NATIONAL ROAD PROJECTS AS A KEY TO ECONOMIC GROWTH

THESIS

JOHN RAY P. PARDALES MARK JOSEPH V. ROBEA ROVI JANE R. DE JUAN

College of Economics, Management and Development Studies

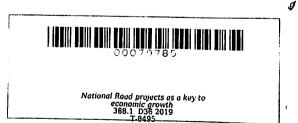
CAVITE STATE UNIVERSITY

Indang, Cavite

NATIONAL ROAD PROJECTS AS A KEY TO ECONOMIC GROWTH

Undergraduate Thesis
Submitted to the Faculty of the
College of Economics, Management, and Development Studies
Cavite State University
Indang, Cavite

In partial fulfillment of the requirements for the degree of Bachelor of Science in Economics



JOHN RAY P. PARDALES MARK JOSEPH V. ROBEA ROVI JANE R. DE JUAN June 2019

ABSTRACT

DE JUAN, ROVI JANE R., PARDALES, JOHN RAY P. and ROBEA, MARK JOSEPH V. "National Road Projects as a Key to Economic Growth". Undergraduate Thesis Bachelor of Science in Economics Cavite State University, Indang, Cavite. June 2019 Adviser Ms. Reinalene Joy M. Ayos.

The study was conducted to determine the contribution of National Road Projects to the Economic Growth of the Philippines, Determine the profile of the national road projects per region in the Philippines, Determine the historical patterns of the determinants of economic growth, Determine the relationship of national road projects to the determinants of economic growth in the Philippines, and Determine if there is significant relationship between the national road projects and total foreign investments per region in the Philippines.

Primary and secondary data were utilized in the study. The profiles of arterial and secondary national road projects, which includes total number of projects, allocation, total number of completed projects and disbursement were obtained personally from the Department of Public Works and Highways (DPWH) - Main Office. Meanwhile, the national roads covered by the Autonomous Region for Muslim Mindanao (ARMM) are not included in the DPWH national road data base. While the Gross Regional Domestic Product (GRDP), population, inflation rate, employment rate and total foreign investment were obtained from the Philippine Statistics Authority (PSA), concerning the determinants of economic growth.

The result of panel regression showed that national road projects had significant relationship to the gross regional domestic product and inflation rate in the Philippines. However, both inflation rate and gross regional domestic product had negative relationships. Other economic growth determinant such as employment rate, population and total foreign investment were statistically insignificant in this study.

TABLE OF CONTENTS

	Page
APPROVALSHEET	ii
BIOGRAPHICAL	iii
ACKNOWLEDGEMENT	vi
ABSTRACT	x
LIST OF TABLES	xiv
LIST OF FIGURES	xvi
INTRODUCTION	1
Statement of the Problem	3
Objectives of the Study	4
Significance	5
Scope and Limitation of the Study	6
Theoretical Framework	6
Conceptual Framework	7
Definition of Terms	7
REVIEW OF RELATED LITERATURE	9
METHODOLOGY	16

Research Design	17
Sources of Data	17
Data Gathered	17
Emphirical Model	18
Statistical Treatment	19
RESULTS AND DISCUSSION	20
Profiling of the National Road Projects	20
Total Number of Projects	20
Budget Allocation and Disbursement	29
Total Number of Completed Projects	48
Historical Pattern of Determinants of Economic Growth	57
Gross Regional Domestic Product (GRDP)	57
Population	61
Employment Rate	64
Inflation Rate	69
Total Foreign Investment	72
Relationship of National Road Projects to the	
Determinants of Economic Growth	76

Relationship of National Road Projects to the Total

Foreign Investment	80
SUMMARY, CONCLUSION AND RECOMMENDATIONS	83
Summary	83
Conclusion	84
Recommendations	85
REFERENCES	87
APPENDICES	Q1

LIST OF TABLES

	Page
Total number of projects of Arterial Roads,	
by region (2011-2015)	21
Total number of projects of secondary roads,	
by region (2011-2015)	26
Budget allocation of arterial road projects,	
by region (2011-2015)	31
Disbursement for Arterial Roads	
by region (2011-2015)	36
Budget allocation for secondary road	
projects, by region (2011-2015)	41
Disbursement for secondary road	
projects, by region (2011-2015)	45
Total number of completed Arterial road projects by region (20112015)	. 49
Total number of completed secondary road projects by region(20112015)	. 53
Gross Domestic Product of the Philippines, by region (2011-2015)	. 58
Population of the Philippines, by region (2011-2015)	62
Employment Rate of the Philippines, by region (2011-2015)	. 67
Inflation Rate of the Philippines, by region (2011-2015)	70
Total Foreign Investment of the Philippines, by region (2015-2018) ('000)	73
Summary of Panel Unit Root Test	76
Summary of Panel Data Regression	
(GRDP Model)	76
	by region (2011-2015) Total number of projects of secondary roads, by region (2011-2015) Budget allocation of arterial road projects, by region (2011-2015) Disbursement for Arterial Roads by region (2011-2015) Budget allocation for secondary road projects, by region (2011-2015) Disbursement for secondary road projects, by region (2011-2015) Total number of completed Arterial road projects by region (20112015) Total number of completed secondary road projects by region (20112015) Gross Domestic Product of the Philippines, by region (2011-2015) Population of the Philippines, by region (2011-2015) Employment Rate of the Philippines, by region (2011-2015) Inflation Rate of the Philippines, by region (2011-2015) Total Foreign Investment of the Philippines, by region (2011-2015) Total Foreign Investment of the Philippines, by region (2015-2018) ('000) Summary of Panel Unit Root Test Summary of Panel Data Regression

16	Hausman Test (GRDP Model)	77
17	Summary of Panel Data Regression	
	(Population Model)	78
18	Hausman Test (Population Model)	78
20	Hausman Test (Inflation Model)	79
21	Summary of Panel Data Regression	
	(Employment Model)	80
22	Hausman Test (Employment Model)	80
23	Summary of Panel Unit Root Test (Total Foreign	
	Investment Model)	81
24	Summary of Panel Data Regression	
	(Total Foreign Investment Model)	81
25	Hausman Test (Total Foreign Investment Model)	81

LIST OF FIGURES

Figure		Page
1	The Relationship of National Road Projects to the	
	Determinants of Economic Growth	7
2	Total number of projects of Arterial Roads,	
	by region (2011-2015)	22
3	Total Number of Projects of Arterial and Secondary	
	Road Projects (2011-2015)	27
4	Total number of projects of Secondary Roads,	
	by region (2011-2015	28
5	Allocation of Arterial Road Projects (2011-2015)	32
6	Disbursement of Arterial Road	
	Projects (2011-2015)	37
7	Allocation of Secondary Road Projects (2011-2015)	42
8	Disbursement of Secondary Road	
	Projects (2011-2015)	46
9	Budget Allocation of Arterial and Secondary Road	
	Projects (2011-2015)	47
10	Disbursement of Arterial and Secondary Road	
	Projects (2011-2015)	48
11	Total number of completed projects of Arterial	
	Road Projects (2011-2015)	52
12	Total number of completed projects of	
	Secondary Road Projects (2011-2015)	54
13	Total number of completed projects of Arterial and	
	Secondary Road Projects (2011-2015)	55
14	Gross Domestic Product of the Philippines, by	
	region (2011-2015)	59

15	Population of the Philippines,	
	by region (2011-2016)	62
16	Employment rate of the Philippines,	
	by region (2011-2016)	67
17	Inflation rate of the Philippines,	
	by region (2011-2016)	70
18	Total foreign investment of the Philippines,	
	by region (2011-2016)	79

NATIONAL ROAD PROJECTS AS A KEY TO ECONOMIC GROWTH

de Juan, Rovi Jane R. Pardales, John Ray P. Robea, Mark Joseph V.

An undergraduate thesis manuscript submitted to the faculty of the Department of Economics, College of Economics, Management, and Development Studies, Cavite State University, Indang, Cavite, in partial fulfilment of the requirements for the degree of Bachelor of Science in Economics, major in Business and Development Economics with Contribution No. CEMOS-E-2019-167 T Prepared under the supervision of Ms. Reinalene Joy M. Ayos.

INTRODUCTION

Enhancing the economic and social welfare of every citizen is the main objective of the nation. The long- term goal of the Philippine government is promoting the stable and standard living of all Filipinos, the reason for the government to make such projects according to the needs of a country. According to Arasan (2012), Transportation is an activity of life processes and seeks to provide access to various activities that satisfy mobility needs of humankind. The role of transportation is to provide and improve access to different locations for individuals and for businesses, for both personal and freight movements. Thus, transportation has a relationship to the economic growth of a country.

Philippines, especially to its most densely populated places such as Metro Manila has been suffering from traffic congestion all throughout its cities and its streets. It's been a frustration to be stuck in a queue of honking vehicles blocking the way between you and your target destination because of all various types of road problems that causes hindrances to all. According to the news and articles from Business Mirror, "Pinoys waste 28,000 hours in traffic". Cai Ordinario (2015), stated that translates to