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Civilization, Education and Population Age Specific:

A Comparison between Islamic and Non Islamic Countries

Sari Lestari Zainal Ridho

Business Administration Departement, Politeknik Negeri Sriwijaya

[sarilestari@polsri.ac.id](mailto:sarilestari@polsri.ac.id)

Abdur Razzaq

Fakultas Dakwah dan Komunikasi, UIN Raden Fatah Palembang

abdurrazaq@radenfatah.ac.id

Dina Mellita

dinamellita@binadarma.ac.id

Bina Darma University

**Abstract**

Civilization can be measured by three measurement, economic system, political systems and cultural systems, therefore this research was focused on the economic system and the influenced factors including education, population and try to compare two population specific age groups, with consideration that each age groups have different influence, and also try to compare countries with Muslim majority population and non-Muslims ones, based on the thought that Islam as a civilization has inspired the development of other civilizations. This research was conducted using 110 countries in 2013 data, were obtained from the World Bank, and processed by Multiple Linear Regression analysis techniques with STATA. The results of this study indicate that: (1) at the significance level of 5 percent, population growth, education, and life expectancy effect on the economy positively, as well as the population ages 65 years and above, this phenomenon supported the fact that life expectancy positively affected the economy, it shows that longer population life cycle period of time contribute positively to the economy, (2) the population ages 15-64 years had no effect on the economy at significance level of 5 percent, but has effect on the 10 percent level of significance, (3) there was also a difference in term of the effect magnitude, whereas the population group ages 65 and above have a greater effect on the economy than the population group ages 15-64 years old, and (4) there was no difference in GDP per Capita of OIC and non-OIC countries member.

*Keywords: Civilization, Education, Population Age Specific*

**Introduction**

The civilization can be defined as human social development, or as a process which the community in an area accomplish better stages in social development, or as a community, culture and lifestyles of a region. Based on those concepts, that is why civilization is one of the important topics to be discussed.

One of the subtopics often discussed in the study was the contradiction between the Western and Islamic civilizations. Thus, it became a trigger for conducting studies in this research, which reviewed civilizations as an economic system involving non physical capitals variables in the development and referred to the demographic theories approach. One of the biggest differences in the two civilization groups was the economic system held, particularly the financial system, where many of the OIC Member run an Islamic financial system, even some Members such as Iran and Sudan, claim that a financial system run has been Islamic completely (SESRIC, 2012)

On the other hand, the human capital variables as one of the non physical capitals is still facing great challenges in Islamic majority countries in the Organization of Islamic Cooperation (OIC), though some of these countries have attempted to do a continuous progress in human development, starting from improving the education quality in order to revise and improve the standard of living (SESRIC, 2013)

Based on some phenomena above, therefore, the objective of this research was to analyze the variables of civilization, education, and population groups with specific age structure, as well as several other variables, through a comparison approach between the Islamic majority countries and the non Islam majority countries.

**The Civilization Theory**

Thought that civilization as a process which society in an area accomplish better stages in social development, is an interpretation in line with the opinion of Fukuzawa in 2009 (quoted from Celarent, 2014) stated that the social development experience three stages, namely the "primitive", "semi civilized", and "civilized".

Civilization grows because they have expansion media, such as the powerful military, or religious, political and economic organizations accumulated surplus and invest in the constructive production (Lin, 2010). Civilization can be measured through a variety of indicators, including the economic, politics and culture systems. Vanhanen (2007), has investigated by testing hypothesis using three different indicators in measuring civilization, namely: per capita income, the level of democratization level and the level of human development. Based on the research results, civilization inequalities in human conditions are inevitability in the cultural differences between the civilizations.

**Economy and The Affecting Factors**

The economic system or economy of a country, as one of the measuring instruments of civilization, plays an important role in the advancement of the nation, where one indicator often used is the national production which the development can be seen through GDP per-capita (Silipo, 2009; Golley and Tyers, 2012) and it is influenced by many factors.

Based on the demographic theories approach, the growth of economic increase is affected by the demographic transition, working population (in general) and women working population (in particular), human capital and savings. Reducing birth rates, changes in the productive age structure will affect the national production (Bloom and Williamson, 1998).

The national production is not only influenced by physical capital but also human capital (Mankiw, et al., 1992; Erk and Ates, 1999), so that another important factor affecting the national production is education (Tallman and Wang, 1992) as measured by participation of secondary school rate, and life expectancy (Hassan and Ahmed, 2011).

Other things that affect national production are the level of savings (Lindh, 1999) that will create a conducive environment, the interest rate (Hassan and Ahmed, 20011), government spending (Azwardi, 2007) especially for the welfare of society (Bloom and Wiliamson, 1998), as measured by expenditures (budgetary) for education and health.

**Methodology**

This research was conducted to test the civilization variables that are focused on the economic system and the affecting factors including education, population. The researcher tried to compare the specific measurement of the two age groups with considerations of these age groups which have different influences, as well as Islamic majority population countries (represented by the Members of the Organization of Islamic Countries) and not Islam, Islam was considered as civilization inspiring the development of other civilizations.

The research was carried out using data in 2013 from 110 countries obtained from the World Bank, processed by Multiple Linear Regression analysis technique with STATA. The difference of this study compared to the previous studies is besides trying to compare the specific measurement of the two age groups, the researcher also conducted comparative studies through the use of variables that distinguish between the member countries and non member countries of OIC, with the consideration of the previous research results showing that cultural differences influenced the civilization inequalities.

Other variables used in this research were per capita income (the dependent variable), population growth, SGER (Gross Enrollment Ratio, Secondary School), Life Expectation, and Gross Saving. The relationship between variables formulating model in this study was developed based on the hypothesis based on the theory review and previous research, as described before.

**Results and Discussions**

Table 1. Testing *F* result for coefficient significance of *Regression Model*.

|  |  |
| --- | --- |
| **Statistik F** | 72,47 |
| **P-value** | 0,0000\* |
| **Root MSE** | 0,67152 |

\*Significance for significance level (*α*) was 5%.

From the output, the result of a test statistic F (see: **F (6, 100))** was 72.47 and P-value (see: Prob > F) was 0.0000 so it can be concluded that there was a concurrent influences of **PopulationGrowth, SGER, LifeExpectation, OIC, GrossSaving,** and **Population2** toward **lnGDPperCapita**. (because P-value < 0.05). To measure the **Goodness-of-fit**, the researcher used the measurement of the **Root Mean Square Error (RMSE)** which the model had good value if the measurement of RMSE had small score. From the results of the output F test, RMSE measurement (or **Root MSE**) was 0.67152 (small) so that the regression model formed was good.

1. Hypothesis to test the regression coefficient individual with T test.

H0: There was no partial/individual influence of **PopulationGrowth**, **SGER, LifeExpectation, OIC, GrossSaving,** and **Population2** toward **lnGDPperCapita**.

H1: There was a partial/individual influence of **PopulationGrowth**, **SGER, LifeExpectation, OIC, GrossSaving,** and **Population2** toward **lnGDPperCapita**.

This test was conducted to find out whether there was a significant influence of each predictor variable toward response variable. The testing showed the significant influence when the P-value (see: p. > | t |) ≤ α where α was equal to 5%.

From the output table result (Table 2), this test gave the conclusions that:

1. The P-value for the **PopulationGrowth** variable was 0.013 (P-value < 0.05) so it could be concluded that there was a significant influence of **PopulationGrowth** variable toward **lnGDPperCapita** variable 0.1773497 (positive influence) meaning that if there was an increase in 1 unit of **PopulationGrowth** variable then **GDPperCapita** variable would have multiplication of exp (0,1773497) = 1.1940486; Vice versa if there was a decrease of 1 unit of **PopulationGrowth** variable then the **GDPperCapita** variable would have division of exp (0,1773497) = 1.1940486.

2. The P-value for the **SGER** variable was 0.013 (P-value < 0.05) so it could be concluded that there was a significant influence of **SGER** variable toward **lnGDPperCapita** variable 0,0246915 (positive influence) meaning that if there was an increase in 1 unit of **SGER** variable then **GDPperCapita** variable would have multiplication of exp (0,0246915) = 1,0249989; vice versa if there was a decrease of 1 unit of **SGER** variable then the **GDPperCapita** variable would have division of exp (0,0246915) = 1,0249989.

3. The P-value for the **LifeExpectation** variable was 0.000 (P-value < 0.05) so it could be concluded that there was a significant influence of **LifeExpectation** variable toward **lnGDPperCapita** variable 0,0828845 (positive influence) meaning that if there was an increase in 1 unit of **LifeExpectation** variable then **GDPperCapita** variable would have multiplication of exp (0,0828845) = 1,0864163; vice versa if there was a decrease of 1 unit of **LifeExpectation** variable then the **GDPperCapita** variable would have division of exp . (0,0246915) = 1,0249989.

4. The P-value for the **OIC** variable was 0.128 (P-value < 0.05) so it could be concluded that there was no a significant influence of **OIC** variable toward **lnGDPperCapita** variable meaning that there was no difference of **GDPperCapita** variable to respondents OIC and non OIC.

5. The P-value for each **GrossSaving** and **Population2** variables P-value < 0.05 so it could be concluded that there was no a significant influence of **GrossSaving** and **Population2** variables partially/individually toward **lnGDPperCapita** variable meaning that if there was an increase/decrease of 1 unit of each **GrossSaving** and **Population2** variables then the **GDPperCapita** variable would not be affected.

Table 2: Testing *t* result for coefficient significance of *Regression Model*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent variables** | **Coefficient** | **Standard Error** | **T-Statistic** | **P-value** |
| **PopulationGrowth** | 0,1773497 | 0,0702223 | 2,53 | 0,013\*\* |
| **SGER** | 0,0246915 | 0,0045172 | 5,47 | 0,000\*\* |
| **LifeExpectation** | 0,0828845 | 0,0149951 | 5,53 | 0,000\*\* |
| **OIC** | -0,2758971 | 0,179711 | -1,54 | 0,128 |
| **GrossSaving** | -0,0014611 | 0,0032908 | -0,44 | 0,658 |
| **Population2** | 0,0283371 | 0,0154804 | 1,83 | 0,070\* |
| **Constanta** | -1,36015 | 0,9843065 | -1,38 | 0,170 |

\*\*Significance for significance level (*α*) was 5%.

\*Significance for significance level (*α*) was 10%.

The regression model involving all variables was formulated as:

**lnGDPperCapita = -1,36015 + 0,1773497PopulationGrowth + 0,0246915SGER**

**+ 0,0828845 LifeExpectation – 0,275897OIC**

**– 0,0014611 GrossSaving + 0,0283371 Population2 + *e***

To measure the **Goodness-of-fit,** the researcher used the measurement of the **Coefficient of Determination (R-squared)** which the more MSE approach 1 or 100% the better model was formed. From the output result, a measurement of R-squared was 0.8130 meaning that the diversity of the **lnGDPperCapita** variable could be explained by **PopulationGrowth, SGER, LifeExpectation, OIC, GrossSaving,** and **Population2** simultaneously were 81.30% and 18.70% the rest was explained by error (e) or other variables not included into the regression model. In other words, the regression models formed had the goodness model 81,30%.

Table 3. Testing *F result* for coefficient significance of *Regression Model*.

|  |  |
| --- | --- |
| **Statistik F** | 78,84 |
| **P-value** | 0,0000\* |
| **Root MSE** | 0,64872 |

**\*Significance for significance level (*α*) was 5%.**

From the output, the result of F test statistic value (see: F (6, 100)) was 72.47 and P-value (see: Prob > F) was 0.0000 so it could be concluded that there was a concurrent influences of **PopulationGrowth, SGER, LifeExpectation, OIC, GrossSaving**, and **Population3** toward **InGDPperCapita**. (because of P-value < 0.05). To measure the **Goodness-of-fit**, the researcher used the measurement of the **Root Mean Square Error (RMSE)** which the model had good value if the measurement of RMSE had small score. From the results of the output F test, RMSE measurement (or **Root MSE**) was 0.64872 (small) so that the regression model formed was good

1). Hypothesis to test the regression coefficient individual with T test.

H0: There was no partial/individual influence of **PopulationGrowth**, **SGER, LifeExpectation, OIC, GrossSaving,** and **Population3** toward **lnGDPperCapita**.

H1: There was a partial/individual influence of **PopulationGrowth**, **SGER, LifeExpectation, OIC, GrossSaving,** and **Population3** toward **lnGDPperCapita**.

This test was conducted to find out whether there was a significant influence of each predictor variable toward response variable. The testing showed the significant influence when the P-value (see: p. > | t |) ≤ α where α was equal to 5%.

Table 4. Testing *t* result for coefficient significance of *Regression Model*.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Variables** | **Coefficient** | **Standard Error** | **T-Statistic** | **P-value** |
| **PopulationGrowth** | 0,2423246 | 0,0720564 | 3,36 | 0,001\* |
| **SGER** | 0,0246247 | 0,0043037 | 5,72 | 0,000\* |
| **LifeExpectation** | 0,0714259 | 0,0150414 | 4,75 | 0,000\* |
| **OIC** | -0,1378503 | 0,1738093 | -0,79 | 0,430 |
| **GrossSaving** | -0,0002356 | 0,0031774 | -0,07 | 0,941 |
| **Population3** | 0,0625478 | 0,0190825 | 3,28 | 0,001\* |
| **Constanta** | 0,5484115 | 0,8222682 | 0,67 | 0,506 |

**\*Significance for siginificance level (*α*) was 5%.**

From the output table result, this test gave the conclusions that:

1. The P-value for the **PopulationGrowth** variable was 0.001 (P-value < 0.05) so it could be concluded that there was a significant influence of **PopulationGrowth** variable toward **lnGDPperCapita** variable 0,2423246 (positive influence) meaning that if there was an increase in 1 unit of **PopulationGrowth** variable then **GDPperCapita** variable would have multiplication of exp (0,2423246) =1.2742077; Vice versa if there was a decrease of 1 unit of **PopulationGrowth** variable then the **GDPperCapita** variable would have division of exp(0,2423246) = 1.2742077.

**2.** The P-value for the **SGER** variable was 0.000 (P-value < 0.05) so it could be concluded that there was a significant influence of **SGER** variable toward **lnGDPperCapita** variable 0,0246247 (positive influence) meaning that if there was an increase in 1 unit of **SGER** variable then the **GDPperCapita** variable would have multiplication of exp (0,0246247) = 1,0249304; vice versa if there was a decrease of 1 unit of **SGER** variable then the **GDPperCapita** variable would have division of exp (0,0246247) = 1,0249304.

**4.** The P-value for the **LifeExpectation** variable was 0.000 (P-value < 0.05) so it could be concluded that there was a significant influence of **LifeExpectation** variable toward **lnGDPperCapita** variable 0,0714259 (positive influence) meaning that if there was an increase in 1 unit of **LifeExpectation** variable then **GDPperCapita** variable would have multiplication of exp (0,0714259) = 1,0740386; vice versa if there was a decrease of 1 unit of **LifeExpectation** variable then the **GDPperCapita** variable would have division of exp (0,0714259) = 1,0740386.

**5.** The P-value for the **OIC** variable was 0.430 (P-value < 0.05) so it could be concluded that there was no a significant influence of **OIC** variable toward **lnGDPperCapita** variable meaning that there was no difference of **GDPperCapita** variable to respondents OIC and non OIC.

6. The P-value for **GrossSaving** variable was 0.914 (P-value < 0.05) so it could be concluded that there was no a significant influence of **GrossSaving** variable toward **lnGDPperCapita** variable meaning that if there was an increase/decrease of 1 unit of **GrossSaving** variable then the **GDPperCapita** variable would not be affected.

7. The P-value for the **Population3** variable was 0.001 (P-value < 0.05) so it could be concluded that there was a significant influence of **Population3** variable toward **lnGDPperCapita** variable 0,0625478 (positive influence) meaning that if there was an increase in 1 unit of **Population3** variable then **GDPperCapita** variable would have multiplication of exp (0,0625478) = 1,0645453; vice versa if there was a decrease of 1 unit of **Population3** variable then the **GDPperCapita** variable would have division of exp(0,0625478) = 1,0645453.

The regression model involving all variables was formulated as:

**lnGDPperCapita = 0,5484115 + 0,2423246 PopulationGrowth + 0,0246247SGER**

**+ 0,0714259 LifeExpectation – 0,1378503OIC**

**– 0,0002356 GrossSaving + 0,0625478 Population3 + *e***

To measure the **Goodness-of-fit,** the researcher used the measurement of the **Coefficient of Determination (R-squared)** which the more MSE approach 1 or 100% the better model was formed. From the output result, a measurement of R-squared was 0.8255 meaning that the diversity of the **lnGDPperCapita** variable could be explained by **PopulationGrowth, SGER, LifeExpectation, OIC, GrossSaving,** and **Population3** simultaneously were 82.55% and 17.45% the rest was explained by error (e) or other variables not included into the regression model. In other words, the regression models formed had the goodness model 82,55%.

**II. The final result of regression model estimation:**

The regression model in thi study was obtained:

**lnGDPperCapita = -0,3241616+0,1451502PopulationGrowth + 0,0264021SGER**

**+0,091881 LifeExpectation–0,2269042OIC**

**– 0,0009864GrossSaving + *e*1 (1)**

**lnGDPperCapita = -1,36015 + 0,1773497 PopulationGrowth + 0,0246915 SGER**

**+ 0,0828845 LifeExpectation – 0,2758971 OIC – 0,0014611 GrossSaving + 0,0283371 Population2 + *e*2 (2)**

**lnGDPperCapita = 0,5484115+0,2423246PopulationGrowth + 0,0246247SGER**

**+ 0,0714259 LifeExpectation – 0,1378503 OIC**

**– 0,0002356GrossSaving + 0,0625478 Population3 + *e*3 (3)**

Explanation:

**lnGDPperCapita** = Natural Logarithm of *GDP per capita* in 2013 (*constant* 2010 US$).

**PopulationGrowth** = *Population Growth* in 2013 (*Annual* %).

**SGER =** Secondary Gross Enrolment Ratio in 2013.

**LifeExpectation** = *Total Fertility Rate* in 2013 (*Births per Woman*).

**GrossSaving** = *Gross Savings* in 2013 (% *of GDP*).

**Population2** = *Population* aged 15 – 64 years and above (% *of Total*).

**Population3** = *Population* aged 65 years and above (% *of Total*).

The results of this research showed that at the level of significance 5 percent, population growth, education, and life expectancy had positive effects to the economy, so with the population aged 65 years and above. One of the reasons was the influence of the life expectancy age which showed the life cycle of the population in a longer period, it contributed positively to the economy. While the population aged 15-64 years had no effect to the economy at the significant level of 5 percent, but had effect on the significance level of 10 percent.

Table 5: The Comparison of OLS Regression

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Independent Variable | OLS Estimates | | | |
| (1)  Specification 1 | P-value | (2)  Specification 2 | P-value |
| PopulationGrowth | 0,1773497 | 0,013\*\* | 0,2423246 | 0,001\*\* |
| SGER | 0,0246915 | 0,000\*\* | 0,0246247 | 0,000\*\* |
| LifeExpectation | 0,0828845 | 0,000\*\* | 0,0714259 | 0,000\*\* |
| OIC | -0,2758971 | 0,128 | -0,1378503 | 0,430 |
| GrossSaving | -0,0014611 | 0,658 | -0,0002356 | 0,941 |
| Population2  (aged 15-64) | 0,0283371 | 0,070\* | - | - |
| Population3  (aged 65 above) | - | - | 0,0625478 | 0,001\*\* |
| Constanta | -1,36015 | 0,170 | 0,5484115 | 0,506 |
| R-squared | 0,8130 | - | 0,8255 | - |
| Adj R-squared | 0,8018 | - | 0,8150 | - |

\*\*Significance for significance level (*α*) was 5%.

\*Significance for significance level (*α*) was 10%.

In addition, there was different influence in terms of the significance level, there was also differences in the influence measurement, the results of this study showed a group of population aged 65 years and above had a bigger influence to the economy than any group of population aged 15-64 years. Furthermore, the results of this research showed that there was no difference in variable GDP per Capita for the OIC and Non-OIC respondents. This was affected by economic system globally or Islamic finance in different parts of the world, such as in Europe, and in the majority of the OIC members. The application of Islamic economic system still mixed with the economic system or the financial system other than Islam.

**Conclusions and Recommendations**

The results of this study indicated that: (1) at the significance level of 5 percent, population growth, education, and life expectancy effect on the economy positively, as well as the population aged 65 years and above, this phenomenon supported the fact that life expectancy positively affected the economy, it showed that longer population life cycle period contributed positively to the economy (2) the population aged 15-64 years had no effect on the economy at significance level of 5 percent, but had effect on the 10 percent of significance level, (3) there was also a difference in terms of the effect measurement, whereas the population group aged 65 and above had a greater effect on the economy than the population group age 15-64 years old , and (4) there was no difference in GDP per Capita of OIC and non-OIC member countries. Therefore, the recommendations for the Government of OIC member countries are to fix and improve the condition of the economy or the financial system more serious as a part of efforts to reach better economy.

Furthermore, we also suggest to do further research using different variables and approaches, in order to find a number of new research results that are useful in expanding and developing the science used as media in solving the existing problems.

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