BUCHAREST UNIVERSITY OF ECONOMIC STUDIES



Doctoral School of Management

DOCTORAL THESIS

Presented and publicly defended by the author:

Nguyen Thi Hoai Trinh

Title of the doctoral thesis:

THE IMPLICATION OF INVESTING IN THE HIGHER EDUCATION SYSTEM FOR ECONOMIC DEVELOPMENT AND PEOPLE'S LIVING STANDARDS

Doctoral Supervisor: Prof.univ.dr. Claudiu Constantin CICEA

București,

2024

BUCHAREST UNIVERSITY OF ECONOMIC STUDIES Council for Doctoral University Studies Doctoral School of Management

THE IMPLICATION OF INVESTING IN THE HIGHER EDUCATION SYSTEM FOR ECONOMIC DEVELOPMENT AND PEOPLE'S LIVING STANDARDS

Nguyen Thi Hoai Trinh

Doctoral Supervisor: Prof.univ.dr. Claudiu Constantin CICEA

THE COMMITTEE FOR THE PUBLIC DEFENSE OF THE DOCTORAL THESIS

1.	Prof. dr. Cezar SIMION (președinte)	- Academia de Studii Economice din București
2.	Prof. dr. Ana-Maria GRIGORE (referent)	– Universitatea București
3.	Prof. dr. Mircea DUICA (referent)	– Universitatea Valahia din Târgoviște
4.	Prof. dr. Cristian Silviu BANACU (președinte) -	- Academia de Studii Economice din București
5.	Prof. dr. Claudiu CICEA (conducător științific) -	- Academia de Studii Economice din București

București,

2024

TABLE OF CONTENTS

COMMITMENT	Error! Bookmark not defined.
THANK YOU	Error! Bookmark not defined.
TABLE OF CONTENTS	
LIST OF ACRONYMS	7
LIST OF TABLES	7
LIST OF FIGURES	7
LIST OF DIAGRAMS	7
CHAPTER 1: INTRODUCTION	Error! Bookmark not defined.
1.1. Urgency of the topic	Error! Bookmark not defined.
1.2. Scope, objectives, and key research tools	Error! Bookmark not defined.
1.3. New contributions of the thesis	Error! Bookmark not defined.
1.4. Thesis structure (short description)	Error! Bookmark not defined.
Part 1: Introduction.	Error! Bookmark not defined.
Part 2: The reality of investing in higher education	Error! Bookmark not defined.
Part 3: Main objectives and research methods	Error! Bookmark not defined.
Part 4: Conclusion	Error! Bookmark not defined.
CHAPTER 2	Error! Bookmark not defined.
STATE OF THE ARTS REGARDING INVESM EDUCATION	
2.1. Investment concept for education	Error! Bookmark not defined.
2.1.1. Concept of investment	Error! Bookmark not defined.
2.1.2. A short brief history of investment	

	Types of investment	Error! Bookmark not defined.
2.2. Ec	conomic development H	Crror! Bookmark not defined.
2.2.1.	What is economic development	Error! Bookmark not defined.
2.2.2.	Economic development and Economic growth	Error! Bookmark not defined.
2.2.3.	Type of economic development	Error! Bookmark not defined.
2.2.4.	Actual trends in economic development	Error! Bookmark not defined.
2.3. Li	ving standards H	Crror! Bookmark not defined.
2.3.1.	Overview of living standards	Error! Bookmark not defined.
2.3.2.	Living standards versus quality of life	Error! Bookmark not defined.
2.3.3.	Standard of living measures	Error! Bookmark not defined.
SUMN	AARY OF CHAPTER 2	Error! Bookmark not defined.
CHAPTER 3: THE SITUATION OF INVESTMENT IN HIGHER EDUCATION FOR THE ECONOMIC DEVELOPMENT AND LIVING STANDARDS OF THE PEOPLE IN VIETNAM		
THE I 3.1. O		. Error! Bookmark not defined.
THE I 3.1. O	PEOPLE IN VIETNAM	. Error! Bookmark not defined.
THE I 3.1. O ⁻ de	PEOPLE IN VIETNAM	. Error! Bookmark not defined. Error! Bookmark not Error! Bookmark not defined.
 THE I 3.1. Or de 3.1.1. 3.1.2. 3.2. TI 	PEOPLE IN VIETNAM	. Error! Bookmark not defined. Error! Bookmark not Error! Bookmark not defined. Error! Bookmark not defined.
 THE I 3.1. Or de 3.1.1. 3.1.2. 3.2. TI 	PEOPLE IN VIETNAM verview of public higher education in Vietnam fined. Model of public higher education management Number of public university students	. Error! Bookmark not defined. Error! Bookmark not Error! Bookmark not defined. Error! Bookmark not defined. n VietnamError! Bookmark
 THE I 3.1. Order 3.1.1. 3.1.2. 3.2. The not 	PEOPLE IN VIETNAM verview of public higher education in Vietnam fined. Model of public higher education management Number of public university students ne situation of investment in higher education is of defined.	. Error! Bookmark not defined.
 THE I 3.1. Order 3.1.1. 3.1.2. 3.2. The not state of the state o	PEOPLE IN VIETNAM	. Error! Bookmark not defined. Error! Bookmark not Error! Bookmark not defined. Error! Bookmark not defined. h VietnamError! Bookmark Error! Bookmark not defined.
 THE I 3.1. Or de 3.1.1. 3.1.2. 3.2. The not state of the state o	PEOPLE IN VIETNAM	Error! Bookmark not defined. Error! Bookmark not Error! Bookmark not defined. Error! Bookmark not defined. VietnamError! Bookmark Error! Bookmark not defined. Error! Bookmark not defined.

3.2.6.	Occupation	Error! Bookmark not defined.	
3.2.7.	Unemployment	Error! Bookmark not defined.	
3.3. Current status of people's living standard in Vietnam Error! Bookmark not defined.			
3.3.1.	Average income	Error! Bookmark not defined.	
3.3.2.	Expenditure per capita on food and necessities	Error! Bookmark not defined.	
3.3.3.	Household scale	Error! Bookmark not defined.	
3.3.4.	Education	Error! Bookmark not defined.	
3.3.5.	Health care	Error! Bookmark not defined.	
3.3.6.	Housing and durable goods	Error! Bookmark not defined.	
3.3.7.	Multidimensional poverty and inequality	Error! Bookmark not defined.	
3.3.8.	Human Development Index (HDI)	Error! Bookmark not defined.	
3.4. Vi	3.4. Vietnam Economic growth Error! Bookmark not defined.		
SUMM	IARY OF CHAPTER 3	Error! Bookmark not defined.	
СНАР	FER 4: RESEARCH METHODOLOGY	Error! Bookmark not defined.	
4.1. Th	eoretical basis	Error! Bookmark not defined.	
4.1.1.			
7.1.1.	Related concepts	Error! Bookmark not defined.	
4.1.2.	Related concepts The role of human capital in economic development		
	-	tError! Bookmark not defined.	
4.1.2. 4.1.3.	The role of human capital in economic development	atError! Bookmark not defined. Error! Bookmark not defined.	
4.1.2. 4.1.3.	The role of human capital in economic development	utError! Bookmark not defined. Error! Bookmark not defined. Error! Bookmark not defined.	
4.1.2. 4.1.3. 4.2. Re	The role of human capital in economic development The role of education in economic development	utError! Bookmark not defined. Error! Bookmark not defined. Error! Bookmark not defined. Error! Bookmark not defined.	

4.3. Education and income – School attendance model...... Error! Bookmark not defined.

4.4. Mincer income function...... Error! Bookmark not defined.

4.4.1. The efficiency of investment in school attendance Error! Bookmark not defined.

4.4.2. Invest in training during working time (Post-School Investment) ... Error! Bookmark not defined.

4.4.3. Empirical evidence with the Mincer income function model.... Error! Bookmark not defined.

4.5. Research approach methods	Error! Bookmark not defined.	
4.6. Analytical framework for research	Error! Bookmark not defined.	
4.7. Research process	Error! Bookmark not defined.	
4.8. Sampling method / sample size	Error! Bookmark not defined.	
4.9. Type of data and data collection for research	Error! Bookmark not defined.	
4.9.1. Type of data used in the study	Error! Bookmark not defined.	
4.9.2. Collecting data	Error! Bookmark not defined.	
4.10. Data analysis methods	Error! Bookmark not defined.	
SUMMARY OF CHAPTER 4	Error! Bookmark not defined.	
CHAPTER 5: RESEARCH RESULTS	Error! Bookmark not defined.	
5.1. Descriptive statistics of survey sample characteristics Error! Bookmark not defined.		
5.2. Factors affecting employee's income Error! Bookmark not defined.		
5.3. The upward trend in income inequality amo defined.	ng workers.Error! Bookmark not	
5.3.1. Gender	Error! Bookmark not defined.	
5.3.2. Place of residence	Error! Bookmark not defined.	

5.3.3.	Schooling years	.Error! Bookmark not defined.
5.3.4.	Degree	Error! Bookmark not defined.
5.3.5.	Field of work	Error! Bookmark not defined.
5.3.6.	Work experience	Error! Bookmark not defined.
5.3.7.	Number of working hours per week	Error! Bookmark not defined.
5.3.8.	Number of family members	Error! Bookmark not defined.
5.3.9.	Economic sector group	Error! Bookmark not defined.
5.4. Probability of household reinvestment in higher education Error! Bookmark not defined.		
5.4.1.	Survey statistics on reinvestment in higher education	Error! Bookmark not defined.
5.4.2. Factors affecting the decision to reinvest in higher education of households Error! Bookmark not defined.		
SUMM	IARY OF CHAPTER 5	Error! Bookmark not defined.
	TER 6: SUMMARY OF FINDINGS, CONCLU MMENDATIONS	
6.1. Summary of findings Error! Bookmark not def		rror! Bookmark not defined.
6.2. Co	nlusionsE	rror! Bookmark not defined.
6.4. Recommendations		rror! Bookmark not defined.
6.4.1. Recommended solutions for management levels and universities Error! Bookmark not defined.		
6.4.2. defined	Limitations of the thesis and extensive research of .	rientationError! Bookmark not
Bibliog	graphy	Error! Bookmark not defined.
Appendix 1 FAMILY INCOME SURVEY QUESTIONNAIRE Error! Bookmark not defined.		
	dix 2 DETAIL TABLES REGARDING THE	IPWARD TREND IN

LIST OF ACRONY LIST OF TABLES LIST OF FIGURES LIST OF DIAGRAMS

CHAPTER 1: INTRODUCTION

Investment in higher education is essential for economic development and improving living standards. Higher education institutions contribute to the creation and dissemination of knowledge, workforce training, and human capital development. Governments and policymakers increasingly recognize the role of higher education in stimulating economic growth and social progress, leading to higher productivity, increased wages, and improved social mobility. Additionally, higher education stimulates innovation and entrepreneurship, driving technological progress. Studies show that investments in higher education improve employment prospects and incomes, thereby raising living standards. Academic institutions are sources of technological innovation, crucial for economic development. As the world becomes more globalized and technology advances rapidly, investments in higher education are vital to remain globally competitive and to meet the demands of the changing job market. Higher education promotes social and economic mobility, reducing poverty and income inequality. However, investments must be efficient to maximize impact, and the risk of brain drain is a challenge. In conclusion, investments in higher education significantly impact economic growth and the well-being of the population, being essential for reducing inequalities and adapting to technological changes.

The fundamental objective of this thesis is to analyse the relationship and interaction between investments in the higher education system and economic development and the population's living standards (especially in Vietnam). Additionally, the thesis aims to identify future trends in the relationship between investments in higher education and economic development and living standards.

The main research tools of the thesis are qualitative and quantitative research methods. Qualitative research methods include document review, theoretical generalization, and comparative method. Quantitative research methods include data synthesis and processing methods and analytical methods, such as statistical analysis, logistic regression method, one-way ANOVA analysis, and binary regression analysis.

CHAPTER 2: THE STATE OF THE ART IN HIGHER EDUCATION INVESTMENTS

Chapter 2 presents the concepts of investment, economic development, and living standards. Investment refers to the allocation of resources for a specific project or objective to generate income or profit. It can be classified based on the source of financing, the sector of manifestation, the method of production, and the objective. The source of financing can be public or private, while the sector of manifestation can be industry, agriculture, tourism, construction, transportation, education, or health. Depending on the nature of the targeted objective, the investment can be for new objectives or for modernizing existing ones.

Economic development refers to the growth of an economy, measured by various indicators, such as GDP, employment rate, per capita income, and living standards. Economic development is often seen as a means to improve people's living standards by increasing their access to goods and services, creating employment opportunities, and enhancing the overall quality of life.

Living standards refer to the level of economic well-being of individuals, including factors such as income, education, healthcare, and access to basic needs, such as food, water, and housing. Investments play a crucial role in promoting economic development and improving living standards by creating jobs, enhancing infrastructure, and fostering innovation.

CHAPTER 3: THE SITUATION OF HIGHER EDUCATION INVESTMENTS FOR ECONOMIC DEVELOPMENT AND LIVING STANDARDS IN VIETNAM

Chapter 3 analyzes the situation of higher education investments in Vietnam based on state budget allocation, social investments, and household investments. The research indicates that the level of investment in higher education compared to other educational levels is disproportionately low, despite a consistent increase in the size of higher education over the years.

In this chapter, the author addresses the labor market size, employment, and unemployment situation up to 2021 in Vietnam. The complex and prolonged impact of consecutive waves of the Covid-19 pandemic has posed greater challenges for the labor market in 2021 compared to 2020. The workforce and the number of employed persons have decreased, while underemployment and unemployment rates have increased. The size of the workforce with university or higher education has shown a slight increase over the years.

In 2022, the country's economic and social situation continued to be affected by the Covid-19 pandemic, with signs of recovery in the second half of the year. The population tends to restrict spending in 2022 due to the impact of various factors, and consumer behavior may change due to the effects of the pandemic. Rising prices (basic goods, fuel prices), limitations in service supply (dining out, tourism, entertainment) contribute to this trend. Although average per capita spending decreases, average per capita income tends to increase compared to the previous year, marking the recovery of household life after the pandemic. Inequalities in society persist between urban and rural areas, regions, and between low-income and high-income groups. Therefore, post-pandemic recovery policies should focus on the more vulnerable groups in society.

CHAPTER 4: RESEARCH METHODOLOGY

In Chapter 4, the study introduces the theoretical basis, and the author proposes a research model regarding factors that affect employees' incomes. This chapter also argues the relationship between the variables in the research model to build research hypotheses

that answer the posed questions. The research required a process of analyzing previous approaches, determining sample size, sampling methods, and analytical methods to achieve the proposed research objectives.

CHAPTER 5: RESEARCH RESULTS

This chapter pursued four main aspects of analysis. Firstly, the characteristics of the survey sample were analyzed, with detailed demographic aspects presented. Secondly, the extent to which the variation of the dependent variable can be attributed to the variation of the independent variables was highlighted. The results showed that the level of education has the strongest impact on household head income, followed by the number of hours worked and the field in which the household head works. Gender and household size also positively influence, albeit to a lesser extent. Thirdly, the study tested if there are differences between the populations of independent variables concerning the dependent variable. The results show no gender, experience, or residence differences related to income. However, for other variables, there are such differences for the dependent variable of household income. Consequently, the following conclusions were highlighted: there are felt differences in income level depending on education level, field of activity, hours worked, and occupation.

CHAPTER 6: SUMMARY OF FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

The thesis concludes by addressing whether the relationship between investments in higher education and economic development and living standards is bidirectional. The thesis establishes the relationship between investments in higher education and economic development and living standards and identifies future trends for developing this relationship. From here, the author proposes several solutions to further strengthen and develop this relationship. While this thesis contributes valuable information to this research field, it is imperative to recognize certain inherent limitations of the research design. Recognizing these constraints is crucial for a nuanced understanding of the study's results and to guide future research efforts.