

LONG-RUN PERFORMANCE OF IPOs: COMPARISON BETWEEN CARS AND BHARS

KINERJA JANGKA PANJANG IPO: PERBANDINGAN ANTARA CARS DAN BHARS

THESIS

By:
Anggraeni Putri Manikam

NIM 090810251011

JEMBER UNIVERSITY
FACULTY OF ECONOMICS
2013



LONG-RUN PERFORMANCE OF IPOs: COMPARISON BETWEEN CARs AND BHARs

KINERJA JANGKA PANJANG *IPOs*: PERBANDINGAN ANTARA *CARs* DAN *BHARs*

THESIS

A Thesis submitted in Partial Fulfillment of the Requirement for the Award of Bachelor of Economics (Management)

By:

Anggraeni Putri Manikam 090810251011

UNIVERSITY OF JEMBER
FACULTY OF ECONOMICS
2013

Ministry of Education and Culture

<u>University of Jember – Faculty of Economics</u>

STATEMENT OF THESIS AUTHENTICITY

Name : Anggraeni Putri Manikam

Identification Number: 090810251011

Department : Management

Concentration : Financial Management

Thesis Title : Long-run Performance of IPOs: Comparison between CARs

and BHARs

Certify that this thesis does not incorporate, without acknowledgement, any material previously submitted for a diploma in any institution of higher education and that, to the best of my knowledge and belief, it does not contain any material previously published or written by another person except where due reference is made in the text. I am aware of the potential consequences of any breach of the procedures and guidelines, e.g. cancellation of my academic award.

Jember, June 2013

Anggraeni Putri Manikam NIM 090810251011

SUPERVISOR'S APPROVAL

Thesis Title : Long-run Performance of IPOs: Comparison between CARs

and BHARs

Name : Anggraeni Putri Manikam

Identification Number: 090810251011

Department : Management

Concentration : Financial Management

Approval Date : 19 June 2013

Supervisor II

Supervisor I

Prof. Dr. Hj. Isti Fadah, SE., M.Si

NIP. 19661020 199002 2 001

Prof. Tatang AG., M.Buss., Acc., Ph.D

NIP. 19661125 199103 1 002

Approved by,

Head of Management Department

Prof. Dr. Hj. Isti Fadah, SE., M.Si

NIP. 19661020 199002 2 001

APPROVAL OF THE EXAMINATION COMMITTEE

LONG-RUN PERFORMANCE OF IPOS: COMPARISON BETWEEN CARS AND BHARS

This thesis is prepared and compiled by:					
Name	: Anggraeni Putri Manikam				
Identification Number: 090810251011					
Department	: Management				
It has been defended before the Examination Committee on the date:					
	27 June 2013				
and declared to fulfill all complete requirements to be accepted as graduate at the					
Faculty of Economics, University of Jember.					
Examiners:					
1. The Chairperson	: Hadi Paramu, S.E., MBA., Ph.D.	: ()			
	NIP 19690120 199303 1 002				
2. The Secretary	: Prof. Dr. Hj. Isti Fadah, SE., M.Si	: ()			
	NIP. 19661020 199002 2 001				
3. The Member	: Prof. Tatang A.G., M.Buss.Acc., Ph.D.	: ()			
	NIP. 19661125 199103 1 002				

Approved By,
Dean of Faculty of Economics
University of Jember

<u>Dr. Moehammad Fathorrazi, M.Si.</u> NIP. 19630614 199002 1 001

DEDICATION

This thesis is honorably dedicated to:

- 1. My parents: (Alm) Ir. Saiful Bachri and Dyah Untari Widyowati; for their love and continued support.
- 2. My brother and his wife: Pandu Bagaskara and Fitri Rahayuningsih; for their understanding and support.
- 3. Prof. Tatang AG., M.Buss., Acc., Ph.D and Prof. Dr. Hj. Isti Fadah, SE., M.Si; for their encourage, guidance, and advice in their capacity as supervisor.

MOTTO

You are what you think you are.
(Anonym)

SUMMARY

Long-run Performance of IPOs: Comparison between CARs and BHARs; Anggraeni Putri Manikam; 090810251011; 2013; 39 pages; Management Department Faculty of Economics Jember University

Initial Public Offerings is public offering in which the company offers a partial ownership in the form of shares at specified price with the expectation of increasing value of the company in the long-run. Some researchers have different views about the phenomenon of long-run performance. Some of them find the underperformance of long-term return performance and the others find the outperformance. Apart from long term underperformance, there is also different opinion among researchers in measuring the long-run performance. Ahmad-Zaluki et al. (2007) find that abnormal returns measurement in long-run has different results according to the method used. This study is conducted to examines the long-run performance of initial public offering (IPO) and the differences of long-term return performance results after IPO using two different methods, cumulative abnormal returns (CARs) and Buy-and-Hold Abnormal Returns (BHARs) in Indonesian Stock Exchange in Indonesia Stock Exchange in 2005-2009.

This study is examined three variables, namely Market Adjusted Initial Return (MAIR) on first day trading, CARs and BHARs to determine short-run performance, long-run performance, and differences of CARs and BHARs in measure long-run performance. For comparative purpose, real return (RR) of firm in the short-run also examined. Each variable are divided into full sample and subsamples, which are firm size, and B/M ratio. The rank of firm size and B/M ratio are conducted to determine the firm conducted IPO performance based on them. MAIR is examined using one sample Wilcoxon-test while CARs and BHARs are compared using paired samples t-test and Wilcoxon test.

The results of the long-run performance of IPOs due to CARs and BHARs are generally underperformed especially in low firm size and B/M ratio. Comparison of CARs and BHARs in full sample and firm size group ranks is significant different while in B/M ratio group ranks is not significant different.

FOREWORD

First and foremost, I would like to express my greatest gratitude to Allah, for all of his gift so I can finish my thesis entitled "Long-run Performance of IPOs: Comparison between CARs and BHARs".

I would like to express my deepest appreciation and sincerest thanks to the following people:

- 1. My first consultant, Prof. Tatang A. Gumanti, M.Buss, Acc, Ph.D and my second consultant, Prof. Dr. Hj. Isti Fadah, SE., M.Si for the guidance and valuable suggestions that helped me compile and finish my thesis.
- 2. The lecturers who have taught and given me a lot of knowledge.
- 3. My big family and my classmate for their care and support.
- 4. Nanda Novrianto, for his love, care, and support.

Finally, I hope this thesis will provide some advantages to the readers. Any criticism, suggestions, and input will be appreciated to make this thesis better.

Jember, June 2013

Writer

TABLE OF CONTENTS

TITLE PAGE	i
STATEMENT OF THESIS AUTHENTICITY	ii
SUPERVISOR'S APPROVAL	iii
APPROVAL OF THE EXAMINATION COMMITTEE	iv
DEDICATION	v
MOTTO	vi
SUMMARY	vii
FOREWORD	viii
TABLE OF CONTENTS	ix
TABLE LIST	xi
FIGURE LIST	xii
APPENDIX LIST	xiii
CHAPTER 1 INTRODUCTION	1
1.1 Background	1
1.2 Problem Formulation	3
1.3 Research Objectives	3
1.4 Research Benefits	3
CHAPTER 2 LITERATUR REVIEW	5
2.1 Theoretical Background	5
2.1.1 Initial Public Offerings	5
2.1.2 Long-run Performance Theory	6
2.1.3 Cumulative Abnormal Returns (CARs) as a Measure of Long-run	
Performance	7
2.1.4 Buy-and-Hold Abnormal Returns (BHARs) as a Measure of Long-run	
Performance	8
2.2 Prior Studies	9
2.3 Conceptual Framework	10
2.4 Hypothesis	11
2.4.1 Long-run Performance of IPOs	11
2.4.2 Comparison of CARs and BHARs	11
CHAPTER 3 RESEARCH METHOD	13
3.1 Research Design	13
3.2 Population and Sample	13
3.3 Types and Sources of Data	14
3.4 Operational Definition of Variables	14
3.4.1 Initial Return	14
3.4.2 Firm Size	14
3.4.3 Book-to-Market (B/M) Ratio	15
3.4.4 Cumulative Abnormal Returns	15
3.4.5 Buy-and-Hold Abnormal Returns	15

3.5 Method of Analysis	15
3.5.1 Calculation of Initial Return	15
3.5.2 Calculation of Book-to-Market Ratio	15
3.5.3 Calculation of CARs	16
3.5.4 Calculation of BHARs	16
3.5.5 Normality Test	17
3.5.6 Hypothesis Test	17
3.6 Framework of Problem Solving	19
CHAPTER 4 RESULTS AND DISCUSSION	22
4.1 Description of Sample	22
4.2 Results of Data Analysis	23
4.2.1 Descriptive Statistics of Initial Return	23
4.2.2 Descriptive Statistics of Cumulative Abnormal Returns	25
4.2.3 Descriptive Statistics of Buy-and-Hold Abnormal Returns	26
4.2.4 Normality Test	27
4.2.5 Market Adjustment Initial Return Test	28
4.2.6 CARs and BHARs Test	30
4.3 Discussion	32
4.3.1 Short-run Performance after IPO	32
4.3.2 Long-run Performance after IPO	33
4.3.3 Comparison of BHARs and CARs	34
CHAPTER 5 CONCLUSION AND SUGGESTION	38
5.1 Conclusion.	38
5.2 Suggestion	38
REFERENCES	40
APPENDIX	42

TABLE LIST

	Pages
4.1 Process of choosing Research Sample	22
4.2 Distribution of Sample Firm Based on Years Sector	23
4.3 Descriptive Statistics MAIR and RR	24
4.4 Descriptive Statistics of Cumulative Abnormal Returns	25
4.5 Descriptive Statistics of Buy-and-Hold Abnormal Returns	26
4.6 Normality Test of MAIR and RR	27
4.7 Normality Test Result of CARs and BHARs	28
4.8 Results of One Sample t-test and Wilcoxon test	29
4.9 Full Sample Comparison of BHARs and CARs	30
4.10 Comparison of BHARs and CARs based on Firm Size	31
4.11 Comparison of BHARs and CARs based on Book-to-Market	32

FIGURE LIST

	Pages
2.1 Conceptual Framework	10
3.1 Framework of Problem Solving	20

APPENDIX LIST

		Pages
1	Population List of Firms Conducted IPO in Period 2005-2009	42
2	Sample List of Firms Conducted IPO in Period 2005-2009	44
3	The Calculation of CARs and BHARs Based on Firm Size Rank	45
4	The Calculation of CARs and BHARs Based on Book-to-Market Ratio	
	Rank	47
5	Descriptives and Normality Test of MAIR, RR, CARs, and BHARs	49
6	One Sample t-test of MAIR and RR	59
7	One Sample Wilcoxon-test of MAIR and RR	62
8	Calculation of z-value in Full Sample of MAIR and RR	63
9	Paired Sample t-test of CARs and BHARs	64
10	Paired Sample Wilcoxon-test of CARs and BHARs	65
11	Lower and Upper Critical Value of Wilcoxon Signed Ranks Test	67