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1	The Impact of Monetary Policy on Economic Development:
2	Evidence from Lao PDR
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### 7 Abstract

This paper examines the impact of monetary policy on the economic development by using 8 annual time series data from 1989-2016. The unit root testing result suggests that all variables 9 are stationary at first difference; therefore, the Johansen Cointegration and Error Correction 10 Model has been employed to analyze the association between variables. The finding shows 11 that money supply, interest rate and inflation rate negatively effect on the real GDP per 12 capita in the long run and only the real exchange rate has a positive sign. The error correction 13 model result indicates the existence of short run causality between money supply, real 14 exchange rate and real GDP per capita. 15

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17 Index terms— monetary policy, economic development, laos, VECM, cointegration.

Volume XVII Issue II Version I The Impact of Monetary Policy on Economic Development: Evidence from Lao 28 PDR Abstract-This paper examines the impact of monetary policy on the economic development by using annual 29 time series data from 1989-2016. The unit root testing result suggests that all variables are stationary at first 30 difference; therefore, the Johansen Cointegration and Error Correction Model has been employed to analyze the 31 association between variables. The finding shows that money supply, interest rate, and inflation rate negatively 32 effect on the real GDP per capita in the long run and only the real exchange rate has a positive sign. The error 33 correction model result indicates the existence of short-run causality between money supply, real exchange rate 34 and real 35

<sup>18</sup> Though many literatures and empirical studies supported the effectiveness of monetary policy on the macroeconomic variables but some argued that changing in money supply changes only the of nominal magnitude 19 20 gross domestic product and it does not have any effect on the real economic variables, further more, rising of the money supply can only lead inflation such as: (Friedman, 1995; and Jeffrey M. Lacker, 2014). The recent 21 empirical study of more than 100 countries by (Romer & Romer, 2002) the correlation between money supply and 22 real economics activities found in only developed countries. (Lashkary & Kashani, 2011) study on the impact 23 of monetary variables on economic growth in Iran by using monetarist's approach, the finding suggests that 24 there is no relationship between money and real economic variables such as gross domestic product, employment. 25 26 Nevertheless, the consensus of the role of monetary policy on the economic development and the real economic 27 activity are not conclusively on the macroeconomic policy research context.

Since Lao People's Democratic Republic had changed its policy from centrally planned economy to market-36 37 oriented economy in 1986, the Bank of Laos (BoL) has played an important role boosting economic activities 38 and economic stability. The transition toward a market oriented-economy was accompanied by the expansion on 39 monetary policy, that can be seen by the money supply as the proportion of gross domestic product increased rapidly from 20% in 1999 to 58% in 2015 and interest rate decreased from 30% in 1990 to 20% in 1999 and 40 3.5% in 2015 respectively, the annual gross domestic product grew up by 8% averagely. Nevertheless, the Lao 41 economy also suffered high fluctuation of inflation and dollarization continuously. During the Asian financial 42 crisis; inflation rate hit the new historical record at 128% in 1999. The exchange rate mechanism is not reflex 43 the actual economic condition due to the existence of high dollarization, the percentage of foreign currency as 44 the proportion of aggregate money supply hit 72% and 80% in 1998 and 1999. The monetary policy is limited 45

and incomplete 1. It is mainly base on issuing bond and reserve requirement in order to serve the government 46 economic policy and economic liquidity. Therefore, this study aims to analysis onetary policy is a key factor 47 of macroeconomic management in opened economy to stimulate economic stability and to promote economic 48 development through its impact on economic variables. It is generally believe that monetary policy influences 49 50 macroeconomic variables which include employment creation, price stability, gross domestic product growth and equilibrium in the balance of payment in developing country (Anowor & Okorie, 2016; ??recious, 2014). The role 51 of monetary policy on the economic development and the changing in aggregate economic activity depend on 52 how monetary policy is conducted and the independency of the central bank to choose the appropriate monetary 53 tools to formulate the monetary policy of macroeconomic objectives (Alavinasab, 2016). The accurate information 54 on the effectiveness of the policy on the macro economy is the main issue of the policy maker to successfully 55

implementation of any economic policy in general to achieve the sustainable output growth, the authority and

57 policy maker always targets on the intermediate variables include the shortterm interest rate, money supply, and

exchange rate, which is considered as the most powerful instrument of monetary policy(Artus & Barroux, 1990;

59 Fasanya, Onakoya, & Agboluaje, 2013). M II.

### 60 1 Literature Review

Monetary is geared toward achieving the economic growth and economic performance. The earlier empirical study 61 62 such as (Zhang & Sun, 2017) analysis the confidence in monetary policy in China response by the entrepreneur. 63 the private sector will had more inspiration when the central bank adapt an easing monetary policy, thus leads to better economic environment and higher economic growth. (Alavinasab, 2016) examine the impact of monetary 64 policy on economics growth in Iran by using time series data which appropriate with error correction model 65 (ECM), the finding of regression show that money supply, exchange rate and inflation had a long run significantly 66 relationship on economics growth (Anowor & Okorie, 2016) also adopting the error correction model with time 67 serried data from 1982-2013, the result show that increasing on cash reserve ratio led to increase in economic 68 69 growth in Nigeria, which supports the study of the previous literature (Fasanya et al., 2013) found that : inflation, 70 exchange rate, and external reserve are important force driving economic growth in Nigeria, (Sylvie NIBEZA, 71 2015) deployed on Johansen for integration and Vector Error Correction to check the existing for long run association between variable, the result of the analysis found that there is an integration among variable, 72 exchange rate and money supply had a significantly effect on economic growth of Rwanda. (Fernald, Spiegel, & 73 Swanson, 2014) examine the Mechanism to identify the long-run and short-run dynamics between variables. The 74 finding shows that money supply, repo rate and exchange rate had the positive impact on economic growth in 75 76 South African countries.

(Jeffrey M. Lacker, 2014) agree with (Friedman, 1995) Argued that monetary policy can determine the long-77 78 run path of inflation, but its effect on real economic activity is limited and temporary. The contribution of 79 central bank to economic growth is very low. The transmission process can be expressed through the IS-LM 80 model. For example, if the central bank uses expansionary monetary policy by open market leads to right ward shift in LM curve, it is meaning that interest rate decreases and the gross domestic product goes up. However, 81 82 these consequences is considered as the immediate short-run effect of monetary policy , then the price level would increase, thus the LM curve snapping back gain. (Artus & ??arroux, 1990) and (Cover, 1992) using monthly 83 data from 1951-1087 examine the symmetric effect of positive and negative of money supply shock, the finding 84 implied that uncertainty about the future path of money supply has a negative impact on the output, (Romer & 85 Romer, 2002) studies 110 countries over a 30 year period, the finding suggests that growth rate of money supply 86 are very high, but there is no correlation between money supply and output in many countries, accept for some 87 88 developed countries. (Babatunde & Shuaibu, 2011) Examines money supply, inflation and economic growth 89 in Nigeria, the finding shows negative relationship between inflation and economic growth, (Bhattarai, 2011) investigated on impact of exchange rate and money supply on growth, inflation and interest rate in the UK found 90 that depreciation of Sterling and higher interest rate have negative impact on economic growth (Ehigiamusoe, 91 Uyi Kizito, 2013) studied on The Link between Money Market and Economic Growth in Nigeria: using the Vector 92 Error Correction Model Approach found that money supply is significantly negative impact on economic growth 93 and the link between money market and the real sector is very weak. (Vimaly Savannarideth, 2015) examine 94 the money-output Granger causality in Lao PDR found that money supply does not Granger-cause output. 95 The Impact of Monetary Policy on Economic Development: Evidence from Lao PDR the impact of monetary 96 policy on the economic development in Lao PDR, Despite, the percentage of using foreign currency and the 97 inflation rate has been decreased recently, and the Lao economy continues to benefit with high level of economic 98 99 growth. In order to stimulate sustainable growth in the long run and maintain the economic stability, the Lao 100 authority and policy makers needs better understand on the crucial effectiveness of monetary policy instruments 101 on macroeconomic variables deeply. monetary effectiveness in China, the finding indicates that increases in bank 102 reserve requirements reduce economic activity and changes in interest rates also have the impacts on economic activity and price level, (Gul, Mughal, & Rahim, 2012) found that interest rate has negative impact on the output 103 and he also found that money supply has strongly positive impact on the output, which supports (Alavinasab, 104 2016;Fasanya et al., 2013;Sylvie NIBEZA, 2015), (Bollard & Hunt, 1960) suggests that New Zealand's monetary 105 policy framework is likely to have played a role in lifting economic performance, along with many other factors, 106 most notably the widespread economic reforms. (Precious, 2014) investigates the impact of monetary policy in 107

promoting economic growth in the South African economy over the period 2000-2010, by using Johansen cointegration and the Error Correction On the other hand, some researchers found there is no relationship between monetary policies on real economic growth. (Ho & Yeh, 2010) examined on monetary policy for a small open economy with heavily managed exchange rates with sign restrictions to the Taiwanese case, where existing studies found no clear effect of monetary policy shocks on the output and price level (Khabo & Harmse, 2005) studied on evaluates the impact of monetary policy on the economic growth of a small and open economy of South Africa , the finding show : money supply and inflation are not significantly related to the change of economic growth,

115 (Babatunde III.

# <sup>116</sup> 2 Data and Methodology

### 117 $?????? = \delta ??"\delta ??"(??2, ??????, ????, ?????)(1)$

To transform the above model (3) to a multiple regression form can be written like this:?????? = ?? 0 + ??119 1??2 + ?? 2?????? + ?? 3???? + ?? 4?????? + ?? (2)

Where ?????? is real gross domestic product per capital, ??2 is broad money, ?????? is real exchange rate USD/Kip, ???? is the interest rate, INF is inflation rate, ?? is error term, ?? 0 is intercept, ?? 1, ?? 2, ?? 3, ?? 4 is the coefficient of the independent variable.

In presence study, we have used time series data, therefore, checking for stationary technique needs to apply to check whether all series stationary or not. Regarding to the previous study found that most of the economic time series data are found to be non stationary and a non-stationary time series may produce spurious regression, (Phillips & Perron, 1988).

# <sup>127</sup> 3 a) Unit Root Test

This study employs the Augmented Dickey-Fuller (ADF) test as test of unit root to check the stationary of the 128 series in order to avoid spurious regression problem. The testing is base on the assumption of serially correlated 129 error terms, which their contribution considers with intercept and with intercept and trend. The ADF test is 130 specific as: The ADF unit root test confirm the stationary of interest rate (IR) in the first difference of intercept 131 with significant level at 1%, and also confirmed significantly the stationary of real gross domestic product per 132 capita, broad money and real exchange rate in first difference with trend and intercept at significant level at 1% 133 for M2 & Shuaibu, 2011) Also confirmed there is no relationship between money supply and economic growth.??? 134 = ?? 0 + ???? ???1 + ?? 2 ?? + ? ? ?? ??=1 ??? ???1 + ?? ??(3)135

Where ?? ?? and are coefficient matrices, and determination of the rank (??) of matrix ?? ?? is the main point of conducting the cointegration procedure that developed by Johansen. The feasible outcome of integration equation includes: 1. Full rank (?? = ??), 2. (?? = 0) and finally, when there are at most r cointegrating vectors (0 ? ?? ? ??).

Johansen's cointegration procedure deals with two likelihood ratio test statistics such as trace test and the 147 maximum eigenvalue test. Table (4) exists the long run dynamic relationship of monetary policy variables on 148 the real gross domestic product per capita. Rising on money supply decreases the real gross domestic product 149 per capital as it has the negative sign and statistically significant. The long run relationship base on the that 150 the broad money supply increases by 1 billion Kip, while keeps the others factor constant, real gross domestic 151 product per capita would decrease 22.22 kip (or 0.003 US dollar) 2. Even though money supply has an impact 152 on real GDP per capital, but the degree of its relationship is very weakly compare with another 3 1 USD is 153 exchanged rate approximately 8000 kip in December 2016 154

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156 The study has used Johansen's cointegration long run association among all variables.

# <sup>157</sup> 4 variables. normalized cointegrating coefficient analysis indi-

### 158 cates

The negative sign of money supply is also confirmed by the negative relationship of inflation rate on the real gross domestic product per capita, 1% increase in inflation would cause to decreasing on real GDP per capita by 34373.36 kip, due to Laos experienced with Volume XVII Issue II Version I The real exchange rate is positively affect on real gross domestic product per capita, 1 unit depreciation on domestic currency between Lao kip and US dollar would increase 135.3105 kip on real GDP per capita due to domestic currency depreciation would make the price of export goods cheaper, thus increasing the number of total export significantly. Meanwhile, the interest rate is the most powerful variable influences on real GDP per capita; the relationship between interest

rate and the real gross domestic product is the negative sign. By 1% increase of interest rate would decreases 166 79128.65 Kip of annual real GDP per capital of Laos. The finding also confirmed the previous literatures such as: 167 (Friedman, 1995), (Friedman et al., 1974) and (Alavinasab, 2016) The short-run relationship between variable 168 can be examined by the subsequent vector error correction model (VECM) as equations below: 169

170 (5) (

where is the first difference, ECT is error correction term or speed adjustment to the long term equilibrium, 171 ?? 0? ?? 23 are intercept and short run coefficient, ?? is error term, ?? is lag length. therefore, the joint 172 F-value or Wald statistic (?? 2) of each equation is used to identify the short run Granger causality with lag 173 2 of each equation. Before running the Granger causality testing, the diagnostic test by Breusch-Godfrey Serial 174 Correlation LM Test, Jarqueberla test and heteroskedasticity (ARCH) are applied on all equations to check 175 for the standard assumption of the model. The result of the Granger causality test base on the vector error 176 correction model VECM are summery in the table 5. The VECM equation (??)-(??) is used to explain the 177 short run causality regarding to the standard Granger causality testing approach. The equation (6) investigates 178 the causation between explanatory variable (money supply, interest rate, exchange rate and inflation) to gross 179 domestic product per capita. It exists the long run causality among variable, if the coefficient of the error term 180 181 becomes negative and significant, The negative sign on error correction term appearing in the GDP equation 182 and it is statistically significant at 5%. That means there is a long run causality running from monetary policy to economic development in Laos. Table 5 shows the ?? 2 statistic for both individual and joint significant of 183 variables. In case of equation GDP, the joint ?? 2 implied that there exist the short run causality between 184 explanatory variables and dependent variable. The individual ?? 2 is also significantly for Money supply M2 and 185 186 ?? ??=1 + ? ??187 IV.

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#### Conclusion 5 189

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-	

	$\mathrm{ADF}$			
Variable	Level		First difference	
	Intercept	Trend & inter-	Intercept	Trend & inter-
		$\operatorname{cept}$		$\operatorname{cept}$
GDP	-1.77003(1)	-1.3551	-2.655729	-3.646583*
		(0.0897)	(0.1931)	(0.0388)
IR	-1.681742	-1.862036	-4.455371**	-4.619912
	(4288)	(0.646)	(0.00017)	(0.0055)
INF	-2.795595	-3.54485	-5.10645**	-4.980416**
	(0.0722)	(0.0552)	(0.0004)	(0.0002)
M2	-2.071664	-1.468972	-2.594819	-4.675812**
	(0.2568)	(0.8143)	(1.0683)	(0.00076)
REX	-1.630776	-1.742369	-2.201475	$-2.125487^{*}$
	(0.4532)	(0.7029)	(0.2105)	(0.0346)
		(		

Note: The value in () is macKinnon (1996) one-side p-values \* And \*\* significant at 5% and 1% respectively.

Figure 1: Table 1 :

1 2 190

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 $\mathbf{2}$ 

Lag	LogL	LR	FPE	AIC	$\mathbf{SC}$	HQ
0	-1080.425	NA	1.26E + 30	83.49421	83.73615	83.56388
1	-875.9335	314.6018	1.32E + 24	69.68719	71.13884	70.10521
2	-827.4592	$55.93187^{*}$	2.76e + 23*	$67.88148^*$	$70.54283^*$	68.64785*

<sup>[</sup>Note: Notes: \* Indicates lag order selected by the criterion: sequential modified LR test statistic LR; final prediction error FPE; Akaike information criterion AIC; Schwarz information criterion SC; Hannan-Quinn information criterion HQ at significant level at 5%. 2017 Global Journals Inc. (US) Volume XVII Issue II Version I 2 The statistic center of Lao PDR has been starting record time series data from 1989. The Impact of Monetary Policy on Economic Development: Evidence from Lao PDR]

Figure 2: Table 2 :

### 3

Null Hypothesis	Alt Hy	- Trace test	Critical value	Prob
	pothesis			
?? $= 0$	?? > 0	184.336**	69.81889	0
?? ? 1	?? ? 1	114.3727**	47.85613	0
?? ? 2	?? ? 2	64.03572**	29.79707	0
?? ? 3	?? ? 3	$26.47584^{**}$	15.49471	0.0008
?? ? 4	?? ? 4	$6.195244^*$	3.841466	0.0128
Null Hypothesis	Alt Hy	- Max	Critical value	Prob
	pothesis	Eigenvalue		
?? $= 0$	?? ? 0	69.96326*	33.87687	0
?? $= 1$	?? ? 1	$50.33702^{*}$	27.58434	0
?? $= 2$	?? ? 2	37.55988*	21.13162	0.0001
?? = 3	?? ? 3	$20.28059^*$	14.2646	0.005
?? $= 4$	?? ? 4	$6.195244^*$	3.841466	0.0128
	( )			

-Trace test indicates 5 cointegrating eqn(s) at 5% and 1%

-Max eigenvalue test indicates 5 cointegrating eqn(s) at 5% and 1%

\* and \*\*: denotes rejection of the hypothesis at 5% and 1% respectively.

Figure 3: Table 3 :

## 5 CONCLUSION

 $\mathbf{4}$ 

		Dependent GDP	variable:	
Variable	Coefficient	Standard Error		t-Statistics
M2	-22.22802*	-7.0817		-3.138797181
REX	$135.3105^{*}$	-16.163		8.371413193
IR	-79128.65*	-14172		5.58344976
INF	-34372.26*	-3868.1		-8.886083607
				Note: * significantly.

Figure 5: Table 4 :

 $\mathbf{5}$ 

Dependence Variables Independence Variables

Figure 6: Table 5 .

The Impact of Monetary Policy on Economic Development: Evidence from Lao PDR The present study 191 attempts to examine the impact of monetary policy on Lao economy using Johansen cointegration and Vector 192 Error Correction Mechanism (VECM). The finding reflexes the actual economic condition of Lao PDR. The 193 finding revealed that changing on the stock of money supply would have a negatively effect on the economic 194 development in the long run. The relationship between money supply and gross domestic product per capita is 195 negatively significant. Moreover, the crucial element of monetary policy instrument which driven the economic 196 development of Lao PDR in the long run are interest rate and exchange, these two independent variables have 197 a positive sign and their contribution to gross domestic product per capita are much more higher than money 198 supply, the long run coefficient of interest rate and real exchange are 79128.65 and 34372.25 respectively. However, 199 the long-run relationship between inflation also confirms the negative relationship between money supply and 200 real gross domestic product per capita, meaning that whenever the money supply has been rising would increase 201 inflation and decreases in real output (Friedman et al., 1974) (Jeffrey M. Lacker, 2014). Meanwhile, the Granger 202 causality base on the error correction model indicates that money supply and real exchange rate have a short run 203 causality relationship with gross domestic product per capita. According to the result of this study suggests that 204 the Lao authority needs to reconsider to apply on monetary policy to boost economic development by employ 205 the most effective instrument as interest rate and the exchange rate rather than purely increase of money supply, 206 207 due to avoiding negative impact of hyperinflation in order to maintain the economic stability and economic 208 development in the long run.

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