

Is Tourism a Sustainable Haven for Economic Growth in North African Countries? An Evidence From Panel Analysis

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Abstract

Efforts have been made by scholars to analyse the ability of tourism to promote sustainable development. This study therefore adds its voice to the already existing studies by evaluating the relationship between economic growth (GDP) and tourism receipts in North African countries between the years 1995-2016. For robustness, the study includes merchandise exports, inflation and dummy variable which captures the Arab spring of 2011. The study adopts the Pooled Mean Group (PMG) estimate to anlayse this relationship. It shows that tourism has the capacity to drive economic growth both in the short run with a coefficient of (6%) and in the long run with a coefficient of (29%), hence, the study joins the tourism led growth school of thought.

Key words:

Merchandise Export, Inflation, Gross Domestic Product, Dummy Variable and Pooled Mean Group

IS TOURISM A SUSTAINABLE HAVEN FOR ECONOMIC GROWTH IN NORTH AFRICAN COUNTRIES? EVIDENCE FROM PANEL ANALYSIS

Introduction

African countries are often synonymous to the paradoxical saying of poverty in the midst of plenty. This is because most African countries are naturally endowed but still not performing at their peak economically, socially and politically. Andersen and Nina (2001) argued that developing nations experience poor economic condition accompanied by huge multilateral public borrowing from both domestic and foreign agencies. He explained that Heavily Indebted Poor Countries (HIPC) initiative reported that of the 41 countries that are heavily indebted in the world, 33 of them are Africans with a debt of \$156 billion.

With the enormous resources domicile in Africa, UN (2015) reported that all developing regions except African countries have achieved the MDGs of halving poverty between 1990 and 2015. Corroborating these assertions, Addae-Korankye (2014) opined that the richest natural resources are deposited in Africa and yet it is poor-stagnant in growth and development. He explained that in spite of her heavy human and material wealth, Africa remains the world's poorest continent.

The reality is that most of the African countries run mono-economy which summarizes the degree at which the endowed resources are underutilized. Cattaneo (2009) explained that a number of developing countries depend on exports of single or few commodities. Hence, they are highly volatile to fluctuations in the international prices of products in the external market. As a way of escape African countries embrace diversification which is the order of the day in developing countries (Bature, 2013).

This study therefore intends to look at tourism as a root of escape to boosting the economic performance of North African countries by asking whether tourism could be a sustainable haven to economic growth in these countries. The study is outlined as follows: Section one describes the introduction to the topic in question and section two explains the background to the study. The critical review of relevant literature is done in section three while section four deals with the methodology and analysis of results and conclusion is revealed in section 5

2.1 Background to the study

2.2 The Economy of North Africa

North African countries are countries mostly found in the Sahara Desert of Africa. They include Algeria, Morocco, Egypt, Tunisia and Libya (this study, however, excludes Libya due to the presence of outliers). These countries speak Arabic as their major language, practice Islam as a religion and share common climatic and geographical conditions. However, they differ in social, political and economic development. Reports have it that a very large population of Egypt, Morocco and Tunisia is heavily involve in agriculture, variety of manufacturing activities, remittances and tourism as a means of foreign exchange earnings while Algeria and Libya solely depend on oil and gas driven economy (Dadush et al., 2017; Africa Development Bank, 2018). Andrew & Martin (2018) also noticed that Algeria supplies energy to Europe in the form of oil and gas while Morocco supplies phosphates and agricultural products. The European tourism industry major destinations are Tunisia and Morocco.

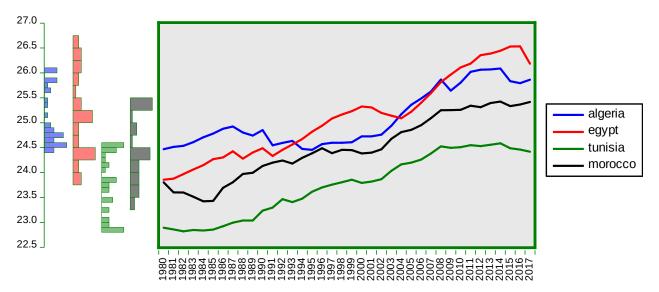
United Nations Economic Commission for Africa Office for North Africa (2014) argued that the political instability witnessed in Egypt, Libya and Tunisia coupled with the global economic meltdown of 2013 affected the average growth rate of the North Africa which declined to 2.5 percent in 2013 from 6.6 percent recorded in 2012. A report by African Development Bank (2018) showed that North Africa fostered an amazing growth rate (an increase from 3.3 percent in 2016 to 5.0 percent in 2017 and a projected increase to 5.1 percent in 2018) which made them second in Africa. This compared to the output of 2011 Arab revolution is a meager achievement (United Nations Economic Commission for Africa Office for North Africa, 2014).

This amazing growth recorded in North Africa was attributable to the unprecedented recovery in Libya's oil sector which posted an increase of 55.1 percent in GDP in 2017. However, output remains about one-third lower than the previous Arab revolution of 2011 (Africa Development Bank, 2018). Another North Africa country which boosted the North Africa economy is Egypt. The Pharaohs achieved a stable growth rate of 4.1 percent in 2017 as a result of the influx of returns from foreign direct investment and net exports accompanied by foreign exchange depreciation. This compared to the 4.3 percent growth rate recorded in 2016 was a slight decline (Africa Development Bank, 2018).

Algeria on the other hand, was left with the headache of cushioning the effects of fall in oil prices which had an adverse effect on her economy. Hence, the government responded to the fall in government revenue in 2017 by cutting public expenditure from 42 percent of GDP in 2016 to 36 percent of GDP in 2017 (Africa Development Bank, 2018).

The Figure 2 below shows that these countries recorded consistent increase in real gross domestic products where Egypt seems to be very strong until after 2014 when Tunisia and Algeria witnessed a fall in real gross domestic products while Egypt experienced a decline in real gross domestic products after 2016.

Fig 1: Real Gross Domestic Product for Algeria, Egypt, Tunisia and Morocco



Source: Author

2.3 Tourism from the Global Perspective

The contribution of the service sector to the global economic growth cannot be over emphasized. Gauci et al. (2002) argued that the global market for services has experienced a growth on the average rate of 5 percent annually and expected to grow at about 3 percent in the nearest future. A beautiful content of the service sector to behold is tourism and its roles in the pivotal economic development of the world trade is worthy of investigation. This prompted the United Nations to declare year 2002 as The United Nations Eco-Tourism day.

Shakouri et al. (2017) argued that tourist destinations around the world yielded receipts which grew by 3.6% in 2015 as international tourist arrivals increased by 4.4%. They explained that

international tourism grew consistently faster than world merchandise trade as the share of tourism in world exports increased to 7% in 2016. World Travel and Tourism Council (2018) opined that travel and tourism remains one of the world's largest economic sectors which drive job opportunities, exports and prosperity across the world. This implies that with the right policies and investment decision, tourism could be a sustainable haven for economic growth. This is evident in the report of World Travel and Tourism Council (2018) which explained that tourism and travel directly contributes USD72.8 billion to GDP in 2017 which is also forecast to rise by 4.0% to USD75.6 billion in 2018.

The share of global Tourism growth attracted by developing economies must be mentioned, as this availed developing economies the opportunity to show case their endowed climatic and geographical nature to the world. Tourist arrivals and receipts in Africa have reached 27.6million and US\$10.7 billion in the year 2000 respectively (Gauci et al., 2002). Corroborating this argument, African Development Bank (2018) reported that tourists' arrivals in Africa increased from 62.5 million in 2015 to 62.9 million in 2016 approximating 0.64% increase which represents a 5.1% share of world tourists' arrivals. In 2016 global receipts from international tourism was US\$1,225 billion while Africa's international tourism receipts was US\$36.2 billion (African Development Bank, 2018).

Tourism has shown to the people of Africa that it could be one of the saving umbrellas needed to reduce unemployment, poverty and inequality. Significantly, tourism has been able to reduce the rate of unemployment in Africa as direct travel and tourism employment increased to 9.3 million where sub-Saharan Africa shared 6.8 million and North Africa got 2.5 million in 2017 (African Development Bank, 2018).

The table below shows that Africa recorded the lowest tourist arrivals with a significant percentage increase of 7.8 in 2016 and 8.6 in 2017. However, Europe has the highest number of tourist arrivals with 2.4% change in 2016 and 8.3% change in 2017. On the other hand, Africa's tourism receipts showed a significant increase from USD30, 880 in 2010 to USD37, 320 in 2017 while Europe and other continents of the world also experienced a significant increase. This implies that if tourism has the power to heal the world if well nurtured.

		International				International		
		Tourist Arrivals				Tourism Receipts		
				Change (%)				
			(1000)				(US\$ million)	
	2010	2016	2017	16/15	17/16	2010	2016	2017
Europe	487,666	619,492	670,603	2.4	8.3	422,823	468,094	519,232
Asia and the	208,174	305,967	323,059	7.7	5.6	254,367	370,804	389559
Pacific								
The Americas	150,432	200,719	208,715	3.6	4.0	215,307	313,705	326,162
Africa	50,426	57,747	62,722	7.8	8.6	30,880	33,027	37,320

Table 1: International Tourist Arrivals and Tourism Receipts by Continent of Destination

Source: World Tourism Organisation (UNWTO, 2018)

2.4 Tourism Contribution to GDP in North African Countries

Having established that over the years Africa has enjoyed from the immense contribution of tourism to her GDP, it is important to analyse the share of tourism growth to the growth of North Africa economy. Ali and Hasi (2012) explained that historical and archaeological piece are dominant in Arab countries such as mild climate, the nature of a variety stunning, the strategic location of distinct and the shores of a long extended between the Mediterranean, the Red Sea, the Persian Gulf and Indian Ocean which makes the tourism sectors to attract both domestic and foreign investors boosting the national income and economic development of these countries.

2.4.1 Tunisia

El Djem Amphitheater, Djerba, Carthage, Grand Erg Oriental, Bulla Regia, Kairouan, Sousse Medina, Chott el Djerid, the National Bardo Museum, Sidi Bou Said, Hammamet and Monastir Ribat are some of the fascinating sights nature has endowed Tunisia with. The presence of these tourist attractions have contributed immensely to the Gross Domestic Products of her economy. However, the two terrorist attacks at the Bardo Museum and Sousse Beach in 2015 have sent fear down the spine of tourists from visiting Tunisia, hence, reducing the revenue generated by the sector.

It is worth mentioning that in 2016 travel and tourism have directly contributed TND5,821.9 million to GDP which represents 6.6 percent of GDP and TND6,631.7 million in 2017 which represents 6.9 percent of GDP. A further projection of 4.2 percent rise to TND6,908.2 million in 2018 was made. This growth is attributable to the economic activities of the hotels, travel agents, restaurant and leisure industries directly supported by tourists. All things being equal, by 2028 Tunisia's tourism contribution to GDP will experience a growth of 3.0 percent annually to

TND9, 246.6 million which represents 6.6 percent of GDP (World Travel and Tourism Council, 2018). This is a sign of quick recovery from the Jasmine Revolution of 2011 and the 2015 terrorist attacks.

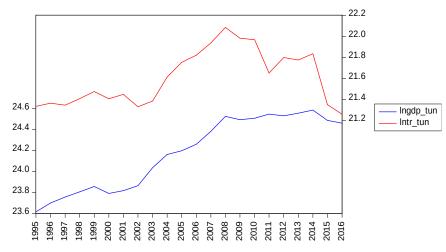


Fig 2: The relationship between gross domestic products and tourism receipts of Tunisia

Figure 2 above depicts the relationship between gross domestic products (GDP) and tourism receipts (TR) of Tunisia.

2.4.2 Morocco

Vision 2010 of the Moroccan government served as a landmark in the Moroccan tourism industry to boost the patronage for new tourist destinations and the already existing ones such as the Marrakesh Medina, Hassan II Mosque, Oudaias Kasbah, Fes el Bali, Tangier, Chefchaouen, Volubilis, Bab al-Mansour, Ait Ben Haddou, Dades Valley, Essaouira and Erg Chebbi. It gulped a budget of USD4, 840 million primarily to develop the large resort. The major tenets of the plan are to attract 10 million tourists in 2010, achieve 230, 000 beds accommodation capacity, build six large resorts and job creation. As a way of expansion, vision 2020 was established to complement the achievements of vision 2010 as it aims to make Morocco tourism industry becomes one of the 20 biggest tourist destinations (Almeida and Chachine, 2016). This was evident in 2016 as travel and tourism made a tremendous contribution of MAD81.3 billion to the GDP of Morocco which represents 8.1 percent of GDP and MAD85.9 billion to GDP in 2017 which represents 8.2 percent of GDP. A further projection of 3.5 percent rise to MAD88.9 billion in 2018 was made. This growth is attributable to the economic activities of the hotels, travel agents, restaurant and leisure industries directly supported by tourists. All things being equal, by 2028 Morocco's tourism contribution to GDP will experience a growth of 3.9 percent

annually to MAD130.7 billion which represents 8.2 percent of GDP (Word Travel and Tourism Council, 2018).

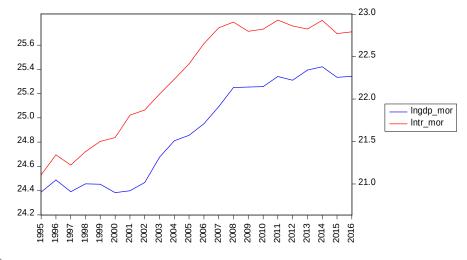


Fig 3: The relationship between gross domestic products and tourism receipts of Morocco

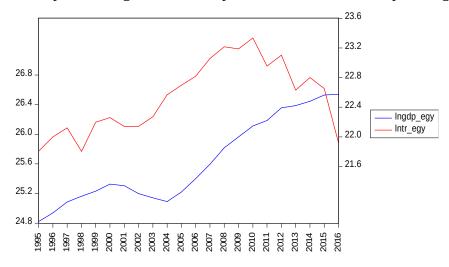
2.4.3 Egypt

The history of tourism in Egypt is as old as the country herself dating back to when the Greeks and Romans visited in ancient times. Some of the fascinating tourist destinations in Egypt include: the Pyramids of Giza, Luxor's Karnak Temple and the Valley of the Kings, Islamic Cairo, Aswan, Abu Simbel, Egyptian Museum, White Desert, Siwa Oasis, Alexandria, St. Catherine's Monastery, South Sinai, Abdos Temple and medical tourism. With these heavy deposits of antiquities, the Egyptian tourism industry is faced with a lot of upheavals. For example, the terror attack in 1992, the temple of Hatshepsut attack in 1997, the arab spring of 2011, the downing of Metrojet 9268 in October 2015 among the host of others.

In other to rebrand the face of her tourism industry, the Egyptian government embarked on series of developmental projects. 2002-2005 were periods that witnessed the development of the Egyptian tourism workforce. It was supported by US agency for international development. The Ministry of Tourism signed \$68m contract with J Walter Thompson, advertising outfit to embark on radical publicity of the Egyptian tourism opportunities and markets in September 2015. In the same year, the Egyptian Ministry of Antiquities in cooperation with local and international institutions started the Scan Pyramids Project (SPP). The 2016 Hepatitis C treatment campaign remains a major breakthrough in Egyptian Medical tourism as an estimated 71 million people visited for treatment which cost \$8,000 per patient (Reda, 2018).

The results of these giant strides, motivated, the travel and tourism sector in 2017 recording a tremendous contribution of EGP190.3 billion to the GDP of Egypt which represents 5.6 percent of GDP. A further projection of 3.2 percent rise to EGP196.5 billion in 2018 was made. This growth is attributable to the economic activities of the hotels, travel agents, restaurant and leisure industries directly supported by tourists. All things being equal, by 2028 Egypt's tourism contribution to GDP will experience a growth of 4.0 percent annually to EGP289.7 billion which represents 5.3 percent of GDP (Word Travel and Tourism Council, 2018).





2.4.4 Algeria

Beni Hammad Fort, Djemila, Casbah of Algiers, M'Zab Valley, Timgad and Tassili n'Ajjer are some of the World heritage sites that serve as tourist destinations in Algeria. In order to ensure that her tourism sector continues to yield the expected results, Douli and Slimani (2016) explained that the Algerian government introduced the Confederation of National Clients in Tourism, Travel and Hospitality. This is to encourage major stakeholders in the industry to make wide consultation, reflection and unified action within and outside the industry. In addition the Algerian government has continuously ensured the existence of a strong and functional Public Private Partnership to enable the tourism sector perform optimally. Hence, the government creates an enabling business environment and encourages private investors which culminated into the formation of the Ooredoo Algeria (Horizon 2025). This is a project born during the National and International Conference of Tourism to provide new dynamics of reception and management in the Algerian tourism industry.

The efforts of the Algerian government did not go unnoticed as year 2017 revealed that travel and tourism made a tremendous contribution of DZD610.4 billion to the GDP of Libya which represents 3.3 percent of GDP. A further projection of 2.9 percent rise to DZD627.8 billion in 2018 was made. This growth is attributable to the economic activities of the hotels, travel agents, restaurant and leisure industries directly supported by tourists. All things being equal, by 2028 Algeria's tourism contribution to GDP will experience a growth of 2.4 percent annually to DZD796.0 billion which represents 3.4 percent of GDP (Word Travel and Tourism Council, 2018).

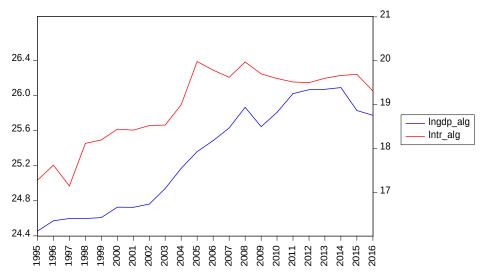


Fig 5: The relationship between gross domestic products and tourism receipts of Algeria

2.5 Tourism bottle Necks in North Africa

The tourism sector of North Africa was not exempted from the socio-political crisis that ravaged the region some years ago. For example, the Arab Spring of 2011 which started 2010 in Tunisia spread like a weird fire to other North African countries. During this period the current account balance of the region which comprises movement of goods and services is in deficit especially for Egypt, Morocco and Tunisia whose important tourism sector was sensitive to violence and internal unrest (Raschen, 2015; Ali and Hasi, 2012).

Ali and Hasi (2012) argued that the successful revolutions that overthrown former Presidents Zine El Abidine Ben Ali and Hosni Mubarak of Tunisia and Egypt respectively triggered high level of insecurity which made the companies of tourism to boycott Egypt and Tunisia from their programs. They further explained that the Arab spring revolution has a negative impact on North Africa tourism destinations, hence, tourists change their directions to destinations which a more secured and less risky. Journal of Time International (2012) argued that North Africa experienced a great decline has tourism activities fell in 2011 by 41% in Syria, 32% in Egypt, 31% in Tunisia, 24% in Lebanon and 16% in Jordan even as tourism serves as a major contributor to most of these countries.

Table 2: International tourist arrivals and receipts for North Africa and s	some well visited
Sub-Saharan African Countries	

		International				International		
		Tourist Arrivals				Tourism Receipts		
				Change (%)				
			(1000)				(US\$ million)	
	2010	2016	2017	16/15	17/16	2010	2016	2017
North Africa	33, 237	23, 353	29, 099	5.0	24.6	22, 156	10, 639	16, 491
Algeria	2,070	2,039	2, 451	19.2	20.2	220	209	-
Morocco	9, 288	10, 332	11, 349	15	9.8	6, 703	6, 549	7, 417
Tunisia	7,828	5, 724	7,052	6.8	23.2	2,645	1, 236	1, 299
Egypt	14, 051	5, 258	8,157	-42.5	55.1	12, 528	2,645	7,775
Libya	-	-	-	-	-	60	-	-
Sub-Saharan Africa	1, 904	1, 253	3, 182	13.1	154	3, 144	3, 199	1, 845
Cabo Verde	336	598	668	15.1	11.6	278	370	436
Burkina Faso	274	152	143	-6.7	-5.9	72	122	-
Comoros	15	27	28	13.6	4.5	35	-	-
Cote d'Ivoire	2, 521	1, 583	1,800	9.9	13.7	201	379	-
Kenya	1, 470	1, 268	1, 364	13.8	7.6	800	824	926
Mali	169	173	193	8.8	11.6	205	200	-
Mauritius	935	1, 275	1, 342	10.8	5.2	1, 282	1, 572	1, 748
Nigeria	1, 555	1, 889	-	50.5	-	576	1,070	2, 549
Seychelles	175	303	350	9.8	15.4	343	414	483
South Africa	8,074	10, 044	10, 285	12.8	2.4	9,070	7, 910	8, 818
Zimbabwe	2, 239	2, 168	2, 423	5.4	11.8	634	890	-

Source: World Tourism Organisation (UNWTO, 2018)

The table above shows that comparatively North African countries are better than some selected Sub-Saharan African countries in terms of tourist arrivals and receipts. However, the degree of insecurity caused by political instability has dampened the efficiency of the sector which recorded a lesser percentage increase of 24.6% between 2016 and 2017, compared to 154% of the Sub-Saharan Africa in the same periods.

3.1 Theoretical Basis

In recent times efforts have been made to make case for tourism as the diversification needed to improve the gross domestic products of the world economies. Scholars have theoretically analysed the relationship between growth and tourism development. There are three extreme hypothesis of whether tourism predicts growth, growth predicts tourism or they predict one another.

Lee and Chang, (2007) argued that the relationship between economic growth and tourism development to a great extent is dependent on the economic situation obtainable in individual countries under consideration (see Sak & Karymshakov, 2012; Chou, 2013; Alhowaish, 2016; Sokhanvar et al., 2018).

Arslanturk et al. (2011) are strong advocate of tourism led growth hypothesis. After analyzing the relationship between tourism receipts and economic growth using time varying coefficient estimation method argued that tourism has positive predictive power for GDP and GDP cannot cause tourism (see Fayissa, 2007; Ajvaz, 2015; Makochekanwa, 2013; Samimi et al., 2011; Yusuff and Akinde, 2015). Bouzahzah and Menyari (2013) deviated a bit from the assertions above, as they explained that in the short run tourism drives growth but growth drives tourism in the long-run (see Akama, 2016)

Author & Year	Country(s) & Scope	Methodology	Methodology		
		variables	Estimation methods		
Ajvaz (2015)	Sweden (2003-2013)	Regional Gross	Panel Data Approach	Tourism and economic	
		Domestic		growth follow the path	
		Product, Physical		of Tourism led growth in	
		Capital		Sweden	
		Formation,			
		Human Capital			
		formation,			
		Tourism			
		Development,			
		Government			
		Debt, Trade			

Akama (2016)	Kenya (1980-2010)	Intensity Ratio. GDP growth	OLS regression,	The growth pattern
Akalila (2010)	Kellya (1900-2010)	0	-	The growth pattern reveals a tourism led
		rate, Physical	Cointegration and	
		Capital	Granger Causality	growth as causality runs
		Accumulation,	Tests	from international
		Expenditure on		tourism receipts to
		Education, ICT		economic growth in the
		on Exports, GDP		short run
		Per Capita,		
		Financial		
		Deepening,		
		Internal Shocks,		
		Competitive		
		Advange and		
		International		
		Tourism		
Alhowaish	Kuwait, Saudi Arabia,	Receipts Real	Multivariate model	Kuwait, Saudi and UAE
(2016)	Qatar, UAE, Bahrain and	international	with Panel data	follow the path of
	Oman (1995-2012)	tourism revenue	Analysis	growth driven tourism
		and RGDP		while Bahrain follows
				tourism led growth
Bukola and	7 Cities in South-Western,	Tourism	Chi-Square	Household income and
Olaitan (2018)	Nigeria.	development and		government revenue
		Sustainable		have been significantly
		economic		improved by tourism
Arslanturk et al.	Turkey (1963-2006)	development Tourism	Rolling Window and	GDP has no predictive
(2011)		Receipts and	Time Varying	power for tourism
		GDP	Coefficient Estimation	receipts but tourism
			Method-Granger	receipts have positive
			Causality VECM	predictive power for
			based	GDP

Bouzahzah and	Tunisia and Morocco (1980-	Real Tourism	ECM, Cointegration	In the short run tourism
Menyari (2013)	2010).	Receipts, Real	and Granger Causality	granger causes economic
		Effective		growth while in the long
		Exchange Rate		run growth granger
		and Economic		causes international
Caglayan et al.	World, America, Asia,	Growth Real Tourism	Panel Granger	tourism receipts. Bidirectional Causality
(2012)	Europe, East Asia, South	Revenue(tourism	Causality Analysis	exists in Europe between
	Asia, Central Asia, Latin	development)		tourism revenue (TR)
	America & Caribbean,	and Real GDP		and GDP, unidirectional
	Oceania, North Africa and			causality in America,
	Sub-Sahara Africa (1995-			Latin America &
	2008)			Caribbean and World
				from TR to GDP and no
				causal relationship was
				found in Asia, Middle
				East and North Africa,
				Central Asia and Sub-
Chou (2013)	Romania, Bulgaria,	Domestic	Panel Causality Test	Saharan Africa Growth hypothesis holds
	Slovenia, Cyprus, Latvia,	Tourism		for Cyprus, Latvia and
	Slovakia, Czech Republic	Spending (DS),		Slovakia and tourism
	and Poland Estonia and	Per Capita Real		holds for Czech
	Hungary (1988-2011)	GDP		Republic and Poland
				while Bulgaria, Romania
				and Slovenia remain
Ekanayake and	140 developing	RGDP, RGFC,	Heterogeneous Panel	neutral. The elasticity of tourism
Aubrey (2012)	countries(1995-2009)	Real	Cointegration	revenue with respect to
		International	Technique, Granger	real GDP is positive but
		Tourism	Causality Tests.	statistically insignificant
		Receipts		for all regions and no
				evidence to support

Farid (2015)	Mali and Zimbabwe ()	GDP and Tourist	Descriptive Analysis	tourism led growth There exist a positive
		Arrival		relationship between the
				extent of tourism
				specialisation and long
Fayissa (2007)	42 African Countries (1995-	Per Capita	Panel Data Analysis	term GDP growth. Tourism receipts
	2004)	Income, Tourism		significantly contribute
		Receipts Per		to the current level of
		Capita, Gross		GDP and economic
		Fixed Capital		growth of Sub-Sahara
		Formation,		Africa
		Economic		
		Freedom Index,		
		School		
		Enrollment, FDI,		
		TOT and		
		Household Final		
		Consumption		
		Expenditure Per		
Imikan and Ekpo	River State, Nigeria	Capita Water,	Multiple correlation	High significant
(2012)		Electricity,	and Stepwise	relationship exists
		Transport,	Regression Analysis	between the sets of infrastructure
		Communication,		components and
		Accommodation,		tourism development
		Tourist Arrivals		
		and Tourism		
Lee and Chang	OECD, non-OECD and	Receipts. Tourism	Panel Data Analysis	There exists a
(2007)	Sub-Sahara Africa(1990-	Receipts,		unidirectional causality
	2002)	Tourism		from tourism to
		Arrivals, GDP		economic growth in

		and RQ		OECD, Sub-Sahara
				Africa and bidirectional
				causality in nonOECD
Lopes and Soares	Portugal (2004-2014)	Tourism	Descriptive Analysis	but weak in Asia. Norte region tends
(2017)		products and		toward growth as tourist
		economic		destinations expand
Makochekanwa	SADC (2002-2012)	development RGDP, Tourist	Panel Data Analysis	1% increase in tourism
(2013)		Export Receipts,		receipts causes a 0.16%
		Economic		rise in GDP Per Capita.
		Freedom Index		Hence, tourism triggers
Agri et, al. (2016)	Nigeria	CIT, DTC, VTE, Employment Income, Infrastructure and standard of	Correlations Analysis, Simple Percentages Statistical Techniques and Descriptive Statistics	economic growth Tourism has significant positive impact on economic development
Phiri (2016)	South Africa (1995-2014)	living (GDP) Tourist Receipts	Engle and Granger	Llinear framework
		and Arrivals	Linear Cointegration	shows that when tourism
		(tourism	and Enders and	receipt is used as a
		development)	Granger non-linear	measure of tourism
		and real GDP	Cointegration	development, the results
			framework	follow a tourism led
				growth hypothesis while
				tourism arrivals follow

growth led tourism path. Non linear framework depicts no causality

between tourism arrivals and economic growth while a bidirectional

Samimi et al. (2011)	20 developing countries (1995-2009)	GDP, Tourism Arrival (TOUR)	P-VAR Approach	causality exists between tourism receipts and economic growth Tourism leads to growth as well as output level which relates to economic wellbeing and
Shakouri et al. (2017)	Asian Countries (1995- 2014)	International Tourism Receipts, Real GDP Per Capita growth, Exchange Rate, Financial Development	Panel Data Analysis and Variance Decomposition Analysis	level of development. Tourism has positive significant impact on economic growth
Sokhanvar et al. (2018)	16 emerging economies (1995-2014)	and Trade Openness International tourism receipt, GDP (current) and GDP growth (Annual)	Granger Causality Analysis, Impulse Response Function	Unidirectional causality runs from tourism to economic growth in Brazil, Mexico and Philippines, the reverse is the case in China, India, Malaysia, Indonesia and Peru while
Terwase et, al. (2015)	Cross River, Nigeria	Tourist Destinations and Economic Development	Critical review of literature and Descriptive Statistics	Chile faces a bidirectional causality Cattle Ranch improved the standard of living of the Obudu people and also contributes to the foreign exchange

				curnings of the rugeriun
Yusuff and	Nigeria (1995-2013)	Real GDP,	Unit Root Tests,	government. A long run positive
Akinde (2015)		International	Cointegration Tests,	causality runs from
		Tourist Arrivals	VECM based granger	tourism to economic
		(TOAR as a	causality tests	growth
		measure of		
		tourism		
		development)		
		and Real		
		Effective		
		Exchange Rate		
Belloumin	Tunisia (1970-2007)	(RER) Tourism	Unit root tests,	Tourism and economic
(2010)		Receipts, Real	Johansen cointegration	growth have long run
		Effective	tests and VECM based	relationship and a
		Exchange Rate	causality test	unidirectional causality
		and Real GDP		runs from tourism to
				growth
Surugiu and	Romania (1988-2009)	Tourism	Cointegration tests,	Tourism granger causes
Surugiu (2013)		spending,	VECM based causality	economic growth
		tourism	tests and impulse	
		consumption,	response function	
		real exchange		
		rate and GDP		
		annual Previous		
Sequeira and	World (1980-1999)	year growth rate Initial Real GDP	Panel Data Analysis	Tourism is not sufficient
Campos (2005)		Per Capita		an explanatory variable
		Income (GDP-1),		for higher growth rates.
		Human Capital		
		Investment,		
		Physical Capital		

earnings of the Nigerian

Figini and Vici (2010)	Over 150 countries (1980- 2005)	Investment, Crowding-Out, Trade Openness, Tourism receipts as a % of GDP and Exports Real GDP, initial level of per	Cross Section Analysis	Tourism based countries did not grow at a higher
		and Exports		
Figini and Vici	Over 150 countries (1980-		Cross Section	Tourism based countries
(2010)	2005)	level of per	Analysis	did not grow at a higher
		capita income,		rate than non-tourism
		trade openness,		based countries except
		OECD oil		between 1980-1990
		smallness and		
		international		
		tourism receipts,		

4.0 Methodology and Data

4.1 The Model

1

This study is saddled with the responsibility of examining the tourism-economic growth nexus in North African countries. The paper employs a baseline model of Brau et al. (2004, 2007) adopted by Figini and Vici (2010). For the sake of this analysis the study further modifies the baseline model to accommodate the variables used.

4.1.1 The Baseline Specification

The baseline equation is specified as follows:

Growth = $\beta_0 + \beta_1$ Tour + β_2 X + $\beta_3\lambda + \varepsilon$

Where Growth is average growth rate of per capita income, Tourism measures the degree of tourism specialization for the country, X is a vector of control variables which based on neoclassical growth assumptions, λ represents a vector of dummy variables which often captures non-economic variables and ε is the error term.

4.1.2 The Modified Model

¹Brida and Pulina (2010) in explaining the tourism led growth, theoretically, identified the demand sides model as used by Narayan (2004) and production function model originally used by Solow but expanded by Balassa (1978). ²Figini and Vici (2010) affirmed basically two theoretical strands to the explanation of the relationship between tourism and economic growth. They explained that Keynesian theory of multiplier holds that international tourism is seen as an exogenous component of aggregate demand which is positively related to income and employment through multiplier on one hand and the application of endogenous growth theory to tourism on the other hand. ³Narayan et al. (2010) asserts that 1% increase in tourism export causes 0.72% and 0.24% increase in GDP both in the long run and short run respectively.

The modified model captures real exchange rate to account for international trade and inflation to deflate both GDP and Tourism receipts both at current prices. This is expressed below:

 $lnGDP_{it} = \beta_0 + \beta_1 lnTour_{it} + \beta_2 MERX_{it} + \beta_3 lninfl_{it} + \beta_4 D2011_{it} + \epsilon_{it}$

Here, the number of countries i=1. . ., N; the number of periods t = 1, . . ., T;

InGDP is the natural logarithm of Gross Domestic Product which proxies economic growth at current prices

InTour is the natural logarithm of tourism which proxies tourism receipt as a percentage of GDP at current prices

InMerx represents the natural logarithm of merchandise export as percentage of GDP at current prices

lninfl represents the natural logarithm of inflation

D2011 represents the dummy variable that captures the Arab Spring of 2011

 ϵ represents the disturbance terms

4.2 Estimation Techniques

This study employs pooled mean-group (PMG) estimator for non-stationary dynamic panels with heterogeneous parameters across the groups. The adequacy of this technique lies in the fact that the N and T dimensions are large (Salisu and Isah, 2017). This technique enables us to establish the short run and long run relationships among the dependent variable and the independent variables as it employs an autoregressive distributive lag (ARDL).

4.3 Data Issues and Sources

This study employs data covering the period 1995 to 2016 based on data availability for all the variables in question obtained from World Bank statistical bulletin. The study discovers that various measures have been used to measure tourism in the course of reviewing the literature (see Sequeira and Campos, 2005; Surugiu and Surugiu, 2013). Hence, tourism receipt (TR) as a percentage of GDP at current prices is employed by this study to measure tourism export as an independent variable while GDP at current prices is used to measure economic growth. Merchandise export (MERX) is assumed to have a great influence on economic growth, inflation (INFL) which captures instability within the economy, and D2011 captures the 2010/2011 crisis in North Africa. The selected North African countries covered in this analysis are Algeria, Egypt, Morocco and Tunisia.

5.0 Estimation Results and Discussion

5.1 Panel unit root tests

The determination of the non-stationarity of the series used is very essential, hence, we employ the panel unit root tests of Levin et al. (2002) (LLC), Im et al. (1997) (IPS), Madala and Wu (1999) (ADF Fisher) and Breitung (2000) (Breitung). The test statistics for the natural log levels and first difference of GDP and the independent variables are respectively generated. The table 3 below reveals the test statistics and the probability values. The results for all the variables except inflation show that they are not stationary at level (at 5% level of significance) but rather at first difference.

5.2 Pooled Mean Group (PMG) Estimation

Having determined the non-stationarity of the series, we discover that the series are I(0) and I(1) series which validates the use of PMG. Hence, the study estimates short run and long run relationship between economic growth and tourism in North African countries using PMG. The result of the PMG estimator is presented in the table 4 below:

Table 3	Panel unit root test			
Variables	LLC test 0.7801	Breitung test	IPS	ADF Fisher test
lnGDP		1.5069	1.9292	3.8215
ΔlnGDP	(0.7823)	(0.9341)	(0.9731)	(0.8729)
	-5.6292	-3.6548	-1.8995	15.9148
lnTour	(0.0000)	(0.0001)	(0.0287)	(0.0436)
	2.8630	3.2125	4.0332	0.4016
ΔlnTour	(0.9979)	(0.9993)	(1.0000)	(0.9999)
	-5.9127	-4.0891	-6.0627	41.8574
lninfl	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-3.9936	-1.2831	-4.8756	35.0937
Δlninfl	(0.0000)	(0.0997)	(0.0000)	(0.0000)
	-11.2422	-4.3106	-9.8258	69.3499
lnmerx	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	1.9659	1.5684	2.5290	2.7262
Δlnmerx	(0.9753)	(0.9416)	(0.9943)	(0.9503)
	-6.8562	-5.9528	-5.2453	36.2775
	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Note: Figures in parenthesis are the probability values

Table 4: Summary of PMG results for Gross Domestic Products (GDP)

Dependent Variable: GDP

Short run				Long run				
Regressors	Coefficient	Std. Error	T-stats	P.value	Coefficient	Std. Error	T-stats	P.value

Lninfl	-0.0373	0.0191	-1.9577	0.0549	0.2192	0.0753	2.9115	0.0050
lntour	0.0618	0.0369	1.6751	0.0991	0.2849	0.0948	3.0050	0.0039
lnmerx	0.1110	0.1011	1.0979	0.2766	0.5665	0.0982	5.7701	0.0000
D2011	-0.0025	0.0087	-0.2834	0.7779	0.0649	0.0748	0.8669	0.3895
Cointeq01	-0.2244	0.0644	-3.4842	0.0009				
C	1.2342	0.3273	3.7710	0.0004				

Note: the cointegration shows that there exist a long run relationship between the dependent and the independent variables. It is worth mentioning that the result implies that tourism while statistically significant and positive at 10% in the short run contributes just 6% to economic growth in North African countries but 28% in the long run at 5% level of significance (see Brida & Risso, 2010).

 Table 5: Cross-Section Short run Coefficient

Algeria					Egypt				
Regressor	Coefficient	Std. Error	T-stats	P.value	Regressors	Coefficient	Std. Error	T-stats	P.value
S									
Lninfl	0.0115	0.0002	61.2151	0.0000	lninfl	-0.0800	0.0010	-77.3188	0.0000
Lntour	0.0233	0.0008	30.2065	0.0001	Intour	-0.0015	0.0031	-0.4674	0.6721
lnmerx	0.3176	0.0032	100.1476	0.0000	lnmerx	-0.0727	0.0075	-9.6451	0.0024
D2011	0.0127	0.0009	13.7856	0.0008	D2011	-0.0195	0.0018	-10.7651	0.0017
Cointeq01	-0.1561	0.0031	-50.9479	0.0000	Cointeq01	-0.1373	0.0012	-113.6414	0.0000
С	0.9581	0.1578	6.0724	0.0000	С	0.8559	0.0797	10.7397	0.0017
Morocco					Tunisia				
Regressor	Coefficient	Std. Error	T-stats	P.value	Regressors	Coefficient	Std. Error	T-stats	P.value
S									
Lninfl	-0.0489	0.0002	-289.5234	0.0000	lninfl	-0.0319	0.0006	-51.0226	0.0000
Lntour	0.1660	0.0088	18.8073	0.0003	lntour	0.0594	0.0045	13.1534	0.0009
lnmerx	-0.0522	0.0106	-4.9300	0.0160	lnmerx	0.2514	0.0084	29.8938	0.0001
D2011	0.0122	0.0009	13.2019	0.0009	D2011	-0.0153	0.0008	-20.2045	0.0003
Cointeq01	-0.4149	0.0183	-22.7074	0.0002	Cointeq01	-0.1893	0.0074	-25.7442	0.0001
C	2.2140	0.9392	2.3574	0.0996	C	0.9087	0.2304	3.9445	0.0290

Note: the cross section analysis of individual countries shows that tourism contribution to economic growth for Algeria is significant and positive; Egypt is negative and insignificant, Morocco is positive and significant; Tunisia is positive and significant.

Conclusion

Sequel to the results of the analysis above, we may conclude that tourism is a viable potential through which sustainable development can be achieved in North Africa, if the share of tourism-growth can be properly managed and tourism aids adequately provided. By tourism aids, we

mean adequate security, political stability, adequate social and infrastructural facilities and accessibility to tourism sites among the host of others.

Table 6: Economic activities of Algeria, Egypt, Morocco and Tunisia

Economic Activities	Algeria	Egypt	Morocc	Tunisia	Eur28	Year (source)
Population (mlm)1			0			
Population aged 15-34 (mlm)1	39.7 13.9	91.5 31.5	34.4 11.8	11.3 3.7	510.1 119.8	2015 (UNESCO) 2015 (UNESCO)
Old-age dependency ratio (%)2	13.9 9.1%	8.5%	9.3%	5.7 11.0%	29.4%	2015 (UNESCO) 2015 (WB)
Fertility rate (births per woman)2	2.9	3.3	2.5	2.2	1.5	2014 (WB)
Adult literacy rate (15+)3	79.6%	75.8%	71.7%	81.1%	99.2%	2015 (UNESCO)
Mean years of education4	7.6	6.5	4.4	6.8	11.4	2014 (UNDP)
Youth employment ratio (female, 15-24)5	5,8%	9.6%	14.0%	13.9%	32.2%	2016 (ILOSTAT)
Youth employment ratio (male, 15-24)5	35.3%	33.9%	41.1%	30.4%	36.2%	2016 (ILOSTAT)
Unemployment rates5	11.2%	12.0%	10.0%	14.8%	8.6%	2016 (ILOSTAT)
Youth unemployment rates (15-24)5	26.6%	33.4%	20.6%	35.7%	18.7%	2016 (ILOSTAT)
GINI coefficient (0-100)6	34.2	46.4	39.6	36.7	29.8	2015 (SWIID)
Ease of Doing Business (rank)7	156	122	68	77	30	2017 (WB)
GDP (constant 2010 USD bln)2	190.2	247.7	113.2	48.1	17878.7	2015 (WB)
GDP per capita (constant 2011 USD PPP)2	13822.6	10250	7364.8	10769.9	35622.2	2015 (WB)
GDP per capita growth (2011 USD PPP)2	1.2%	2.2%	2.6%	2.6%	1.4%	1990-2015 avg(WB
Gross savings (% of GDP)8	43.6%	12.6%	27.2%	14.7%	21.3%	2011-15 avg(IMF)
Total investment (% of GDP)8	44.6%	15.2%	33.6%	23.1%	19.9%	2011-15 avg(IMF)
Current account balance (% of GDP)8	-0.9%	-2.6%	-6.4%	-8.4%	1.4%	2011-15 avg(IMF)
FDI net inflows (% of GDP)2	0.7%	1.2%	3.0%	2.2%	3.6%	2011-15 avg(WB)
Personal remittances received (% of GDP)2	0.1%	6.3%	6.9%	4.8%	0.6%	2011-15 avg(WB)

ODA net loans and grants (% of GDP)9	0.1%	1.0%	1.7%	1.8%	-	2011-15 avg(OECD
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Source: Dadush et al. (2017)

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