

İzmir İktisat Dergisi İzmir Journal of Economics



E-ISSN: 1308-8505 **Received:** 18.06.2023 Year: 2024 Accepted: 27.01.2024 Vol: 39 No: 2 Published Online: 05.04.2024 RESEARCH ARTICLE

Pages: 524-543 **Doi:** 10.24988/ije.1316260

Individual-Level Determinants of Social Capital: Some Empirical Evidence in MENA*

Deena SALEH¹

Abstract

Despite social capital's role in shaping nations' economic growth and social development, studies examining social capital determinants have overlooked the MENA region. This study explores personal values and religiosity as possible determinants of social capital in the Middle East and North Africa (MENA) region by focusing on interpersonal trust. Considering the social and cultural context in the MENA region, the author advances an approach exploring how personal values and religiosity shape interpersonal trust. In doing so, we utilize data from the World Values Survey Round 7. The WVS data pertains to 12322 respondents from 9 MENA countries, which we analyze with the help of linear regression analysis. The novelty of this study lies in covering how individual-level personal values and religiosity influence ingroup and outgroup trust. An important finding is that outgroup trust can decrease when people become more religious, attend prayers frequently, or believe in their religion's superiority. At the same time, it increases when people attend religious services more frequently. We find that interpersonal trust increases when people favor gender equality.

Keywords: Middle East, Social Capital, Personal Values, Religiosity, Interpersonal Trust, Economic Sociology.

Jel Codes: A13, Z13, Z12, N35

Sosyal Sermayenin Bireysel Belirleyicileri: MENA Bölgesinde Bazı Deneysel Bulgular

Özet

Sosyal sermayenin ulusların ekonomik büyüme ve sosyal gelişimini şekillendirmedeki rolüne rağmen, sosyal sermaye belirleyicilerini inceleyen çalışmalar MENA bölgesini göz ardı etmiştir. Bu çalışma, Orta Doğu ve Kuzey Afrika (MENA) bölgesinde sosyal sermayenin olası belirleyicileri olarak kişisel değerler ve dindarlığı, kişiler arası güvene odaklanarak incelemektedir. Yazar, MENA bölgesindeki sosyal ve kültürel bağlamı göz önünde bulundurarak, kişisel değerlerin ve dindarlığın kişilerarası güveni nasıl şekillendirdiğini araştıran bir yaklaşım geliştirmektedir. Bunu yaparken, Dünya Değerler Anketi 7. Tur verilerinden yararlanılmaktadır. WVS verileri, doğrusal regresyon analizi yardımıyla analiz ettiğimiz 9 MENA ülkesinden 12322 katılımcıya aittir. Bu çalışmanın yeniliği, bireysel düzeydeki kişisel değerlerin ve dindarlığın grup içi ve grup dışı güveni nasıl etkilediğini ele almasında yatmaktadır. Önemli bir bulgu, insanlar daha dindar olduklarında, ibadetlere sık katıldıklarında veya dinlerinin üstünlüğüne inandıklarında dış grup güveninin azalabileceğidir. Aynı zamanda, insanlar dini hizmetlere daha sık katıldıklarında artmaktadır. İnsanlar cinsiyet eşitliğini desteklediklerinde kişiler arası güveni nartığını bulduk.

Anahtar kelimeler: Orta Doğu, Sosyal Sermaye, Kişisel Değerler, Dindarlık, Kişilerarası Güven, Ekonomik Sosyoloji.

Jel Kodu: A13, Z13, Z12, N35

^{*} This article is based on some sections of the PhD Dissertation 'Determinants of Social capital in Middle East and North African (MENA) countries' submitted to the Institute of Social Sciences, Department of Economics, in Istanbul University, in February 2023.

CITE (APA): Saleh, D. (2024). Individual-Level Determinants of Social Capital: Some Empirical Evidence in MENA. İzmir İktisat Dergisi. 39(2). 524-543. Doi: 10.24988/ije.1316260

¹ Dr. Visiting Lecturer, Piri Reis University, Department of Economics. Istanbul/ Tuzla, Turkey.

EMAİL: deenasalih@outlook.com. ORCID: 0000-0003-4628-4064

1. INTRODUCTION

Considering the increasing scholarly attention to social capital and its role in explaining crosscountry variations in socioeconomic development and institutional performance, several scholars attempted to examine factors affecting social capital formation on both the individual and country levels. However, theories about the sources that shape social capital are still developing. Some scholars claim that sources of social capital are long-term, such as history, heritage, religion, and culture, or short-term, such as civic and political events (Van Oorschot et al., 2006; Delhey and Newton, 2005; Kaasa, 2013; Kaasa, 2015; Halman and Luijkx, 2006; Kaasa and Parts, 2008). Few studies have examined how social capital components are shaped by determinants such as culture and personal values (Kaasa, 2019; Kaasa, 2013; Halman and Luijkx, 2006; Kaasa, 2015; Berggren and Bjornskov, 2011; Van Oorschot and Arts, 2005; Van Oorschot et al., 2006). Unfortunately, all these studies examined European countries, whether on a regional or country level.

This furthered our interest in understanding how factors such as personal values and religiosity function in the Middle East context and how they affect social capital components. This was the first motivation for this study to fill a gap in the literature by exploring individual-level determinants affecting social capital in MENA countries. Additionally, an overview of the social capital literature shows that despite the growing scholarly interest in social capital, the number of studies on the MENA region (See Almutairi et al., 2021; Kasmaoui and Errami, 2017; Tausch, 2016; Ceyhun, 2019; Cherkaoui, 2019) remains relatively low compared to the immense literature studies from developed countries such as the Mediterranean, Western, Eastern, and Central European countries, Nordic, Scandinavian, and Continental European countries, and the United States (Kaasa, 2015; Van Oorschot and Arts, 2005; Van Oorschot et al., 2006; Halman and Luijkx, 2006; Christoforou, 2010; Putnam et al., 1993; Knack and Keefer, 1997).

In addition to the lack of studies examining sources of social capital in the MENA and the few numbers of studies covering the region, another motivation for this study is that the region witnessed several events in the last two decades, such as the Arab Spring and the following social unrest and political conflicts. Considering such changes and the critical role social capital plays in countries' economic and social development, it is worth understanding interpersonal trust as a component of social capital. In their study, Kasmaoui et al. (2018) examined how social capital affects economic growth in MENA countries, using social trust as a proxy. They found a significant effect of trust on economic growth. However, compared to the rest of the world, its impact was weaker in MENA countries. They attributed low trust levels in the MENA region to factors such as political conflict and the strong familial bonds that form the basis for social connections and business interactions (Kasmaoui et al., 2018). Putnam (2000) highlights the importance of social capital, stating that it helps people be richer, smarter, healthier, and better able to govern a stable democracy.

The current article presents a novelty in the following aspects: First, while earlier research on factors of social capital, such as cultural dimensions, personal values, and religiosity, has paid attention to Western and European countries (See Kaasa, 2013; Kaasa, 2015; Kaasa, 2019), this article focuses on the Middle East and North Africa using WVS data to study individual-level determinants of social capital, using interpersonal trust as a proxy. Next, most studies on social capital focus on social trust as a main proxy. However, we consider interpersonal trust, including its two subcomponents, ingroup and outgroup trust. We explore how they are affected by various individual-level determinants, such as personal values, besides demographics, such as gender, subjective social class, education, and age. Finally, except for studies that examined the role of religion in shaping social capital from a Western lens (Christoforou, 2010; Kaasa, 2013; Kaasa, 2015; Kaasa, 2019), this study examines how different religiosity indicators shape interpersonal trust in the MENA region.

Using interpersonal trust as a proxy, we use linear regression analysis to explore personal values and religiosity as determinants of social capital. We use individual-level data from the latest wave of the World Values Survey (WVS, 2017). Due to data availability, we confine our analysis to 9 MENA countries. Several indicators of personal values and religiosity are based on theoretical assumptions and an empirical approach based on factor analysis. Following exploratory factor analysis, linear regression analysis examines the effects of personal values and religiosity on ingroup and outgroup trust.

The article is structured as follows: Section 2 presents the theoretical literature, Section 3 presents the methodology and the empirical framework, Section 4 presents the results and discussion, and Section 5 presents the conclusion.

2. SOCIAL CAPITAL AND ITS SOURCES

The literature on social capital includes numerous definitions, reflecting the concept's multifaceted nature. In 1916, L.J. Hanifan described social capital as intangible assets such as goodwill and social interplay that meet social needs and shape social units (Hanifan, 1916). Fukuyama (1995) defines social capital as cultural values such as altruism, tolerance, and compassion. Knack and Keefer (1997) describe civic cooperation norms that reflect those social relations rooted in the social structures of society and assist people in coordinating their actions and achieving their goals. According to the World Bank, social capital is essential to local development. The World Bank defines social capital as "institutions, relationships, norms, and values that govern all forms, quantity, and quality of social interactions for socioeconomic development" (Islam and Alam, 2018).

Social capital has many dimensions, which can be defined according to two broad approaches: (a) bonding and bridging social capital and (b) cognitive and structural social capital. The first approach distinguishes between bonding and bridging social capital. Bonding social capital refers to close ties and social interactions in social networks among homogeneous groups such as immediate family and close friends; such ties are essential for "getting by" in life. Bridging social capital refers to weak and distant ties with people from different social networks. It reflects the resources that individuals obtain through their external connections and social networks (Narayan, 1999; Saukani and Ismail, 2019). The second approach includes cognitive and structural social capital. Cognitive social capital describes the less tangible aspect of social capital is about tangible nature (Krishna and Shrader, 1999). Cognitive social capital is a more informal, subjective, and intangible construct based on shared norms and attitudes, and it disposes people toward mutually beneficial collective action (Krishna and Uphoff, 2002). Structural social capital encompasses actions that compromise civic participation and networking (Kaasa, 2019).

Researchers use different proxies of social capital, such as associational life (Knack and Keefer, 1997; Narayan and Pritchett, 1997), civic engagement (Sedeh et al., 2021; Putnam, 2000), and voluntary memberships in associations (Christoforou, 2010). However, Putnam (2000) and Putnam et al. (1993) define a touchstone of social capital: generalized reciprocity. Generalized reciprocity is about our general tendency to trust each other when there is no immediate reciprocity. When we act altruistically, we expect an indefinite future repayment by an indefinite individual, which embodies uncertainty in social interactions (Portes, 1998).

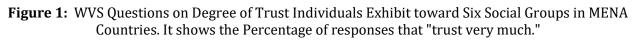
Trust encourages people to cooperate for mutual benefit (Krishna and Uphoff, 2002) and enhances their ability to solve social and economic problems (Irwin, 2009). Decades ago, Arrow (1972) attributed the economic backwardness of the world to a lack of trust since trust is a primary component of every commercial transaction. There are several types of trust, however. Generalized or social trust is our belief in good intentions and the trustworthiness of others (Irwin, 2009). Social trust is critical in measuring social capital, as people rely on each other, including people who do not

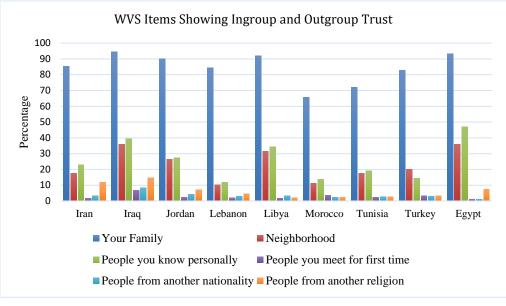
know each other personally. Numerous studies use social trust as a proxy for social capital (Norris and Inglehart, 2006; Kasmaoui et al., 2018; Knack and Keefer,1997; Uslaner, 2002; Kasmaoui and Errami, 2017).

Besides social trust in general, individuals tend to exhibit a more specific trust in those they know, such as their family or those from the same religion or ethnicity. As a result, in addition to social trust measuring our abstract trust in others, there is particularized/interpersonal trust. Yamagishi and Yamagishi (1994) define particularized trust as the tendency of people to trust their kind and people they know to reduce their social uncertainty. Delhey and Welzel (2012) proposed a way to distinguish two types of interpersonal trust: ingroup and outgroup trust. Outgroup trust extends to strangers and those different in some group identity characteristics, such as nationality and religion.

In contrast, ingroup trust includes people one is familiar with, such as friends, relatives, and acquaintances. Ingroup trust emphasizes "familiarity" with close individuals such as family, relatives, neighbours, and people one knows. Ingroup trust is used to capture how much trust exists within an organization. Outgroup trust gauges confidence in strangers from various racial and religious backgrounds and strongly emphasizes difference and distance (Delhey and Welzel, 2012).

The WVS includes questions asking respondents to provide information about 'How much do you trust your family, neighbours, people you know, people from another religion, people from another nationality, and people you meet for the first time?' In societies with low levels of generalized trust, people tend to have more transactions with their close friends and relatives. Answers to such questions range from 'trust them completely' to 'do not trust them at all (Figure 1). Figure 1 exhibits WVS items: "How much you trust: your family, your neighbourhood, people you know personally, people you meet for the first time, people of another religion, and people of another nationality." The questions had 4-likert points: '4=trust completely' to '1=do not trust at all'. Figure 1 shows that a sizable portion (84.5%) of all respondents said they had complete trust in their family. Trust toward outgroups, such as those outside one's own identity, includes respect for those of other nationalities, religious backgrounds, and first-time acquaintances. Only 2.8% of respondents said they completely trusted others, compared to 23.7% of first-time meeting respondents. A little under 6% of respondents (6.1% overall) and 36.6% said they completely trusted people of other religions. Only 3.5% and 29.4% of respondents trusted people from different nationalities.





Source: WVS 7th Round, (2017-2022)

2.1 Determinants of Social Capital

Social capital can be shaped by long-term sources, such as values, which can be both cultural and personal, as well as short-term events, such as civil and political events (Van Oorschot et al., 2006; Delhey and Newton, 2005; Halman and Luijkx, 2006; Kaasa and Parts, 2008; Saukani and Ismail, 2019). Historical factors also determine social capital (Krishna and Uphoff, 2002). Values are determinants of social capital because they serve as the foundation for human activities (Portes,1998). The concept of culture captures values dominating society (Kaasa, 2019). Several approaches describe culture through cultural dimensions on which countries or regions score differently. Literature offers numerous sets of cultural dimensions, such as the six cultural dimensions by Geert Hofstede (1980), the Values Theory by Shalom H. Schwarz (1994), the Global Leadership and Organizational Behavior Effectiveness (GLOBE) study (House et al., 2002), and the Cultural Map by Inglehart-Welzel (2002).

This study briefly discusses MENA countries' cultural classification on the World Cultural Map by Inglehart-Welzel (2022). This approach was chosen as the WVS is the primary data source used in this study; the WVS offers nationally representative data whose reliability has been proven. Also, the WVS data shed light on different countries' societal and cultural commonalities regarding societal configuration, cultural values, and individual and national priorities (Tausch, 2016). The Cultural Map of WVS places most MENA countries in a single cultural zone, exhibiting traditional and survival values rather than secular and self-expression values. We are aware of the individual particularities that individual MENA countries have. However, it is beyond the scope of this study to examine individual countries due to our focus on the MENA region.

There are two cultural dimensions: traditional/secular-rational and survival/self-expression. Societies have scores lying in two polar positions on these dimensions. In cultures with high traditional values, people give more importance to religion, family, and God and are proud of their nation. In countries with a secular-rational orientation, people are interested in politics, acceptance of practices such as abortion and suicide, and are driven towards achievement and thrift (Jong, 2009). Survival values emphasize physical and economic security. Individuals have an ethnocentric outlook,

low trust, and weak tolerance. Survival values reflect traditional opinions on issues such as unaccepting outgroups, a woman needing to give birth to children, children needing both parents and an appreciation of technology. Societies with self-expression values care for environmental protection and gender equality. They have tolerance for outgroups, such as foreigners. Citizens enjoy increasing demands for participation in economic and political decision-making (Jong, 2009).

The nine countries examined in this study show traditional and survival values rather than selfexpression and rationality. The sociocultural makeup of MENA countries provides valuable insights into understanding interpersonal trust, which is low in terms of outgroup but high in ingroup trust (see Figure 1). In MENA, some cultural values dominate society, such as the importance of family, which is considered a valuable resource that one can rely on in times of crisis (Cleaver, 2005). Family ties are the foundation of economic and commercial interactions in most MENA countries (Kasmaoui et al., 2018). Also, since MENA countries exhibit survival and traditional values, they prioritize values such as rigid gender roles, national pride, and distrust (Fargher et al., 2008).

Another cultural feature of the MENA region is the high importance of religion and spirituality. The WVS shows that most citizens in MENA place high importance on religion. Interestingly, Norris and Inglehart (2009) state that religiosity is more likely to persist in vulnerable societies, especially when people face personal threats to survival. Given the context of MENA countries, particularly those with social unrest and political conflicts, people depend more on faith to overcome such worsening conditions. Also, religion can be considered part of the culture in MENA, where it functions as a comprehensive guidebook for life.

In addition to the cultural context, some roots of social capital are embodied in individuals' attitudes and values. For example, individual differences in preferences and beliefs, such as their political attitudes, encourage political participation, social participation, and trust in others. Our traditional attitudes that form our political culture shape our trust and values (Almond and Verba, 1963). Similarly, people's civic attitudes can foster positive outcomes such as cooperation, help overcome the dilemmas of collective actions, and improve the quality of political institutions (Putnam et al., 1993). For example, Halman and Luijkx (2006) examined how interpersonal trust was affected by individuals' values. Using factor analysis, they created an individual-level construct called individualism, which measured how people valued being creative and successful and their decisionmaking. It was found that interpersonal trust was negatively affected by individualism. In another study, using individual-level data, Mondéjar-Iiménez et al. (2011) conducted a factor analysis. They created a construct called 'collectivism,' which included questions reflecting individual attitudes toward competition, private ownership, income equality, and wealth accumulation. They found collectivism to positively affect social capital measured by political and social participation and institutional trust. Kaasa (2019) examined how social capital components such as general trust, institutional trust, and civic participation are influenced by personal values such as security, modesty, acceptance of authority, and values of achievement and recognition. Irwin (2009) describes collectivist societies as having closed networks and sanctioning systems to enforce group norms and conformity.

In addition to values, religion is a discrete factor shaping our social capital. Concerning religion, previous research examining the relationship between religion and social capital has been done both at the country level (Delhey and Newton, 2005; Berggren and Bjornskov, 2011) and the individual level, along with incorporating macro-level contextual variables (Van Oorschot and Arts, 2005; Lam, 2006; Van Oorschot et al., 2006). In their study on European countries, Halman and Luijks (2006) found that religiosity positively affects social capital at both the individual and societal levels. Some scholars have examined the impact of religiosity or religious denomination on some social capital dimensions, such as voluntary association participation at the personal level and social trust (Deneulin and Bano, 2009; Lam, 2006; Berggren and Bjornskov, 2011). In one study including major

world religions in 119 countries, Norris and Inglehart (2006) argue that historical heritages in terms of religion have a long-lasting print. Hierarchical religions negatively affect civic participation and professional associations' participation, both components of social capital (La Porta et al., 1997). Protestant churches encourage people to engage in social processes outside the family and church and hold extra-family orientation, and individualism prevails. On the other hand, Catholicism supports vertical bonds and imposes a hierarchical structure on society through the close relationship between the church and the family (Lam, 2006; La Porta et al., 1997).

Moreover, sources of social capital can be level-based (Deneulin and Bano, 2009). At the individual level, numerous socioeconomic and demographic determinants of social capital have been identified in the literature. These include income level (Narayan and Pritchett, 1997), gender (Uslaner, 2002; Putnam et al., 1993), and age (Welch et al., 2007). Others emphasize contextual, institutional, and country-level factors, such as national wealth, income inequality, and the quality of government (Kaasa, 2015; Krishna and Uphoff, 2002).

3. METHOD

We drew our sample from the latest wave of the WVS (2017-2022), which includes only 9 MENA countries: Egypt, Iraq, Tunisia, Turkey, Iran, Morocco, Libya, Lebanon, and Jordan. The WVS data offers repeated cross-sectional rather than panel data, including new respondents in each round. The sample from 9 MENA countries includes a total of 12322 participants. Males comprise 50.2% of the sample, while females comprise 49.9%. About 28.5 % of the respondents are between 16 and 29, 45% are aged 30 to 49, and 26.4% are aged 50 and more. Only 26.1 % of the respondents have high education, 42.8 % have low education, and 31% have medium education.

Dependent Variable

Regarding the dependent variable of social capital, we examine interpersonal trust as the primary proxy. We adopt the "New Item Battery on Trust" by Delhey and Welzel (2012), presented in Table 1. Ingroup trust includes three questions emphasizing "familiarity" with close individuals such as one's family, neighbours, and people one knows personally. In contrast, outgroup trust strongly emphasizes difference and distance through three questions on trust in people from another religion, nationality, or those whom one meets for the first time (Delhey and Welzel, 2012).

Cross-cultural measurement reliability, full configurational invariance, and sufficient metric invariance across countries are proven for this construct (Delhey and Welzel, 2012; Delhey et al., 2011). The original WVS items were ordinal encoded on a 3-point scale. We normalized the items using Min-Max normalization between "0=lowest trust to 1=highest trust', and then averaged over the three items to build ingroup and outgroup trust, respectively. Ingroup trust has a Cronbach Alpha of .588, while outgroup trust has a Cronbach Alpha of .771.

I would like to ask you how much you trust people from various groups. Could you tell me whether you trust people from this group completely, not very much, or not at all?	
Your family, your neighbourhood, people you know personally.	Ingroup-trust
People you meet for the first time, people of other religions, people of another nationality.	Outgroup-trust

Table 1: The New Item Battery on Trust

Source: (Delhey and Welzel, 2014: 54)

Independent Variables

As regards the individual-level determinants of social capital, we first consider socioeconomic factors such as gender, age, education, and subjective social class. As regards gender, it is coded as male=1 and female=0. Ordinal variables that have three levels include education, coded as lower, middle, and higher education. The age of respondents is recorded in 3 categories: 16-29 years, 30-49 years, or 50 and more. WVS includes an item on income deciles, but we do not include it in the analysis due to missing values. We use a WVS item that asks respondents to report their subjective social class, a proxy for their self-position in society. The original WVS item has a 5-point scale (lower class, working class, lower middle class, upper middle class, and high class). We merge the upper and lower middle classes into 'The middle class,' working and lower classes into 'The low class,' and 'The upper class.' Self-defined religiosity is measured by a WVS item that asks respondents to describe their self-religiosity, whether they are atheist, non-religious, or religious. Higher scores reflect higher religiosity (Lam, 2006).

The second group of explanatory variables includes WVS items reflecting personal values. Given the categorical nature of WVS questions having different measurement units, the data have been normalized using the Min-Max Method to a range from "0" to "1". The Min-Max normalization maintains the relations among the values of the original data and enables equal weights and accurate analysis. As a next step, we apply factor analysis to the normalized items through principal component analysis (PCA) as a data reduction method due to the considerable number of questions and the exploratory nature of this study. Factor analysis reduces the amount of data into a manageable number of composite components. It classifies items clustering together and ensures they measure the same concept (Saukani and Ismail, 2019).

Since the data includes missing values, using factor scores will decrease the sample size, as only cases without missing values are used in factor scores. Consequently, we construct indices that capture important values exhibited by citizens in the nine countries examined. Summated scales combine variables that measure the same concept into one variable to improve measurement reliability. Moreover, Cronbach's Alpha is checked as a measure of reliability for each construct.

Table 2 represents the factor loadings and percentages of those factors. The analysis shows that 7 factors are retained as eigenvalues over 1. These seven factors account for 59.712% of the total variance. The Kaiser-Meyer-Olkin (KMO) is found to be 0.750. Bartlett's test of sphericity was significant, showing that X2 is 67264.968 significant at a 1% level.

D. Saleh İzmir İktisat Dergisi / İzmir Journal of Economics Yıl/Year: 2024 Cilt/Vol:39 Sayı/No:2 Doi: 10.24988/ije.1316260

Factor Name (personal value)	WVS Indicators	Loadings
Belongingness Attitudes	Feel close to your district region.	.870
	Feel close to your village, town, or city.	.847
	Feel close to your country.	.770
	Cronbach's Alpha	.823
Democracy Attitudes	Civil rights protect people's liberty against oppression.	.767
	People choose their leaders in free elections.	.721
	People receive state aid for unemployment.	.709
	The state makes people's incomes equal.	.675
	Women have the same rights as men.	.673
	Cronbach's Alpha	.758
Life Control Attitudes	Satisfaction with your life	.803
	Satisfaction with the financial situation	.732
	The feeling of happiness.	.714
	State of health (subjective)	.667
	Freedom of choice and control	.570
	Cronbach's Alpha	.740
Gender Attitudes	Men make better business executives than women do.	.839
	Men make better political leaders than women do.	.798
	Men should have more rights to a job than women.	.680
	University is more important than for a girl.	.662
	Cronbach's Alpha	.741
Attitudes toward the	Feel close to the world.	.888
World	Feel close to your continent.	.826
	Cronbach's Alpha	.816
Economic Attitudes	Competition is good or harmful.	.800
	Government's vs individual's responsibility.	.731
	Success: hard work vs luck.	.678
	Cronbach's Alpha	.588
Attitudes toward	Income equality vs larger income differences.	.747
Authority	Private vs state ownership of business.	.694

Table 2: Results of Factor Analysis of WVS Items as Personal Values

Note: The analysis is based on 12322 observations and a pairwise listing. It uses the Varimax rotation method.

The score for Bartlett's test of sphericity is 67274.968. The Kaiser–Meyer–Olkin measure for sampling adequacy is 0.750.

1. Attitudes toward Democracy: The factor analysis shows a factor capturing attitudes toward democracy (Civil rights protect people's liberty against oppression, people choose their leaders in free elections, people receive state aid for unemployment, the state makes people's

incomes equal, and women have the same rights as men). A summated index was constructed from these normalized items with a .800 Cronbach Alpha.

- 2. Life Control and Indulgence Attitudes: The factor analysis shows one factor that includes WVS items that asked respondents to rate the level of freedom and control respondents believe they have over their lives, their levels of happiness, life satisfaction, and satisfaction with the financial situation. Values such as freedom and happiness are regarded as indulgence values that reflect well-being values, which are hypothesized to affect social capital positively.
- 3. Belongingness Attitudes to the Collective: Three WVS items combine into a single factor that encapsulates a person's sense of belongingness to the place one lives in and the collective society. The index of belonging to a collective is constructed as an additive index of 3 WVS items: "How close you feel: Your village, town, or city' "I see myself as a member of my local community." "I see myself as a citizen of the [country] nation.' The summated scale has a Cronbach Alpha of .846.
- 4. Attitudes Toward the World: One factor describes the degree to which respondents feel part of their collective world and continent. Pinillos-Franco and Kawachi (2018) measured individuals' attachment to their community using two questions on the degree of emotional attachment they felt toward (1) their own country and (2) Europe. Questions ranged from 0=not emotionally attached to 10= very emotionally attached". Similarly, Altinbaşak-Farina and Güleryüz-Türkel (2017) used a similar variable capturing a similar concept of people's unity with nature and their world; they utilized a value dimension called 'peace with the world' that captures the idea of care for the world and unity with nature. A summated index is constructed from the two WVS items asking respondents how they feel close to their continent and the external world. Cronbach's Alpha for the scale is .816. These variables capture a feeling of connectedness to the external world. It measures distinct aspects than belongingness attitudes, which focus more on close groups.
- 5. Gender Attitudes: A factor that measures perceptions on gender-related issues includes four WVS items that reflect respondents' opinions on women's role as political leaders and business leaders and opinions on men's right to access work more than women. Higher values reflect more unfavourable opinions on such WVS questions. The WVS contains questions that reflect attitudes toward gender rights and social roles. Four WVS items demonstrate positive attitudes toward men's superiority over women as business executives and political leaders. The other two questions ask about men's right to have more rights than women and if university education is more important for boys than girls. The scale has a Cronbach Alpha of .741.
- 6. Economic Attitudes: Three WVS questions that capture respondents' attitudes toward economic issues were loaded into one factor. The first question asks respondents whether they believe the government should bear more responsibility for ensuring everyone is provided for, while the second asks whether competition is good or harmful. The third WVS question asked respondents whether they thought success came from hard work or luck. The three-item scale's Cronbach's Alpha value is .588.
- 7. Attitudes toward Authority: A final factor includes WVS items that capture individuals' views on authority intervention in issues such as income inequality and the state's role in business ownership.

Religiosity is measured using four WVS indicators. These items include two questions that capture religious intensity: (a) the frequency of attending religious services and (b) praying. Katz-Gerro and Jaeger (2012) argue that the frequency of attending religious services can strongly measure

religiosity as it reflects actual behavior. The third WVS question asks respondents to define themselves as being a religious person, a non-religious person, or an atheist. Higher scores indicate higher religiosity levels. Finally, we use one question, asking respondents about religion's importance in their lives.

4. ANALYSIS AND RESULTS

Simple linear regression was used to estimate the effects of different determinants on ingroup and outgroup trust. Simple linear regression is used since the dependent variable has a continuous rather than a binary or ordinal scale. It was constructed as a summated index based on factor analysis of normalized data. A similar approach was adopted in previous studies, such as Kaasa (2015) and Kaasa (2013), examining the effects of religiosity and culture on social capital components.

4.1. Ingroup Trust as Dependent Variable

Equation 1 shows linear regression with ingroup trust as the dependent variable. GENDER denotes gender, CLASS stands for social class, AGE refers to the age of respondents, and EDU denotes education level. World attitudes and attitudes of belonging to the collective are shown by WORLD and BELONG, respectively. CONTROL denotes the degree of control over life, and AUTH refers to attitudes toward authority. GNDR shows attitudes toward gender. SELFRELIG denotes self-defined religiosity, PRAYER is the frequency of prayers, RELSERV denotes religious services, and BELIEF denotes the intensity of belief. Based on the discussions above, the model can be constructed as:

 $\beta_{0} + \beta_{1} GENDER_{i} + \beta_{2} CLASS + \beta_{3} EDU_{i} + \beta_{4} AGE_{i} + \beta_{5} BELIEF_{i} + \beta_{6} RELSERV_{i} + \beta_{7} PRAYER_{i} + \beta_{8} SELFRELIG_{i} + \beta_{9} CONTROL_{i} + \beta_{10} BELONG_{i} + \beta_{11} AUTH_{i} + \beta_{12} GNDR_{i} + \beta_{13} WORLD_{i} + \varepsilon_{i}$ (1)

The regression model significantly predicts ingroup trust as a dependent variable (F (13, 10557) =33.77; $p = 000^{\circ}$). Tests for multicollinearity show that VIF values are all below the threshold level of VIF, which is 5. Since the analysis includes individuals clustered in 9 countries, heteroscedasticity problems were detected. As a result, robust standard errors are used in the regression analysis.

Regression results in Table 3 show that ingroup trust is negatively affected by attitudes of belongingness. Keeping other variables constant, one unit increase in belongingness attitudes citizens hold is associated with a decrease of .02 unit in ingroup trust. A more favourable attitude toward society and closeness to one's social environment is associated with lower ingroup trust. Wang et al. (2015) and Everett et al. (2015) found that values of collectivism increase the trust individuals have toward ingroups and encourage actions that benefit these ingroups. World attitudes have a negative association with ingroup trust. A one-unit increase in attitudes citizens hold toward their external world is associated with a decline of .03 in their ingroup trust, keeping all other variables constant. People can become less attached to their ingroups as they integrate into the external world and environment. This interaction with the external world allows individuals exposure to diverse groups, and therefore, it can reduce their ingroup trust.

Gender attitudes are positively associated with ingroup trust. Individuals who hold unfavourable attitudes toward gender roles and rights are more trusting of their family, friends, and people they know personally. An increase of .05 in ingroup trust levels results from a one-unit increase in gender attitudes held by the respondents. A higher level of life control and indulgent attitudes is associated with higher ingroup trust. One unit increase in life-control attitudes, which are based on feelings of happiness by citizens, their levels of life satisfaction, financial satisfaction, and perceived control over life, is associated with an increase of .07 in ingroup trust, keeping all other variables constant. People's trust toward ingroup increases the happier they become and the more control over life they

D. Saleh İzmir İktisat Dergisi / İzmir Journal of Economics Yıl/Year: 2024 Cilt/Vol:39 Sayı/No:2 Doi: 10.24988/ije.1316260

perceive to have; since they reflect higher levels of well-being and fewer constraints in life, individuals can be more trusting. A higher perception of personal self-control means people believe they can improve their lives and pursue their dreams. As a result, their levels of trust are expected to increase.

Variables	Coefficient (<i>B</i>)	Robust Std. Err. (B)	Lower	Upper	
Gender	0058253	.0061043	0177909	.0061403	
Age	.0118947	.0043175	.0034316	.0203578	
Social Class	0163561	.0062577	0286223	0040899	
Education	.0156187*	.0039536	.0078688	.0233686	
Self-religiosity	.0219818*	.0071786	.0079104	.0360531	
Attitudes toward authority	.039237*	.0117147	.0162739	.0622002	
Life control attitudes	.0788991*	.0197321	.0402205	.1175776	
Belongingness attitudes	0205848	.174093	0547104	.0135408	
Attitudes toward the world	0341694*	.0104655	0546839	013655	
Gender attitudes	.0514158*	.0042196	.0431446	.0596869	
Religious Services	0016115	.0015014	0045546	.0013315	
Prayers	.0089302*	.0019912	.005027	.0128334	
Religion Importance	.0387577*	.0060027	.0269912	.0505242	
Constant	.1877984*	.0301123	.1287727	.2468242	
Observations 10,571 F(13,10557) 33.77 Prob > F 0.0000 R-squared 0.0403 Root MSE .31347					

Table 3.	Linear Reg	ression	Results	for Ir	noroun'	Trust
I able 5.	Lineal Reg	16221011	Nesuits	IOI II	igioup	TTUSL

Note: SE (B) denotes the heteroscedasticity-modified robust standard error for coefficient B; t-statistics are expressed, and the asterisk sign (*) denotes significance levels, * p < 0.05.

As Table 3 shows, self-religiosity has a positive effect on ingroup trust. This means the more religious individuals become, the more trust they exhibit in their close groups. MENA countries exhibit traditional cultural values such as the importance of religion and family. Therefore, higher religiosity is expected to be associated with higher trust toward close groups, as both are values that cultures in MENA emphasize and encourage. A similar conclusion was made by Wijaya (2019), who discovered a positive correlation between religiosity and ingroup trust. The importance of religion is positively related to ingroup trust. A one-unit increase in religion's importance is associated with an increase of .038 in ingroup trust. Sulemana and Issufu (2015) found similar results of a positive

relationship between the degree of importance people place on religion and their trust in their neighbours, relatives, and people they know.

Additionally, the frequency of prayers was positively associated with ingroup trust. A one-unit increase in the frequency of prayers is associated with an increase of .008 in ingroup trust. On the other hand, a negative relationship exists between attending religious services and ingroup trust, as shown by a decrease of .006 in ingroup trust for one unit increase in the frequency of attending religious services.

4.2 Outgroup Trust as Dependent Variable

Equation 2 shows linear regression with outgroup trust as the dependent variable. Gender is denoted by GENDER; CLASS stands for social class; AGE refers to the age of respondents; and EDU denotes education level. World attitudes and attitudes of belonging to the collective are shown by WORLD and BELONG, respectively. CONTROL denotes the degree of control over life, and AUTH stands for attitudes toward authority. GNDR shows attitudes toward gender. SELFRELIG denotes self-defined religiosity, PRAYER is the frequency of prayers, RELSERV denotes religious services, and BELIEF denotes the intensity of belief.

 $\begin{aligned} Outgrouptr_{i} &= \beta_{0} + \beta_{1}SEX_{i} + \beta_{2}CLASS + \beta_{3}EDU_{i} + \beta_{4}AGE_{i} + \beta_{5}BELIEF_{i} + \beta_{6}RELSERV_{i} + \\ \beta_{7}PRAYER_{i} + \beta_{8}SELFRELIG_{i} + \beta_{9}CONTROL_{i} + \beta_{10}BELONG_{i} + \beta_{11}AUTH_{i} + \beta_{12}GENDR_{i} + \\ \beta_{13}WORLD_{i} + \varepsilon_{i} \end{aligned}$ (2)

Table 4 shows that the model, including personal values and religiosity, had a statistically significant effect on outgroup trust (F (13,10211= (34.80); p =.000*). Tests for multicollinearity show that VIF values are all below the threshold level (VIF < 5). We report robust standard errors to correct the problem of heteroscedasticity. The low coefficient of determination indicates the models' lack of explanatory power for variance. However, in the social sciences, it is expected that studies including individual-level data analysis will have low values of R^2 (Langbein and Felbinger, 2006; Kaasa, 2013).

Regression results in Table 4 show that outgroup trust is positively associated with favourable attitudes toward one's external world. Keeping other variables constant, a one-unit increase in world attitudes is associated with an increase of .15 in outgroup trust held by citizens in MENA. However, belonging to the collective is associated negatively with outgroup trust, as shown by a decline of .14 associated with one unit increase in belongingness attitudes to the collective, keeping other variables constant. Collectivism attitudes have a negative association with outgroup trust. This can be attributed to the nature of items included in the 'belongingness' index. People who feel more engaged in their close world can be more reluctant to engage with the external social environment. Delhey and Welzel (2012) found that the value system of individualism favours people's freedom from ingroup control, making it conducive to outgroup trust. Fukuyama (2002) had a similar argument that the value system of collectivism favours people's integration into close groups, making it detrimental to outgroup trust (Fukuyama, 2002). Irwin (2009) emphasized that collectivist societies establish fixed boundaries between the ingroup and the outgroup to regulate social interactions. As a result, equality-based norms and mutually helpful interactions help to maintain ingroup harmony.

Interestingly, gender attitudes have a negative association with outgroup trust. People with unfavourable social attitudes toward gender roles, such as women's success as good business executives or business leaders and university education, show less trust toward outside groups. A one-unit increase in gender attitudes is associated with a decrease of .002 in outgroup trust. This is expected since the MENA region is known as a conservative region, which prioritizes traditional cultural values such as rigid gender roles and the importance of family.

D. Saleh İzmir İktisat Dergisi / İzmir Journal of Economics Yıl/Year: 2024 Cilt/Vol:39 Sayı/No:2 Doi: 10.24988/ije.1316260

Variables	Coefficient (B)	Robust Std. Err. (B)	Lower	Upper
Gender	.03063*	.0045687	.0216745	.0395855
Age	.0014346	.0032244	0048858	.007755
Social Class	0010519	.0045787	0100271	.0079233
Education	0063373	.0029668	0121528	0005219
Self-religiosity	.012351	.0052138	.002131	.022571
Attitudes toward authority	0394694*	.0091342	0573742	0215645
Life control attitudes	.014811	.0148619	0143212	.0439432
Belongingness attitudes	1418382*	.0134884	1682782	1153982
Attitudes toward the world	.152557*	.0079281	.1370164	.1680977
Gender attitudes	.0020235	.0030558	0039664	.0080135
Religious services	.0004965	.0010878	0016358	.0026289
Prayer	0007769	.0014925	0037024	.0021486
Religion Importance	0054849	.0045757	0144542	.0034845
Constant	.390651*	.0232896	.3449988	.4363031
Observations 10,225 F(13,10211) 34.80 Prob > F 0.0000 R-squared 0.0422 Root MSE .2306	<u>.</u>	<u>.</u>	<u>.</u>	·

Table 4: L	inear Re	gression	Results	for	Outgroun	Trust
	mear ne	gression	nesuits	101	Outgroup	TTUSE

Note: SE (B) denotes the heteroscedasticity-modified robust standard error for coefficient B; t-statistics are expressed, and the asterisk sign (*) denotes significance levels, * p < 0.05.

Regarding religiosity indicators, the results in Table 4 indicate that outgroup trust is negatively affected by all religiosity variables, except for attending religious services, which positively affects outgroup trust. According to Kaasa (2015), attending religious services is a form of networking and formal participation. Put differently, people can widen their social networks to outgroups when participating in religious services, which explains the positive relationship with outgroup trust. Moving to the frequency of prayers and the importance of religion, both reflect a more conservative attitude of highly religious individuals who might disfavour social interactions with others from different religions or countries. Such scepticism toward outgroups can result from believing that one's religion is the most important or superior. This, in turn, results in less trust in people who do not belong to the same religion or the same nationality. Previous research found mixed results on the relationship between religiosity and outgroup trust. For example, Delhey and Welzel (2012) argued that Protestantism benefits outgroup trust: Confucianism, Islam, and communism. Likewise, Putnam et al. (1993) argued that hierarchical religions like Catholicism were detrimental to society

and outgroup trust. Trust is created by religion through ingroup networks. Religious diversity might adversely affect social integration and social capital formation (Delhey and Newton, 2005).

Moving to sociodemographic variables, the results show no significant difference in ingroup trust between men and women, while they differ in outgroup trust. Only gender significantly affects outgroup trust, which reflects that men and women differ in the levels of trust they show toward outgroups. Of course, considering the social and cultural makeup of MENA societies, it would be reasonable to expect men to have higher social interactions due to their access to the job market and their relative freedom compared to women. A point worth mentioning is that gender egalitarianism is low to moderate in most MENA countries, unlike societies high in gender egalitarianism, in which gender roles in homes, organizations, and society are minimized; women can easily access authority positions, enjoy higher status, and have equal access to education as boys (Tuleja and Schachner, 2020). In a similar argument, Norris and Inglehart (2006) argue that men rely more on social connections through employment and association involvement, while women mostly rely on social connections within the family in countries with traditional values. Similarly, Van Emmerik (2006) found that men were more likely to rely more on non-family social connections, for example, to achieve career goals or improve their socioeconomic position in society. However, Putnam (2000) and Uslaner (2002) found that women are more trusting toward others than men.

Results show that age is positively related to both ingroup and outgroup interpersonal trust. Previous studies show mixed results on the effects of age on trust. Welch et al. (2007) found that older people tend to be more trusting than younger people. However, An and Phuong (2021) found that older individuals are less trusting than younger individuals. Older people might be more trusting due to their social interactions over the years and past life experiences, unlike younger people, who might not have the same level of social experience.

Subjective social class is negatively related to both components of interpersonal trust. The results imply that people tend to show less interpersonal trust the higher their subjective social class is. It is worth mentioning that subjective social class differs from income, but it reflects how respondents view their social position. As a result, scholars should be careful when dealing with this WVS item. A point worth mentioning here is that social capital can be an asset that the poor can use to face vulnerability due to their lack of material sources, unlike the rich, who have political influence and networks. This argument implies that people experiencing poverty need to increase their social interaction with others to expand their networks and access resources that might not be provided by their ingroups, such as family and friends (Woolcock and Narayan, 2000).

Education is negatively related to outgroup trust. On the other hand, it has a significant positive effect on ingroup trust. However, Hooghe et al. (2006) found highly educated individuals to be more trusting of others. In this article, we adopt Spiering's (2019) argument that education enhances a critical mindset and feeds into a need for freedom and self-expression. As a result, highly educated individuals become better equipped to criticize their surroundings, including the regimes, particularly paternalistic regimes. In MENA countries, people with high education become more sceptical of outgroups to avoid risk or protect their social position. However, this is a complex relationship that needs further examination.

5. CONCLUSION

The findings of this exploratory study allow us to shed light on factors affecting social capital in 9 MENA countries. The article's main objective was to help us understand how the interpersonal trust of citizens in MENA countries differs, based on whether it is their trust in social groups, whether these groups include similar people such as their family and close friends, or outgroups such as those of other religions or countries. Although social capital can be affected by values at the cultural and individual levels, we confine our research to individual-level determinants and how they affect

ingroup and outgroup trust. As a novelty, we include personal values and religiosity-related variables in the linear regression analysis for both interpersonal trust components, representing one proxy of social capital. The individual-level data from the World Values Survey Round 7 (2017-2022) of 12322 respondents from 9 MENA countries was used in the study.

The results show that religiosity is indeed essential in determining interpersonal trust. However, the direction and strength of the effect of religiosity indicators differ across interpersonal trust components. Our results imply that outgroup trust increases with a higher level of religiosity and frequent attendance at religious services. On the contrary, the regular attendance at prayers and the higher importance people place on religion are associated with less outgroup trust. These findings reflect the complexity of religiosity as a factor shaping social capital in a region where most citizens emphasize religion's importance. Why should people who pray more and believe their religion is essential to become less trusting in outgroups, although most religious teachings encourage altruistic and social behaviors? When people engage in prayers or focus solely on their religion, they may develop the idea that only their religion is right and superior to other religions or even that they are superior to individuals from another religious background or other outgroups. We can relate to this argument when we see the opposite effect of religiosity, and the importance of religion but decreases with frequent attendance of religious services. More social interactions are possible when people start attendance religious services, which should increase outgroup trust.

Another finding worth discussing is the positive relationship between gender attitudes and both ingroup and outgroup interpersonal trust. Our results show that interpersonal trust increases when individuals hold favorable attitudes toward equal gender roles and education for boys and girls. These results imply that fundamental values such as female participation in the labor force, access to political and business positions, or educating both genders are crucial in shaping how people trust ingroups and outgroups. Therefore, it would be recommended for education programs to incorporate and encourage values of gender equality and equal rights to enhance interpersonal trust.

We acknowledge several limitations concerning this study, which can also represent directions for future research. First, due to data limitations, only data on 9 MENA countries was used. Consequently, conclusions should not be generalized to other countries but drawn only for those analyzed. It should be noted that there are no previous empirical results on MENA to compare. It is recommended that similar analyses be performed when more data becomes available. Secondly, this study includes possible individual-level determinants of social capital, as measured by interpersonal trust. Some other variables might be used when more data is available, such as cultural values and contextual variables such as political freedom, governance quality, labor force participation, and regime type. Other components of social capital can be examined, such as civic participation and organization membership. Finally, despite its limitations, this exploratory study attempts to understand how different determinants shape social capital in the MENA region and provides guidelines for future research.

REFERENCES

- Achilov, D. (2013). Social Capital, Islam, and the Arab Spring in the Middle East. Journal of Civil Society, 9 (3), 268–286.
- Almond, G. A., and Verba, S. (1963). The Civic Culture: Political Attitudes and Democracy in Five Nations. Princeton University Press. <u>http://www.jstor.org/stable/j.ctt183pnr2</u>
- Almutairi, S., Heller, M., and Yen, D. (2021). Reclaiming the Heterogeneity of the Arab States. Cross-Cultural and Strategic Management, 28(1), 158-176.
- An, N. H., and Phuong, L. D, M. (2021). Social Capital in Vietnam: An Analysis of Social Networks and Social Trust. Journal of Mekong Societies, 17(2), 1–27.
- Arrow, K. J. (1972). Gifts and Exchanges. Philosophy and Public Affairs, 1 (4), 343–362.
- Berggren, N., and Bjørnskov, C. (2011). Is the Importance of Religion in Daily Life Related to Social Trust? Cross-Country and Cross-state Comparisons. Journal of Economic Behavior and Organization, 80(3), 459-480. <u>https://doi.org/10.1016/j.jebo.2011.05.002</u>
- Ceyhun, H.E. (2019). Social Capital in the Middle East and North Africa. Arab Barometer. Available at: <u>https://www.arabbarometer.org/wp-content/uploads/social-capital-public-opinion-</u> <u>2019.pdf</u>
- Cherkaoui, M. (2019). Social Capital between State and Society in Morocco: An Outside-in Reflection. Al Jazeera Centre for Studies, 1-15. Available at: <u>https://studies.aljazeera.net/sites/default/files/articles/reports/documents/7f3f7dec98de4</u> <u>b36897612b240607b9c 100.pdf</u>
- Christoforou, A. (2010). Social Capital and Human Development: An Empirical Investigation Across European Countries. Journal of Institutional Economics, 6 (2), 191-214. Doi:10.1017/S1744137409990324
- Cleaver, F. (2005). The Inequality of Social Capital and the Reproduction of Chronic Poverty. World Development, 33(6), 893–906. <u>https://doi.org/10.1016/j.worlddev.2004.09.015</u>
- Delhey, J., and Welzel, C. (2012). Generalizing Trust: How Outgroup-Trust Grows Beyond Ingroup-Trust. World Values Research, WVR, 5(3). <u>http://dx.doi.org/10.2139/ssrn.2390636</u>
- Delhey, J., Newton, K., and Welzel, C (2011). How General Is Trust in Most People? Solving the Radius of Trust Problem. American Sociological Review, 76(5), 786-807. DOI 10.1177/0003122411420817
- Delhey, J., and Newton, K. (2005). Predicting Cross-National Levels of Social Trust: Global Pattern or Nordic Exceptionalism? European Sociological Review, 21, 311–327.
- Deneulin, S., and Bano, M. (2009). Religion in Development: Rewriting the Secular Script. London: Zed Books.
- Everett, J.A.C., Faber, N.S. and Crockett, M. (2015). Preferences and Beliefs in Ingroup Favoritism. Frontiers in Behavioral Neuroscience, 9, Doi: 10.3389/fnbeh.2015.00015
- Fargher, S., Kesting, S., Lange, T., and Pacheco, G. (2008). Cultural Heritage and Job Satisfaction in Eastern and Western Europe. International Journal of Manpower, 29(7), 630-650.
- Fukuyama, F. (2002). Social Capital and Development: The Coming Agenda. SAIS Review (1989-2003), 22(1), 23-37. <u>https://www.jstor.org/stable/26996384</u>
- Fukuyama, F. (1995). Trust: The Social Virtues and The Creation of Prosperity. Free Press, New York.

- Grootaert, C., and T. E. Van Bastelaer. (2002). The Role of Social Capital in Development: An Empirical Assessment. Cambridge University Press. <u>https://doi.org/10.1017/CB09780511492600</u>
- Haerpfer, C., Inglehart, R., Moreno, A., Welzel, C., Kizilova, K., Diez-Medrano J., M. Lagos, P. Norris, E. Ponarin and B. Puranen (eds.). 2022. World Values Survey: Round Seven - Country-Pooled Datafile Version 5.0. Madrid, Spain and Vienna, Austria: JD Systems Institute and WVSA Secretariat. Doi:10.14281/18241.20
- Halman L., and Luijkx R. (2006). Social Capital in Contemporary Europe: Evidence from the European Social Survey. Portuguese Journal of Social Science, 5(1), 65-90.
- Hanifan, J. L. (1916). The Rural School Community Center. Annals of the American Academy of Political and Social Science, 67: 130-138.
- Hofstede, G. (1980). Culture's Consequences: International Differences in Work-Related Values. Beverly Hills, CA: Sage Publications.
- Hooghe, M., Reeskens, T., Stolle, D., and Trappers, A. (2006). Ethnic Diversity and Generalized Trust in Europe: A Cross-National Multilevel Study. Comparative Political Studies, 42(2), 1-29.
- House, R., Javidan, M., Hanges, P., and Dorfman, P. (2002). Understanding Cultures and Implicit Leadership Theories Across the Globe: An Introduction to Project GLOBE. Journal of World Business, 37(1), 3-10.
- Islam, M.S., and Alam, K. (2018). Does Social Capital Reduce Poverty? A Cross-Sectional Study of Rural Household in Bangladesh. International Journal of Social Economics, 45 (11), 1515-1532. DOI 10.1108/IJSE-07-2017-0295
- Irwin, K. (2009). Prosocial Behavior Across Cultures: The Effects of Institutional Versus Generalized Trust. Advances in Group Processes, 26, 165-198.
- Jong, E. De (2009). Culture and Economics: On Values, Economics, and International Business. Routledge.
- Kaasa, A. (2019). Determinants of Individual-Level Social Capital: Culture and Personal Values. Journal of International Studies, 12(1), 9–32. Doi:10.14254/2071-8330.2019/12-1/1
- Kaasa, A. (2015). Culture, Religion, And Social Capital: Evidence from European Regions. International Journal of Sociology and Social Policy, 35(11–12), 772-794.
- Kaasa, A. (2013). Religion and Social Capital: Evidence from European Countries. International Review of Sociology, 23(3), 578–596. <u>https://doi.org/10.1080/03906701.2013.856162</u>
- Kaasa, A., and Parts, E. (2008). Individual Level Determinants of Social Capital in Europe: Differences Between Country Groups. Acta Sociologica, 51(2), 145-168.
- Kasmaoui, K., Mughal, M., and Bouoiyours, J. (2018). Does Trust Influence Economic Growth? Evidence from the Arab World. Economics Bulletin, 38(2), 880-891.
- Kasmaoui, K., and Errami, Y. (2017). Social Cohesion, Institutions, and Public Policies: New Evidence from the MENA Region (September Issue). <u>https://doi.org/10.13140/RG.2.2.33760.99847</u>
- Katz-Gerro, T., and Jaeger, M. M. (2012). Religion, Religiosity, and Cultural Stratification: Theoretical Links and Empirical Evidence. Research in the Sociology of Work, 23, 337-366.
- Knack, S., and P. Keefer. (1997). Does Social Capital Have an Economic Payoff? A Cross-Country Investigation. The Quarterly Journal of Economics, 112(4), 1251-1288.
- Krishna, A., and Uphoff, N. (2002). Mapping and Measuring Social Capital Through Assessment of Collective Action to Conserve and Develop Watershed in Rajasthan India. In Grootaert, C.,

Bastelaer, T (Eds), The Role of Social Capital in Development: An Empirical Assessment, pp. 85-124. Cambridge University Press.

- Krishna, A., and Shrader, E. (1999). Social Capital Assessment Tool. Conference on Social Capital and Poverty Reduction. Washington, D.C. The World Bank, 1-21.
- Lam, P.Y. (2006). Religion and Civic Culture: A Cross-National Study of Voluntary Association Membership. Journal for the Scientific Study of Religion, 45(2), 177.
- Langbein, L.I. and Felbinger, C.L. (2006). Public Program Evaluation: A Statistical Guide. New York: M.E. Sharpe.
- La Porta, R., Lopez-De-Silanes, F., Schleifer, A., and Vishny R.W. (1997). Trust in Large Organizations. The American Economic Review. Papers and Proceedings of the Hundred and Fourth Annual Meeting of the American Economic Association, 87(2), 333-338.
- McCauley, J.F. and Gyimah-Boadi, E. (2009). Religious Faith and Democracy. Evidence from the Afrobarometer Surveys. Afrobarometer Working Papers No. 113, Afrobarometer.
- Mondéjar-Jiménez, J., Mesegaer-santamaria, L., and Vargas-vargas, M. (2011). An Empirical Assessment of Individual-Level Determinants of Social Capital in Central European Countries. Journal of East European Management Studies, 16 (3), 237-250.
- Narayan, D., and Pritchett, L. (1997). Cents and Sociability: Household Income and Social Capital in Rural Tanzania. Economic Development and Cultural Change, 47(4), 871–897.
- Narayan, D. (1999). Bonds and Bridges: Social Capital and Poverty. Policy Research Working Paper. No 2167. Poverty Reduction and Economic Management Network. World Bank Group.
- Norris, P., and Inglehart, R. (2009). Cosmopolitan Communications. Cultural Diversity in a Globalized World. Cambridge University Press.
- Norris, P., and Inglehart, R. (2006). Gender and Social Capital. In: Neill, B., and Gidengil, E. (Eds.), Gender and Social Capital. Routledge, New York, 73–98.
- Portes, A. (1998). Social Capital: Its Origins and Applications in Modern Sociology. Annual Review of Sociology, vol (24), pp.1–24. <u>http://www.jstor.org/stable/223472</u>
- Putnam, R. D. (2000). Bowling Alone: The Collapse and Revival of American Community. New York: Simon and Schuster.
- Putnam, R. D., Leonardi, R., and Nonetti, R.Y. (1993). Making Democracy Work: Civic Traditions in Modern Italy. Princeton: Princeton University Press. ISBN 0-691-07889-0
- Saukani, N., and Ismail, N. A. (2019). Identifying the Components of Social Capital by Categorical Principal Component Analysis (CATPCA). Social Indicators Research, 141(2), 631-655.
- Schwartz, S.H. (1994). Beyond individualism/collectivism: New Cultural Dimensions of Values. In Kim, U., Triandis, H.C., Kagitçibasi, Ç., Choi, S.C., and Yoon, G. (Eds). Individualism and Collectivism: Theory, Method, and Applications. Thousand Oaks, CA: Sage, 85-119.
- Spierings, N. (2019). The Multidimensional Impact of Islamic Religiosity on Ethno-Religious Social Tolerance in The Middle East and North Africa. Social Forces, 97, 1693–1730.
- Sulemana, I., and Issifu, I. (2015). An Empirical Examination of the Determinants of Trust in Ghana. International Journal of Social Economics. Emerald Group Holdings Ltd. https://doi.org/10.1108/IJSE-03-2014-0060
- Tausch, A. (2016). The Civic Culture of The Arab World: A Comparative Analysis Based on World Values Survey Data. Middle East Review of International Affairs, 20 (1), 35-59.

- Tuleja, E. A., and Schachner, M. (2020). From Shared Values to Cultural Dimensions. In The Cambridge Handbook of Intercultural Communication, (pp. 96–119). Cambridge University Press.
- Uslaner, E. M. (2002). The Moral Foundations of Trust. Cambridge, UK: Cambridge University.
- Van Emmerik, I.H. (2006). Gender Differences in the Creation of Different Types of Social Capital: A Multilevel Study. Social Networks, 28(1), 24-37.
- Van Oorschot, W., Arts, W., and Gelissen, J. (2006). Social Capital in Europe: Measurement and Social and Regional Distribution of a Multifaceted Phenomenon. Acta Sociologica, 49 (2), 149-167. http://www.jstor.org/stable/20459923
- Van Oorschot, W., and Arts, W. (2005). Social Capital of European Welfare States: The Crowding out Hypothesis Revisited. Journal of European Social Policy, 15 (1), 5-26.
- Wang, C., Wu, B., Liu, Y., Wu, X. and Han, S. (2015). Challenging Emotional Prejudice by Changing Selfconcept: Priming Independent Self-Construal Reduces Racial Ingroup Bias in Neural Responses to Other's Pain. Social Cognitive and Affective Neuroscience, 10 (9), 1195-1201.
- Welch, M.R., Sikkink, D., and Loveland, M.T. (2007). The Radius of Trust: Religion, Social Embeddedness and Trust in Strangers. Social Forces, 86, 23-46.
- Wijaya, I. F. (2019). The Impact of Religiosity on Self-employment. Journal of Enterprising Communities, 13(3), pp.218–241. <u>https://doi.org/10.1108/JEC-09-2018-0066</u>
- Woolcock, M., and Narayan, D. (2000). Social Capital: Implications for Development Theory, Research, and Policy. 15(2), World Bank Research Observer, 225-249.
- Yamagishi, T., and Yamagishi, M. (1994). Trust and Commitment in the United States and Japan. Motivation and Emotion, 18(2), 129-166.



© Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY NC) license. (https://creativecommons.org/licenses/by-nc/4.0/).