# MACROECONOMIC AND BANK-SPECIFIC DETERMINANTS OF MALAYSIAN BANK PROFITABILITY: EVIDENCE DURING THE PERIOD OF 2008 GLOBAL FINANCIAL CRISIS

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# MASTER OF SCIENCE (MSC) BANKING UNIVERSITI UTARA MALAYSIA AUGUST 2014

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By

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### Abstract

This dissertation analyzes the determinants of commercial bank profitability in Malaysia for the period 2006-2012. This dissertation also examines whether 2008 global financial crisis affects bank profitability in Malaysia. Since the sample comprises foreign and local banks, this dissertation also tests whether there is significant difference between foreign and local banks in the aspect of profitability, as generally, foreign banks have larger capital than that of local banks. From the fixed effect estimation analysis, the findings suggest that Malaysian banks with a larger capital and higher credit quality exhibit high profitability level. The findings also demonstrate that bank size has a negative relationship with bank profitability, implying that bigger banks have lower profits than that of small banks. The results also do not support that foreign banks are more profitable than that of local banks in the period studied. In the aspect of macroeconomics determinants, the results suggest that GDP is not the main determinant of Malaysian bank profitability, while on the contrary, inflation rate significantly impact bank profitability in Malaysia. Interestingly, this dissertation does not find conclusive evidence to support that the 2008 global financial crisis affects bank profitability in Malaysia.

**Keywords:** macroeconomic variables, bank-specific variables, domestic and foreign commercial banks, panel data, return on asset, Malaysian banking sector

### Abstrak

Tesis ini menganalisis penentu keuntungan bank perdagangan di Malaysia bagi tempoh 2006-2012. Tesis ini juga cuba meneliti sama ada krisis kewangan 2008 global memberi kesan kepada keuntungan bank di Malaysia. Sejak sampel terdiri daripada bank-bank asing dan tempatan, tesis ini juga menguji sama ada terdapat perbezaan yang signifikan di antara bank-bank asing dan tempatan dalam aspek keuntungan, sebagai amnya, bankbank asing mempunyai modal yang lebih besar daripada banks. From tempatan kesan analisis anggaran tetap, penemuan menunjukkan bahawa bank Malaysia yang mempunyai modal yang lebih besar dan kualiti kredit yang lebih tinggi mempamerkan tahap keuntungan yang tinggi. Dapatan kajian juga menunjukkan bahawa saiz bank mempunyai hubungan yang negatif dengan keuntungan bank, menunjukkan bahawa bank-bank yang lebih besar mempunyai keuntungan yang lebih rendah daripada itu keputusan banks. The kecil juga tidak menyokong bank-bank asing adalah lebih menguntungkan daripada yang bank-bank tempatan dalam tempoh yang dikaji. dalam aspek makroekonomi penentu, keputusan menunjukkan bahawa KDNK tidak adalah penentu utama keuntungan bank Malaysia, manakala sebaliknya, kadar inflasi ketara memberi kesan keuntungan bank di Malaysia. Menariknya, disertasi ini tidak menemui bukti yang kukuh untuk menyokong bahawa krisis kewangan global 2008 memberi kesan kepada keuntungan bank di Malaysia.

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### LIST OF ABBREVIATIONS

ROAA Return on Average Assets

CAP Capital Ratio

LSIZE Logarithm of the Total Assets of Each Commercial Banks

LDEPOSITS Logarithm of the Total Deposits of Each Commercial Banks

IR Inflation Rate

GDP Annual Percentage Changes of Malaysian Gross Domestic

LLP/TL Loan Loss Provision to Total Loan

EQAS Equity to Assets Ratio

NIM Net Income Margin

NII/TA Net interest income to total asset

LNTA Logarithm of the Total Assets

RWA Risk Weighted Average

GMM Generalized method of moments

CHF Swiss Franc

ETP Economic Transformation Programme

### CHAPTER ONE: INTRODUCTION

### 1.1 Background of study

Banking sector plays an important role in the economy. The Governor of Central Bank of Malaysia, Dr. Zeti Akhtar Aziz in year 2012 highlights that banking institutions are the most influential financial intermediaries that help to improve economic operations and hence, generating economic growth. Over the past few years, banking sector around the world experienced a rapid changing due to the changes in the financial structure environment and economic conditions (Naceur et. al, 2011).

Despite the increased trend toward bank disintermediation observed in many countries, the role of banks remains central in financing economic activity in general and different segments of the market in particular. A sound and profitable banking sector is better able to withstand negative shocks and contribute to the stability of the financial system. Therefore, the determinants of bank profitability have attracted the interest of academic research as well as of bank management, financial markets and bank supervisors.

In Malaysia, banks are regarded as dominant financial institution thus, their health condition is crucial as it will give effect to the general health of the economy (Sufian, 2009). As the asset of the bank is high, the bank profitability is also increased. Sufian (2009) stated Malaysian banks contribute more than 70 per cent of the total assets in the financial system. Commercial banks are considered as the leader of the Malaysian banking sector and main profitable banks (BNM Bulletin, 2013). This dissertation is solely focused on commercial banks due to its role as the country's largest and most significant fund provider in the Malaysian banking system. Until 2012, commercial banks

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### Appendices

Table 6

Descriptive statistic

stats	roaa	cap	ln_ta	loanta	llp_loan	cpi	gdp	dum_0709	dum_fo~n
mean p50 min sd max	.0056367 .0111718	.0761316 .0065035 .0323199	17.55615 13.94309 1.591939	.568086 .0042582 .2185283	.004732 .0047574 0162491 .0068655 .0441398	2.027353 .5833084 1.494732	5.585031 -1.513683 2.693518	0	.6 1 0 .491657 1

Table 7

Multicollinearity

. corr (obs=135)

	code	year	roaa	cap	ln_ta	loanta	11p_loan	срі	gdp	dum_0709	dum_fo~n
code	1.0000										
year	0.0620	1.0000									
roaa	-0.3186	-0.2797	1.0000								
cap	-0.1780	0.0395	0.1657	1.0000							
ln_ta	-0.2457	0.0383	0.2848	-0.1619	1.0000						
loanta	-0.1505	0.0391	0.2069	-0.2621	0.4797	1.0000					
llp_loan	-0.1477	-0.3252	0.2924	-0.2755	0.1640	0.3145	1.0000				
cpi	0.0087	-0.3511	0.1241	-0.0578	-0.0367	-0.0407	0.0137	1.0000			
gdp	0.0058	0.0268	0.0344	-0.0077	0.0076	-0.0355	-0.0607	0.3401	1.0000		
dum_0709	-0.0206	-0.4544	-0.0182	-0.0746	-0.0155	-0.0289	0.1489	0.0749	-0.5130	1.0000	
dum_foreign	0.4386	0.0314	-0.1906	0.0535	-0.6855	-0.3765	-0.2355	0.0048	0.0037	-0.0108	1.0000

Table 8

### **OLS** regression

. (10 vars, 140 obs pasted into editor)
- preserve
reg roaa cap ln\_ta loanta llp\_loan cpi gdp dum\_0709

Source	SS	df	MS			Number of obs F( 7, 127)	=	135 6.20
Model Residual	.004113131 .012029812	7 127		058759 0094723		Prob > F R-squared Adj R-squared	= 0 = 0	.0000
Total	.016142943	134	.00	012047		Root MSE		00973
roaa	Coef.	Std.	Err.	t	P> t	[95% Conf.	Inte	rval]
cap ln_ta loanta llp_loan cpi gdp dum_0709 _cons	.1081713 .0017774 .0035719 .5123356 .0012154 0001381 0014641 0131653	.0277 .0006 .0046 .1331 .0006 .0004 .0021	096 796 068 253 088 099	3.90 2.92 0.76 3.85 1.94 -0.34 -0.69 -1.25	0.000 0.004 0.447 0.000 0.054 0.736 0.489 0.212	.0533286 .0005712 0056883 .2489412 000022 000947 0056393 0339368	.00 .77 .00 .00	63014 29836 12832 57301 24528 06708 27111 76062

Table 9

### **Fixed effect estimation**

Fixed-effects Group variable		ression		Number (	_	= 135 = 20
	= 0.3105 n = 0.2174 l = 0.0360			Obs per	group: min = avg = max =	= 6.8
corr(u_i, Xb)	= -0.9300			F( <b>7,108</b> ) Prob > 1		= 6.95 = 0.0000
roaa	Coef.	Std. Err.	t	P> t	[95% Conf.	. Interval]
cap In_ta Ioanta Ilp_Ioan cpi gdp dum_0709 _cons	.0951038 0129875 .0225087 .2580037 .0007647 .0000508 0016822 .2342973	.0537797 .0035385 .0136216 .1314257 .000499 .0003235 .0017697 .0641275	1.77 -3.67 1.65 1.96 1.53 0.16 -0.95 3.65	0.080 0.000 0.101 0.052 0.128 0.875 0.344 0.000	0114970200013004491500250490002244000590300519	.2017046 0059736 .049509 .5185122 .0017537 .000692 .0018257 .3614091
sigma_u sigma_e rho	.02366991 .00755409 .90756249	(fraction	of variar	ice due to	o u_i)	
F test that a	ll u_i=0:	F( <b>19</b> , <b>108</b> )	= 5.4	1	Prob >	F = 0.0000

Table 10 OLS regression for dummy foreign

- . (10 vars, 140 obs pasted into editor) preserve
- preserve

reg roaa cap ln\_ta loanta llp\_loan cpi gdp dum\_foreign

Source Model Residual	.004217337 .011925606	7 127	.000602477 .000093902			Number of obs F( 7, 127) Prob > F R-squared Adj R-squared	= 6.42 = 0.0000 = 0.2612
Total	.016142943	134	.00	0012047		Root MSE	= .00969
roaa	Coef.	Std.	Err.	t	P> t	[95% Conf.	Interval]
cap ln_ta loanta llp_loan cpi gdp dum_foreign _cons	.1142227 .0023922 .0042132 .5300393 .001112 .0000209 .0030123 0275048	.0278 .0007 .0046 .1334 .000 .0003 .0023	822 404 472 594 331 848	4.11 3.06 0.91 3.97 1.87 0.06 1.26 -1.87	0.000 0.003 0.366 0.000 0.064 0.950 0.209 0.064	.0591947 .0008445 0049694 .2659713 0000635 0006383 0017069 0566155	.1692508 .0039399 .0133957 .7941072 .0022875 .0006801 .0077314 .001606