

38th FEDERATION OF ASEAN ECONOMIC ASSOCIATIONS ANNUAL CONFERENCE

28-29 November 2013

Singapore

Conference Programme

Conference Programme*

Day 1 28 November 2013 (Thursday)

Venue	HSS, Auditorium (Basement 1)
8.00	Registration
9.00	Opening Remarks
	Professor Euston Quah
	President
	Economic Society of Singapore
9.20	Keynote Presentations
	H.E. Ong Keng Yong
	High Commissioner of Singapore to Malaysia
	Mr. Rae Kwon Chung
	Director, UNESCAP
	Chaired by: Prof Lim Chong Yah, Emeritus
	Professor of Economics, Nanyang Technological
	University and National University of Singapore
Venue	HSS, Foyer (Level 1)
10.20	Tea Reception

Venue	Seminar Rooms 6, 7 (Level 1)		
	Parallel Sessions		
10.50	Session 1: Information and Measurement Seminar Room 6		

Efficiency in ASEAN Region" Harvey M Niere, Mindanao State University, Philippines "Information Processing Theory in Budgetary Participation: Its Antecedent and Consequence" Dian Indri Purnamasari Pembangunan Nasional University "Veteran" – Yogyakarta, Indonesia "Emotional Quotient and Preparedness of Accounting Students for IFRS" Rida Perwita Sari, Universitas Pembangunan Nasional "Veteran" East Java, Indonesia

"A Multifractality Measure of Stock Market

"Sustainability Reporting of University in Indonesia" Erna Sulistyowati, Endah Susilowati, Rida Perwita, Universitas Pembangunan Nasional "Veteran" East Java, Indonesia

Chaired by: Dr. Alvin Ang, President, Philippine Economics Society 10.50 Session 2: Financial Market and Economic Incentives (Part One)

Seminar Room 7

"CO2 Emission and Carbon Tax in Singapore"
Toh Mun Heng, National University of Singapore
"The Effects of AFTA on Macroeconomic
Variables and Poverty: Evidence of Laos"
Phouphet Kayophilavong, National University of
Laos

"Martingales in Floating ASEAN+3 Currencies" Cesar C. Rufino, De La Salle University-Manila Philippines

"Divergent Bubbles in a Small Open Economy"

Athakrit Thepmongkol, National Institute of
Development Administration, Thailand

Chaired by: Dr. Chayodom Sabhasri, Dean, Faculty of Economics, Chulalongkorn University

Venue HSS, Foyer (Level 1)

12.20 Lunch

Venue HSS, Auditorium (Basement 1) Plenary Session 13.20 Sustainable Earth Office Plenary Session: Creating the ASEAN Community

Mely Caballero- Anthony

Associate Professor, Former Director of External Relations, The ASEAN Secretariat, Head, RSIS Centre for NTS Studies Secretary-General, Consortium of Non-Traditional Security Studies in Asia (NTS-Asia)

Joergen Oerstroem Moeller

Visiting Senior Research Fellow, Institute of Southeast Asian Studies (ISEAS), Singapore, Senior Fellow, MFA Diplomatic Academy, Singapore, Adjunct Professor at Singapore Management University (SMU), Adjunct Professor at Copenhagen Business School (CBS) Khoo Teng Chye

Executive Director, Centre for Liveable Cities

Chaired by: Professor Alexander Zehnder, Committee Chairman, Sustainable Earth Peak of Excellence, Nanyang Technological University

Venue HSS, Foyer (Level 1)

15.20 Tea Reception

Venue	Seminar Rooms 7,8 (Le	vel 1)		
	Parallel Sessions			
16.00	Session 3: Financial Incentives (Part Two) Seminar Room 8	Market	and	Economic

"Exploring Compliance Tax Perceptions in a Indonesia Small Medium Enterprise Community" Indrawati Yuhertiana, Rina Mustika, Sri Hastuti, Siti Sundari ,University of Pembangunan, Indonesia

"Regional Interest Rate variations: evidence from the Indonesian credit markets"

Masagus Ridhwan , HLF de Groot, P. Rietveld, and P. Nijkamp, Economist, Bank Indonesia

"Measuring Asymmetric Volatility and Stock Returns in the Philippine Market"

Daniel S. Hofilena, Maria Francesca D. Tomaliwan, De La Salle University-Manila, Philippines

"Paper Raw Material Inventory Analysis Method Using Economic Order Quantity (EOQ) In Tribun Makassar"

Mahlia Muis, Hasanuddin University Makassar, Dyah Sawitri, Gajayana University Malang

Chaired by: Dr. Walter Theseira, Honorary Secretary, Economic Society of Singapore

16.00 Session 4: Innovation and Entrepreneurship Seminar Room 7

"The Model of Index for Measuring the Progress of Rural Development at Autonomy Era in Indonesia: A Pilot Project in Klaten Regency, Central Java" Mulyanto, Sebalas Maret University (UNS) Sukarta, Indonesia

"Rural Economic Structure Change to a Balanced Economy Based Maze Agribisnis in Grobogan" Endang Siti Rahayu, Rahmawati, Muhammad Harisudin University of Sebalas Maret Surakarta, Indonesia

"The Entrepreneurship Incubator Model Based on Empowerment to Improve Independence of Graduates of the Faculty of Economics Sebelas Maret University Indonesia" Rahmawati and Soenarto, University of Sebalas Maret Surakarta, Indonesia

"Productivity Improvement Strategy of Handycraft Creative Industry, Community, Based Resource Management Effort"

Ignatia Sri Seventi, Anastasia Riani, Sebalas Maret University Indonesia

Chaired by: Mr Tran Duc Minh, Deputy Secretary General, Vietnam Economic Association

17.30	End of Conference		
18.30	Conference Dinner (not applicable to reduced rate participants)		
Venue	Bather's Café and Restaurant #01-03, Clementi Arcade, 41 Sunset Way		

Day 2 29 November 2013 (Friday)

Venue	HSS, Auditorium (Basement 1)
8.00	Registration
9.00	Opening Remarks Professor Euston Quah
	President
	Economic Society of Singapore

Venue	HSS, Auditorium (Basement 1)
132.5	Plenary Session
9.20	Economic Growth Centre Plenary Session: ASEAN Finance, Banking and International Development

Yeo Lay Hwee

Director, European Union Centre

Roman Zytek

Middle East and Central Asia Department, International Monetary Fund; and Research and International Division, Ministry of Finance, Brunei Darussalam (until July 31, 2013)

Abdul Mongid

Associate Professor in Banking, Perbanas Banking Institute, Indonesia

Chaired by: Associate Professor Low Chan Kee, Associate Chair (Administration), School of Humanities and Social Sciences, Nanyang Technological University

Venue HSS, Foyer (Level 1)

10.20 Tea Reception

10.35 FAEA Presidential Meeting

(Official Delegates of FAEA Member Societies/Associations) Venue

Conference Room HSS, Room #05-57, Level 5

Venue Seminar Rooms 6, 7, 8 (Level 1) Parallel Sessions 11.00 Session 5: Building ASEAN Economic Community Seminar Room 6

"Financial Inclusion: The Financial Need for the Poor in Cambodia"

Pum Sophy, Angkor Mikroheranhwatho Kampuchea (AMK) Co. Ltd, Phnom Penh Cambodia

"Enhancing ASEAN Connectivity: Venturing into Islamic Finance as a New Source of Infrastructure Financing"

Saadiah Mohamad, Universiti Teknologi MARA Malaysia

"Trade integration in ASEAN and Vietnam's economic development"

Nguyen Anh Thu, Vietnam National University, University of Economics and Business, Vietnam "The Impact of the ASEAN Economic Community and Regional Labor Movement" Danupon Ariyasajjakorn, Chulalongkorn University Thailand

Chaired by: Dr. Wisarn Puppphaesa, Senior Advisor, International Economic Relations Program, Thailand Development Research Institute

11.00 Session 6: Urban and Rural Sustainable
Developments
Seminar Room 7

"Sustainable livelihoods in an urban setting: a framework of study for Klang Valley taxi drivers" Nurul Huda Mohd Satar, University of Malaya, Kuala Lumpur, Malaysia

"Sustainability Forgone: Environmental and economic analysis of Tuna Fishery in Indonesia" Budy Wiryawan and Nimmi Zubainarni, Bogor Agricultural University, Indonesia)

Chaired by: Professor Chew Soon Beng, Honorary Treasurer, Economic Society of Singapore

11.00 Session 7: Environmental Policy and Governance Seminar Room 8

> "Corporate Social Responsibility Programs of A Mining Company in Southern Philippines" John Vincent C. Espenido, Mindanao State University-Iligan Institute of Technology (MSU-IIT), Philippines

"Public Choice and the Generalized Resource Curse" Majah-Leah V. Ravago, University of the Philippines

"Land Management Quality and Public Governance Democratization (Impact analysis of democratization of public governance and efficiency of public administration on land management quality at the local level)" Vu Hoang Duong, Vietnam Institute of Economics Vietnam Academy of Social Sciences

"The Influence of Islamic Leadership Style on Work Commitment and Employee Work Satisfaction in BNI Syariah Surabaya"Dina Fitrisia Septiarini and Toriqul Hajjil Akbar, Airlangga University, Surabaya, Indonesia

Chaired by: Mr. William Clune, Honorary Assistant Secretary, Economic Society of Singapore

Venue HSS, Foyer (Level 1)

12.30 Lunch

Venue HSS, Auditorium (Basement 1)

13.30 Closing Remarks/Handling Over of Chairmanship to the Next Host (Thailand)

14.00 End of Conference

City Tour

*Conference Program is tentative and subjected to changes with decision by the Organizing Committee

Thank you so much for your participation.

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INFORMATION PROCESSING THEORY IN BUDGETARY PARTICIPATION: ITS ANTECEDENT AND CONSEQUENCE

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Abstract

This study analyzes the role of the Information Processing Theory (IPT) in the budgetary participation with antecedent variables such as environmental dynamism (ED). Furthermore this study examines the influence of budgetary participation on performance (P) in the company. The IPT is used in this study as a contribution to overcome the gap between dynamic environments, information management, budgetary participation and performance. This research concluded that (1) there is a positive relationship between environmental dynamism and task exceptions, information technology, information systems, and budgetary participation, (2) there is no negative relationship between environmental dynamism and task analyzability, (3) there is no positive relationship between task exceptions and budgetary participation, (4) there is a negative relationship between task analyzability and budgetary participation, (5) there is a positive relationship between information technology, and information systems for budgetary participation, and (6) there is a positive relationship between budgetary participation and performance.

Keywords: Process, Information, Participation, Budget, Performance

a.

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Introduction

Companies today are confronted with dynamic and competitive business environments; therefore they will have to improve their sensitivity to and readiness for any environmental changes. External conditions such as dynamic environments, or turbulent environments in some senses, require the availability of multiple sources of information to cope with them and to survive in the competition (Mulyadi, 2005). The study aims to analyze how the companies respond to dynamic business environments by applying Information Processing Theory (IPT) in budgetary participation.

IPT is concerned with how information is developed in a structured way to facilitate the users in utilizing information for the purpose of decision making (McGuire, 2011). Information plays an important role as input and process in decision making related to the generated decisions, as is the case in budgetary participation. Questions then arise as to how IPT applies in a corporate environment: Has IPT been able to influence the dynamic environments to generate relevant information? Has IPT been able to connect to and to facilitate the budgetary participation and did it ultimately result in increased performance efficiency?

Gattiker (2007) concluded in his study that information processing is necessary to serve the purposes of, among other, minimizing inefficiency and/or slack in budgeting. It is required to reduce the gap between information needs and information capacity, and to minimize creating slack from the use of organizational resources (Song *et al.*, 2005). The arising question from these considerations would be how information technology can be applied in organizations. Has the information been supported by adequate technology? The aforementioned questions are worth to be further investigated in a study. This research analyzes the role of IPT in budgetary participation with the antecedent variable of environmental dynamism (ED) and the consequence variable, of performance (P) in companies.

Based on this description, the authors formulated the research questions as follows: (1) does environmental dynamism correlate to task exceptions, task

analyzability, information technology, information system, and budgetary participation? (2) Do relationships exist between task exceptions, task analyzability, information technology, information systems and budgetary participation? (3) Does a relationship exist between budgetary participation and performance?

Hypothesis Development

Environmental Dynamism and Information Processing Theory

According to Kren (1992), environmental Dynamism (ED) refers to volatility, which means the changes occurre naturally, cannot be anticipated easily and the manager is only able to predict the impact of certain environmental factors and their relationship with uncertainity. In budgeting, volatility is expected to correlate positively to the level of budgetary participation (Kren, 1992). Simon (1987) supposed that when volatility increases, various information processing would not be useful in decision-making if made by lower hierarchical levels of the organization. Hopwood (1976) and Govindarajan (1986) revealed that the budgetary participation will increase in highly volatile organizations, due to the demands to respond immediately to the already established budget whenever changes in a dynamic environment occur. A dynamic and complex environment plays a significant role in information processing (Edmonds, 2001).

Chong and Johnson (2007) used uncertainty as a variable of information system theory and divided it into two dimensions; Task Exceptions (TE) and Task Analyzability (TA). TE is defined as the frequency of unexpected occurrence in a conversion process (Brownell and Dunk, 1991). But if TE is recognized early enough, efforts can be made to prevent TE. When TE is low, the tasks can be accomplished on routinely and repetitive basis using the procedures and regulation available thus far (Tushman and Nadler, 1978), when the TE is high, it is likely that the staff will face serious problems (Withey et. al., 1983). TA is defined as the extent to which some of the activities or works can be reduced to technically programmatic measures (Brownell and Dunk, 1991). A dynamic environment is characterized by information overload, information diversity, and

a high rate of information change (Edmonds, 2001) and will increase TE. On the other hand, a dynamic environment is negatively related to the TA because TEs are unpredictable and cannot be simplified

A dynamic environment must be balanced with IT availability supporting information acquisition as a consequence of information dynamics. Sufficient IT availability will maximize the acquisition of the necessary information for decision-making (Hubber, 1990; Kendall, 1997) and will sort information in such a way that the user will find it easier to understand and improve the efficiency of knowledge processing in decision-making (Song *et al.*, 2005).

Gattiker (2007) noted in his study "Enterprise Resources Planning (ERP) System of marketing" that one variable in IPT is an information system to be managed properly to anticipate environmental changes. Edmonds (2001) inferred that a linear relationship exists between information processing and environmental complexity; the more complex the environmental change is, the higher the needs of information processing will be.

A dynamic environment requires the manager to participate in information acquisition and in anticipation of unexpected occurences (Brownell and Hist, 1986). Shields and Shields (1998) drew the conclusion in their study that dynamic environments are the antecedents of budgetary participation. Wing *et al.* (2010) found a relationship between a dynamic environment and budgetary participation.

Based on the aforementioned description, the authors present the following hypotheses:

H_{1a}: Environmental dynamism is positively correlated to task exceptions, task analyzability, information technology, information system, and budgetary participation.

H_{1b}: There is a negative relationship between environmental dynamism and task analyzability.

Information Processing Theory and Budgetary Participation

Task uncertainty including TE and TA is the antecedent of the budgetary participation (Chong and Johnson, 2007). Lower TA takes employees a longer time to think and to find solutions outside of the existing procedures and policies and requires a lot of information, which in turn requires a higher level of participation. Higher TE makes it difficult for subordinates to predict the problem they are facing, and it is expected that there is a high budgetary participation to minimize the difficulty in predicting (Perrow, 1967; Withey et al., 1983, Chong and Jonhson, 2007).

The presence of information technology, which is necessary in the information processing, reduces inefficiencies and gaps in many such things as budgetary participation (Gattiker, 2007). Information technology can improve the information absorbed (Song *et al.*, 2005) and the efficiency of budgetary participation. Organizations with strategic information processing will process their information in an integrated activity involving individuals and the organization (Corner et al., 1994). Venkatraman (1996) summarized that IS passes knowledge to the users, who then will influence the actions of organizations in making business decisions, such as budgetary participation.

Based on the above description, the authors present the following hypotheses:

H_{2a}: There is a positive relationship between task exceptions, information technology, information system and budgetary participation.

H_{2b}: A negative relationship exists between task analyzability and budgetary participation.

Budgetary Participation and Performance

In general, the relationship between budgetary participation and performance is positive, which was also the result of the following studies: Penno (1990) stated that budgetary participation by employees will be positively correlated to their performance. For his research, he used a principal-agent model. Kren (1992) concluded that participation affects performance indirectly. Further analysis yielded that positive performance is the result of participation and would be perceived more as such in a highly volatile environment.

Greenberg *et al.* (1994) concluded in his meta-analysis that there is a positive relationship between budgetary participation and performance. Wing et al. (2010) came to a similar conclusion like Greenberg. Lopez *et al.* (2007) tested a path model and concluded that there is a strong relationship between budgetary participation and performance among U.S. managers working in the U.S. and Mexican manager working in the U.S.

Based on the above description, the author presents the following hypothesis:

H₃: A Positive relationship exists between Budgetary Participation and Performance.

Research Method

Populations and Sampling

The population in this study consists of managers of companies in Yogyakarta and Surakarta. The sampling was performed using nonprobability sampling technique, i.e. purposive sampling. The requirement was a minimum of two years of working experience and that the manager has created a budget for their respective division in each fiscal year.

Variable Measurement

Environmental dynamism is the uncertainty of fluctuating changes from various conditions both inside and outside an organization. It is measured with an instrument developed by Duncan (1972) that consists of 12 items, each using a

five point Likert scale. Task exception, which is the frequency of unexpected occurrence in a conversion process (Brownell and Dunk, 1991) as already mentioned, is measured using a five item questionnaire developed by Withey et al. (1983). Task analyzability, which was defined as the extent to which some of the activities or works can be reduced to programmable technical measures (Brownell and Dunk, 1991) is measured with a four item questionnaire developed by Withey et al. (1983). Information technology, the availability of facility and infrastructure for data processing, is measured using a three item questionnaire adopted and developed by Song et al. (2005). The variable Information System describes how the existing system in an enterprise has been established up to the present and should be maintained established in the future. This variable is measured using a ten item questionnaire adopted and developed in the study of Osborne (1994). Budgetary participation describes the involvement of subordinates by allowing them to organize their tasks according to like they think it best. It is measured using an instrument developed by Milani (1975), a questionnaire consisting of six questions. Performance of management, consisting of the achieving of goals, the completing of tasks and a good overall behavior, is measured by a nine item questionnaire developed by Mahoney (1965).

Data Analysis and Discussion Data Collection

Table 1
Data Collection

Questionnaire Information	Total
Distributed questionnaires	600
Returned questionnaires	600
Unusable questionnaires	56
Total questionnaires used	544
Return rate of response	100%
Rate of used questionnaires	90%

Source: Data are processed

The authors distributed questionnaires to 600 respondents, but 56 of them couldn't be used in subsequent analyses for various reasons and considerations,

for example because the respondents are managers who do not meet the eligibility criteria or the returned questionnaire was incomplete.

Full SEM (Structural Equation Model Analysis) Model

The validity testing indicated that some instruments have a factor loading of <0.4, and are thus removed from the analysis. Because of this reason, five items of ED, three items of IS, three items of budgetary participation and one item of the performance variable were eliminated.. The reliability testing was performed using construct Reliability (CR) to indicate the extent to which an instrument gives a relatively similar result when measured again for the same object. This is the case when the CR value exceeds 0.7, but a CR value between 0.6 and 0.7 is also acceptable if the indicators of the model were good, because they fulfilled the criterions of the SEM Assumptions (Ghozali, 2005). The results of reliability testing for all variables are valid.

Testing of SEM Assumptions

Evaluation of normality is performed using the criterion of critical ratio for a skewness value of \pm 2.58 at the level of significance of 0.01 (Ghozali, 2005). The test results indicated that the critical ratio for the skewness value for all indicators was normally distributed as it is less than 2.58. Outlier testing at a significance level of p < 0.0001 resulted in a value of 85.35, which means that all the cases were considered not as outliers if the Mahalnobis distance value is below 85.35. The test results showed that none of these cases has a Mahalnobis distance value which is higher than 85.35 and therefore it can be concluded that there are no outliers in the data. The test for multicollinearity of the determinant of sample covariance matrix indicated the value of 6.290. As that number is far from zero, it can be concluded that there is no multicollinearity problem and the data can be analyzed.

Feasibility Testing of Research Model

The research employed an absolute measure of fit for the purpose of evaluating overall model fit, for structural model and measurement model simultaneously (Ghozali, 2005). Indicators to be met in an absolute measure of fit are:

Table 2
Construct Goodness of Fit

Criteria	Ctical Value	Result	Conclusion	
	*)			
Chi-square	Small	905	Marginal	
Probability	≥0,05	0,000	Marginal	
CMIN/DF	≤2,00	1,640	Good	
GFI	≥0,90	0,762	Marginal	
RMSEA	≤0,08	0,620	Good	

Source: *) Hair et al. (1998), Arbuckle (1997), and data are processed

The table above indicated that there are two indicators eligible for concluding that the model is fit; CMIN/DF and RMSEA. The Chi-square test known to be very sensitive to large sample sizes is advisable to be ignored, and instead it is advised to rely on other goodness of fit tests (Byrne, 2010; Ghozali, 2005). Byrne (2010) suggested if there exist one or two goodness of fit criteria that have been met; the model can be considered as well-fitting.

Hypothesis Testing

The next step is hypothesis testing by output of regression weight as follows:

Table 3
Construct Goodness of Fit

Relationship	Estimate	р
Environmental Dynamism → Task Exception	.016	*000
Environmental Dynamism → Task Analyzability	.584	.003*
<i>Environmental Dynamism</i> → <i>Information Technology</i>	.345	.005*
Environmental Dynamism → Information System	.550	.003*
Environmental Dynamism → Budgetary Participation	.481	.007*
Task Exception → Budgetary Participation	360	*000
Task Analyzability → Budgetary Participation	209	.004*
<i>Information Technology</i> → <i>Budgetary Participation</i>	.117	.019*
<i>Information System</i> → Budgetary Participation	.132	.023*
Budgetary Participation → Performance	.354	*000

*significant 5%

Source: Data are processed

Hypothesis 1a stated that a dynamic environment is positively related to task exceptions, information technology, information systems, and budgetary participation. Based on the results of the hypothesis testing, a positive and significant standardized coefficient value is obtained, and thus it can be concluded that hypothesis 1a is statistically supported. Hypothesis 1b predicted a negative relationship between dynamic environment and task analyzability. From the hypothesis testing, a standardized coefficient of 0.584 and a p value of 0.003 were obtained. This gives evidence that a dynamic environment is positively related to task analyzability, therefore hypothesis 1b cannot be supported.

The results of the analysis are in accordance with those of previous studies, as described as follows: they confirm that dynamic environment plays an important role in information processing (Edmonds, 2001). The higher the dynamic level of an environment, the more positive is its relationship with TE. This means that there will arise many more unanticipated events or activities as a result of an uncertain surrounding environment. The results of the analysis are also in line with the findings of Tushman and Nadler (1978) and Bystrom (1999). A dynamic environment will generate sufficient needs for IT, or, to put it another

way, the higher the dynamic level of an environment, the more positive is its relationship with IT as a mean of information processing resulted from the dynamic environment. The findings agree with those of studies conducted by Galbraith (1973, 1977), Hubber (1990), Kendall (1997) and Song et al. (2005), who stated that dynamic environments require IT as tool to process information more optimally in decision making.

Dynamic environment turned out to be positively associated with the needs for the IS, which means that a maximum IS support will be able to cope with and anticipate changes in the dynamic environment, and this is in accordance with the results of the research by Lodr and Maher (1990) and Edmonds (2001). Kren (1992) used the term volatility to indicate that dynamic environments are positively related to budgetary participation; an increasingly dynamic environment will have increasingly needs for budgetary participation. The analysis also confirmed that an environment that is dynamic in nature did increase the budgetary participation.

The analysis indicated that H1b is not supported in this study. In theory, a dynamic environment lowers the TA, which is logical since the dynamic in an environment makes it impossible to analyze the various tasks on a simplistic and programmatic basis. How is it possible to make something very dynamic into a simple and programmed thing, as if homogeneity and stagnancy are frequent to occur? The results tell us that a positive relationship existed between the dynamic environment and TA, which is most likely because the respondents expect that the dynamic environment can be simplified to make it easier to obtain information and to make decisions. The respondents realized that their environment is dynamic but they hoped that the complexity of activities and processes in that dynamic environment can be simplified to facilitate the decision-making.

Hypothesis 2a stated that task exception is positively associated with information technology, information system, and budgetary participation. Based on the hypothesis testing, an estimated standardized coefficient that is positive and significant was obtained and made the authors think in the first instance hypothesis 2 would be supported. But then the authors found out that the

coefficients of the relationship with task exception are still significantly negative, and thus the hypothesis cannot be supported statistically. Hypothesis 2b claimed that a positive relationship exists between task analyzability and budgetary participation. With the hypothesis testing, estimated standardized coefficients of 0.029 and p = 0.004 were obtained, thus indicating that there is a negative relationship between task analyzability and budgetary participation, therefore the hypothesis 2b cannot be supported.

TA is negatively correlated to budgetary participation since the activities in a TA that can easily be simplified and programmed are often abound and thereby it is not urgent to deal with budgetary participation. The higher the TA, the lower the budgetary participation will be. This is in accord with the study by Chong and Johnson (2007). Meanwhile, IT and IS are positively correlated with budgetary participation, because sufficient availability of IT will help subordinates and managers to deal with necessary information and increase the budgetary participation. If IS is part of a plan it is also positively related to budgetary participation. This indicated that the maximum planning of a budget of an IS will support budgetary participation and facilitate decision-making.

The analysis indicated that TE is negatively related to budgetary participation. This means that the more unexpected events occur in the daily business, the lower the budgetary participation will be, because in such a case the respondents feel no necessity for budgetary participation, because they assume the activities of budgetary participation will be unpredictable. Managers feel that when TE is high, budgetary participation is not necessary to consider because it will lead to a suboptimal decision making which will not comply with the budgeting and always change.

Hypothesis 3 stated that budgetary participation is positively correlated to performance. From the hypothesis testing, an estimated standardized coefficient of 0.354 and p=0.00 was obtained, and thus indicates that budgetary participation and performance are indeed positively related, and hypothesis 3 is supported. Budgetary participation results in more optimal performance. This is due to the

fact that budgetary participation lets us know more activities and how to evaluate them.

Conclusion and Suggestion

The study concluded that (1) environmental dynamism is positively correlated to task exceptions, information technology, information system, and budgetary participation, (2) There is no negative relationship between environmental dynamism and task analyzability, (3) a positive relationship between task exceptions and budgetary participation does not exist, (4) a negative relationship exists between task analyzability and budgetary participation, (5) information technology and information system are positively correlated to budgetary participation, and that (6) there is a positive relation between budgetary participation and performance. Future research may compare budgetary participation among various business sectors, such as state owned enterprises and private owned enterprises or banking and non-banking financial institutions.

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