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ABSTRAK

Tujuan penelitian ini adalah untuk mengetahui dan menganalisis i) kondisi pendapatan perkapita di Indonesia dilihat dari kriteria Middle income trap serta ii) pengaruh ekspor, penanaman modal asing dan jumlah penduduk baik secara parsial maupun bersama-sama terhadap pendapatan perkapita. Data yang digunakan adalah data sekunder periode tahun 1991 – 2000, dengan alat analisis menggunakan analisis regresi berganda. Hasil penelitian menunjukkan bahwa perkembangan pendapatan perkapita termasuk kategori lower-middle income. Selanjutnya penanaman modal asing, jumlah penduduk dan ekspor berpengaruh signifikan terhadap pendapatan perkapita.

Kata kunci : penanaman modal asing, jumlah penduduk, ekspor dan pendapatan perkapita
Klasifikasi JEL : E and P2, P3, or P4

INTRODUCTION

The World Bank has classified Indonesia into a group of lower-middle income countries for the past 13 years. This shows that Indonesia’s economic growth is quite stagnant for a long time and makes Indonesia's potential to enter the Middle Income Trap is very large. This research, among others, aims to identify whether Indonesia has been included in MIT. ECM time series analysis is used at once to find out what actions need to be
taken in the long run to get out or avoid the middle income trap. PNB per capita as the basis for classifying the income groups of countries in the world is used as a variable to look at MIT (Hotmaria Elecktawati Lumbangaol and Ernawati Pasaribu, 2018).

Based on the level of per capita income, countries in the world can be categorized into several groups. Tran (2013) grouped them into four groups; The first is a group consisting of low-income countries that are still struggling out of the poverty trap. Some countries on the African continent fall into this category. Second is a group consisting of countries that have reached middle income levels for a long time (more than fifty years for many cases) but experienced very low income growth after that. Some countries in Latin America fall into this second group. Third, the group consisting of countries that just fall into the middle income category. Indonesia, several Countries association of Southeast Asian Nations (ASEAN) and China are included in this group. The fourth group consists of high-income countries such as members of the Organisation for Economic Cooperation and Development (OECD).

The middle income trap is a scourge for developing countries, both in Asia, Oceania, Africa, and Latin America. The World Bank itself classifies the income (income) of countries in the world into 4 (four) categories, namely: low income (low income), lower middle income (lower middle income), upper middle income (upper middle income), and high income (high income).

The World Bank revealed that the economy is still concentrated in countries with high incomes, which is 38.1 percent and only 13.3 percent is felt by low income countries. Indonesia itself officially rose to upper middle income since mid-2020 ago. However, will Indonesia always be at the middle income level and could Indonesia be able to rise to the rank of a high-income country. Based on the description above, this study will focus on analyzing whether Indonesia has entered into MIT in macroeconomic
research, with the title middle income trap in macroeconomic perspective: case studies in Indoensia.

**Research objectives**

1. To find out and analyze the condition of per capita income in Indonesia judging from the Middle income trap criteria
   2. To find out and analyze the influence of exports, foreign investment (PMA) and population both partially and together on per capita income

**Theoretical Studies**

Simply put, the Middle Income Trap is a condition in which a country that has managed to reach a middle income level, but stuck and restrained to develop into a high-income country. This happens because at some level middle-income countries will become uncompetitive in the value added industries sector, such as manufacturing. Labor-intensive industries will also begin to move to low-wage countries so that economic growth in middle income countries will tend to stagnate or even decline. Middle income countries (MIC) not only have difficulty competing with Low-Wage Countries, but also difficulty competing with High-Technology Countries.

**Definisi Middle Income Trap**

The middle-income trap (MIT) refers to a condition in which middle-income countries are unable to maintain a stable enough rate of economic growth to achieve a new income group as high-income countries. So trapped in the middle income group (Aviliani et al, 2014).

**How to Measure MIT**

The World Bank (2014) in its research used the variable Gross National Income (PNB) per capita as a proxy for MIT. PNB per capita is measured from Gross National Income which is the total value added income of all residents of a country, both domestically and abroad (World Bank, 2014). PNB per capita is used as one of the benchmarks for determining how
successful a country is in managing its economy.

Jesus Felipe (2012) in an ADB working paper entitled: Tracking Middle Income Trap: What is it, Who is in it, and Why provides an approach to how a country can be called a country trapped in MIT. Felipe (2012) classifies all countries of the world into four income groups based on GDP per capita. These countries fall into the category: (1) low-income countries; (2) lower-middle-income countries; (3) upper-middle-income countries; and (4) high-income countries.

Table 2. Income category based on PNB per capita

<table>
<thead>
<tr>
<th>Kategori</th>
<th>PNB per kapita 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Income</td>
<td>&lt; US $ 1,045</td>
</tr>
<tr>
<td>Lower Middle Income</td>
<td>US $ 1,045 - US $ 4.125</td>
</tr>
<tr>
<td>Upper Middle Income</td>
<td>US $ 4.125 - US $ 12.746</td>
</tr>
<tr>
<td>High Income</td>
<td>&gt; US $ 12.746</td>
</tr>
</tbody>
</table>

Source: World Bank, 2014 (diolah)

Previous Research

Aprisal W. Malale, Maung Agus Sutikno, 2014. Stating that variables in exports of goods and services, added value of agriculture, and foreign assistance and assistance (with lag or without lag) significantly negatively affect pnb per capita. Gross Capital Formation variables significantly positively affect (in the current year) and have an effectnegatif (in the previous 2 and 3 years) against PNB per capita in the current year. Inflation variables have no significant effect on PNB per capita.

Iskandar A.A, 2014. Stating that quantitatively the regression model of variable PDRB ADHB and PDRB ADHK and population has a significant effect on per capita income. The number of residents against per capita income in a negative direction, means that the number of residents has a negative and significant effect on per capita income, per capita income in 2014 Rp. 6,002,891 if converted to the World Bank category 2014 lower income < US $ 1,045. Based on the results of the analysis it can be concluded that Lampung is still in the Lower Income category.
RESEARCH METHODS
The methods used in this study use quantitative descriptive methods. Descriptive research according to Kuncoro (2013: 10) includes the collection of data for hypothesis testing or to answer questions regarding the final status of the research subject. The data in this study is a sequence data with time series from 1991 to 2020. The data processing in this study used eviews and looked for correlation coefficient values using multiple regression data analysis.

Analytical Techniques
Data analysis techniques use multiple regression analysis, with the following research models: Data analysis techniques use multiple regression analysis, with the following research models:

\[ \log Y = \beta_0 + \beta_1 \log X_1 + \beta_2 \log X_2 + \beta_3 \log X_3 + e \]

Keterangan:
\( \log Y = \text{Pendapatan per Kapita} \)
\( \log X_1 = \text{Investasi} \)
\( \log X_2 = \text{Jumlah Penduduk} \)
\( \log X_3 = \text{Ekspor} \)
\( \beta_1, \beta_2, \beta_3 = \text{koefisien regresi dari setiap variabel independen} \)
\( \beta_0 = \text{konstanta} \)
\( e = \text{ Variabel Penggangu (error term)} \)

Classic Assumption Test
Analysis requirements testing is used as a requirement in the use of multiple linear regression analysis models. In linear regression, to ensure that the model is BLUE (Best Linear Unbiased Estimator) tests are carried out, among others: linearity test, normality test, multicollinearity test, heteroskedasticity test and autocorrelation test.

RESULTS AND DISCUSSIONS
Per capita Income Conditions in Indonesia Seen From Middle Income Trap Criteria
Tabel 1. Development of Per Capita Income in Indonesia in 1991-2020

<table>
<thead>
<tr>
<th>Tahun</th>
<th>Klasifikasi</th>
<th>Tahun</th>
<th>Klasifikasi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1991</td>
<td>Lower-Middle Income</td>
<td>2006</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>1992</td>
<td>Lower-Middle Income</td>
<td>2007</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>1993</td>
<td>Lower-Middle Income</td>
<td>2008</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>1994</td>
<td>Lower-Middle Income</td>
<td>2009</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>1995</td>
<td>Lower-Middle Income</td>
<td>2010</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>1996</td>
<td>Lower-Middle Income</td>
<td>2011</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>1997</td>
<td>Lower-Middle Income</td>
<td>2012</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>1998</td>
<td>Lower-Middle Income</td>
<td>2013</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>1999</td>
<td>Lower-Middle Income</td>
<td>2014</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>2000</td>
<td>Lower-Middle Income</td>
<td>2015</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>2001</td>
<td>Lower-Middle Income</td>
<td>2016</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>2002</td>
<td>Lower-Middle Income</td>
<td>2017</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>2003</td>
<td>Lower-Middle Income</td>
<td>2018</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>2004</td>
<td>Lower-Middle Income</td>
<td>2019</td>
<td>Lower-Middle Income</td>
</tr>
<tr>
<td>2005</td>
<td>Lower-Middle Income</td>
<td>2020</td>
<td>Lower-Middle Income</td>
</tr>
</tbody>
</table>

Sumber: Hasil olah data, BPS

Furthermore, from the results of data processing with the E-Views 10 application obtained the following regression equation.

\[ Y = 6.066663 + 0.082869 X_1 - 0.337476 X_2 + 0.037852 X_3 \]

Information:

- \( Y \) = Pendapatan per Kapita
- \( X_1 \) = Penanaman Modal Asing (PMA)
- \( X_2 \) = Jumlah Penduduk
- \( X_3 \) = Ekspor

Based on the equation above, it can be explained as follows: The coefficient value of foreign investment (PMA) \((X_1)\) has a coefficient of 0.082869 means that if there is an increase in foreign investment of US $ 1 and when other factors are considered fixed, it will increase per Capita Income by US $ 0.082869 or any (PMA) of US $10,000, will increase per Capita Income by US $ 828.

The population coefficient \((X_2)\) has a coefficient of -0.337476, meaning that if there is an increase in the population by 1 percent and when other factors are considered fixed, it will decrease per Capita Income by US $ 0.337476 or any population of 10 percent, will decrease per Capita Income by US $ 3,374. This shows the effect on the increasingly higher gdp per capita increase.
divide, so that it will reduce per capita income.

The value of the export coefficient (X3) has a coefficient of 0.037852, meaning that if there is an increase in exports of US $ 1 and when other factors are considered fixed, it will increase per Capita Income by US $ 0.037852 or each export by US $ 10,000, will increase per Capita Income by US $ 378.

Classic Assumption Test
Normality Test
Jarque-Bera’s normality test result that probability amounted to 4.301149 > 0.05 means that the data in this study is normal distribution.

Linearity Test
The test results obtained the probability number F-statistic of 0.4875 > 0.05 means that the relationship of the free variable with the bound variable is linear.

Multicollinearity Test
There is no variable whose Centered VIF value is more than 10, so it can be concluded that all free variables in this model are free from multicollinearity problems.

Heteroskedasticity Test
The white test results obtained Prob-Chi Square 0.0679, it can be concluded that probability chi-square 0.0679 > 0.05 means that there is no problem of heteroskedasticity in the analysis data studied.

Autocorrelation Test
Prob-Chi Square test results 0.1489, it can be concluded that the value of Prob-Chi Square 0.1489>0.05, meaning that there are no autocorrelation problems in the data in the analysis studied.

Furthermore, to find out the influence of foreign investment, the number of residents and exports can be seen in the table below.
Based on table 2 above, the decision taken from the test results can be known that:

Static value of foreign investment variable (PMA) (X1) of 8.296405 > t Table of 1.70562 in other words the probability value of 0.0000 < 0.05 then H0 is rejected, meaning there is a positive and significant relationship between pmdn free variable (X1) to variable bound income per capita in Indonesia.

Static value of population variable (X2) of -2.464443 < t Table of 1.70562 in other words the probability value of 0.0206 < 0.05 then H0 is rejected, meaning there is a negative and significant relationship between the free variable of population number (X2) to variables bound to Income per Capita in Indonesia.

Static value variable population number (X3) of 3.499111> t Table of 1.70562 in other words the probability value of 0.0017 < 0.05 then H0 is rejected, meaning there is a positive and significant relationship between export-free variables (X3) to variables bound to Income per Capita in Indonesia.

Based on the above description that foreign investment, population and exports have a significant effect on per capita income, this is in line with previous research.

Furthermore, the statistical test F is conducted to find out if all the free variables contained in the model have a mutual influence on the bound variable. To know this can be seen from the magnitude of the probability value of its significance.

### Tabel 2 Hasil Uji t

<table>
<thead>
<tr>
<th>Variabel</th>
<th>t-statistic</th>
<th>Prob-statistic</th>
<th>t-statistic</th>
<th>Signifikansi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penanaman Modal Asing (PMA)</td>
<td>8.296405</td>
<td>0.0000</td>
<td></td>
<td>Signifikan</td>
</tr>
<tr>
<td>Jumlah Penduduk</td>
<td>-2.464443</td>
<td>0.0206</td>
<td></td>
<td>Signifikan</td>
</tr>
<tr>
<td>Ekspor</td>
<td>3.499111</td>
<td>0.0017</td>
<td></td>
<td>Signifikan</td>
</tr>
</tbody>
</table>

Sumber: Hasil Pengolahan E-Views 10
If the probability value of its significance is less than 0.05 then the independent variable will have a significant effect together on the dependent variable.

### Tabel 3 Hasil Uji F

<table>
<thead>
<tr>
<th>F-statistic</th>
<th>76.74529</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prob(F-statistic)</td>
<td>0,000000</td>
</tr>
</tbody>
</table>

Sumber: Hasil Pengolahan E-Views 10

In table 3 the F-statistical value of this test result is 76.74529 and the F-table value of 0.000000 at $\alpha = 0.05$. It can be concluded together, that foreign investment variables (PMA), population and exports have a significant effect on Per Capita Income in Indonesia.

### CHAPTER V CONCLUSIONS AND SUGGESTIONS

#### 5.1 Conclusion

Based on the results of the analysis that has been discussed in the previous chapter. So in this study can be concluded as follows:

1. Based on the results of the criteria of income classification parameters according to the World Bank and according to Felipe et al (2012) it can be stated that Indonesia throughout 2019 to 2020 has been in the trap of middle income trap Or

2. Foreign capital security, population and exports have a significant effect on per capita income

#### 5.2. Suggestion

With respect to foreign investment, population and exports are related to per capita income, the government needs to pay close attention, so that per capita income can be maintained even more, so that Indonesia can get out of the Middle-Income trap.

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