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PROCEEDING

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Market Structure and Bank-Lending Channel during the Consolidation Period

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ABSTRACT

A prominent study by Bernanke and Gertler (1995) revealed that monetary policy influences both the borrowers' balance sheets and income statement as well as banks' lending capacity. The first influence is known as balance sheets channel and the second is identified as lending channel. The bank-lending channel is noticeable in a banks-dependent economy such as Indonesia where banks retained 86 percent of assets in the financial industry. According to Bernanke and Gertler (1995), the monetary policy of open market sales affects the supply of banks loans. The policy induces banks to lower their reserves that further reduces the deposits in the banking system and banks' lending capacity.

Some studies attempt to investigate the existence of lending channel in the banking industry. Agung (1998) examined empirically the lending channel in the Indonesian banking following the deregulation policies between 1983 and 1992. The study found that monetary policy transmitted to the real sector through the bank-lending channel. Nevertheless, the impact was merely significant among the small banks. Agung (1998) argued that large banks had larger access on the external source of funds such as foreign funds and bank loan commitment so the monetary policy was not effective in lowering their lending capacity. Further, Adams and Amel (2005) was keen to examine the lending channel particularly on small business loans in the US. Their study concluded that the monetary policy transmission is weakened in the more concentrated banking industry. Specifically, the study found that market imperfection of market power resulted from market concentration contributed to lower the sensitivity of bank lending to the federal funds rate. Meanwhile, more recent paper by Amidu and Wolfe (2013) using dataset of 978 banks from 55 countries found a contrasting evidence. They argued that a more competitive banking contributes to weaken the monetary policy effectiveness on banks' lending.

This study aims to extend the literature on lending channel by examining the role of market structure on lending capacity constraint in the Indonesian banking industry. It is critical to explore the lending channel as Indonesia monetary policy transmission in increasing access to banking credit is not effective. The reference interest rate of the central bank has been lowered but borrowers still complaint about the lack of access to banking lending. Meanwhile, the degree of market competition in the Indonesian banking industry is low signaling the existence of market power of large banks. A study by Mulyaningsih (2014) indicated that the competition in the Indonesian banking during the consolidation period after 1997/1998 economic crisis was worse compared to the deregulation period in the 1990s.

In order to investigate the possible role of market concentration in explaining the bank-lending channel in Indonesian banking, this paper will employ the general method of moment approach. This approach is preferred because it is capable to manage the endogeneity issue due to the reverse



causality and omitted variable bias. Particularly, this study focuses on the Indonesian banking industry consisted of 101 banks of the observation period between 2005 and 2014.

Keywords: banking, market structure, lending channel

INTRODUCTION

The economic policies are applied the government to regulate economic activities and to achieve economic stability. One of the policies is monetary policy. Monetary policy aims to control monetary system in a country. In Indonesia, there are two monetary operation instruments in order to implement monetary policy, that are open market operation operation and standing facilities.

To attain the goal of monetary policy, it is important to understand the channels through which policy are transmitted to the economy. In Indonesia, there are six channels that are money channel, lending channel, interest rate channel, exchange rate channel, asset price channel, and expectation channel (Central Bank of Indonesia, 2004). According to Bacchetta and Ballabriga (2000), there are three channels on how monetary policy has been transmitted. They are IRSA Conference 2018

Since Indonesian economic system is a bank based economy where banks retained 86 percent of assets in the financial industry, banks have significant role to transmit the policies through lending channel. Mishkin (1995) explained, in lending channel, a monetary contraction when central bank increase interest rates the banks' reserves and deposit get reduced. It means the

A The economic policies have imp

In Indonesia, there are two monetary policy istrument that are open market operation operation and standing facilities. According to Bernanke and Gertler (1995), the monetary policy of open market sales affects the supply of banks loans. The policy induces banks to lower their reserves that further reduces the deposits in the banking system and banks' lending capacity.

This study examines monetary transmission through lending channels mechanism and it's relation to market concentration.



LITERATURE REVIEW

The empirical studies on bank lending channel is varied widely among other nations. In US

Monetary policy transmission has been a prominent issue to understand. There are some studies discussed

Kashyap and Stein (1995) stated that large banks have access to non-deposit funds and small banks are easily constrained due to monetary contraction.

A study by Kashyap and Stein (1995) revealed that a contraction in monetary policy has a quite similar effect on core deposits accross size classes.

Agung (1998) found that bank lending channel transmission only affect to small bank. The transmission do not affect large bank. It is because large bank had access the external source of by issuing non-deposit funds or borrowing abroad.

METHODOLOGY

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This study treats lending supply as exogenous variable and money supply, investment, and credit interest as endogenous variable.

This paper employ Vector Auto Regression (VAR) to examine the monetary transmission mechanisms.

One of the advantages of VAR is only requires a small number of variables (

There are two market concentration index that commonly used, they are CR_k and Herfindahl-Index (HHI). CR_k explains the given firms' market size to the whole market size in their industry. HHI uses market shares as weights, thus larger banks are assigned larger weights in order to take into account the different sizes of banks in the market.

The formula of HHI is as follows:

$$HHI = \sum_{i=1}^{n} s_i^2$$



Where, s_i refers to the market share of bank i in the market and n is the number of banks. The Herfindahl Index (H) ranges from 1/N to one, where N is the number of banks in the market. The value of HHI implies the level of concentration in the industry where the larger the value of the index demonstrates a more concentrated market. For an industry that consists of a single monopoly, HHI=1 because a monopolist has a market share of s_1 =1 thus $\mu \mathbb{D}S = 1$. On the other hand, an industry with N banks with equal market shares will have HHI=1/N (Lipezynski, Wilson & Goddard 2005).

RESULT AND DISCUSSION

- The unit root test reveals all variables are stationary at difference using Phillip-Pheron assumption.
- Credit, credit interest, money supply, and investment are stationary at difference

SUMMARY AND CONCLUSIONS

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REFERENCES

Agung, J. (1998). Financial deregulation and the bank lending channel in developing countries: the case of Indonesia. Asian Economic Journal, 12(3), 273-294.

Amidu, M., & Wolfe, S. (2013). The effect of banking market structure on the lending channel: Evidence from emerging markets. *Review of Financial Economics*, 22(4), 146-157.

Kashyap, A. K., & Stein, J. C. (1995, June). The impact of monetary policy on bank balance sheets. In Carnegie-Rochester Conference Series on Public Policy (Vol. 42, pp. 151-195). North-Holland.

Lipezynski, J, Wilson, J & Goddard, J 2005, Industrial Organization: Competition, Strategy, Policy, Pearson Education Limited, Essex.

Lipezynski, J, Wilson, J & Goddard, J 2005, *Industrial Organization: Competition, Strategy, Policy*, Pearson Education Limited, Essex.

Warjiyo, P. (2017). Kebijakan Moneter di Indonesia (Vol. 6). Pusat Pendidikan Dan Studi Kebanksentralan (PPSK) Bank Indonesia.

APPENDIX

A. UNIT ROOT TEST



1. Credit Interest

Null Hypothesis: D(CREDITINTEREST) has a unit root

Exogenous: Constant

Bandwidth: 28 (Newey-West automatic) using Bartlett kernel

		Adj. t-Stat	Prob.*
Phillips-Perron test stati	stic	-7.856181	0.0000
Test critical values:	1% level	-3.581152	
	5% level	-2.926622	
	10% level	-2.601424	
*MacKinnon (1996) one	-sided p-values.		
Residual variance (no correction) HAC corrected variance (Bartlett kernel)			0.233417 0.037746

Phillips-Perron Test Equation

Dependent Variable: D(CREDITINTEREST,2)

Method: Least Squares
Date: 06/29/18 Time: 23:59

Sample (adjusted): 2005Q3 2016Q4

Included observations: 46 after adjustments

Variable	Coefficient	Std. Error t-Si	tatistic Prob.	0040
D(CREDITINTEREST(-1)) C	-0.898641 -0.044984	0.100001 0.0	88772 0.0000 14528 0.5420	
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.449073 0.436552 0.493991 10.73718 -31.80780 35.86539 0.000000	Mean dependent var S.D. dependent var Akaike info criterion Schwarz criterion Hannan-Quinn criter. Durbin-Watson stat	-0.001159 0.658100 1.469905 1.549411 1.499688 1.865997	Economy

2. Lninvestasi

Null Hypothesis: D(LNINVESTASI) has a unit root



Exogenous: Constant

Bandwidth: 1 (Newey-West automatic) using Bartlett kernel

		Adj. t-Stat	Prob.*
Phillips-Perron test stat	istic	-6.570253	0.0000
Test critical values:	1% level	-3.581152	
	5% level	-2.926622	
	10% level	-2.601424	
*MacKinnon (1996) one	e-sided p-values.		
Residual variance (no d	correction)		0.150589
HAC corrected variance	e (Bartlett kernel)		0.150545

Phillips-Perron Test Equation

Dependent Variable: D(LNINVESTASI,2)

Method: Least Squares
Date: 06/30/18 Time: 00:01
Sample (adjusted): 2005Q3 2016Q4
Included observations: 46 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(LNINVESTASI(-1)) -0.990518 -0.004317	0.150757 0.058506	-6.570284 -0.073789	0.0000 0.9415
R-squared Adjusted R-squared	0.495231 0.483759	Mean depende S.D. dependen	t var On Te	0.000188 0.552234
S.E. of regression Sum squared resid	0.396780 6.927099	Akaike info crit Schwarz criteri	onarta.	1.031633 1.111139
Log likelihood F-statistic Prob(F-statistic)	-21.72757 Stre 43.16864 0.000000	Hannan-Quinn Durbin-Watson		1.061417 2.000197

3. Lnjub



Null Hypothesis: D(LNJUB) has a unit root

Exogenous: Constant

Bandwidth: 12 (Newey-West automatic) using Bartlett kernel

		Adj. t-Stat	Prob.*
Phillips-Perron test stat	istic	-10.98187	0.0000
Test critical values:	1% level	-3.581152	
	5% level	-2.926622	
	10% level	-2.601424	
*MacKinnon (1996) one-sided p-values.			
Residual variance (no correction) HAC corrected variance (Bartlett kernel)			0.000615 0.000580

Phillips-Perron Test Equation Dependent Variable: D(LNJUB,2)

Method: Least Squares Date: 06/30/18 Time: 00:03

Sample (adjusted): 2005Q3 2016Q4

Included observations: 46 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(LNJUB(-1)) C	-1.457208 0.048720	0.134466 0.005840	-10.83702 48.343007	0.0000 0.0000
R-squared	0.727455	Mean depender	nt var	9.18E-05
Adjusted R-squared	0.721261	S.D. dependent	var	0.048008
S.E. of regression	0.025346	Akaike info crite	erion	-4.469864
Sum squared resid	0.028267	Schwarz criterio	on	-4.390358
Log likelihood 5t1	104.8069	Hannan-Quinn	criter alan	-4.440080
F-statistic	117.4411	Durbin-Watson	stat	2.004227
Prob(F-statistic)	0.000000			

4. Inkredit

Null Hypothesis: D(LNKREDIT) has a unit root

Exogenous: Constant

Bandwidth: 1 (Newey-West automatic) using Bartlett kernel

		Adj. t-Stat	Prob.*
Phillips-Perron test stat	tistic	-6.115987	0.0000
Test critical values:	1% level	-3.581152	
	5% level	-2.926622	
	10% level	-2.601424	
*MacKinnon (1996) one	e-sided p-values.		
Residual variance (no	correction)		0.000741
HAC corrected variance	e (Bartlett kernel)		0.000701



Phillips-Perron Test Equation

Dependent Variable: D(LNKREDIT,2)

Method: Least Squares
Date: 06/30/18 Time: 00:18
Sample (adjusted): 2005Q3 2016Q4
Included observations: 46 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(LNKREDIT(-1)) C	-0.904411 0.038225	0.147593 0.007579	-6.127757 5.043701	0.0000 0.0000
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.460450 0.448187 0.027831 0.034081 100.5048 37.54940 0.000000	Mean depende S.D. dependen Akaike info crite Schwarz criterie Hannan-Quinn Durbin-Watson	t var erion on criter.	-0.000819 0.037466 -4.282817 -4.203311 -4.253034 2.076245

B. UJI KOINTEGRASI

Date: 06/30/18 Time: 00:20

Sample (adjusted): 2005Q3 2016Q4

Included observations: 46 after adjustments

Trend assumption: Linear deterministic trend IRSA Conference 2018 Series: LNKREDIT LNJUB LNINVESTASI CREDITINTEREST

Lags interval (in first differences): 1 to 1

Unrestricted Cointegration Rank Test (Trace) g Regional and Local Economy

urakarta, Central Java

Hypothesized No. of CE(s)	Eigenvalue	Trace Statistic	0.05 Critical Value	Prob.**
None * At most 1 * At most 2 At most 3	0.515288	65.01028	47.85613	0.0006
	0.370895	31.69709	29.79707	0.0298
	0.156104	10.37809	15.49471	0.2528
	0.054352	2.570696	3.841466	0.1089

Trace test indicates 2 cointegrating eqn(s) at the 0.05 level

Unrestricted Cointegration Rank Test (Maximum Eigenvalue)

Hypothesized No. of CE(s)	Eigenvalue	Max-Eigen Statistic	0.05 Critical Value	Prob.**
None * At most 1 * At most 2 At most 3	0.515288	33.31319	27.58434	0.0082
	0.370895	21.31900	21.13162	0.0471
	0.156104	7.807392	14.26460	0.3986
	0.054352	2.570696	3.841466	0.1089

Max-eigenvalue test indicates 2 cointegrating eqn(s) at the 0.05 level

^{**}MacKinnon-Haug-Michelis (1999) p-values



^{*} denotes rejection of the hypothesis at the 0.05 level

^{**}MacKinnon-Haug-Michelis (1999) p-values

^{*} denotes rejection of the hypothesis at the 0.05 level

Unrestricted Coint	egrating Coeffic	cients (normalized by	b'*S11*b=I):		
		(REDITINTERE		
LNKREDIT	LNJUB	LNINVESTASI	ST		
12.53177	-10.63897	0.983975	2.714930		
20.92475	-29.63118	0.690804	0.264452		
-26.89455	35.91603	0.860332	0.715940		
17.67505	-21.98932	-1.056558	0.850610		
Unrestricted Adjus	stment Coefficie	ents (alpha):			
D(LNKREDIT)	-0.011179	0.001796	-5.12E-05	0.002135	
D(LNJUB) D(LNINVESTASI	-0.002745	0.008023	-0.002415	0.004011	
) D(CREDITINTE	-0.013415	-0.188429	-0.022510	0.036730	
REST)	-0.067014	0.088002	-0.154994	-0.016637	
1 Cointegrating Eq	uation(s):	Log likelihood	216.2725		
Normalized cointeg	grating coefficie	ents (standard error in			
LNKREDIT	LNJUB	LNINVESTASI	REDITINTERE ST		
1.000000	-0.848960	0.078518	0.216644		
BI	(0.07705)	(0.02176)	(0.03442)		
Adjustment coeffici D(LNKREDIT)		error in parentheses	14 th		
D(LNJUB)	(0.02872)	IRS/	A Confe	erence :	2018
A 100	(0.04492)	To the same of the			
D(LNINVESTASI	-0.168109	₩ Sura	ikarta,	Central	Java
D (ODEDLEWS	(0.69765)	thening Re	gional an	d Local Eco	nomy
D(CREDITINTE REST)	-0.839806				
,	(0.85015)				
2 Caintagrating Fa			220 0220		
2 Cointegrating Eq	ualion(s).	Log likelihood	226.9320		
Normalized cointeg	grating coefficie	ents (standard error in)	parentheses)		
LNKREDIT	LNJUB	LNINVESTASI	ST		
1.000000	0.000000	0.146637	0.522032		
		(0.05681)	(0.04125)		
0.000000	1.000000	0.080238	0.359720		
		(0.04638)	(0.03367)		
Adjustment coeffici	ients (standard	error in parentheses)		
D(LNKREDIT)	-0.102502	0.065703			
	(0.05547)	(0.07160)			
D(LNJUB)	0.133469	-0.208512			
	(0.08178)	(0.10556)			
D(LNINVESTASI	4.440044	F 70000 t			
)	-4.110941	5.726094			
D(CREDITINTE	(1.14700)	(1.48056)			
REST)	1.001617	-1.894646			
,					
	(1.61946)	(2.09041)			



3 Cointegrating Eq	uation(s):	Log likelihood	230.8357	
Normalized cointeg	grating coefficie	nts (standard error i		
LAUCDEDIT			CREDITINTERE	
LNKREDIT	LNJUB	LNINVESTASI	ST	
1.000000	0.000000	0.000000	0.381972	
			(0.04512)	
0.000000	1.000000	0.000000	0.283081	
			(0.03276)	
0.000000	0.000000	1.000000	0.955146	
			(0.20233)	
			,	
Adjustment coeffici	ents (standard	error in parentheses	s)	
D(LNKREDIT)	-0.101125	0.063863	-0.009803	
	(0.08257)	(0.10862)	(0.00336)	
D(LNJUB)	0.198416	-0.295245	0.000763	
,	(0.12094)	(0.15909)	(0.00492)	
D(LNINVESTASI	,	, ,	,	
`)	-3.505542	4.917620	-0.162733	
·	(1.70251)	(2.23963)	(0.06932)	
D(CREDITINTE	, , , ,	,,	, - /	
` REST)	5.170120	-7.461427	-0.138494	
,	(2.24049)	(2.94733)	(0.09123)	

C. LAG LENGTH

VAR Lag Order Selection Criteria
Endogenous variables: D(LNKREDIT) D(CREDITINTEREST) D(LNINVESTASI) D(LNJUB)

Exogenous variables: C

VAR Lag Order Selection Criteria

Date: 06/30/18 Time: 00:45 Sample: 2005Q1 2016Q4 rengthening Regional and Local Economy

Included observations: 46

Lag	LogL	LR	FPE	AIC	SC	HQ
0	166.9307	NA	9.85e-09	-7.083945	-6.924933	-7.024378
	199.6159	58.26494*	4.79e-09*	-7.809389*	-7.014327*	-7.511554*

^{*} indicates lag order selected by the criterion

LR: sequential modified LR test statistic (each test at 5% level)

FPE: Final prediction error AIC: Akaike information criterion SC: Schwarz information criterion HQ: Hannan-Quinn information criterion

D. VAR ESTIMATION

Vector Autoregression Estimates Date: 06/30/18 Time: 00:44 Sample (adjusted): 2005Q3 2016Q4



D(CREDITINTE D(LNINVESTAS					
	D(LNKREDIT)	REST)	` l)	D(LNJUB)	
D(LNKREDIT(-1))	0.811991	10.10794	3.219258	0.509300	
(//	(0.15206)	(3.60744)	(2.92697)	(0.18971)	
	[5.33989]	[2.80197]	[1.09986]	[2.68457]	
D(CREDITINTEREST(-1))	-0.016649	0.094914	0.278725	-0.002102	
	(0.00632)	(0.14992)	(0.12164)	(0.00788)	
	[-2.63456]	[0.63310]	[2.29139]	[-0.26665]	
D/LNINI\/ECTACI/ 4\\	0.002040	0.245550	0.000700	0.000000	
D(LNINVESTASI(-1))	-0.002810	-0.315558	0.026733	-0.003330	
	(0.00753)	(0.17865)	(0.14495)	(0.00940)	
	[-0.37310]	[-1.76637]	[0.18443]	[-0.35440]	
D(LNJUB(-1))	-0.882768	-7.634482	-1.065855	-0.822463	
, , , , , , , , , , , , , , , , , , , ,	(0.15920)	(3.77689)	(3.06445)	(0.19862)	
	[-5.54490]	[-2.02137]	[-0.34781]	[-4.14079]	
С	0.035931	-0.228336	-0.094056	0.038804	
	(0.00552)	(0.13091)	(0.10622)	(0.00688)	
	[6.51141]	[-1.74421]	[-0.88551]	[5.63641]	
R-squared	0.552022	0.200379	0.175668	0.327872	
Adj. R-squared	0.508317	0.122367	0.095246	0.262298	
Sum sq. resids	0.015413	8.674706	5.710741	0.023991	
S.E. equation	0.019389	0.459976	0.373211	0.024190	
F-statistic	12.63059	2.568572	2.184314	5.000069	
Log likelihood	118.7558	-26.90188	17.28644	the state of the s	
Akaike AIC	-4.945906	1.387038	0.968976	-4.503439	
Schwarz SC	-4.747141	1,585804	1.167741	-4.304673	
Mean dependent	0.042352	-0.049928	-0.004360	0.033463	
S.D. dependent Str	0.027651	0.490997	0.392364	0.028164	
Determinant resid covarian	uce (dof adi)	3.17E-09			
Determinant resid covarian Determinant resid covarian		2.00E-09			
		199.6159			
LOO IIKAIIDOOO		100.0108			
Log likelihood Akaike information criterion	1	-7.809389			

Market Structure and Bank-Lending Channel during the Consolidation Period

by Leon Akbar

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Market Structure and Bank-Lending Channel during the Consolidation Period

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ABSTRACT

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This study aims to extend the literature on lending channel by examining the role of market structure on lending capacity constraint in the Indonesian banking industry. It is critical to explore the lending channel as Indonesia monetary policy transmission in increasing access to banking credit is not effective. The reference interest rate of the central bank has been lowered but borrowers still complaint about the lack of access to banking lending. Meanwhile, the degree of market competition in the Indonesian banking industry is low signaling the existence of market power of large banks. A study by Mulyaningsih (2014) indicated that the competition in the Indonesian banking during the consolidation period after 1997/1998 economic crisis was worse compared to the deregulation period in the 1990s.



In order to investigate the possible role of market concentration in explaining the bank-lending channel in Indonesian banking, this paper will employ the general method of moment approach. This approach is preferred because it is capable to manage the endogeneity issue due to the reverse



causality and omitted variable bias. Particularly, this study focuses on the Indonesian banking industry consisted of 101 banks of the observation period between 2005 and 2014.

Keywords: banking, market structure, lending channel

INTRODUCTION

The economic policies are applied the government to regulate economic activities and to achieve economic stability. One of the policies is monetary policy. Monetary policy aims to control monetary system in a country. In Indonesia, there are two monetary operation instruments in order to implement monetary policy, that are open market operation operation and standing facilities.

To attain the goal of monetary policy, it is important to understand the channels through which policy are transmitted to the economy. In Indonesia, there are six channels that are money channel, lending channel, interest rate channel, exchange rate channel, asset price channel, and expectation channel (Central Bank of Indonesia, 2004). According to Bacchetta and Ballabriga (2000), there are three channels on how monetary policy has been transmitted. They are

Since Indonesian economic system is a bank based economy where banks retained 86 percent of assets in the financial industry, banks have significant role to transmit the policies through lending channel. Mishkin (1995) explained, in lending channel, a monetary contraction when central bank increase interest rates the banks' reserves and deposit get reduced. It means the

A The economic policies have imp

In Indonesia, there are two monetary policy istrument that are open market operation operation and standing facilities. According to Bernanke and Gertler (1995), the monetary policy of open market sales affects the supply of banks loans. The policy induces banks to lower their reserves that further reduces the deposits in the banking system and banks' lending capacity.

This study examines monetary transmission through lending channels mechanism and it's relation to market concentration.



LITERATURE REVIEW

The empirical studies on bank lending channel is varied widely among other nations. In US

Monetary policy transmission has been a prominent issue to understand. There are some studies discussed

Kashyap and Stein (1995) stated that large banks have access to non-deposit funds and small banks are easily constrained due to monetary contraction.

A study by Kashyap and Stein (1995) revealed that a contraction in monetary policy has a quite similar effect on core deposits accross size classes.

Agung (1998) found that bank lending channel transmission only affect to small bank. The transmission do not affect large bank. It is because large bank had access the external source of by issuing non-deposit funds or borrowing abroad.

METHODOLOGY

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Surakarta, Central Java

This study treats lending supply as exogenous variable and money supply, investment, and credit interest as endogenous variable.

This paper employ Vector Auto Regression (VAR) to examine the monetary transmission mechanisms.

One of the advantages of VAR is only requires a small number of variables (

There are two market concentration index that commonly used, they are CR_k and Herfindahl-Index (HHI). CR_k explains the given firms' market size to the whole market size in their industry. HHI uses market shares as weights, thus larger banks are assigned larger weights in order to take into account the different sizes of banks in the market.

The formula of HHI is as follows:

$$HHI = \sum_{i=1}^{n} s_i^2$$



Where, s_i refers to the market share of bank i in the market and n is the number of banks. The Herfindahl Index (H) ranges from 1/N to one, where N is the number of banks in the market. The value of HHI implies the level of concentration in the industry where the larger the value of the index demonstrates a more concentrated market. For an industry that consists of a single monopoly, HHI=1 because a monopolist has a market share of s_1 =1 thus μ S = 1. On the other hand, an industry with N banks with equal market shares will have HHI=1/N (Lipezynski, Wilson & Goddard 2005).

RESULT AND DISCUSSION

- The unit root test reveals all variables are stationary at difference using Phillip-Pheron assumption.
- · Credit, credit interest, money supply, and investment are stationary at difference

SUMMARY AND CONCLUSIONS

The 14th IRSA Conference 2018 Surakarta, Central Java

Agung, J. (1998). Financial deregulation and the bank lending channel in developing countries: the case of Indonesia. Asian Economic Journal, 12(3), 273-294.

Amidu, M., & Wolfe, S. (2013). The effect of banking market structure on the lending channel: Evidence from emerging markets. *Review of Financial Economics*, 22(4), 146-157.

Kashyap, A. K., & Stein, J. C. (1995, June). The impact of monetary policy on bank balance sheets. In Carnegie-Rochester Conference Series on Public Policy (Vol. 42, pp. 151-195). North-Holland.

Lipezynski, J, Wilson, J & Goddard, J 2005, Industrial Organization: Competition, Strategy, Policy, Pearson Education Limited, Essex.

Lipezynski, J, Wilson, J & Goddard, J 2005, *Industrial Organization: Competition, Strategy, Policy*, Pearson Education Limited, Essex.

Warjiyo, P. (2017). Kebijakan Moneter di Indonesia (Vol. 6). Pusat Pendidikan Dan Studi Kebanksentralan (PPSK) Bank Indonesia.

APPENDIX

A. UNIT ROOT TEST



1. Credit Interest

Null Hypothesis: D(CREDITINTEREST) has a unit root

Exogenous: Constant

Bandwidth: 28 (Newey-West automatic) using Bartlett kernel

		1 Adj. t-Stat	Prob.*
Phillips-Perron test stati	stic	-7.856181	0.0000
Test critical values:	1% level	- <mark>3</mark> .581152	
	5% level	-2.926622	
	10% level	-2.601424	
*MacKinnon (1996) one	-sided p-values.		
Residual variance (no c	orrection)		0.233417
HAC corrected variance	(Bartlett kernel)		0.037746

Phillips-Perron Test Equation

Dependent Variable: D(CREDITINTEREST,2)

Method: Least Squares

Date: 06/29/18 Time: 23:59

Sample (adjusted): 2005Q3 2016Q4

Included observations: 46 after adjustments

Variable	Coefficient	Std. Error t-Star	tistic Prob.	0040
D(CREDITINTEREST(-1))	-0.898641 -0.044984	0.150054 -5.988 0.073202 -0.614		ce 2018
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.449073 0.436552 0.493991 10.73718 -31.80780 35.86539 0.000000	Mean dependent var S.D. dependent var Akaike info criterion Schwarz criterion Hannan-Quinn criter. Durbin-Watson stat	-0.001159 0.658100 1.469905 1.549411 1.499688 1.865997	Economy

2. Lninvestasi

Null Hypothesis: D(LNINVESTASI) has a unit root



Exogenous: Constant

Bandwidth: 1 (Newey-West automatic) using Bartlett kernel

		Adj. t-Stat	Prob.*
Phillips-Perron test stat	tistic	-6.570253	0.0000
Test critical values:	1% level	-3.581152	
	5% level	-2.926622	
	10% level	-2.601424	
*MacKinnon (1996) one	e-sided p-values.		
Residual variance (no d	correction)		0.150589
HAC corrected variance	e (Bartlett kernel)		0.150545

Phillips-Perron Test Equation

Dependent Variable: D(LNINVESTASI,2)

Method: Least Squares
Date: 06/30/18 Time: 00:01
Sample (adjusted): 2005Q3 2016Q4
Included observations: 46 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(LNINVESTASI(-1)) C	-0.990518 -0.004317	0.150757 0.058506	-6.570284 -0.073789	0.0000 0.9415
R-squared	0.495231	Mean depende	ent var	0.000188
Adjusted R-squared	0.483759	S.D. dependen	t var () In Te	0.552234
S.E. of regression	0.396780	Akaike info crit	erion	1.031633
Sum squared resid	6.927099	Schwarz criteri	onarta	1.111139
Log likelihood	-21.72757	Hannan-Quinn	criter.	1.061417
F-statistic St	43.16864	Durbin-Watson	istanal and	2.000197
Prob(F-statistic)	0.000000			

3. Lnjub



Null Hypothesis: D(LNJUB) has a unit root

Exogenous: Constant

Bandwidth: 12 (Newey-West automatic) using Bartlett kernel

		1 Adj. t-Stat	Prob.*
Phillips-Perron test stat	istic	-10.98187	0.0000
Test critical values:	1% level	- <mark>3</mark> .581152	
	5% level	-2.926622	
9	10% level	-2.601424	
*MacKinnon (1996) one	e-sided p-values.		
Residual variance (no o			0.000615 0.000580

Phillips-Perron Test Equation Dependent Variable: D(LNJUB,2) Method: Least Squares Date: 06/30/18 Time: 00:03 Sample (adjusted): 2005Q3 2016Q4 Included observations: 46 after adjustments

Variable	Coefficient	Std. Error t-Statistic	Prob.
D(LNJUB(-1)) C	-1.457208 0.048720	0.134466 0.005840	
R-squared	0.727455	Mean dependent var	fe918E-05 Ce 201
Adjusted R-squared	0.721261	S.D. dependent var	0.048008
S.E. of regression	0.025346	Akaike info criterion	-4.469864 ral lav
Sum squared resid	0.028267	Schwarz criterion	-4.390358
Log likelihood	tre 104,8069	Hannan-Quinn criter.	nc4.440080 Econom
F-statistic	117.4411	Durbin-Watson stat	2.004227
Prob(F-statistic)	0.000000		

4. Inkredit

Null Hypothesis: D(LNKREDIT) has a unit root

Exogenous: Constant

Bandwidth: 1 (Newey-West automatic) using Bartlett kernel

		Adj. t-Stat	Prob.*
Phillips-Perron test statistic		-6.115987	0.0000
Test critical values:	1% level	- <mark>3</mark> .581152	
	5% level	-2.926622	
	10% level	-2.601424	
*MacKinnon (1996) one	e-sided p-values.		
Residual variance (no d	correction)		0.000741
HAC corrected variance	e (Bartlett kernel)		0.000701



Phillips-Perron Test Equation

10 pendent Variable: D(LNKREDIT,2)

Method: Least Squares Date: 06/30/18 Time: 00:18

Sample (adjusted): 2005Q3 2016Q4 Included observations: 46 after adjustments

Variable	10 Coefficient	Std. Error	t-Statistic	Prob.
D(LNKREDIT(-1)) C	- <mark>0</mark> .904411 0.038225	0.147593 0.007579	-6.127757 5.043701	0.0000 0.0000
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.460450 0.448187 0.027831 0.034081 100.5048 37.54940 0.000000	Mean depende S.D. dependen Akaike info crit Schwarz criteri Hannan-Quinn Durbin-Watson	t var erion on criter.	-0.000819 0.037466 -4.282817 -4.203311 -4.253034 2.076245

B. UJI KOINTEGRASI

Date: 06/30/18 Time: 00:20

Sample (adjusted): 2005Q3 2016Q4 Included observations: 46 after adjustments

onference 2018 Trend assumption: Linear deterministic trend Series: LNKREDIT LNJUB LNINVESTASI CREDITINTERES

Lags interval (in first differences): 1 to 1

Surakarta, Central Java 9 Unrestricted Cointegration Rank Test (Trace) Regional and Local Economy

Eigenvalue	Trace Statistic	0.05 Critical Value	Prob.**
0.515288	65.01028	47.85613	0.0006
0.370895	31.69709	29.79707	0.0298
0.156104	10.37809	15.49471	0.2528
0.054352	2.570696	3.841466	0.1089
	0.515288 0.370895 0.156104	Eigenvalue Statistic 0.515288 65.01028 0.370895 31.69709 0.156104 10.37809	Eigenvalue Statistic Critical Value 0.515288 65.01028 47.85613 0.370895 31.69709 29.79707 0.156104 10.37809 15.49471

Trace test indicates 2 cointegrating eqn(s) at the 0.05 level

Unrestricted Cointegration Rank Test (Maximum Eigenvalue)

Hypothesized No. of CE(s)	Eigenvalue	Max-Eigen Statistic	0.05 Critical Value	Prob.**
None * At most 1 * At most 2 At most 3	0.515288	33.31319	27.58434	0.0082
	0.370895	21.31900	21.13162	0.0471
	0.156104	7.807392	14.26460	0.3986
	0.054352	2.570696	3.841466	0.1089

Max-eigenvalue test indicates 2 cointegrating eqn(s) at the 0.05 level

^{**}MacKinnon-Haug-Michelis (1999) p-values



^{*} denotes rejection of the hypothesis at the 0.05 level

^{**}MacKinnon-Haug-Michelis (1999) p-values

^{*} denotes rejection of the hypothesis at the 0.05 level

Unrestricted Cointegrating Coefficients (normalized by b'*S11*b=I):

	22.07		17/11				
LNKREDIT 12.53177	LNJUB -10.63897	LNINVESTASI 0.983975	CREDITINTERE ST 2.714930				
20.92475	-29.63118	0.690804	0.264452				
-26.89455	35.91603	0.860332	0.715940				
17.67505	-21.98932	-1.056558	0.850610				
Unrestricted Adjus	tment Coeffici	ents (alpha):					
			10111000000				
D(LNKREDIT)	-0.011179	0.001796	-5.12E-05	0.002135			
D(LNJUB) D(LNINVESTASI	-0.002745	0.008023	-0.002415	0.004011			
) D(CREDITINTE	-0.013415	-0.188429	-0.022510	0.036730			
REST)	-0.067014	0.088002	-0.154994	-0.016637			
1 Cointegrating Equation(s): Log likelihood 216.2725							
Normalized cointeg	rating coeffici	ents (standard error	in parentheses)				
LNKREDIT	LNILIB	LNINVESTASI	ST				

LNKREDIT LNJUB LNINVESTASI -0.848960 0.078518 0.216644 1.000000 (0.02176) (0.07705)(0.03442)

Adjustment coefficients (standard error in parentheses)

-0.140091 D(LNKREDIT)

(0.02872)

D(LNJUB) -0.034400

(0.04492)

IRSA Conference 2018 Surakarta, Central Java

D(LNINVESTASI

2 Cointegrating Equation(s):

-0.168109

(669765) gthening Regional and Local Economy

226.9320

D(CREDITINTE REST)

-0.839806 (0.85015)

Normalized cointegrating coefficients (standard error in parentheses) CREDITINTERE

Log likelihood

LNJUB	LNINVESTASI	ST
0.000000	0.146637	0.522032
	(0.05681)	(0.04125)
1.000000	0.080238	0.359720
	(0.04638)	(0.03367)
	0.000000	0.000000 0.146637 (0.05681) 1.000000 0.080238

Adjustment coefficients (standard error in parentheses)

rajastinont socialor	onto (otanadia e	aror in parentinesses
D(LNKREDIT)	-0.102502	0.065703
	(0.05547)	(0.07160)
D(LNJUB)	0.133469	-0.208512
	(0.08178)	(0.10556)
D(LNINVESTASI		
)	-4.110941	5.726094
	(1.14700)	(1.48056)
D(CREDITINTE		
REST)	1.001617	-1.894646
	(1.61946)	(2.00041)



3 Cointegrating Eq	uation(s):	Log likelihood	230.8357	
Normalized cointeg	grating coefficie	nts (standard error in		
LNIZDEDIT	LALILID		CREDITINTERE	
LNKREDIT	LNJUB	LNINVESTASI	ST	
1.000000	0.000000	0.000000	0.381972	
			(0.04512)	
0.000000	1.000000	0.000000	0.283081	
			(0.03276)	
0.000000	0.000000	1.000000	0.955146	
			(0.20233)	
Adjustment coeffici	ents (standard	error in parentheses)	
D(LNKREDIT)	-0.101125	0.063863	-0.009803	
-,,	(0.08257)	(0.10862)	(0.00336)	
D(LNJUB)	0.198416	-0.295245	0.000763	
B(LINGB)	(0.12094)	(0.15909)	(0.00492)	
D(LNINVESTASI	(0.12004)	(0.10000)	(0.00402)	
)	-3.505542	4.917620	-0.162733	
,	(1.70251)	(2.23963)	(0.06932)	
D(CREDITINTE	(3201)	(2.25000)	(0.0002)	
REST)	5.170120	-7.461427	-0.138494	
3.7	(2.24049)	(2.94733)	(0.09123)	

C. LAG LENGTH

The 14th

VAR Lag Order Selection Criteria IRSA Conference 2018

Endogenous variables: D(LNKREDIT) D(CREDITINTEREST) D(LNINVESTASI) D(LNJUB) Exogenous variables: C

Date: 06/30/18 Time: 00:45 Sample: 2005Q1 2016Q4 Tengthening Regional and Local Economy

Included observations: 46

18 Lag	LogL	LR	FPE	AIC	SC	HQ
0	166.9307	NA	9.85e-09	-7.083945	-6.924933	-7.024378
	199.6159	58.26494*	4.79e-09*	-7.809389*	-7.014327*	-7.511554*

ndicates lag order selected by the criterion

LR: sequential modified LR test statistic (each test at 5% level)

FPE: Final prediction error AIC: Akaike information criterion SC: Schwarz information criterion HQ: Hannan-Quinn information criterion

D. VAR ESTIMATION

Vector Autoregression Estimates Date: 06/30/18 Time: 00:44 Sample (adjusted): 2005Q3 2016Q4



			D(LNINVESTAS	
	D(LNKREDIT)	REST)	1)	D(LNJUB)
D(LNKREDIT(-1))	0.811991	10.10794	3.219258	0.509300
	(0.15206)	(3.60744)	(2.92697)	(0.18971)
	[5.33989]	[2.80197]	[1.09986]	[2.68457]
D(CREDITINTEREST(-1))	-0.016649	0.094914	0.278725	-0.002102
	(0.00632)	(0.14992)	(0.12164)	(0.00788)
	[-2.63456]	[0.63310]	[2.29139]	[-0.26665]
D(LNINVESTASI(-1))	-0.002810	-0.315558	0.026733	-0.003330
	(0.00753)	(0.17865)	(0.14495)	(0.00940)
	[-0.37310]	[-1.76637]	[0.18443]	[-0.35440]
D(LNJUB(-1))	-0.882768	-7.634482	-1.065855	-0.822463
	(0.15920)	(3.77689)	(3.06445)	(0.19862)
	[-5.54490]	[-2.02137]	[-0.34781]	[-4.14079]
С	0.035931	-0.228336	-0.094056	0.038804
	(0.00552)	(0.13091)	(0.10622)	(0.00688)
2	[6.51141]	[-1.74421]	[-0.88551]	[5.63641]
R-squared	0.552022	0.200379	0.175668	0.327872
Adj. R-squared	0.508317	0.122367	0.095246	0.262298
Sum sq. resids	0.015413	8.674706	th 5.710741	0.023991
S.E. equation	0.019389	0.459976	0.373211	0.024190
F-statistic	12.63059	2.568572	2.184314	5.000069
Log likelihood	118.7558	-26.90188	17.28644	108,5791)
Akaike AIC	-4.945906	1.387038	0.968976	-4.503439
Schwarz SC	-4.747141	5 1.585804	1.167741 e	-4.304673
Mean dependent	0.042352	-0.049928	-0.004360	0.033463
S.D. dependent Stre	0.027651	ng ^{0.490997} 0	na 0.392364	0.028164
13 Determinant resid covariand	ce (dof adj.)	3.17E-09		
Determinant resid covariand	ce	2.00E-09		
Log likelihood		199.6159		
Akaike information criterion		-7.809389		
Schwarz criterion		-7.014327		

Market Structure and Bank-Lending Channel during the Consolidation Period

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- b. Kecukupan dan pemutakhiran data/informasi dan metodologi: Paper ini sudah memiliki kecukupan dan juga menggunakan data dan metodologi yang mutakhir. Analisis dilakukan dengan sangat baik menggunakan persamaan simultan. Studi ini penting bagi pemerintah dalam menetapkan kebijakan terkait industry perbankan di Indonesia.
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- d. Indikasi Plagiat : Tidak ada indikasi plagiasi, ditunjukkan dengan rendahnya hasil uji similarity (terlampir)
- e. Kesesuaian bidang ilmu : sangat sesuai dengan bidang ilmu penulis, dimana paper ini membahas kajian bidang Ekonomi Makroekonomi.

Surakarta. ...

Prof. Dr. Yunastili Purwaningsih, MP

NIP. 195906131984032001

Jabatan

: Guru Besar

Pangkat, Gol Ruang

: Pembina Utama Muda/IV D

Unit Kerja

: FEB UNS

Bidang Ilmu

: Ekonomi Pembangunan

^{*}Dinilai oleh dua Reviewer secara terpisah

^{**}Coret yang tidak perlu

LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW KARYA ILMIAH : *PROSIDING* *

Market Structure and Bank Lending Channel during the Consolidation Period Judul Karya Ilmiah (paper) 3 Orang (Siti Aisyah TR, Tri Mulyaningsih, Malik Cahyadin) Jumlah Penulis Penulis pertama / penulis ke / penulis korespondasi** Status Pengusul 14th IRSA International Conference Nama Prosiding **Identitas Prosiding** 2654 - 3850ISBN/ISSN 23 - 24 Juli 2018, Solo Tahun Terbit, Tempat Pelaksanaan FEB Universitas Sebelas Maret Penerbit/organiser d. https://repository.feb.uns.ac.id/lihatpdf.php?lokasi=publik Alamat repository PT/web asi&kode=778 prosiding Terindeks di (jika ada) : Prosiding Forum Ilmiah Internasional Kategori Publikasi Makalah Prosiding Forum Ilmiah Nasional (beri * pada kategori yang tepat)

Tas	il Penilaian Peer Review :	Nilai Maksimal	Nilai Maksimal Prosiding 15	
	Komponen Yang Dinilai	Internasional	Nasional	Yang Diperoleh
a.	Kelengkapan unsur isi paper (10%)	1.5		1,25
b.	Ruang lingkup dan kedalaman pembahasan (30%)	4.5		3,55
	Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	4.5		3,65
d.	Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	4.5		3,55
u.	Total = (100%)	15		12,00

Catatan Penilaian artikel oleh Reviewer:

- a. Kelengkapan dan kesesuaian unsur isi artikel : Paper ini telah mencukupi kelengkapan unsur yang terdiri latar belakang, perumusan masalah, kajian pustaka, metodologi, hasil dan analisis. Namun ada bagian yang belum terelaborasi yakni hasil dan diskusi, serta ada bagian yang belum terisi yakni kesimpulan,
- b.Ruang lingkup dan kedalaman pembahasan : Studi ini mencari pola hubungan investasi dan jumlah uang beredar sebagai proxy dari stuktur pasar dan jalur kredit (lending channel) yang terdiri atas total kredit dan suku bunga kredit, dengan menggunakan metode VAR. Hasil umum adalah bahwa stuktur pasar berpengaruh terhadap jalur kredit dalam mekanisme transmisi kebijakan moneter.
- c. Kecukupan dan pemutakhiran data/informasi dan metodologi : Secara umum paper ini telah mencukupi baik dari sudut data dan metodologi. Metode yang dipergunakan adalah VAR dimana semua variabel dianggap sebagai variabel endogen.
- d.Kelengkapan unsur dan kualitas terbitan : Konferens Internasional yang diikuti merupakan forum yang relative berkualtias, sementara itu kualitas terbitkan sudah sesuai dengan ketentuan konferensi.

rakarta.

e. Indikasi plagiat: Tidak ada indikasi plagiarism

f. Kesesuaian bidang ilmu: Sangat sesuai bidang ekonomi terutama dalam bidang ekonomi moneter.

...0.9 APR 2020

Lukman Hakim.,SE.,M.Si.,Ph.D

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: Lektor Kepala Jabatan : Pembina/IVA Pangkat, Gol Ruang : FEB UNS Unit Kerja

: Ekonomi Pembangunan Bidang Ilmu

Dinilai oleh dua Reviewer secara terpisah

^{**}Coret yang tidak perlu