-2012	Negative impact on
Mehreen		Economic growth,	SAARC <sup>4</sup>	1900 2012	terrorism on FDI and
(2015)		_	members		
		1	members		economic growth.
		Exchange rate,			
		Infrastructure,			
		Terrorism			
Shah & Faiz	FDI	Market size,	5 SAARC	1980-2012	Negative impact of
(2015)		Economic growth,	members <sup>5</sup>		terrorism on FDI
		Infrastructure,			inflows.
		Terrorism, Trade			
		openness			
Anwar &	Financial	Terrorist attacks	Pakistan	2003-2014	FDI inflows are reduced
Mughal	flows				because of terrorist
(2016)					attacks, contrary to
					Ť
					portfolio investments

South Asian Association for Regional Cooperation including Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, Sri Lanka
 Including Bangladesh, India, Nepal, Pakistan and Sri Lanka.

					that are not influenced	
					from terrorism.	
Mehmood &	FDI, Gross	Terrorist attacks,	South	1991-2013	Negative impact of	
Mehmood (2016)	Capital	Infrastructure	Asia <sup>6</sup>		terrorism on FDI,	
(====)	Formation,				domestic and	
	Domestic				international	
	and				investments.	
	International					
	Investment					
Najaf &	FDI	Political stability,	Pakistan	1981-2011	Negative impact of	
<b>Ashraf (2016)</b>		Terrorist attacks,			political stability and	
		Inflation, GDP,			terrorism on FDI	
		Trade openness,			inflows.	
		Exchange rates				
Rauf et al	FDI	GDP, Trade	Pakistan	1970-2013	Negative impact of	
(2016)		openness, Terrorist			terrorism on FDI	
		attacks, Political			inflows.	
		stability				
Shahbaz et al	FDI	Economic Growth,	Pakistan	1988-2001,	Negative impact of	
(2016)		Terrorist attacks		2002-2010	terrorism on FDI	
					inflows.	

It is obvious that most of the researchers focused on the impact of terrorism on the FDI inflows in Pakistan. It is argued that since the 9/11 terrorist attack a large number of empirical studies investigated terrorism in Pakistan. Pakistan is a neighboring country to Afghanistan and since the conflict between the USA and Afghanistan several problems were transferred to Pakistan through the common borders. Thus the conflicts of Afghanistan with the USA had political influence on Pakistan that tried to maintain its autonomy. At the same time, the government of Pakistan tried to attract foreign inflows and to develop trading relations (Faisal & Khan, 2013).

It is also noted that, when regarding to the SAARC countries, there are significant political problems and high rates of terrorism. These problems are mostly caused by the tense in the relation between Pakistan and India (Zaheer, 2013). Both

-

<sup>&</sup>lt;sup>6</sup> Including Afghanistan, Bangladesh, Bhutan, Maldives, Nepal, Pakistan and Sri Lanka

countries influence significantly the GDP of the rest developing countries in the region and therefore increased political risk and terrorism could influence the GDP in the developing Asian countries.

Nevertheless, through the literature review on empirical paper, it is observed that Ullah and Inaba (2014) reached to different results compared to the above presented ones, as presented in Table 5. In particular, the researchers studied the interaction between financial openness and FDI in a sample of 9 South and South – East Asian countries during the period 2001 – 2010. Annual FDI inflows were used as a dependent variable, while real GDP, per capita GDP, distance, education level, infrastructure, trade openness, bilateral investment treaties and trade agreements, law and order, corruption and conflicts were used as independent variables.

The study reached to the conclusion that the decision of a multinational company to invest its capitals abroad and to perform FDI does not depend significantly on the internal conflicts. Thus, multinational firms choose a FDI destination mostly based on the host country's human capital economic growth, infrastructure and law and order. As a conclusion, according to the findings of the result, terrorism is not a determinant factor of multinational companies' decision process when investing in South and South East Asian countries.

Table 5: Controversial empirical findings on the interaction between FDI and terrorism in Developing Asia

Authors	Dependent	Independent	Country	Studied	Empirical
	variable	variables		period	findings
Ullah & Inaba	FDI	GDP, Distance,	South	2001-2010	Multinational
(2014)		Level of education,	and		companies do not
		Trade openness,	South -		consider
		Conflicts and	East		significantly the
		terrorism, Law &	Asia <sup>7</sup>		rate of terrorist
		order, Corruption			attacks when
					performing FDI.

\_

<sup>&</sup>lt;sup>7</sup> Including Bangladesh, Cambodia, India, Indonesia, Myanmar, Pakistan, Philippines, Thailand and Vietnam.

## **Discussion and suggestions**

Over the past decades developing, underdeveloped and in transition countries make significant efforts so as to improve their attractiveness towards foreign investors. Therefore, the host countries, in order to attract more foreign capitals, improve the political and social environment, as well as the regulatory and legal framework. However, among the developing countries worldwide, at present the Asian economies are the ones that manage to attract the majority of the FDI inflows. Therefore, the Asian developing countries are the top FDI destination and thus the present paper focuses on the case of the specific region. It is also argued that terrorist attacks and incidents increased over the past years and thus we studied whether terrorism could be a deterrent factor of FDI inflows in the Asian developing countries.

The study concludes that there are ambiguous conclusions regarding the impact of terrorism on FDI inflows in the developing countries. Despite the fact that several researchers suggested that there is a negative impact of terrorism on FDI, other studies suggested that terrorist attacks are not the most significant factor when attracting FDI or that the influence depends on the type of the attack. In summary, we argue that the factors that mostly influence the relation between FDI and terrorism are the political stability, the institutional quality, the legal and regulatory framework and finally the type of the conflict.

When regarding to the impact of terrorism on the FDI inflows in the developing Asian countries it is observed that the vast majority of the empirical papers conclude that there is a negative impact of terrorism on FDI. Therefore, the Asian developing countries that present high rates of terrorism are less attractive to foreign investors and attract less foreign capitals inflows. Nevertheless, it is also suggested by Ullah and Inaba (2014) that, when regarding to the countries of the region, other factors, including corruption and law and order are more important factors than terrorism.

Also, it is observed that most of the empirical papers focused on the case of Pakistan so as to study the impact of terrorism on the country's FDI inflows, mainly because of USA war against Afghanistan. Pakistan made significant efforts to maintain its autonomy and to deter the political consequences of the conflicts between Afghanistan and the USA.

Moreover, special attention should be paid on the case of China, including Hong Kong. It is observed that China is the largest FDI recipient among the developing Asian economies. As a result, it is observed that other developing and developed countries could imitate the case of China via an imitation channel (Metaxas & Kechagia, 2013). Therefore, it is argued that the governmental policies applied in China against terrorist attacks could influence the policies of other developing countries that imitate China so as to attract FDI.

In sum, it is argued that the Asian development countries, including the sub – groups, such as the SAARC and the ASEAN countries, should promoted the cooperation among them in order to improve the trading conditions. It is thus suggested the elimination of the trade barriers among the countries in the region and the improvement of the trade environment. The improvement of the trade and business climate in Asia would provide benefits to the countries of the region, considering that most of them are fast growing economies. Hence, efforts should be directed towards an economic integration among the developing Asian countries so as to ensure economic growth and to attract more foreign investors.

Nevertheless, the study is however subjected to certain limitations. In the present paper we have only studied the impact of terrorism on the total FDI inflows in the developing Asian countries. Thus, we have not investigated the interaction between terrorism and specific productive sectors, such as agriculture or constructions. This relation could be a subject of a future study. In addition, we limited the investigation to a certain geographic region under the criterion of the worldwide largest FDI recipient. Therefore, the findings of the present study could be contrasted to other groups of developing economies, such as Africa. Finally, it should be noted that we only study the FDI inflows and thus the FDI outflows are not taken into consideration. In conclusion, these limitations do not influence the significance of the

## References

- 1. Abadie A., Gardeazabal J. (2008). Terrorism and the world economy, *European Economic Review*, **52**(1): 1 27, doi: 10.1016/j.euroecorev.2007.08.005
- 2. Afza T., & Anwar Z. (2013). Foreign Direct Investment (FDI) in Pakistan: Measuring impact on cost of war against terrorism, political instability and electricity generation, *Caspian Journal of Applied Sciences Research*, **2**(3): 117 127
- 3. Agrawal S. (2011). The impact of terrorism on foreign direct investment: which sectors are more vulnerable?, *CMC Senior Theses*, paper 124
- 4. Akban M., Akbar A. (2015). An empirical analysis of foreign direct investment in Pakistan, *Studies in Business and Economics*, **10**(1), doi: 10.1515/sbe-2015-0001
- 5. Ali F., Fiess N. (2010). Do Institutions Matter for Foreign Direct Investment?, *Open Economies Review*, **21**(2): 201 219, doi: 10.1007/s11079-010-9170-4
- 6. Ali S., Waqas H., Asghar M. (2015). The effect of terrorism on foreign direct investment in Pakistan, *Journal of Applied Environmental and Biological Sciences*, **5**(5): 312 320
- 7. Alomar M., El-Sakka M. (2011). The impact of terrorism on the FDI inflows to less developed countries: A panel study, European Journal of Economics, Finance and Administrative Sciences, **28**: 116 125
- 8. Anwar A., Mughal M. (2016). Foreign financial flows and terrorism A case study of Pakistan, *Copenhagen Business School*, paper No. 56
- 9. Anwar Z., & Afza T. (2014). Impact of terrorism, gas shortage and political instability on FDI inflows in Pakistan, *Science International*, **26**(1): 507 511
- 10. Asongu S., Amankwah Amoah J. (2016). Military expenditure, terrorism and capital flight: Insights from Africa, MPRA Paper 74320, *University of Munich*, retrieved from <a href="https://mpra.ub.uni-muenchen.de/74230/">https://mpra.ub.uni-muenchen.de/74230/</a>
- 11. Asongu S., Efobi U., Beecroft I. (2015). FDI, Aid, Terrorism: Conditional evidence from developing countries, *African Governance and Development Institute*, WP/15/019
- 12. Bandyopadhyay S., Sandlery T., Younas J. (2014). Foreign direct investment, aid, and terrorism, *Oxford Economic Papers*, **66**(1): 25 30, doi:10.1093/oep/gpt026

- 13. Berrebi C., Ostwald J. (2011). Earthquakes, hurricanes and terrorism: do natural resources disasters incite terror? *Public Choice*, **149**(3 4): 383 <u>DOI:</u> 10.1007/s11127-011-9868-x
- 14. Bezić H., Galović T., Mišević P. (2016). The impact of terrorism on the FDI of the EU and EEA Countries, *Proceedings of Rijeka School of Economics*, **34**(2): 333 362, doi 10.18045/zbefri.2016.2.333
- 15. Blomberg S.B., Mody A. (2005). How severely does violence deter international investment?, *Claremont Colleges Economics Department*, No. 2005-01
- 16. Buchanan B., Le Q., Rishi M. (2012). Foreign direct investment and institutional quality: Some empirical evidence, *International Review of Financial Analysis*, **21**: 81 89
- 17. Busse M., Hefeker C. (2007). Political risk, institutions and foreign direct investment, *European Journal of Political Economy*, **23**(2): 397 415, doi:10.1016/j.ejpoleco.2006.02.003
- 18. Daude C., Stein E. (2007). The quality of institutions and foreign direct investment, *Economics & Politics*, **19**(3): 317 344, <u>doi: 10.1111/j.1468-0343.2007.00318.x</u>
- 19. Efobi U., Asongu S. (2015). How Terrorism Explains Capital Flight from Africa, *African Governance and Development Institute*, WP/15/034, Retrieved from https://mpra.ub.uni-muenchen.de/74651/
- 20. Efobi U., Asongu S., Beecroft I. (2015). Foreign direct investment, aid and terrorism: empirical insight conditioned on corruption control, *African Governance and Development Institute*, Working Paper No. 15/007
- 21. Enders W., Sachsida A., Sandler T. (2006). The impact of transnational terrorism on US foreign direct investment, *Political Research Quarterly*, **59**(4): 517 531
- 22. Enders W., Sandler T. (1996) Terrorism and foreign direct investment in Spain and Greece, *Kyklos*, **49**(3): 331–352
- 23. Erkekoglu H., Kilicarslan Z. (2016). Do political risks affect the foreign direct investment inflows to host countries, *Journal of Business, Economics and Finance*, **5**(2), doi: 10.17261/Pressacademia.2016219263
- 24. Ezeoha A. E., Ugwu O. J. (2015). Interactive Impact of Armed Conflicts on Foreign Direct Investments in Africa, *African Development Review*, **27**(4): 456 468, doi 10.1111/1467-8268.12161

- 25. Faisal K., & Khan M. (2013). Impacts of 9/11 on Smaller States of South Asia, *Journal of Humanities and Social Science*, **15**(4): 32 37
- 26. Filer R.K., Stanišić D., (2016). The effect of terrorist incidents on capital flows, *Review of Development Economics*, **20**(2): 502 513, doi:10.1111/rode.12246
- 27. Gammoudi M., Cherif M. (2016). Capital account openness, political institutions and FDI in MENA region: An empirical investigation, *Journal of Economic Development*, **41**(2)
- 28. Gupta S. et. al. (2004). Fiscal consequences of armed conflict and terrorism in low and middle income countries, *European Journal of Political Economy*, **20**(2): 403 421
- 29. Haider M., and Anwar A. (2014). Impact of Terrorism on FDI Flows to Pakistan, *SSRN Electronic Journal*, Available online at <a href="https://mpra.ub.uni-muenchen.de/57165/1/MPRA\_paper\_57165.pdf">https://mpra.ub.uni-muenchen.de/57165/1/MPRA\_paper\_57165.pdf</a>
- 30. Hayakawa K., Kimura F., Lee H.H. (2011). How does country risk matter for foreign direct investment, *Institute of Developing Economics*, Discussion Paper No. 281
- 31. Hyder S., Akram N., Padda I. U. H. (2015). Impact of terrorism on economic development in Pakistan, *Pakistan Business Review*, **16**(4): 704-722
- 32. IMF (2015). World Economic Outlook, Available online at <a href="http://www.imf.org/external/pubs/ft/weo/2015/01/">http://www.imf.org/external/pubs/ft/weo/2015/01/</a>, Retrieved on 20/3/2017
- 33. Khan M., Akban M. (2013). The Impact of Political Risk on Foreign Direct Investment, *International Journal of Economics and Finance*, **5**(8)
- 34. Kinyanjui S. (2014). The impact of terrorism on foreign direct investment in Kenya, *International Journal of Business Administration*, **5**(3), doi:10.5430/ijba.v5n3p148
- 35. Li Q. (2006). Political violence and foreign direct investment, in Fratianni M. (ed), *Regional Economic Integration*, 12 (Research in Global Security Management): 225 249, http://dx.doi.org/10.1016/S1064-4857(06)12011-2
- 36. Manzoor M. et al (2014). Determinants and Factors Dependency of FDI: A study of Pakistan and China, *International Review of Management and Business Research*, **3**(1): 232 247

- 37. Mascarenhas R., Sandler T. (2014) Remittances and terrorism: A global analysis, *Defence and Peace Economics*, **25** (4): 331 347, <a href="http://dx.doi.org/10.1080/10242694.2013.824676">http://dx.doi.org/10.1080/10242694.2013.824676</a>
- 38. Mehmood S., Mehmood B. (2016). Hampering effect of terrorism on investment: The South Asian perspective, *Science International*, **28**(2): 1475 1479
- 39. Metaxas T., & Kechagia P. (2013). FDI through the imitation procedure: The case of China, *Applied Econometrics and International Development*, **13**(1): 145 160
- 40. Motahari S. S., Dehghani A. (2015). A Review on the Effects of Globalization and Terrorism on the Economic Development of Selected Member Countries, *Cumhuriyet University Faculty of Science Journal*, **36**(3): Special Issue
- 41. Muckley C. (2010). Terrorism, tourism and FDI: Estimating a lower bound on the Peace Dividend in Northern Ireland, *Journal of the Statistical and Social Inquiry Society of Ireland*, **40**: 116 132
- 42. Najaf K., Ashraf S. (2016). Impact of terrorism, gas shortage and political instability on FDI inflows in Pakistan, *Scientific Journal of Pure and Applied Sciences*, **5**(3): 390 397, doi: 10.14196/sjpas.v5i3.2162
- 43. Nazik H., Muhammad S., Rashid K.S., Shaban K. (2014). Relationship between Terrorism and Foreign Direct Investment (FDI) in Pakistan, *Research Journal of Finance and Accounting*, **5**(17)
- 44. Okada K. (2013). The interaction effects of financial openness and institutions on international capital flows, *Journal of Macroeconomics*, **35**: 131 143
- 45. Omay T., Araz Takay B., Eruygur A., Ilalan D. (2013). The Effects of Terrorist Activities on Foreign Direct Investment: Nonlinear Evidence from Turkey, *Review of Economics*, **64**(2): 139 158
- 46. Papaioannou E. (2009). What drives international financial flows? Politics, institutions and other determinants, *Journal of Development Economics*, **88**(2): 269 281
- 47. Powers M., Choi S.W. (2012). Does Transnational Terrorism Reduce Foreign Direct Investment? Business Related Versus non Business Related Terrorism, *Journal of Peace Research*, **49**(3): 407 422, <u>doi:</u> 10.1177/0022343312436768

- 48. Qian X., Baek K. (2011). An analysis on political risks and the flow of foreign direct investment in developing and industrialized economies, *Economics*, *management*, *and financial markets*, **6**(4): 60-91
- 49. Quyang A.Y., Rajan R.S. (2016). Impact of terrorism on cross-border mergers and acquisitions (M&As): Prevalence, frequency and intensity, *Open Economies Review*, Article in press, 1 28, doi: 10.1007/s11079-016-9407-y
- 50. Ramcharran H. (1999). Foreign direct investment and country risk: Further empirical evidence, *Global Economic Review*, **28**(3): 49 59, <a href="http://dx.doi.org/10.1080/12265089908449766">http://dx.doi.org/10.1080/12265089908449766</a>
- 51. Rasheed H., Tahir M. (2012). FDI and Terrorism: Co-integration & Granger Causality, *International Affairs and Global Strategy*, **4**:1 5
- 52. Rauf S. et. al. (2016). Integrated Model to Measure the Impact of Terrorism and Political Stability on FDI Inflows: Empirical Study of Pakistan, *International Journal of Economics and Finance*, **8**(4), doi: 10.5539/ijef.v8n4p1
- 53. Resnick A. (2001). Investors, turbulence and transition: Democratic transition and foreign direct investment in nineteen developing countries, *International Interactions*, **27**(4): 381 398, doi: 10.1080/03050620108434991
- 54. Shah M.H., Faiz M. (2015). Terrorism and foreign direct investment: an empirical analysis of SAARC countries, *City University Research Journal*, **5**(2): article number 03
- 55. Shahbaz M.A., Javed A., Dar A., Sattar T. (2013). Impact of Terrorism on Foreign Direct Investment in Pakistan, *Archives of Business Research*, **1**(1)
- 56. Shahrestani H., Anaraki N. K. (2008). Protectivity Versus Productivity And Economic Growth: Empirical Evidence from Selected Countries, *International Business & Economics Research, Journal*, **7**(10)
- 57. Shahzad S.J.H., Zakaria M., Rehman M.U., Ahmed T., Fida B.A. (2016). Relationship between FDI, Terrorism and Economic Growth in Pakistan: Pre and Post 9/11 Analysis, *Social Indicators Research*, **127**(1): 179 194, doi: 10.1007/s11205-015-0950-5
- 58. Ullah I., Rahman M. (2014). Terrorism and Foreign Direct Investments in Pakistan: A Cointegration Analysis, Journal of Economics and Sustainable Development, 5(5): 233-242

- 59. Ullah M. S., Inaba K. (2014). Liberalization and FDI Performance: Evidence from ASEAN and SAFTA Member Countries, *Journal of Economic Structures*, **3**(6), doi 10.1186/s40008-014-0006-z
- 60. Ullah M. S., Inaba K. (2014). Liberalization and FDI Performance: Evidence from ASEAN and SAFTA Member Countries, *Journal of Economic Structures*, **3**(6), doi 10.1186/s40008-014-0006-z
- 61. UNCTAD (2015). World Investment Report, Available online at <a href="http://unctad.org/en/pages/PublicationWebflyer.aspx?publicationid=1245">http://unctad.org/en/pages/PublicationWebflyer.aspx?publicationid=1245</a>, Retrieved on 15/3/2017
- 62. UNCTAD (2016). World Investment Report, Available online at <a href="http://unctad.org/en/pages/PublicationWebflyer.aspx?publicationid=1555">http://unctad.org/en/pages/PublicationWebflyer.aspx?publicationid=1555</a>, Retrieved on 22/3/2017
- 63. Younas J. (2009). Does institutional quality affect capital mobility? Evidence from developing countries, *Journal of Institutional Economics*, **5**(2): 207 223
- 64. Younas J. (2015). Does globalization mitigate the adverse effects of terrorism on growth?, *Oxford Economic Papers*, **67**(1): 133 156, doi 10.1093/oep/gpu040
- 65. Zaheer R. (2013). The economic performance of SAARC member countries, *Research on Humanities and Social Sciences*, **3**(5)
- 66. Zeb N., Qiang F., Rauf S. (2014). Role of Foreign Direct Investment in Economic Growth of Pakistan, *International Journal of Economics and Finance*, **6**(1): 32 38, http://dx.doi.org/10.5539/ijef.v6n1p32