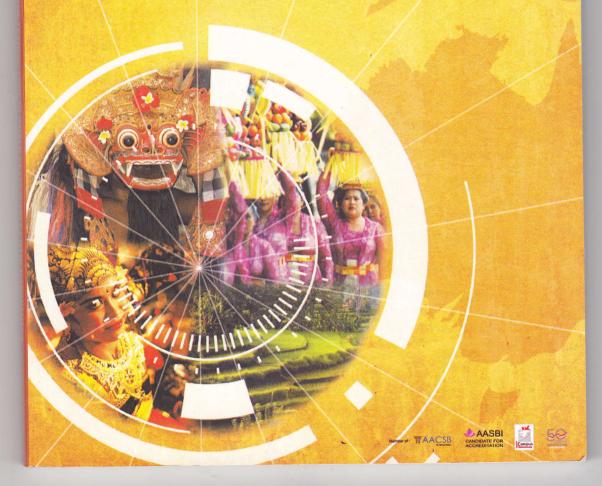






Department of Management Faculty Of Business and Economics Universitas Surabaya

CHALLENGES AND OPPORTUNITIES OF THE LEADING EDGE IN WORLD CLASS SUPPLY CHAIN MANAGEMENT



PROCEEDING

THE 10th INTERNATIONAL ANNUAL SYMPOSIUM ON MANAGEMENT

CHALLENGES AND OPPORTUNITIES OF THE LEADING EDGE IN WORLD CLASS SUPPLY CHAIN MANAGEMENT

Bali, March 16th, 2013

Department Of Management Faculty of Business and Economics Universitas Surbaya

Proceeding

The 10^{th} UBAYA International Annual Symposium on Management

CHALLENGES AND OPPORTUNITIES OF THE LEADING EDGE IN WORLD CLASS SUPPLY CHAIN MANAGEMENT

Editors:

Werner R. Murhadi, Dr Prita Ayu, MM

Reviewers:

Candra S. Chayadi, Ph.D. (School of Business, Eastern Illinois University)

Dudy Anandya, Dr (Universitas Surabaya)

Joniarto Parung, Ph.D, Prof. (Universitas Surabaya)

Ning Gao, Ph.D. (Manchester Business School)

Wahyu Soedarmono, Ph.D. (Research Analyst, The World Bank, Jakarta)

Yuanto Kusnadi, Ph.D. (City of Hongkong University)

Published by:

Department of Management, faculty of Business & Economics Universitas Surabaya

Jl. Raya Kalirungkut

Surabaya, Indonesia 60293

Phone : +62-31-2981139

Fax : +62-31-2981239

ISBN: 978-979-99365-7-8

Copyright © 2013 Department of Management, faculty of Business & Economics, Universitas Surabaya

FOREWORD

This proceeding is a compilation of papers submitted for The 10th International Annual Symposium on Management (Insyma) conducted by the Department of Management, Faculty of Business and Economics, Universitas Surabaya. This year's theme of the symposium is Challenges and Opportunities of the Leading Edge in World Class Supply Chain Management.

In this opportunity, we would like to share our grateful to the institutions (National and abroad) who send their lecturer or researcher to our symposium. This symposium is to provide a sharing forum for researcher, academics, and practitioners engaged in basic and applied research in Supply Chain Management. This theme represents an emerging and highly challenging and opportunities area of research and practice. One of the most significant paradigm shifts of modern business management is that individual business no longer compete as solely autonomous entities, but rather as supply chains. Business management has entered the era of internetwork competition. In this emerging competitive environment, the ultimate success of the single business will depend on management's ability to integrate the company's intricate network of business relationships. The supply chain is not a chain of businesses with one-to-one, business-to-business relationships, but a network of multiple business and relationships. SCM deals with total business process excellence and represents a new way of managing the business and relationships with other members of the supply chain. Successful supply chain Management requires cross-functional integration must play a critical role. The challenge is to determine how to successfully accomplish this integration.

This symposium aims to bring together different points of view from academics, business practitioners, government agencies, and international institutions with the ultimate goal to share and disseminate various ideas and practices in Supply Chain Management.

Finally, we hope that this compilation of papers, ranging from a conceptual work to an empirical research, can enrich our perspective in supply chain management and its application in creating higher level of competitiveness.

Bali, March 16th, 2013

TABLE OF CONTENTS

FORE	EWORD	Ī
TABI	LE OF CONTENTS	1
1.	THE EFFECT OF FINANCIAL RATIOS TO STOCK PRICE IN SEVERAL COMPANIES LISTED IN SRIKEHATI GROUP IN INDONESIA STOCK EXCHANGE Rosemarie Sutjiati Njotoprajitno	1
2.	HIERARCHICAL INNOVATION MODEL DEVELOPMENT IN INDONESIAN PHARMACEUTICAL INDUSTRI Syuhada Sufian	1
3.	PLACEMENT EFFECTIVENESS OF AUTOMATIC TELLER MACHINE ON INDONESIAN PRIVATE BANKING Victor Wianto, Agus Zainul Arifin	100
4.	FACTORS INFLUENCING THE SUPPLY CHAIN PERFORMANCE (A STUDY OF MANUFACTURING FIRMS IN INDONESIA) Lina Anatan	4
5.	CONSUMER BEHAVIOR AND INDONESIAN VALUES SCALE: VALIDATION AND SHORT-FORM SCALE DEVELOPMENT Sabrina O. Sihombing	4
6.	CONTRASTING REFLECTIVE AND FORMATIVE MODELS ON E-SERVICE QUALITY: AN EMPIRICAL STUDY Jessica Adelaide Gusti, Sabrina O. Sihombing	6
7.	THE PREDICTIVE MODEL OF RELATIONSHIP BETWEEN ROLE STRESS, PERSONALITY, AND SALES PERFORMANCE IN SERVICES MARKETING Verina H. Secapramana	
	1	

8.	EFFECT OF COMPETENCE, TRAINING, MOTIVATION EMPLOYEE PERFORMANCE AGAINST PT THIESS CONTRACTORS INDONESIA AT BALIKPAPAN Didik Hadiyatno, Misna Ariani	8
9.	POLICY INTEGRATION FOR HOUSEHOLD WASTE MANAGEMENT THROUGH ESTABLISHMENT OF WASTE BANK Etty Soesilowati, Sri Utami	9
10.	THE ROLE OF EVENT SPONSORSHIPIN PROMOTING TOURIST ENTHUSIASM (STUDIES IN SEMARANGGREAT SALE EVENT) Yudi Pramudiana, Arinda Ike Wardhani	10
11.	DEVELOPING A CONCEPTUAL MODEL OF HOTEL'S NETWORK OF BUSINESS RELATIONSHIPS IN THE HOTEL INDUSTRY: THE CASE OF HOTELS IN BALI, INDONESIA Nyoman Indah Kusuma Dewi	11
12.	THE EXISTING MODEL IDENTIFICATION OF CUCURBITA Sp (YELLOW PUMPKIN) AGRO INDUSTRY SUPPLY CHAIN MANAGEMENT IN GETASAN SUB-DISTRICT, SEMARANG REGENCY Agustine Eva Maria Soekesi, Meniek Srining Prapti, Inneke Hantoro, Alberta Rika Pratiwi	13
13.	THE ANALYSIS OF INTERNAL AND EXTERNAL FACTORS IN FORMULATING COMPETITIVE STRATEGIES ON SKULL-CAP AND TAMBOURINE INDUSTRIES IN BUNGAH VILLAGE - GRESIK Sri Setyo Iriani, Monika Tiarawati	15
14.	AND PARENTAL BACKGROUND: EVIDENCE FROM THE BLOK	17
15.	THE INFLUENCE OF TOTAL QUALITY MANAGEMENT (TQM) APPLICATIONS TO SALES RAISING AT PT. KERETA API	

	INDONESIA (PERSERO) BANDUNG THE 2 ND OPERATIONS AREA R. Ait Novatiani, Pondang
16.	INFLUENCE OF PARTNERSHIP SRATEGIC TO PERFORMANCE OF PRIVATE COLLEGE IN BANDUNG Dini Arwati, Dini Verdania
17.	EFFECT OF RELATIONAL QUALITY AND ENTREPRENEUR ORIENTATION TOWARD FRANCHISEE PERFORMANCE IN INDONESIA Lim Sanny
18.	INFLUENCE OF TRUST IN SUPPLIER AND TRUST IN BRAND ON THE PURCHASE AND ATTITUDINAL LOYALTY FOR RETAILER AT PT SINAR SOSRO IN SURABAYA Christina Esti Susanti
19.	EFFECT CAPITAL ADEQUANCY RATIO (CAR) AND NON PERFORMING LOAN (NPL) ON RETURN ON ASSET (ROA) BANKING IN INDONESIA (SURVEY ON INDONESIA STOCK EXCHANGE /IDX) Rima Rachmawati, Priska Amelia
20.	CASE STUDY: A PROJECT OF IMPROVEMENT ON THE DESIGN OF JOBS/WORKS FOR PROFESSIONAL WORKERS AT PT. BUKIT BATUBARA TBK – THE YEAR OF 2011/2012 WITH RECOMMENDATION: IMPLEMENTATION OF A CONTRIBUTOR MODEL IN CAREER MANAGEMENT FOR PROFESSIONAL WORKERS T. Soemarman.
21.	IMPACT OF INTELLECTUAL CAPITAL ON THE FIRM'S MARKET VALUE: THE MEDIATION ROLE OF FINANCIAL PERFORMANCE (EMPIRICAL STUDY FROM THE INDONESIAN BANKING COMPANIES SINCE 2007-2011) Sri Harryani, Bagus Nurcahyo, Renny Nur'aini

22.	THE EFFECT OF ECONOMIC GROWTH ON THE NUMBER OF POOR PEOPLE IN INDONESIA, PERIOD 1994-2010	
	Sugiartiningsih	28
23.	CLUSTER BUSINESS DEVELOPMENT AT THE MICRO, SMALL AND MEDIUM ENTERPRISES	
	Wasifah Hanim	29
24.	PRODUCT QUALITY CONTROL PROFILE ON LASEM BATIK CENTRE	
	Agustine Eva Maria Soekesi	30
25.	BETTER INVESTMENT CHOICE IN CRISIS AND AFTER CRISIS: STOCK VERSUS GOLD	
	Eka Darmadi Lim, Liliana Inggrit Wijaya	32
26.	CAN INNOVATION OF TIME DRIVEN ABC SYSTEM REPLACE CONVENTIONAL ABC SYSTEM?	
	Tan Ming Kuang	33
27.	COST EFFECTIVENESS ANALYSIS OF DIURETICS THERAPY FOR ASCITES IN HEPATIC CIRRHOSIS PATIENTS AT ADI HUSADA UNDAAN WETAN HOSPITAL IN SURABAYA	
	Doddy de Queljoe, Amelia Lorensia, Indri purnama Putri	34
28.	EXAMINING VIRTUAL RECRUITING ENVIRONMENT FEATURES OF INDONESIA CORPORATE WEB SITE	
	Yenny Purwati, Rosaly Franksiska, Eristia Lidia Paramita	36
29.	THE EFFECTS OF INTERPERSONAL COMMUNICATION AND MOTIVATION TO PRODUCTIVITY OF EMPLOYEES AT HOTEL MULIA JAKARTA	
	I Gede Adiputra	38
30.	THE SURVIVAL OF SMALL RESTAURANTS: MICRO ANALYSIS	
20.	OF NON CLASSIFIED RESTAURANTS IN KUTA SELATAN, BALI	
	Ida Bagus Made Wiyasha, Ni Luh Suastuti	39

- 31. SUPPLY CHAIN MANAGEMENT: STRATEGY IN INFORMATION TECHNOLOGY TO REDUCE COST Meythi, Riki Martusa.....
- 32. EVALUATING THE FINANCIAL PERFORMANCE USING THE GROWTH OF EPS, CFO, AND EVA AND THEIR IMPACT TO THE STOCK RETURN OF LISTED TELECOMMUNICATION INDUSTRY IN BEI Suskim Riantani, Harry Setyo Negoro, Alfiah Hasanah
- 33. EFFECT OF APPLICATION CORPORATE SOCIAL RESPONSIBILITY ON IMAGE PT . ANTAM UNIT PASCATAMBANG KIJANG Sutama Wisnu D, Budi Astuti.......
- 34. LEADERSHIP AND FIVE STAGE MODEL OF ORGANIZATION GROWTH AT UD "RAMA JAYA"

 May Eka Saputri, Liliana Inggrit Wijaya.....
- 35. VALUE CHAIN CONCEPT ON STRATEGIC CSR PROGRAM: A CASE STUDY OF MARTHA TILAAR GROUP Dianne Frisko.....
- 36. DEFINE THE CRITERIA TO IDENTIFY CORE AND NON-CORE ACTIVITIES TO LEVERAGE THE COMPANY'S COMPETIITIVENESS AND STRENGTHENING THE PARTNERSHIP WITH OTHERS Alain Widjanarka.....
- 37. DETERMINANTS OF THE DECISION TO BUY AND SELL MUTUAL FUNDS IN INDONESIA
 Irene Rini Demi Pangestuti......
- 38. A COMPARATIVE STUDY ON RETURN STOCKS BETWEEN VALUE STOCKS AND GROWTH STOCKS IN THE GO PUBLIC COMPANIES AT THE INDONESIAN STOCK EXCHANGE (PERIOD OF 2006-2010)
 Panji Aditya Evindo, Nadia Asandimitra Haryono.......

39.	FOREIGN DIRECT INVESTMENT IN ASEAN, 1994-2010: DOES THE CHINA EFFECT EXIST? Yulius Pratomo	48
40.	THE RELATIONSHIP BETWEEN THE LEVEL OF THE USE OF ERP SYSTEM, SCM,STRATEGIC ALIGNMENT,AND FIRM PERFORMANCE USING BALANCED SCORECARD APPROACH Weli Imbri	49
41.	INTERNAL AUDIT QUALITY ROLE IN IMPROVING EFFECTIVENESS OF QUALITY MANAGEMENT SYSTEM ISO 9001:2000 (Case Study PT INTI Bandung) Christine Dwi K.S., Sondang M.R., Adriana Oktarina Sembiring	50
42.	THE IMPACT OF RELATED PARTIES' TRANSACTIONS TO MARKET VALUATION OF FIRMS Niki Jayanthi, Felizia Arni Rudiawarni	52
43.	TRANSITION OF IFRS IN INDONESIA: FINANCIAL POSITION, FINANCIAL PERFORMANCE AND KEY FINANCIAL INDICATORS EFFECTS Stephanie Susilo, Felizia Arni Rudiawarni	53
44.	INFLUENCE OF JOB MOTIVATION AND JOB SATISFACTION ON EMPLOYEE PERFORMANCE IN ASURANSI JIWA BERSAMA (AJB) BUMIPUTERA 1912 SURABAYA REGIONAL OFFICE Agus Frianto, Ayu Septirini	55
45.	INNOVATION SUCCESS IN SMALL BUSINESS CONTEXT: AN EMPIRICAL EVIDENT FROM INDONESIA Aluisius Hery Pratono, Suyanto	56
46.	FACTORS INFLUENCE INDONESIAN YOUNG CONSUMERS' ONLINE PURCHASE INTENTION IN SOCIAL MEDIA WEBSITES Levina Rolanda Tjia, Christina R. Honantha	57
47.	CAREER DEVELOPMENT OF CREATIVITY REVIEWED, AND COURAGE IN BUSINESS INNOVATIVE MULTI-LEVEL	

- MARKETING (MLM) DISTRIBUTOR ORIFLAME DENPASAR Luh Kadek Budi Martini.....

- 52. GAUGING THE FINANCIAL PERFORMANCE OF BANKING USING CAMEL MODEL: THE PROSPECT OF ISLAMIC BANK IN INDONESIA ACCORDING TO PUBLIC TRUST COMPARED WITH CONVENTIONAL BANK Yohanna Handjaja, Deddy Marciano, Liliana Inggrit Wijaya
- 53. THE INFLUENCE OF MANAGEMENT PERFORMANCE AND INTELLECTUAL CAPITAL TOWARD THE FIRM VALUE Agus Wahyudi Salasa Gama, Ni Wayan Eka Mitariani.....

54.	THE ROLE OF POWER AND CONFLICT RESOLUTION IN SUPPLY CHAIN RELATIONSHIPS: SMALL AND MEDIUM-SIZED ENTERPRISES CONTEXT Amak Mohamad Yaqoub, Indri Apriani Rahma Pratama	67
55.	THE INFLUENCE OF PROSPECTOR AND DEFENDER STRATEGIES ON PERFORMANCE WITH DIMENSIONS OF SOCIAL CAPITAL AS MODERATING VARIABLES Bambang Suko Priyono	68
56.	ACTIVITY PERFORMANCE ANALYSIS OF SUPPLY CHAIN PERFORMANCE OF ACTIVITY MODEL APPROACH STUDY AT UKM KRIPIK BUAH KEBONSARI Choirum Rindah Istiqaroh, Saraswati Budi Utami	69
57.	THE INFLUENCE OF FINANCIAL PERFORMANCE {EPS (EARNING PER SHARE), PER (PRICE EQUITY) AND ROA (RETURN ON ASSETS)} TO SHARE PRICE INDEX EARNING RATIO), DPR (DEVIDENT PAYOUT RATIO), ROE (RETURN ON EQUITY) AND ROA (RETURN ON ASSETS)} TO SHARE PRICE INDEX Dheo Rimbano, Sardiyo, Maulana	71
58.	THE RELEVANCY OF USING WEBSITE FOR PROMOTING HEALTH CARE PRODUCT AND SERVICES Edo Sri Harsanto, Naafilah Lailatirrohmah	73
59.	EMOTIONAL ATTACHMENT AS A MEDIATOR OF THE RELATIONSHIP BETWEEN SERVICE QUALITY AND EMOTIONAL BRAND Rendy May Fandi, Efendi	74
60.	MALMI AND BROWN'S MANAGEMENT CONTROL SYSTEM IN PRODUCTION AREA: A CASE STUDY IN PT DS SURABAYA Fandy San Kartawidjaja, Fidelis Arastyo Andono	75
61.	THE EFFECT OF FINANCIAL CONDITION, THE FAILURE OF DEBT RATIO, FIRM SIZE AND PUBLIC ACCOUNTING	

	REPUTATION ON ACCEPTANCE OF GOING CONCERN OPINION Hendro Lukman, Stevanus Adree Cipto Setiawan
62.	EFFECT OF INVESTMENT OPPORTUNITY SET ON CASH DIVIDEND POLICY WITH AVERAGE OF SALES GROWTH ON EVERY LIFE CYCLE AS A MODERATING VARIABLE (STUDIES ON MANUFACTURING COMPANIES IN INDONESIA STOCK
	EXCHANGE) I Dewa Made Endiana
63.	THE EFFECT OF AGE, LEVEL OF EDUCATION, AUDITORS WORK EXPERIENCE AND TYPE OF BUSINESS CLIENT ON THE AUDIT DELAY PUBLIC ACCOUNTANT IN BALI I Gede Cahyadi Putra.
64.	GOOGLE SEARCH TRAFFIC AND IT'S INFLUENCE ON RETURN, LIQUIDITY AND VOLATILITY OF STOCK RETURN EMPIRICAL STUDY: MANUFACTURING FIRMS IN INDONESIA STOCK EXCHANGE Berto Usman, Eduardus Tandelilin
65.	PENETRATING INDONESIAN BANK ASSURANCE MARKET: STRATEGIC MANAGEMENT, PT. ASURANSI CIGNA – INDONESIA STYLE Suresh Kumar, Randy Prasetyo
66.	COLLABORATION STRATEGY ON INDUSTRIAL CLUSTER (THE NEW STRATEGY OF THE NEW ERA) Noviaty Kresna Darmasetiawan
67.	FISH DISTRIBUTION SYSTEM DESIGN (CASE STUDY: FISH AUCTION PLACE SIDOARJO) Verani Hartati, Wiwik Sulistiyowati
68.	SELF-CONCEPT AND SELF-EFFICACY FOR BUILDING AN ACADEMIC PERFORMANCE: SISTEMATIC REVIEW APPROACH Jun Surjanti, Dwiarko Nugrohoseno, Sanaji

69.	TOTAL QUALITY MANAGEMENT IN EDUCATION (TQME): PROSPECTIVE STRATEGY FOR HIGHER EDUCATION INSTITUTION Ratna Widiastuti
70.	THE ROLE OF ENVIRONMENTAL UNCERTAINTY AND IMPLEMENTATION SUPPLY CHAIN FOR INCREASING COMPETITIVE ADVANTAGE MANUFACTURING INDUSTRIES IN EAST JAVA
	Sahnaz Ubud
71.	INCREASING WHOLESALE CENTERS ROLE AS PART OF SUPPLY CHAIN MANAGEMENT OF SMES
	Kabul Wahyu Utomo, Ludwina Harahap, Lely Dahlia 86
72.	COLLECTIVE ENTREPRENEURSHIP PARADIGM AS A PATTERNSFOR COOPERATIVE DEVELOPMENT IN KULONPROGO REGENCY, 2013
	Lely Dahlia
73.	THE EVALUATION OF USING IMPORTANCE PERFORMANCE ANALYSIS (IPA) TO DESIGN SERVICE EXCELENCE PROGRAM Mudiantono, Rizal Hari Magnadi
74.	IMPROVEMENT BANK CUSTOMER SATISFACTION WITH SERVICE QUALITY ABSTRACT
	Yetty Dwi Lestari
75.	STRATEGIES TO IMPLEMENT THE CHANGES IN THE BASIS OF CASH TRANSFER FROM A HOUSEHOLD-BASE TO A FAMILY-BASE: THE CASE OF PKH IN INDONESIA
	Muhammad Nashihin
76.	CORPORATE GOVERNANCE, SUSTAINABILITY, AND ISLAMIC BANKING PERFORMANCE
	Rohmawati Kusumaningtias92

//.	MANAGEMENT IN INDONESIAN BUSINESS ACTIVITY Aris Armuninggar
78.	THE IMPACT OF THE USE OF OUTSOURCING EMPLOYEE AGAINST PRODUCTIVITY COMPANIES IN PT.PINDAD BANDUNG Sri Wiludjeng S. P., Muhammad Madyosa Ibrahim
79.	SUSTAINABLE BUSINESS INNOVATION TO WIN THE COMPETITION A CASE STUDY OF INNOVATION BY WAYAN IN BULLFROG FARMING IN BALI Liliana Inggrit Widjaya, Dudi Anandya, Fitri Novika Wijaya
80.	SYSTEMATIC RISK AS MODERATOR OR MEDIATOR OF THE INFLUENCE BETWEEN MACROECONOMIC FUNDAMENTAL FACTORS AND STOCK RETURN Yeye Susilowati.
81.	MANAGING GLOBAL BUSINESS BY MINIMIZING THE EFFECTS OF RUPIAH'S VOLATILITY Christina Yanita Setyawati
82.	THE PERCEPTION OF ADOPTING AN INFORMATION TECHNOLOGY INNOVATION ON THE RURAL BANKS
	OWNED BY LOCAL GOVERNMENT Elen Puspitasari, Ceacilia Srimindarti
83.	MODEL APPLICATION SERVICE LEVEL WITH SERVICE UNITS PER DEMANDED TYPE ON GRESIK CEMENT AND TONASA CEMENT STOCKS IN UD "TJ" DALUNG-DENPASAR-BALI Pertiwi Surya Negara, Juliani Dyah Tresnawati, Budhiman Setyawan.
84.	THE EFFECTIVENESS OF INDEPENDENT COMMISSIONER IN IMPLEMENTING GOOD CORPORATE GOVERNANCE AT INDONESIAN STATE-OWNED ENTERPRISES
	Synthia A. Sari

xiv

 85. INDONESIAN READERS' MOTIVATIONS A TOWARDS DIGITAL PRESS Christina Rahardja Honantha, Dudi Anandya, Indarin 86. MANAGEMENT STYLE OF CHINESE OVERS 	ni 101
MANAGEMENT STYLE OF CHINESE OVERS	EAS COMPANIES
AND INDONESIA COMPANIES Yie Ke Feliana	
87. IMPLEMENTATION OF VALUE CHAIN AN BROILER SUPPLY CHAIN AGRIBUSSINESS Rini Oktavera, Erna Andjani	103
88. IMPACT OF DIVERGENCE BETWEEN VOT FLOW RIGHTS ON PEROMANCE: ULTIMATE INDONESIA	E OWNERSIMI IIV
INDONESIA I Putu Sugiartha Sanjaya	103
89. ACTIVITY COMPLAINT HANDLING TH DEPARTMENT NOVOTEL SURABAYA HOTEL Anita Wongso, Fitri Novika Widjaja	L& SUITES
90. IMPLEMENTATION OF FIVE FORCES ANAL START UP: CASE STUDY OF HERY FARM Maria Assumpta Evi Marlina	105
91. IMPACT OF ACQUISITION OF PT. INDOSIA TBK BY PT. ELANG MAHKOTA TEKNOLOGI, Kazia Laturette	, IDN
92. THE INFLUENCE OF MONETARY POLICE PROFITABILITY OF COMMERCIAL BANKS II Lia Amaliawiati, Edi Winarso	N INDUNESIA
93. OUTSOURCING OR INSOURCING? INVESTIGATION FOR CATERING OPEL AQIQAH" BUSINESS FIRM, SURABAYA H. Johny Rusdiyanto	RATION AT INT

94.	FACTORS THAT INFLUENCED SYNDICATED LOANS DECISIONS IN THE ASEAN OVER THE PERIOD 2006-2010 Anthony Kevin Bandono, Deddy Marciano
95.	THE APPLICATION OF FAMA AND FRENCH THREE FACTORS MODEL AND CAPITAL ASSET PRICING MODEL AT INDONESIAN STOCK EXCHANGE Mudji Utami
96.	THE EFFECTS OF LOGISTICS SERVICE QUALITY AND CUSTOMER SATISFACTION TO CUSTOMER LOYALTY OF DELIVERY ODER SERVICE IN FAST FOOD RESTAURANTS IN
	Juliani Dyah Trisnawati, Veny Megawati, 1110 1130 1150 1150 1150 1150 1150 1150
97.	THE STUDY OF DYNAMIC TRADE-OFF CAPITAL STRUCTURE EXISTENCE TO THE NONFINANCIAL BUSINESS ENTITIES LISTED ON INDONESIA STOCK EXCHANGE DURING PERIOD 2007-2011 Endang Ernawati, Werner R. Murhadi
98.	JUSTICE CLIMATE Joseph L. Eko Nugroho
99	PERKASA (MSP) SURABATA Siti Rahayu, Fitri Novika, Anthony Soenardi Sudartan
10	OO. PERCEPTION OF ACCEPTANCE KOMMUTER TRAIN SIDOARJO- SURABAYA ROUTE TO WORK PLACE AS ALTERNATIVE CHOICE ON PUBLIC TRANSPORTATION WITH PLANNED BEHAVIOR THEORY Moh. Rofik, Nindria Untarini, Yessy Artanti
1	01. THE FACTORS AFFECTING THE COMPANIES CAPITAL STRUCTURE IN THE SECTOR OF INFRASTRUCTURE,

	Julius Irianto Gunawan, Endang Ernawau	121
102.	ANALYSIS EFFECT OF INCENTIVE AND COMPETENCY TO THE WORKING PERFORMANCE OF EMPLOYEES AT SMART MANAGEMENT CONSULTANT PALEMBANG Maulana, Sardiyo	122
103.	ANALYSIS OF FACTORS THAT INFLUENCE CAPITAL STRUCTURE AND TEST DIFFERENT CAPITAL STRUCTURE IN FINANCIALLY CONSTRAINED (FC) AND NON FINANCIALLY CONSTRAINED (NFC) (CASE STUDY MANUFACTURING COMPANY IN THE STOCK EXCHANGE ON THE PERIOD FROM	
	2007 TO 2009) Siti Puryandani, Dewi Mayasari	124
104.	REVEALING THE PREFERENCES IN CONVEYING PRICE	
	INFORMATION Budhi Purwandaya, Eko Kusmurtanto	125
105.	EFFECTIVENESS OF IT GOVERNANCE IN BANKING SECTOR Samuel David Lee, Pandam Rukmi Wulandari, Aris Budi Setyawan	126
106.	THE ROLE OF LEVERAGE IN THE EFFECT OF GOOD CORPORATE GOVERNENCE ON CORPORATE PERFORMANCE Andrea Widianti Maris, Samuel David Lee, Renny Nur'ainy	127
107	. COMPETITIVE BUSINESS ENVIRONMENT, MARKET ORIENTATION, STRATEGIC ORIENTATION AND PERFORMANCE OF SMES (EMPIRICAL STUDY ON SMALL AND MEDIUM INDUSTRIES PEKANBARU CITY) Susi Hendriani, Machasin, Budi Trianto	
108	S. THE EFFECT OF MACRO ECONOMIC TOWARD THE CHANGE OF STOCK PRICE INDEX IN JAKARTA ISLAMIC INDEX Lely Fera Triani, Etty Puji Lestari	S 130

10th UBAYA INTERNATIONAL ANNUAL SYMPOSIUM ON MANAGEMENT

109.	DETERMINANTS	OF	INVES	TMENT	IN	INDONES		
	(MACROECONOMIC	ASSES	SMENT	WITH VA	R MOD	DEL)		
	Etty Puji Lestari, Lely Fera Triani							

110.	COMMUNICATION	EFFECTIVENESS	IN	PT.	SALIM	BROTHERS				
	PERKASA, SIDOARJO									
	Fleve Tandelilin Christina									

https://fbe.ubaya.ac.id

Department of Management Faculty of Business and Economics Universitas Surabaya

Jl. Raya Kalirungkut, Surabaya, 60293 Ph: +62 31 298 1139 | Fax: +62 31 298 1131 email: ubayainsyma@gmail.com | managementsymposium@ubaya.ac.id



ANALYSIS OF THE MACRO ECONOMIC Influence Factors FINANCIAL AND PERFORMANCE COMPANY TO BUILD A MODEL PREDICTION Bankruptcy (STUDY AT LISTED COMPANIES IN IDX FOR YEAR 1999-2010)

Veronica M.Sienly

Maranatha Christian University

Email: lee_pingping@yahoo.com

ABSTRACT

The purpose of this study was to analyze the effect of macroeconomic factors as measured by the rate of inflation, interest rates, gross domestic product and the value of the currency and financial performance factors measured by financial ratios and cash flow ratios either simultaneously or partially in the formation of corporate bankruptcy prediction models, to analyze the effect of the variable cash flow in the formation of corporate bankruptcy prediction models simultaneously and to analyze the accuracy of the company's bankruptcy prediction models based on the models of 3 years, 2 years and 1 year before bankruptcy prediction. The purpose of this research is based on the monetary crisis events that occurred in 1997 when many companies went bankruptcy, many companies in Indonesia roomates has a debt to equity ratio (DER) is greater than one (1) show that the company has a chance more Likely to go bankruptcy and disagree from some of previous research that cash flow should variables included in the formation of bankruptcy prediction models. To Achieve the goals of research, researcher make a macroeconomic hypothesis testing using the data obtained from Bank Indonesia and the value of financial ratios and cash flow ratios obtained from IDX and ICMD. By using purposive sampling method in this research, the research sample was contained of 63 companies 34 companies that are not a bankrupt company and 29 companies are a bankrupt company. The companies are listed in BEI for all sectors except the financial sector with the observation period 1999-2010. In this research the hypothesis testing using logistic regression and the accuracy of bankruptcy prediction models using neural network testing. The results of these tests are simultaneously macroeconomic factors measured by the rate of inflation, interest rates, gross domestic product and the value of the currency and financial performance factors measured by financial ratios and cash flow ratios give effect to the establishment of a prediction of corporate bankruptcy prediction models with the accuracy of prediction models for high bankruptcy 3 years, 2 years and 1 year before the bankruptcy and in cash flow variables simultaneously provide a strong enough influence in the formation of corporate bankruptcy prediction models. Factors only partially financial performance measured by financial ratios and cash flow ratios that give effect to the establishment of corporate bankruptcy prediction models with the accuracy of a company's bankruptcy prediction model of high for model 3 years, 2 years and 1 year before the bankruptcy. Thus, companies need to pay attention to macroeconomic factors, financial ratios, and in particular the cash flow ratios to avoid company from bankruptcy.

Keywords: bankruptcy models, macroeconomic factors, financial ratios, cash flow ratios.

INTRODUCTION

In 1997 there has been a financial crisis that led to fall in the currency is very sharp, it is because Bank Indonesia changed its floating exchange rate system into a system of freely floating exchange rates. With a free floating exchange rate system then creates uncertainty value of the Rupiah against the U.S. dollar, causing a public panic both employers and not (Tarmidi, 1999; Boediono, 2009).

As a result of the stampede is the weakening of the rupiah, rupiah exchange rate in order not to weaken the government's tightening monetary policy by interest rate increases greater than the rate of inflation, it can be seen that in 1998 the SBI interest rate period of one month can reach 70% per annum and the interest rate on bank deposits is higher than the rate SBI (Boediono, 2009).

With the increase in the interest rate raises hike lending rates for business loans and consumer loans. The effect of an increase in mortgage interest rates are felt in the real sector due to rising interest rate, it can increase the cost of capital is interest loans to companies engaged in the real sector (Yudanto & Santoso, 1998).

The currency also leads to inflation because the cost of capital and the cost of production increases, the firm tends to increase the selling price of the product. The increase in selling price which is not supported by the community's ability to absorb these products because of the low purchasing power led to the number of products sold does not become more and more so that the company suffered losses. Loss suffered by the company, if not offset by additional capital injections from the owner will cause negative equity condition (Yudanto & Santoso, 1998). The condition of negative equity can lead to bankruptcy of business (Suroso, 2006).

In addition to monetary crisis in 1997, the policy of the use of debt to fund the company being taken by the company may also impact the survival of the company. Policy on the use of debt a company can be seen from the value of DER (Debt to Equity Ratio). DER is a ratio that shows the comparison between the debt held by the company with the capital (equity) company. DER values greater than 1 (one) indicates that the use of the funds used for operating activities of the company to use more debt than equity capital that the company must bear the cost of capital that is great interest and default risks that arise will also be greater if the company can not generate the revenue to cover the capital costs to be incurred (time interest earned ratio is small) and even the company can bankrupt a business, but when the time interest earned ratio is large in which the value opinion is greater than the cost of capital in this interest on the loan even though the value of DER> 1 the company can avoid bankruptcy business problem (Gitman, 2009).

By looking at the economic conditions that have occurred in Indonesia unexpected economic crisis making companies in the Indonesia Stock Exchange and other corporate experience instability in running the business and some even went bankrupt due to the crisis, many companies that have a value of DER (Debt to Equity Ratio) greater than 1 (one) to the value of the ratio of the small-time interest earned (EBIT <Cost of Flowers) which can lead to the bankruptcy of the business in such companies and the globalization that can lead to tight competition in all good company on the Stock Exchange listed companies as well as companies that are not listed on the Stock Exchange, it is vital to avoid bankruptcy business formation necessary corporate bankruptcy prediction models based on macroeconomic factors and financial performance factors consisting of ratios of cash flow and the ratio of financial companies listed on the Stock Exchange within a year from 1999 to 2010.

To obtain a bankruptcy prediction model that can be applied by companies listed on the Stock Exchange Indonesi (IDX) then there are some issues that need to be investigated include: (1a) Do macroeconomic factors measured by the level of inflation, interest rates, GDP, and the exchange rate as well as the company's financial performance factors measured by financial ratios consisting of liquidity ratios, profitability ratios, solvency ratios, activity ratios, the ratio of the market, and the ratios of the company's cash flow statement together to give effect to establishment of corporate bankruptcy prediction models? (1b) Is the variable cash flow ratios provide a strong enough influence in the formation of corporate bankruptcy prediction models together with macroeconomic factors are

measured by the level of inflation, interest rates, GDP, exchange rate and financial performance factors measured of financial ratios consisting of liquidity ratios, profitability ratios, solvency ratios, activity ratios and the ratio of the market? (2) Do macroeconomic factors measured by the level of inflation, interest rates, GDP, exchange rate and financial performance factors measured by financial ratios consisting of liquidity ratios, profitability ratios, solvency ratios, activity ratios, market ratios, and the ratios of the company's cash flow statement is partially to give effect to the establishment of corporate bankruptcy prediction models? (3) Is the company's bankruptcy prediction model established by the macroeconomic factors and corporate financial performance factors that exist in Indonesia has a high level of prediction accuracy in predicting corporate bankruptcy?

The study aims to (1a) to analyze the effect of macroeconomic factors measured by the level of inflation, interest rates, GDP, and the exchange rate as well as the company's financial performance factors measured by financial ratios consisting of liquidity ratios, profitability ratios, solvency ratios, activity ratio, the ratio of the market, and the ratios of the company's cash flow statement together towards the establishment of corporate bankruptcy prediction models. (1b) to analyze the influence of the variable cash flow ratios in bankruptcy prediction model building together with macro factors economy is measured from the level of inflation, interest rates, GDP, and the value of the currency and financial performance factors measured by financial ratios consisting of liquidity ratios, profitability ratios, solvency ratios, activity ratios and market ratios. (2) to analyze the effect of macroeconomic factors are measured by financial ratios consisting of liquidity ratios, profitability ratios, solvency ratios, activity ratio, the ratio of the market, and the ratios of the company's cash flow statement is partially the formation of corporate bankruptcy prediction models. (3) To analyze the level of prediction accuracy in predicting corporate bankruptcies obtained from the bankruptcy prediction model established by the macroeconomic factors and corporate financial performance factors that exist in Indonesia.

THEORETICAL DEVELOPMENT AND HYPOTHESES

Macroeconomic Factors, Performance Factors Corporate Finance and Business Bankruptcies

Business bankruptcy for a company is not only caused by one thing but many things that can lead to bankruptcy of a company. Therefore, in the formation of a company bankruptcy prediction models should also consider matters which may cause a company into bankruptcy. Things that can cause a business bankruptcy include:

1. Macroeconomic factors

Companies that are sensitive to macroeconomic conditions may experience a bankruptcy if the macroeconomic conditions in a state of good and stable. This is due to the macro economic environment is affecting the day-to-day operations (Tandelilin, 2010), but it is because the company does not stand alone then bankruptcy prediction model should contain information about the environment outside the company as the macroeconomic situation where macroeconomic environment can be significant explanatory factor in explaining corporate bankruptcy (Balcaen & Ooghe, 2004). Opinions of other researchers is that the macro-economic factors such as interest rates, money supply and the inflation

rate is an important factor in predicting bankruptcy of enterprises (Lee et al, 2007) and macro-economic factors have a role in the formation of business bankruptcy prediction models (Nam et al, 2008).

2. The financial performance of the company

The financial performance of the company which can be seen from the financial ratios and cash flow ratios can affect survival of the company in which the financial ratios can provide a good overview of the analysts about the bad things or the financial position of a company (Munawir, 1998) while the company's cash flow is a measure of kelikuidan of a business (Sharma, 2001). Kelikuidan size company can give you an idea of the condition of the company if the company's statement of cash flows from operating activities primarily negative indicates that firms in illiquid conditions because of the company's operating loss (income <expenditure operations) so it is possible at any given time the company went bankrupt .

Opinions from other researchers are able to use financial ratios to predict bankruptcy business (Beaver, 1966) than that in shaping the business model of bankruptcy important variable is the cash flow generation, liquidity, financial leverage, turnover of equity (Mensha, 1984).

With the view that there are things that can cause a company goes bankrupt then merging the things that can cause an insolvent company can realize the bankruptcy prediction model building good business. Thus, the research hypothesis is:

H1a: macroeconomic factors and financial performance factors measured by financial ratios and cash flow ratios together to give effect to the establishment of corporate bankruptcy prediction models.

There is difference of opinion among researchers in the ratio of cash flow included in the modeling effort as bankruptcy prediction by Gombola (1987) ratio is an indicator of cash flow operations that do not particularly need to be used in the modeling of business bankruptcy prediction, Aziz et al (1988) found ratios of cash flow can not be used to establish predictive models of bankruptcy efforts and Atmini & Wuryana (2005) states that cash flow models are not powerful enough to be used as a predictive model financial distress while according Mesaki (1998) model of prediction of bankruptcy using cash flow yield prediction models efficient bankruptcy, Mossman et al (1998) found that the ratio of cash flow to predict the bankruptcy business is better than using financial ratios and cash flow to total debt is a good predictor in predicting bankruptcy of enterprises with highly accurate prediction rate (Beaver , 1966; Deakin, 1972) the differences need to be tested with the establishment of the following research hypothesis:

H1b: macroeconomic factors and financial performance factors measured by financial ratios together to give effect to the establishment of corporate bankruptcy prediction models.

Macroeconomic Factors and Corporate Bankruptcy

Macroeconomic factors are factors that can affect the survival of the company because the company is in the macroeconomic environment in the course of day-to-day operations and in their policy and take steps for the strategic business development company. Macroeconomic factors consist of inflation, interest rates, gross domestic product and the rupiah. The relationship between each of the macroeconomic factors and corporate bankruptcies can be seen from the findings of previous researchers, among others:

- 1. Research conducted by Lee et al (2007), Tirapat & Nittayagasetwat (1999), and Liou & Smith (2006) stated that inflation is an important factor in predicting bankruptcy and give effect to the possibility of companies experiencing financial distress so that it can be said that the inflation rate may give effect to the bankruptcy events business.
- 2. Research conducted by Shepard and Collins (1982) which states that the interest rate is an important indicator in the modeling bankruptcy. Research conducted by Salman et al (2009) which states that a high interest rate loans cause bankruptcy and Lee et al (2007) states that the interest rate is an important factor in the formation of corporate bankruptcy prediction models, so it can be said that the interest rate gives a positive influence to the emergence of business bankruptcy.
- 3. Research conducted by Liou & Smith (2006) which states that contribute to the formation of GDP bankruptcy models and Salman et al (2009) who in his research concluded that GDP has a negative relationship to the bankruptcy of the company.
- 4. The rupiah is the price of dollar against other currencies. Companies that use equity financing in foreign currencies may cause the company's debt has increased in the amount to be paid in case of weakening of the Rupiah. With increasing costs to the company are not offset by revenue earned, the company will incur a loss and can lead to bankruptcy business losses if conditions are not quickly addressed. Therefore the exchange rate can affect the appearance of the bankruptcy of a company's business.

Based on the above, the research hypothesis is:

H2: macroeconomic factors influence the formation of corporate bankruptcy prediction models.

Corporate Financial Performance Factor (Financial Ratios) and Corporate Bankruptcy

The company's financial performance factors can also impact the survival of the company which may cause bankruptcy, the company's financial performance factors include the company's financial ratios and cash flow ratios derived from the company's cash flow statement. Financial ratios consist of liquidity ratios, solvency ratios, activity ratios, profitability ratios and market ratios. The relationship between each company's financial ratios and bankruptcy can be seen from the findings of previous researchers, among others:

- 1. Research conducted by Glezakos et al (2010) stated that the liquidity ratio is a good ratio to use in business bankruptcy prediction models. This is supported by research done by Hadad et al (2003) in which the research results indicate that the liquidity ratio is the best discriminator in differentiating a company that does not bankrupt the company bankrupt and Kaaro (2004) in his study concluded that a relatively consistent variable in predicting health firms are liquidity ratios.
- 2. Research conducted by Ohlson (1980), Tanthanongsakkun et al (2009), Manurung (2003), Gamayuni (2006) and Parulian (2007) which states that the solvency ratio which is represented by the ratio of total liabilities to total assets are statistically significant for use in established models of business bankruptcy, but it Mensha (1984) also stated in the study that the solvency ratio is an important variable in shaping the enterprise bankruptcy prediction model. Kaaro (2004) and Munthe (2008) in his study concluded that the variables are relatively consistent in predicting a company's health is the solvency ratio or leverage ratio.

- 3. Research conducted by Rodliyah (2004) which states that the ratio of the dominant role in the formation of one bankruptcy prediction model is the ratio of the activity represented by the total assets turnover ratio, it can also be seen in Altman's bankruptcy prediction model equations that the total assets turnover ratio be one the variables used in predicting bankruptcy business.
- 4. Research conducted by Keasy & McGuinness (1990) suggest that indicators of profitability provide significant results in explaining the state of bankruptcy. Atmini & Wuryana (2005) in his study concluded that the dominant financial ratios significantly affect the company's financial distress is a condition of profitability ratios, represented by the ratio of return on investment (ROI). Munthe (2008) states that the ratio of profitability can be used to predict corporate bankruptcy.
- 5. Research conducted by Atiya (2001) and Mensah (1983) which states that the ratio of the market can be used to help shape corporate bankruptcy prediction models.

Based on the description the research hypothesis is:

H3: Financial ratios give effect to the establishment of corporate bankruptcy prediction models.

Factors Corporate Financial Performance (Cash Flow Ratio) and Bankruptcies Company

The company's cash flow statement is often used by analysts of financial statements to evaluate and assess the performance of the company as seen in the cash flow statement is the use of a variety of activities such as cash operating activities, investing activities and financing activities. This is because when firms indicate difficulty in repaying the loan company cash shortage, especially when seen from the statement of cash flows experienced negative operating cash flow because the company can not make a profit. The importance of cash flow ratios in predicting bankruptcy of enterprises supported by research conducted by Beaver (1966) and Deakin (1972) which states that cash flow to total debt is a good predictor and accurate in predicting bankruptcy of enterprises, besides Mesaki (1998) and Mossman et al (1998) in his study concluded that the bankruptcy prediction model using the ratio of cash flow to produce an efficient insolvency prediction model and better than the use of financial ratios. Sung et al (1999) also states that the ratio of cash flow to total assets is the most important variable in shaping the company's bankruptcy prediction model.

Based on the above, the research hypothesis is:

H4: The ratio of cash flow to give effect to the establishment of corporate bankruptcy prediction models.

METHODS

Type of Research

This type of research used in this research is descriptive-associative method. Descriptive-associative method is a method of research used to know and be able to describe the characteristics of the studied

variables in a situation and be able to describe and determine the relationship of correlation and causal relationship between one variable with another variable (Sekaran, 2006; Suliyanto, 2009).

Operationalization of Research Variables

The variables used in this study consisted of macroeconomic factors and firm performance factors comprising financial ratios and cash flow ratios. These variables are the independent variables, while the dependent variable is a company with two conditions, namely the bankrupt company and the company does not go bankrupt.

Table 1.1

Variable Operational Research

No Type Variable Measurement Scale Measurement Research

1 Dependent Variable

a. The company went bankrupt

b. Companies that do not bankrupt categorization are:

Number one (1) for the bankrupt company.

The zero (0) to companies that are not bankrupt. Nominal Scale

2 Independent Variables

a. Macroeconomic Factors Calculate the average value of inflation, the average value of the interest rate, the average value of GDP and the average value of the rupiah. Ratio Scale

b. Corporate Performance Factors

1. Calculating Financial Ratios liquidity ratios, solvency ratios, profitability ratios, activity ratios, and the ratio of the market by using the formula of each of these ratios. Ratio Scale

2. Ratios of the Company Cash Flow Statement Calculate efficiency ratio and sufficiency ratio by using the formula of each of these ratios. Ratio Scale

Source: Results of Treatment Author

Population, Study Sample, Sampling Techniques and Data Collection Techniques

The population in this study are all the companies in the Indonesia Stock Exchange (IDX) of the nine sectors in IDX so that the number of companies in the Stock Exchange which is a population of 442

companies per month is April 2012.

The sample used in this study were taken by several criteria, among others:

1. Companies that used in this study is consistent firms issued financial statements which comprise the

income statement, balance sheet and cash flow statement of the year from 1999 to 2010.

2. Not a company engaged in the financial sector, financial services and non-bank financial institutions.

3. Size of the firm view of the total fixed assets. The company has total fixed assets of at least 100 billion for the listing of the main board and at least 5 billion for the recording of board developer to be used as

samples for the company goes bankrupt and the company does not go bankrupt.

4. For companies that do not bankrupt has a positive EBIT continuously during the study period (1999-

2010) while the bankrupt company uses delisting criteria of the BEI.

Based on these criteria then there were 63 companies that are used as a sample. In a bankruptcy prediction model building, there are two conditions that the company is not insolvent and bankrupt the companies in this study there were 29 companies that went bankrupt and 34 bankrupt companies not based on the criteria used above for the period 1999-2010. In a bankruptcy prediction model building samples need to be grouped into the sample analysis and validation samples with a ratio of 60%: 40% means that 60% of the sample analyzes and 40% validation sample. Based on this comparison the number of firms used in the sample analysis and validation samples can be seen in the table below:

Table 1.2

Total Company To Sample Sample Analysis and Validation

Categories Companies of Samples Total

Sample Sample Analysis Validation

Not Bankrupt 20 14 34

Bankrupt 17 12 29

Total 63

Source: Results of Treatment Author

Sampling technique in this study is a type of purposive sampling nonprobabilistic sampling, purposive sampling which is used for manifold judgment sampling in this study using the criteria in the form of a particular consideration in this study sampled.

Data collection techniques used in this research is the collection of data files by using the database as the data used in this study is a secondary data that financial and macroeconomic reports.

Method of Data Analysis

Analysis tools are used to test the research hypothesis is the method of logistic regression because the dependent variable is the independent variable categories with more than one variable. To measure the accuracy of bankruptcy prediction model, the authors use a neural network method. In conducting its analysis aided by SPSS 20 software and Matlab version 7.

RESULTS AND DISCUSSION

To obtain answers to each of these hypotheses has formed the study authors tested the model data for 3 years, 2 years and 1 year before the bankruptcy of the business by using logistic regression analysis and using a significant level (2) of 10% due by Hartono (2008) significant level (2) are most likely to be able to reject H0 is the significant level of 10%.

The results of testing hypothesis 1a can be seen in the table below:

Table 1.3

Variables (With Variable Cash Flow Ratio) The Giving Effect Of Bankruptcy Prediction Model Business For 3 Years, 2 Years and 1 Year Prior Bankruptcy Business In Simultaneous

Model Variables That Influence In Simultaneous magnitude Giving Effect Specification

3 years prior to the bankruptcy business 1. Macroeconomic Factors

2. Variable Ratio of Cash Flows

Financial Ratio 71.8% 3. Variabel macroeconomic factors, financial ratio variables and variable ratio of cash flow to give effect to enterprise bankruptcy prediction by 71.8%

2 years prior to the bankruptcy business 1. Macroeconomic Factors

2. Variable Ratio of Cash Flows

Financial Ratio 70.1% 3. Variabel macroeconomic factors, financial ratio variables and variable ratio of cash flow to give effect to enterprise bankruptcy prediction by 70.1%

1 year prior to the bankruptcy business 1. Macroeconomic Factors

2. Variable Ratio of Cash Flows

Financial Ratios 85% 3. Variabel macroeconomic factors, financial ratio variables and variable ratio of cash flow to give effect to enterprise bankruptcy prediction by 85%

Sources: Data Processing Results

The results of hypothesis testing simultaneously for bankruptcy prediction model 3 years, 2 years and 1 year before the bankruptcy venture is jointly macroeconomic factors consisting of inflation, interest rates, gross domestic product and the rupiah exchange rate and financial performance factors that perusahaann measured by financial ratios and cash flow ratios give effect to the establishment of corporate bankruptcy prediction models. This is supported by research conducted by Djumahir (2007) where his research states that macro variables and micro variables simultaneously can predict corporate financial distress. Munthe (2009) in his study stated that the four macroeconomic variables are used together to give effect to the probability of financial distress and bankruptcy of the company and by Nam et al (2008) have a role in macroeconomics pmbentukan business bankruptcy prediction model.

1b hypothesis testing results can be seen in the table below:

Table 1.4

Variable (Variable Without Cash Flow Ratio) The Giving Effect Of Business For Bankruptcy Prediction Model 3 Years, 2 Years and 1 Year Prior Bankruptcy Business In Simultaneous

Model Variables That Influence In Simultaneous magnitude Giving Effect Specification

3 years prior to the bankruptcy business 1. Macroeconomic Factors

2. Variabel Financial Ratios 57.8% macro-economic factors and the financial ratio variables impact the business bankruptcy prediction by 57.8%

2 years prior to the bankruptcy business 1. Macroeconomic Factors

2. Variabel Financial Ratios 68.3% macro-economic factors and the financial ratio variables impact the business bankruptcy prediction by 62.4%

1 year prior to the bankruptcy business 1. Macroeconomic Factors

2. Variabel Financial Ratios 78.1% macro-economic factors and the financial ratio variables impact the business bankruptcy prediction by 78.1%

Sources: Data Processing Results

The results of hypothesis testing simultaneously for bankruptcy prediction model 3 years, 2 years and 1 year before the bankruptcy business shows that the influence of macroeconomic factors and financial performance factors measured by financial ratios and cash flow ratios greater than the influence of macroeconomic factors and financial performance factors were only measured by financial ratios in predicting bankruptcy of the business.

It is proved that the ratio of cash flow variables significant influence in the formation of corporate bankruptcy prediction models because the ratio of cash flow is dominant in the measurement of bankruptcy and financial distress so that when the company started to have problems with debt service cash flow becomes dominant as the measuring tool (Prihadi, 2010). Also according Darsono & Ashari (2005) the company's cash flow can be used to assess the liquidity of the company so if the company obtains positive operating cash flow, it is a sign the company is operating in a healthy (Sundjaja et al, 2010).

The results of testing hypothesis 2 can be seen in the table below:

Table 1.5

Variable Macroeconomic Factors That Influence Of Giving Business Bankruptcy Prediction Model For 3 Years, 2 Years and 1 Year Prior Bankruptcy Business In Partial

Model Variables Sig. Result

3 years prior to the bankruptcy business GDP 0.929 H0 is accepted

Rupiah 0.705 H0 is accepted

2 years prior to the bankruptcy business GDP 0.931 H0 is accepted

Rupiah 0.838 H0 is accepted

1 year prior to the bankruptcy business GDP 0.488 H0 is accepted

Rupiah 0.359 H0 is accepted

Sources: Data Processing Results

The absence of influence of macroeconomic variables on the formation of corporate bankruptcy prediction models for model 3 years, 2 years and 1 year before the bankruptcy of the overall business is due to financial difficulties and bankruptcy occurred because the company is not able to manage and maintain the stability of the company's financial performance stems from a failure to promote products that are made that caused sales to decline (Brahmana, 2007), but it did Sandin & Porporato (2007) bankruptcy is often a consequence of corporate inefficiencies and errors in decision-making so that the economic and financial condition of the same two companies can face different situations in which one was normal, and the others could face bankruptcy process because managers, creditors, shareholders or government policy.

The results of testing hypothesis 3 can be seen in the table below:

Table 1.6

Variable Financial Ratios The Giving Effect Of Bankruptcy Prediction Model Business For 3 Years, 2 Years and 1 Year Prior Bankruptcy Business In Partial

Variable Models Financial Ratios The Giving Effect Effect magnitude Specification

3 years prior to the bankruptcy business 1. Current Ratio (current ratio)

2. Debt To Asset Ratio (Ratio of Total Debt to Total Assets) 57.8% Current ratio and debt-to-assets ratio to give effect to the establishment of corporate bankruptcy prediction models by 57.8%

2 years prior to the bankruptcy business 1. Debt To Asset Ratio (Ratio of Total Debt to Total Assets

2. . Return On Assets Ratio (Ratio Results Of Total Assets) 68.3% Current ratio, debt-to-assets ratio and the cash ratio to give effect to the establishment of corporate bankruptcy prediction models by 58.3%

1 year prior to the bankruptcy business 1. Total Assets Turnover Ratio (Total Asset Turnover Ratio)

- 2. Debt To Asset Ratio (Ratio of Total Debt to Total Assets)
- 3. Return On Assets Ratio (Ratio Results Of Total Assets) 78.1% Total assets turnover ratio, debt-to-assets ratio and return on assets ratio to give effect to the establishment of corporate bankruptcy prediction models by 78.1%

Sources: Data Processing Results

Based on these results we can conclude that the variables that need to be considered in the modeling prediction conditions are not bankrupt or the company will go bankrupt is the ratio of total debt to total assets (debt to asset ratio) as the ratio to give effect to the establishment of good corporate bankruptcy prediction models for model 3 years, 2 years and 1 year before the bankruptcy business, it is supported by Ohlson (1980) and Manurung (2003) which states that the ratio of total debt to total assets is the most dominant variable and can be used to form a bankruptcy prediction model.

Therefore, if the value of the ratio of total debt to total assets increases, companies need to evaluate and find the cause of the increase in the ratio that the company will avoid bankruptcy business.

Other financial ratios that give effect to the establishment of corporate bankruptcy prediction models, namely current ratio (current ratio), return on assets ratio (the ratio of yield to total assets) and total assets turnover ratio (total assets turnover ratio) is also noteworthy because of the ratio- this ratio provides an overview of the company's financial performance and efficiency as well as the company's

ability to manage existing assets, generate sales and create benefits all of which will give effect to the condition of the company is not insolvent or bankrupt businesses.

The results of testing hypothesis 4 can be seen in the table below:

Table 1.7

Variable Ratio Cash Flow Predictions Against The Giving Effect of Business Bankruptcies For Model 3 Years, 2 Years and 1 Year Prior Bankruptcy Business In Partial

Variable Model That Provides Cash Flow Ratio Effect Effect magnitude Specification

3 years prior to the bankruptcy business Cash Flow Return On Assets Ratio 57.4% Cash flow return on assets ratio to give effect to the establishment of corporate bankruptcy prediction models by 57.4%

2 years prior to the bankruptcy business 1. Cash flow to Return On Assets Ratio

2. Debt Coverage Ratio to 45.8% Cash flow return on assets ratio and debt coverage ratio to give effect to the establishment of corporate bankruptcy prediction models by 45.8%

1 year prior to the bankruptcy business cash flow to Return On Assets Ratio 79.7% Cash flow return on assets ratio to give effect to the establishment of corporate bankruptcy prediction models by 79.7%

Sources: Data Processing Results

Based on these results the ratio of cash flow to give effect to the establishment of the company bankruptcy prediction model for model 3 years, 2 years and 1 year before the bankruptcy business is cash flow return on assets ratio as cash flow return on assets ratio indicates how much profit to be gained from total managed assets to generate profits when seen from operating cash flow (Prihadi, 2010). If the value of cash flow return on assets ratio is low, it can be said to be less efficient firms manage existing assets to generate operating profits, cash flow is low and the company will have low cash funds, with low cash funds, the company will suffer severe financial hardship and can lead to bankruptcy for the company if the company's costs. In addition to cash flow return on assets ratio is the ratio of cash flow to be responsible for the formation of corporate bankruptcy prediction models is the Debt Coverage Ratio as debt coverage ratio shows how much cash flow to be able to shut down the entire operation is good to see corporate debt maturing debt and bad debt maturity (Prihadi, 2010). If the value of debt coverage ratio is high it shows operating cash flows are not able to cover all debts of the company due to the large debts of the company is greater than the operating cash flow that can lead to bankruptcy owned company in the future. It should be observed since the company 2 years before bankruptcy because when the bankruptcy one year prior to the new company is the observed value of the ratio of the company will be too late to be saved means to increase the value of operating cash flow and reducing debt would be difficult to do in a period of one year.

To menentukkan the accuracy of bankruptcy prediction model, the authors use a Neural Network method and the results can be seen in the table below:

Table 1.8

Value Prediction Accuracy Rate for Model 3 Year 1 Year 2 Year and Business Before Bankruptcy partially or Simultaneous With Variable Ratio Cash Flow and Cash Flow Without Variable Ratio

Sample Analysis (Using Variable Cash Flow Ratio) Sample Validation

(Using Variable Cash Flow Ratio) Sample Analysis (Without Variable Cash Flow Ratio) Sample Validation (Without Variable Cash Flow Ratio)

Model 3 years 2 years 1 year 2 years 3 years 3 years 1 year 1 year 2 year 3 year 2 year 1 year

In Simultaneous 96.3 *) 98.2 99.1 48.39 95.16 97.58 95.9 97.2 98.2 90.32 90.32 95.97

In Partial: Sample Sample Analysis Validation

1. Variabel Financial Ratio 95.9 97.2 98.2 95.16 95.98 84.68

2. Variabel Cash Flow Ratio 96.8 97.2 98.2 87.9 92.74 93.55

*): Unit%

Source: Results of Treatment Author

The accuracy of bankruptcy prediction models generated showed that the accuracy rate approaching bankruptcy bankruptcy prediction models are rising, it is because the closer a company's financial condition, the higher the pressure the precision or accuracy of models in predicting corporate bankruptcies and the value of statistical simulation 1 years before bankruptcy business giving the most optimal value (Hadad et al, 2003).

CONCLUSION

- 1.a. Simultaneously with 2 = 10% of all variables used in this study together to give effect to the establishment of corporate bankruptcy prediction models with the magnitude of the effect is equal to 71.8% for model 3 years prior to the bankruptcy business, 70.1% for model 2 years before bankruptcy business and 85% for model 1 year prior to the bankruptcy business.
- 1.b. Variable cash flow ratios provide a strong influence in shaping the company's bankruptcy prediction model together with macroeconomic factors and financial performance factors.
- 2. Partially by using 2 = 10%, variable influence on the formation of corporate bankruptcy prediction models is the variable of financial ratios and cash flow ratio variables. For macroeconomic variables partial factor 2 = 10% with no effect on the formation of corporate bankruptcy prediction models.

3. Bankruptcy prediction model established by the macroeconomic factors and corporate financial performance factors that exist in Indonesia has a high level of prediction accuracy in predicting the bankruptcy of the company so that the factors that influence the formation of corporate bankruptcy prediction models need diperharikan by the company.

Based on the study conclusions presented suggestions for practical interests or the interests of further study as follows:

- 1. The company went public should pay attention to the cash flow position of the company operating cash flow primarily due to the company's cash flow is a liquidity measure which indicates the company's ability to obtain sales to cover all operating expenses that are routine.
- 2. Business bankruptcy prediction model established by the authors are advised to use in predicting the condition of companies that go public have to be generated according to the prediction results because in this study the authors use research object, a company that went public and listed on the Indonesia Stock Exchange for all sectors except the financial sector and other financial institutions with total assets berwujudnya at least 5 billion to 100 billion.
- 3. For further research is recommended to evaluate the bankruptcy prediction model that has been established by using a variable that has been used in this study because of the different economic conditions in Indonesia's economy will continue to grow and are affected by global conditions so that business bankruptcy prediction model established by the authors will need to be evaluated to see if the variables used are still having the same effect or different.

Atiya, Amir M, 2001, Bankruptcy Prediction for Credit Risk Using Neural Networks: A Survey and New Results, IEEE Transactions on Neural Networks, Vol.12.No.4.

Atmini, Sari and Wuryana, 2005, Earnings and Cash Flow Benefits To Predict Financial Distress Conditions In Company Textile Mill Products and Apparel and Other Textile Products Registered in JSE, SNA VIII, Solo.

Aziz, Abdul., Emanuel, David C., Lawson, Gerald H, 1988, Bankruptcy Prediction: An Investigation of Cash Flow Based Model, Journal of Management Studies, Vol.25.No.5:419-437.

Balcaen, Sofie and Ooghe, Hubert, 2004, 35 Years of Studies on Business Failure: An Overview of The Classical Statistical methodologies and Their Related Problems, Working Paper 04/248, Department of Accountancy and Corporate Finance, Ghent University, Belgium.

Beaver, William H, 1963, Financial Ratios As Predictors of Failure, Journal of Accounting Research, empirical Research in Accounting: Selected Studies, Vol.4:71-111.

Boediono, 2009, Indonesia's economy, Want to Go Where?: Set Essay Economics, First Printing, PT. Scholastic, Jakarta.

Brahmin, Rayenda K, 2007, Identifying Financial Distress Condition In Indonesia Manufacture Industry, Birmingham Business School, University of Birmingham.

Darsono and Ashari, 2005, Practical Manual Understanding Financial Statements, Issue I, Andi, Yogyakarta.

Deakin, EB, 1972, A Discriminant Analysis of Predictors of Business Failure, Journal of Accounting Research.

Djumahir, 2007, Influence Variables Micro, Macro Variables Of Financial Distress On Food and Beverages Industry Company Registered in JSE, Journal of Management Application, Vol.5.No.3 :484-492.

Gamayuni, Girl Rika, 2006, Financial Ratios As Predicted Failure of the Company in Indonesia, Journal of Business and Management, Vol.3.No.1:15-38.

Gitman, Lawrence J, 2009, Principles of Managerial Finance, Twelfth Edition, Pearson Prentice Hall.

Glezakos, Michalis., Mylonakis, John., Oikonomou, Katerina, 2010, An empirical Research on Early Bankruptcy Forecasting Models: Logit Analysis Does Enhance Business Failure predictability, European Journal of Finance and Banking Research, Vol.3.No.3.

Gombola, Michael.J., Haskins, Mark.E., Ketz, J.Edward, and Williams, David D, 1987, Cash Flow in Bankruptcy Prediction, Financial Management, Vol.16.No.4:55-65.

Hadad, D. Hadad, Santoso, Wimboh., Rulina, Ita, 2003, Bankruptcy Indicators in Indonesia: An Additional Early Warning Tools In Financial System Stability, Bank Indonesia Research Paper, No. 5/5.

Hair, JF., Black, WC, Babin, BJ, Anderson, RE, Tatham, RL, 2006, Multivariate Data Analysis, Sixth Edition, Pearson International Edition.

Hartono, Jogiyanto, 2008, Portfolio Theory and Investment Analysis, Fifth Edition, BPFE-UGM, Yogyakarta.

Kaaro, Hermeindito, 2004, Versus Bankruptcy Restructuring: Evaluation and Prediction of Survival Post-Crisis Corporate Finance, 1997, Performance, Vol.8.No.1:1-26.

Keasy, Kevin., McGuinness, Paul, 1990, The Failure of UK Industrial Firms for the Period 1976-1984, Journal of Business Finance & Accounting, Vol.17.Iss.1:119-136.

Lee, Chengfew., Sun, Lili, and Tsai, Bi-Huei, 2007, Do Auditors' Opinnions, Industry Factors and Macroeconomic Factors Financial Distress Signal? Evidence From Taiwan, Working Paper.

Liou, Dah-Kwei and Smith, Malcolm, 2006, Macroeconomic Variables in the Identification of Financial distress, SSRN Working Paper No.900284.

Manurung, Elizabeth Tiur, 2003, Preparation of Model Prediction Using Financial Company Credibility Based on Historical Cost Accounting and General Price Level Accounting (Inflation) (Survey of the textiles in London), Dissertation, Faculty of Economics, University of Padjadjaran, Bandung.

Mensah, Yaw M, 1984, An Examination of the Stationarity of Multivariate Bankruptcy Prediction Models: A methodological Study, Journal of Accounting Research, Vol.22.No.1:380-395.

Mesaki, Miwako, 1998, Bankruptcy Prediction, Analysis of Cash Now Models, International Review of Business.

Mossman, Charles E., Bell, Geoffrey G., Swartz, L. Mick., Turtle, Harry, 1998, An empirical Comparison of Bankruptcy Models, The Financial Review, 33.2:35.

Munawir, S, 1998, Financial Statement Analysis, Fourth Edition, Prints Ninth, Liberty, Yogyakarta.

Munthe, Kornel, 2008, Effect of Ownership Structure, Macro Economic and Financial Difficulties Financial Performance Of The Company (Studies in Manufacturing Company Listed on the Stock Exchange), Media Unika, Edition-4.No.73.

Nam, Chae Woo., Kim, Tong Suk., Park, Nam Jung., And Lee, Hoe Kyung, 2008, Bankruptcy Prediction Using a Discrete-Time Duration Models and Macroeconomic Incorporating Temporal Dependencies, Journal of Forecasting, Vol.27.Iss .6:493-506.

Ohlson, James A, 1980, Financial Ratios and the probabilistic Prediction of Bankruptcy, Journal of Accounting Research, Vol.18.No.1:109-131.

Parulian, Safrida Rumondang, 2007, Ownership Structure Relations, Independent Commissioner and Financial Condition Distress Public Company, Integrity-Journal of Accounting and Finance, Vol.1.No.3:263-274.

Prihadi, Toto, 2010, Financial Statement Analysis: Theory & Applications, Matter I, PPM, Jakarta.

Rodliyah, Siti, 2004, Application of Discriminant Analysis to Predict Rate Altman Bankruptcy (Case Study At a textile company in the JSE Listed), Thesis, program Accounting Studies, University of Malang, Malang.

Salman, A.Khalik., Friedrichs., Yvonnevon, and Shukur, Ghazi, 2009, Macroeconomic Factors and Swedish Small and Medium-Sized Manufacturing Failure, Working Paper No.185, The Royal Institute of Technology, Centre of Excellence for Science and Innovation Studies (Cesis).

Sandin, Ariel R and Porporato, Marcela, 2007, Corporate Bankruptcy Prediction Models Applied To Emerging Economies: Evidence from Argentina in the Year 1991-1998, International Journal of Commerce and Management, Vol.17.Iss.4:295-311.

Sekaran, Uma, 2006, Research Methodology for Business, 4th Edition, Four Salemba, Jakarta.

Sharma, Divesh S, 2001, The Role of Cash Flow Information in Predicting Corporate Failure: The State of the Literature, Managerial Finance, Vol.27.No.4:3-28.

Shepard, Lawrence E and Collins, Robert A, 1982, Why Do Farmers Fail? Farm bankruptcies 1910-1978, American Journal of Agricultural Economics, Vol.64.No.4:609-615.

Suliyanto, 2006, Business Research Methods, Second Matter, Publisher Andi, Yogyakarta.

Sundjaja, Ridwan., Barlian, Inge., Sundjaja, Dharma Putra, 2010, Financial Management 1, Issue 7, Literata Lintas Media, Bandung.

Sung, Tae Kyung., Chang Namsik., Lee, Gunhee, 1999, Dynamics of Modeling in Data Mining: Interpretive Approach to Bankruptcy Predection, Journal of Management Information Systems, Vol.16.No.1:63-85.

Suroso, 2006, the Company's Investment In Stocks Facing Financial Distress, Entrepreneur, No.2.Th.XXXV:7-11.

Tandelilin, Eduardus, 2010, Portfolio and Investment: Theory and Applications, First Edition, Canisius, Yogyakarta.

Tanthanongsakkun, Suparatana., Pitt, David., Treepongkaruna, Sirimon, 2009, A Comparison of Corporate Bankruptcy Models in Australia: The Merton vs. Accounting-Based Models, Asia-Pacific Journal of Risk and Insurance, Vol.3.Iss.2. Art.7.

Tarmidi, LEPI T, 1999, the Monetary Crisis Indonesia, Causes, Impacts, and the Role of IMF advice, Bulletin of Monetary Economics and Banking, Vol.1.No.4:1-25.

Tirapat, Sunti and Nittayagasetwat, Aekkachai, 1999, An Investigation of Thai Listed Firm's Financial Distress Using Macro and Micro Variables, Journal of Multinational Financial, Vol.3.No.2:103-125.

Yudanto, Noor and Santoso, M. Setyawan, 1998, Impact of Monetary Crisis Against Real Sector, Bulletin of Monetary Economics and Banking, Vol.1.No.2:131-158.