# Impact of religion and religious differences on political and economic cooperation between countries 

Betul Dicle<br>Louisiana State University and Agricultural and Mechanical College

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by
Betul Dicle
B.A., Ankara University, 1995
B.Law., Istanbul University, 2000
M.A., Louisiana State University, 2008

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#### Abstract

Studies on economic and political cooperation of countries generally focus on the effects of factors such as geographical proximity, political regime type, and the different fiscal and monetary policies, among others. The impact of religious affiliation, however, stayed mainly as theory. The clash between and/or within religions had important proponents. We provide evidence that religion can have economic union effects. We evaluate whether there is historic economic polarization and whether religions have group dynamics similar to economic unions. Economic convergence, causation and trade cooperation are commonly reported for economic unions. Do these effects exist for countries with the same religion?

Econometric challenges exist. Large dispersions within religious groups deem $\sigma$-convergence and $\beta$-convergence problematic: two common measures of income level equalizing effect of economic unions/groups. As a remedy, we propose a new convergence measure namely trend-convergence. This allows us to extend the analysis to over 200 countries, 8 religions, 17 religious sects and factors utilizing 15 different data sets for the 1950-2009 period as data allows.

The evidence shows that common religion between countries is an important factor for their economic income level equalization (convergence). However, countries with common religion in general have economic divergence and decreasing bilateral trade. These results are statistically significant at the .01 level. Economic unions and partnerships such as European Union and OPEC have economic convergence, as expected. Most importantly, the only religion that have economic convergence and increased bilateral trade is Islam. This evidence suggests that Islam is having similar effects as an economic union.


## Chapter 1

## Introduction

There have been two World Wars in history. Neither world war was related to religious affiliation or religious diversity. In the last two decades, however, we are witnessing a significant diversity between religions and between different sects of religions. A trend that seems to support the arguments of Huntington (1993).

It is true that Muslim-Shias and Muslim-Sunnis were at odds since the dispute over the first caliph after the prophet's death at year 632 . However, it is only becoming a worldwide concern now that one side (Iran) is attempting to arm itself with nuclear weapons and the other side (Saudi Arabia and Egypt) is forming an alliance with the US, the superpower of the world.

The wars between Christian-Protestant and Christian-Catholics are common in history (such as the Thirty Years War, St. Bartholomew's Day massacre and ensuing religious wars in France, and Catholic-Protestant conflict in Ireland). The conflict between Muslims and Jews proved to be persistent in the $20^{\text {th }}$ century. Anti-Semitism in Europe dates back to the Roman Empire and Jews were subjected to persecution for many centuries (such as the persecution of Jews in Russia in $19^{\text {th }}$ century and their persecution during the Spanish Inquisition and their subsequent retreat to the Ottoman Empire). Anti-Semitism still persists throughout Europe.

Religion, while a uniting factor for countries with the same faith, can be a dividing factor between countries of different faiths. The inherent condemnation of other religions within religious teachings can impair economic as well as political relationships. It can also lead to conflicts. Huntington (1993) argues that religion is one of the most important factors in the division lines between civilizations.

On the other hand, there are examples of dyadic relationship that are exceptions, outliers. The historic relationship between the Turks and the Jews had military as well as financial consequences for the Ottoman Empire and for the new Republic of Turkey. When the Ottoman Sultan, Abdulhamid II, was asked to give permission to the European Jews to immigrate to Palestine, then under the Ottoman rule, by Dr. Theodore Herzl, the president of the World Zionist Congress and was offered to be freed from all Ottoman's foreign debt at that time, he declined. ${ }^{1}$ Also, during the Spanish Inquisition, the Ottoman Empire provided a safe haven for the Jews. This relationship between the Muslim-Sunni caliph and the Jews was not welcomed in the Islamic world.

There are also obvious examples of religious conflicts such as the Crusades. More recently, wars between Israelis and Arab nations have their roots in the conflicts with Jews in the Arab world possibly due to religious teachings as well as the historic denial of the existence of Palestinian State by the Jews. Recently, within the last decade, we are witnessing a possible united front against Islamic faith, especially after September 11, 2001. This alliance is meeting with perhaps unwilling alliance on the Muslims side as well. Countries, otherwise enemies, seem to be grouping against a common threat. Turkey, for instance, a long time US ally, seems to be giving up its accession bid for EU and forming economic alliances with Iran and other Islamic nations. Perhaps this religious grouping has started decades ago. Huntington (1993, p. 28) notes that "Culture and religion also form the basis of the Economic Cooperation Organization, which brings together ten non-Arab Muslim countries..." and "One impetus to the revival and expansion of this organization, founded originally in the 1960s by Turkey, Pakistan and Iran, is the realization

[^0]by the leaders of several of these countries that they had no chance of admission to the European Community." Syria, a nation once threatened by Turkey with war due to Syria's support for PKK terrorism, seems to be increasing its security relations with Turkey and Iraq, its Islamic neighbors. While ethnicity seems to be also important, the 700 year effect of the Ottoman Empire is inevitable. Ex-USSR countries also seem to be choosing their economic and political counterparts based on their common religious affiliations. Fukuyama (1989, p. 12) noted this religion based polarization trend in 1989: "The rise of religious fundamentalism in recent years within the Christian, Jewish, and Muslim traditions has been widely noted."

Regardless of exceptions, the main questions of the present study are: Is religion a dividing or uniting factor for countries? Is there such a thing as religious brotherhood when it comes to international economic/political cooperation? How does religious affiliation affect economic/political performance/cooperation comparatively? Finally, is there religious segregation in the world which should cause concern for future conflicts?

In a study about religion and its comparative effect on countries, one of the major obstacles is the data about religion. It is a variable that can be measured at different dimensions. While religious affiliation is a dimension, affinity is also a dimension. Being born into a religion is yet another dimension. Respondents to surveys about religion have different states of minds that are based on whether they are living in Iran, Saudi Arabia or France. These dimensions limit the empirical studies about religion to major religious groups. The majority of Iran was MuslimShias during the Shah and the majority of Iran is still Muslim-Shias now.

We have several contributions to the existing literature. There are four new measures introduced to remedy the problems associated with high diversity and outliers within groups that may potentially mask trends. We introduce the trend-
convergence measure within section 2.4 which is an alternative to $\sigma$-convergence measure. Trend-convergence captures different dimensions of convergence. However, due to possibly similar growth rates of countries within groups, convergence does not sufficiently capture the intended cooperation between religions. In sections 4.1 and 4.2, two new measures are introduced: economic causality and trend of bilateral trade, respectively. All three measures combined provide us with a clearer understanding of the intra-religion dynamics and cooperation within each religion. The final new measure is for the higher religiosity in Islam. Since we are arguing that the worldwide Islamophobia is creating a united front on both sides, and this is a cause of concern, we suggest a measure for higher religiosity for Islamic faith. Islamic banking figures (compared to traditional banking figures) in each country is used as an indicator of the willingness of the public to choose a more risky banking practice (there is no deposit insurance in Islamic banking) over traditional commercial banking. Thus, this measure shows the willingness of the public to act on their religious beliefs, which we define as religiosity. We control for increased Islamic religiosity and cooperation between these countries in each of the empirical test sections.

Our most important contributions to the existing literature are the actual conclusions: 1) The economic result of religious uniting is evident for Muslims and Christians. While Muslims are converging in their economic situations and having higher bilateral trade, Christians are diverging economically and having lower bilateral trade. If there is polarization in the world against the Islamic faith, it seem that it is helping the Muslims to unite. 2) There is increasing cooperation between countries with increased Islamic religiosity. And 3) Christians and Muslims, along with certain sects, seem to be the leading groups of divergence and convergence
movement. All three of these conclusions have policy implications and point to a possible segregating impact between the religions.

We are not arguing, in any way, that one religion is opposed another. However, there is a trend after September, 2001, to suspect one religion (Islam) as the culprit. The Afghanistan and the Iraq wars are between mostly Christian states and Muslim states. The Al-Qaeda terrorist organization is comprised of Muslim individuals. Iran, another Islamic state, is accused of developing nuclear weapons. In this study, we provide empirical evidence that Islamic states have economic convergence. They also have convergence in military spending. On the other hand, Christians have divergence in GDP per capita and military spending. Shias have the highest convergence in military spending (compared to all sects). Thus, if there is a polarization in the world based on religion, Islamic states seem to be the only group polarizing.

### 1.1 Literature Review

Religion is a factor that affects the economic and political structure of countries. Weber (1930), for instance, argues that Christian-Protestants' work ethics is a reason for economic development. This argument would establish the basis of evaluating the comparative effect of religion on economic development across countries with different religions, including Christian-Protestants. In a similar vein, arguments of Thomas Babington (1848) and Harrison (1985) compare ChristianCatholicism to Christian-Protestants in terms of its less positive effect on economic development. In a wide based empirical study, Grier (1997) shows the difference in economic development levels between Christian-Protestant countries and Christian-Catholic countries. He reports a positive relationship between GDP growth and Christian-Protestant belief. Inglehart and Norris (2003) argue that Is-
lam is also a religion that has impact on the economic development of countries. Perhaps, since level of women within the workforce is lower in Muslim countries compared to Christians, it would be intuitive to argue that Muslim countries' development would be hampered compared to Christians'. The common argument of these studies is that religions affect economic development in individual countries. In other words, each religion is evaluated in its own merits without considering its interactions with other religions.

The evaluation of economic development is understandably a process that considers individual country attributes. Religion is one of them. As de Melo et al. (1992) point out, the world is integrating and economically converging. The European Union, for instance, is one of the attempts toward regional integration that aims to unite European nations economically and politically. Efforts such as NAFTA is less ambitious and aims to enhance regional trade and improve economic development. OPEC is for oil producing countries in the world without regional coverage. NATO is for military cooperation, again without any regional preference. ${ }^{2}$ OECD is economic cooperation without regional coverage.

Each dyadic relationship has unique dynamics based on its geographical, ethnic, historical, linguistic, economic, political and religious situations. Having the same colonizer in history, as argued by Grier (1997), is a factor for economic development. Britain, Spain, France, Italy, and the Netherlands, among others, had many colonies in different parts of the world. They instilled their legal systems, cultures and languages. English, French, and Spanish are either official languages or widely spoken languages in many former colonies. Most legal systems are based on common law, civil law or other western law. In their seminal work, La Porta et al.

[^1](1998) show the effect of legal systems on financial development of countries. In their grouping of legal systems, La Porta et al. (1998, p. 1130) include "Englishorigin", "French-origin", "German-origin", and "Scandinavian-origin". While some countries' choice of legal systems is based on historical development of their legal systems, some are based on regional proximity and some are based on past colonizations. Kuran (2009) argues that the religious culture had impacted the development of Islamic countries due to the influence of Islam on legal systems. ${ }^{3}$ Based on the arguments of Kuran (2009), if we were to include a new grouping to La Porta et al. (1998), it would be countries whose legal systems are based on Shari'a (Islamic religious law). However, there are countries that do not have Shari'a as the law of the land, but their cultures are heavily influenced by the Islamic religion. For instance, Bangladesh a former British colony, has its legal system based on English common law. ${ }^{4}$ However, Islamic family law has its place within the court system.

The arguments about common denominators aim to explain economic development and comparative differences between countries. Huntington (1993) is the seminal work that argues civilizations' differences and states that "Civilizations are differentiated from each other by history, language, culture, tradition and, most important, religion" (Huntington, 1993, p. 25). While his study is to argue the "Clash of Civilizations", he also argues that common traits within civilizations are uniting factors for members of civilizations: "... perhaps as a result, a return to the roots phenomenon is occurring among non-Western civilizations" (Huntington, 1993, p. 26). In fact, Huntington (1993) argues that the religion is a major factor in this uniting tendency: "The 'unsecularization of the world,' George Weigel has remarked, 'is one of the dominant social facts of life in the late twentieth century.'

[^2]The revival of religion, 'la revanche de dieu,' as Gilles Kepel labeled it, provides a basis for identity and commitment that transcends national boundaries and unites civilizations" Huntington (1993, p. 26). These points form the basis for our argument that there should be more economic cooperation between nations with the same religion. This hypothesis also implies that there should be relatively less cooperation between nations with different religions. After all, according to Huntington (1993, p. 27), "Even more than ethnicity, religion discriminates sharply and exclusively among people." In specific, we would expect that the conflict between "Western and Islamic civilizations" that "has been going on for 1,300 years." (Huntington, 1993, p. 31) should reflect as relatively less economic cooperation.

Our argument is not as strong as those of Huntington (1993). We are not claiming that the supposed animosity between religions is resulting in less economic cooperation. There can be economic cooperation between any countries. After all, as Voltaire put it: "When it's a question of money, everybody is of the same religion". However, we are arguing that due to the commonalities within religions, there should be more economic cooperation between the countries of the same religion. History, culture and religion are uniting factors within civilizations and dividing factor between civilizations. Huntington $(1993,29)$ states "As the ideological division of Europe has disappeared, the cultural division of Europe between Western Christianity, on the one hand, and Orthodox Christianity and Islam, on the other, has reemerged."

While Huntington (1993) is a contradicting study to Fukuyama (1989), Fukuyama (1989, p. 11) also recognizes "... contradictions in liberal society beyond that of class that are not resolvable." He further states that "The rise of religious fundamentalism in recent years within the Christian, Jewish, and Muslim traditions has been widely noted" (Fukuyama, 1989, p. 12). We find that both Huntington (1993)
and Fukuyama (1989) agree on the fact that affiliation to the same religion can be a uniting factor for countries. Religion also can be a dividing factor between countries of different faiths.

There are certainly opposing arguments. Bilgrami (2003), for instance, argues that the clash is not necessarily between civilizations but also within civilizations. He argues, that the differences between the secularists and absolutists among Muslims is a potential for division. This argument would be opposite to ours. We agree with the fact that within religions (or more generally, within civilizations) there could be dividing factors so strong that it could lead to clashes. For instance, the differences between Muslim-Sunnis and Muslim-Shias have their roots in the early years of Islam and did not resolve for the past 1,300 years of Islamic history. Similarly, the differences between Christian-Protestants and Christian-Catholics are also reasons of diversion. In fact, what Bilgrami (2003) argues is not the clash between sects of Islam. It is clash within a sect.

One of the important measures of economic cooperation is income equalization between countries. Lucas (1990, p. 96) for instance hypothesizes several reasons to explain the "... absence of income equalizing international capital flows." In fact, he states "The central idea of virtually all postwar development policies is to stimulate transfers of capital goods from rich to poor countries" (Lucas, 1990, p. 96). While economic cooperation could be measured with bilateral trade, long-term integration or economic causation, what is important is the benefit each country is attaining from the economic cooperation. Thus, we use a measure similar to Lucas (1990) in that we believe that economic cooperation should be measured with income equalization between countries. A dyad of countries may have ever increasing bilateral trade and one of the countries may not be benefiting from this trade as much as the other one. A country's economy may be impacting
another's economy negatively. While one country does better, the other one may be doing even better. On the other hand, income equalization implies that the poorer country becomes similar, in richness, to the richer country. The income disparity gets lower. Both countries do well but the poorer country does better. This income level equalization is the convergence of GDP per capita between countries.

Based on the characteristics of individual religions, their relations within themselves and with each other, we further argue that there are general patterns of economic convergence/divergence for different religions. Based on the arguments of Weber (1930), two Christian-Protestant countries should be converging in their economic development more than their convergence with other countries. If both countries have similar work ethics, their bilateral trade should increase more than their bilateral trade trend for other countries. We expect to find more economic and trade cooperation between Christian-Protestants. On the other hand, just because being a Christian-Catholics country is argued to be less positive (economically) than being a Christian-Protestant country, it does not mean that ChristianCatholic dyads should have more/less cooperation between themselves. In a similar analogy, just because Islam's impact on economic development is less positive, it does not mean Islamic countries cooperates more or less.

If it is found that Christian dyads economically converge or Muslim dyads economically converge, it would provide evidence in line with the arguments of Huntington (1993) and Fukuyama (1989) in that a religion has a uniting factor within itself. However, if Muslim dyads economically diverge, it would provide support for the Bilgrami (2003).

Further evaluation examines the dyadic relationship of countries with different religions. This leads to religions' relationships with each other as groups, as if they are economic/political unions themselves. Finally, these dyadic relationships are
evaluated within the context of already established economic and political unions such as European Union.

### 1.1.1 Economic and Political Cooperation Within Economic Unions

Earlier studies (e.g., Balassa and Toutjesdijk, 1975) find a positive effect of integration between developing countries on economic growth through increased trade among member countries. On the other hand, some of the recent studies (e.g., Economidou et al., 2006) based on developing countries find that trade among the members of trade blocs does not necessarily induce economic growth. Based on a cross-section of 101 countries (OECD and developing) for the period 1960-1985, de Melo et al. (1992) find that economic and trade integration have an insignificant effect. Several other studies also find no significant effect of integration on economic growth (Landau, 1995; Vanhoudt, 1999; Badinger, 2001; Estrin et al., 2001; Kocenda, 2001). There are also many studies that provide evidence for the positive effect of economic or trade integration on economic growth and/or productivity (Brada and Mendez, 1988; Baldwin, 1989; Rivera-Batiz and Romer, 1991; Ben-David, 1993; Coe and Moghadam, 1993; Ben-David, 1994; Kokko, 1994; Henrekson et al., 1997; Haveman et al., 2001; Brada et al., 2005; Economidou et al., 2006; Kutan and Yigit, 2007; Cuaresma et al., 2008). In addition, Dreze (1989) argues that integration benefits smaller countries more than it does larger countries. Grossman and Helpman (1991) argue in contrast to Dreze (1989). These mixed results make it hard to make inferences about the real economic impact of economic unions by the member countries.

Most of the studies cited above differ in terms of methodology, data periods, countries included, and questions evaluated. The common denominator is the economic impact of integration and the channels in which such impact occurs. Barro
and Sala-i Martin (1992) is one of the early studies that present the concept of $\beta$-convergence which refers to the correlation between GDP and its growth rate in similar fashion to the trend analysis of Dickey and Fuller (1981) for stationarity. Convergence requires that the correlation coefficient to be statistically significant and negative. Among the studies that evaluate convergence in income levels cross-sectionally are, Dowrick and Duc-Tho (1989); Barro (1991); de Melo et al. (1992); and Henrekson et al. (1997). Barro and Sala-i Martin (1992) also evaluate convergence through what is referred to as $\sigma$-convergence which is the decreasing standard deviation of income among member countries. Recently, Cuaresma et al. (2008) provide evidence in favor of both $\beta$ - and $\sigma$-convergence using the EU member countries for the time period 1961-1998.

Based on the mixed results obtained through cross-sectional analysis, more recent studies employ panel data estimations and estimate convergence as well as channels in which economic benefits are obtained. Convergence provides a reliable measure of income growth for economic and trade integrations. Among the studies that employ panel type estimations are Coe and Helpman (1995); Evans and Karras (1996); Evans (1998); Fleissig and Strauss (2001); Kocenda (2001); Economidou et al. (2006); and Cuaresma et al. (2008). The results of these studies are also mixed, however; more of them provide evidence for the positive effect of economic integration on income growth and especially $\beta$-convergence.

The mixed results are troubling. However, we can still infer some conclusions from studies that show positive economic effects of economic and/or trade integration. While there is contradictory evidence, these points are primarily what is being expected and further examined. Integration is expected to increase FDI, the growth rate of productivity, research \& development, and growth rate of income per capita. While the effects are static, they also have medium- and long-term
impact. The level of education increases the absorptive capacity of countries for new technology and enables the country to better utilize FDI, which in-turn is expected to increase the impact of integration. The size of integration (sum of GDP for member countries) affects the possible benefits for members. ${ }^{5}$ Government spending in general should affect integration benefits. ${ }^{6}$ Trade is expected to increase with integration, not just with the member countries but also with nonmember countries, which in turn would lead to greater openness of the economy and growth in income levels. Convergence in income and productivity is expected among integrated countries and it is expected to be higher for poorer countries. Diversification of integration is expected to improve growth rates of income level.

The purpose of this study is to evaluate religion as a common denominator for economic and political cooperation. Based on the mixed findings in the previous literature, while we know that economic unions are advantageous for the members, for the most part, we cannot explain some of the different findings for certain members of economic unions. It is argued here that religion can be a uniting factor for groups of countries to cooperate more and dividing factor for some of the countries within economic unions. For instance, unions that are based on geographic locations, such as the EU, include different religions. Thus, it would be expected to have Christian-Protestant states to have better working relations with other Christian-Protestant states within the EU. It also would be expected to have Christian-Orthodox, such as Greece, to be alienated, relatively speaking.

[^3]
### 1.1.2 Impact of Religion on European Union Accession and Economic Convergence

The European Union (EU) has a total real GDP of $\$ 11.5$ trillion and a population of about 488 million. ${ }^{7}$ With 27 sovereign countries as members, it is a challenge to economically and politically unite. By the end of 1995, Belgium, Germany, France, Italy, Luxembourg, the Netherlands, United Kingdom, Ireland, Denmark, Greece, Spain, Portugal, Austria, Finland and Sweden were EU members. Considering the alliance structure of the WWII, the EU has faced several challenges even at its initial stages. However, these countries also had quite in common, including geopolitics, economic co-integrations, cultures, shared histories and, perhaps more importantly, their religion.

Since 1959, Turkey has been an applicant country for EU membership. In 1995, Turkey formed and honored a trade union with the EU. However, no full EU membership is in sight. While Turkish governments would like to be considered a European country, the majority of Turkey's land is in Asia. Turkey would be the second biggest country within the EU in terms of its population. However, economically, its GDP per capita and its GDP growth rate would be the lowest among EU member countries. Turkey' population is predominantly Muslim.

Earlier studies that evaluate the economic impact of EU find positive effects for member countries (i.e., Coe and Moghadam, 1993; Ben-David, 1994; Kokko, 1994; Henrekson et al., 1997; Economidou et al., 2006; Kutan and Yigit, 2007; Cuaresma et al., 2008). In line with these findings, Ben-David (1996) show that the positive effects of the EU membership are evident for candidate countries as well. Contrary to this evidence, mainly based on methodological arguments, it is also argued that

[^4]membership may have negative economic impact as well (i.e Badinger, 2001; Estrin et al., 2001).

After 1995, as a trade union partner of EU, Turkey was expected to improve its economy, its socio-political institutions, and most importantly its level of democracy. However, the level of improvement is not sufficient for Turkey's full accession to the EU. There are several reasons for the lack of progress for Turkey. As a country that is a frequent target of terrorism, Turkey had a significant defense budget against radical Islamist (i.e., IBDA-C Hisbullah) and separatist Kurdish (i.e., PKK) terrorist organizations. Turkey also had to defend its guardianship rights in Cyprus for which it had to fight against Greece in 1967 and once again in 1974. Since, 1974, Turkey has had to finance the peace and safety of the Northern Cyprus Turkish Republic. While these costs are economic, there are also political costs involved with issues such as terrorism and problems with Greece over Cyprus and Aegean Sea territorial rights. According to the peace agreements after the Cyprus war, neither side of Cyprus (Turkish or Greek) can be a member to international unions (or organizations) if one of the guarantor states is not a member to that union (Greece and Turkey). Accordingly, membership of South Cyprus to EU is accepted by the EU despite this agreement even though two of the signatory parties to the initial peace agreement are EU members (Greece and the U.K.).

In this study, it is argued that religious commonality plays a significant role in European Union's inner economic convergence. While there may be a union-wide economic convergence, there is also economic convergence among the countries sharing a common religious faith. It is further argued that religion is one of the main reasons that Turkey cannot utilize the EU economic and political benefits to their fullest extent. Since 1995, the resistance of EU towards Turkey, coupled with the veto powers held by Greece and South Cyprus, did not allow Turkey to take
full advantage of the customs union agreement. Turkey, as the successor state of the Ottoman Empire, is charged with the directives of Ataturk to be westernized. Islamic roots within the society and the social impact of religion have their toll on such quest. In recent years, after a religious government was elected democratically in Turkey (2002), the EU was in full support of "moderate Islam". Such support, however, resulted in powerful Islamic government which eventually diverted its focus from EU membership towards other Islamic neighbors.

Turkey's relationship with the EU provides a unique case study for the evaluation of the effect of religious differences on the economic and political cooperation. In support of the theoretical argument, the empirical evidence would evaluate Turkey's level of religious tendency in relation to Turkey's integration with the EU. For instance, before 2002, the Turkish government was not Islamicly oriented and it was not a proponent of "moderate Islam". Thus, the period before and after the current one of moderate Islamic rule by the Justice and Development Party (JDP) provides a unique opportunity to evaluate Turkey's integration level with the EU in comparative perspective. There is also a period (1996-1997) during which another "moderately Islamic" party was partly in power through a coalition government. This period, due to the coalition government, would provide a unique robustness check; we would expect the effect of religion on EU integration to be lower than in non-Islamic government periods and higher than in completely Islamic government periods. The level of religious tendency for Turkey can be measured by the number of students in clergy high schools. As an alternative, the amount of deposits Islamic Banks collect in comparison to commercial banks can also be used. The level of integration with EU can be measured by the level of convergence or by Turkey's co-integration with EU members.

## Chapter 2

## Data, Convergence Variable and Econometric Model

Several data sets are utilized for this study for political, economic and religion variables. Table 2.1 provides the list of countries that are included in the study. Since multiple data sets are combined, a country name mapping file is created across datasets. While the majority of the countries' names are not problematic, some of the countries names do not match across data sets (ex. South Korea may be Korea, South or Republic of Korea) . ${ }^{1}$

### 2.1 Political Variables

The main source of the political variables is the "Correlates of War Project" (COW). ${ }^{2}$ Dyadic variables from this data set include alliances (Formal Alliances, v3.03) (alliance), bilateral trade (Bilateral Trade, v2.01) (imports and exports), contiguity (Direct Contiguity, v3.1) (contiguity), diplomatic exchanges (Diplomatic Exchange, v2006.1) (de), intergovernmental organization memberships (Intergovernmental Organizations, v2.3) (IGO), interstate wars (Inter-State War, v3.0) (war) and militarized interstate disputes (Militarized Interstate Disputes, v3.1) (mid). ${ }^{3,4}$ Political variables that are country specific include intra-state wars (IntraState War, v3.0) (c_war) and country codes (ccode).

[^5]TABLE 2.1: Descriptive statistics for real GDP per capita (RGDPCH) (in constant prices) by country. RGDPCH (growth) is divided by the World average GDP per capita (growth). The World average is either equally weighted or population weighted. Trend is the coefficient for the trend for the model: $X_{t}=\alpha+\beta_{1}$ trend $t_{t}+\epsilon_{t}$ where X is the variable of the column. DF-z is the Dickey-Fuller stationarity test. Economic variables are used from "Penn World Table" (PWT). *, ** and *** represent statistical significance at $1 \%, 5 \%$ and $10 \%$ levels respectively.

[^6]Table 2.1 - continued from previous page



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[^0]:    ${ }^{1}$ Later in history, we see that Palestine allied with the British to be freed from the Ottoman Empire.

[^1]:    ${ }^{2}$ Canada, United States, and Turkey are in different parts of the world

[^2]:    ${ }^{3}$ Lack of corporations and hereditary laws, among others, are some of these reasons
    ${ }^{4}$ http://www.law.emory.edu/ifl/legal/bangladesh.htm

[^3]:    ${ }^{5}$ While Rivera-Batiz and Romer (1991) argues positive impact, Economidou et al. (2006) argues negative impact.
    ${ }^{6}$ While Barro (1991); Levine and Renelt (1992); Barro and Sala-i Martin (1997); Economidou et al. (2006) argue for negative impact, Barro (1995) explain that 'productive government spending' has positive effects.

[^4]:    ${ }^{7}$ Heston et al. (2009) provide economic data for 188 countries for the time period 1950-2004 with the Penn World Table (PWT). It is available through Center for International Comparisons of Production, Income and Prices (CIC) at University of Pennsylvania (http://pwt.econ.upenn.edu/php_site/pwt_index.php).

[^5]:    ${ }^{1}$ A Stata command (stdcountry) is created as part of this study which can be downloaded and installed from http://www.financepolisci.com/stata
    ${ }^{2}$ Correlates of War Project is available through http://www.correlatesofwar.org/
    ${ }^{3}$ While the variables available through the dataset may include many more variables, the list of variables provided here are the variables used in this study.
    ${ }^{4}$ Variables names, as they are used in empirical tests, are provided in italics throughout this study. While some of the variables may be used as they are used in the data sources, some are changed to avoid conflict between different datasets used.

[^6]:    

