

ECON 4903 Research

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How Natural Disasters affect Economy?



自然災害如何影響經濟發展?

English Presentation

Introduction

- Natural disasters took away 60,000 people's life and 160 million of people were affected every year (World Health Organization)
- Immediate economic losses vs. Investment in reconstruction
- Taking all negative and positive effects into account, will the economy be worse off or better off?
- Research purpose:
- 1. To study how natural disasters affect economic performance;
- 2. What factors contribute to different growth rate between developed and developing countries

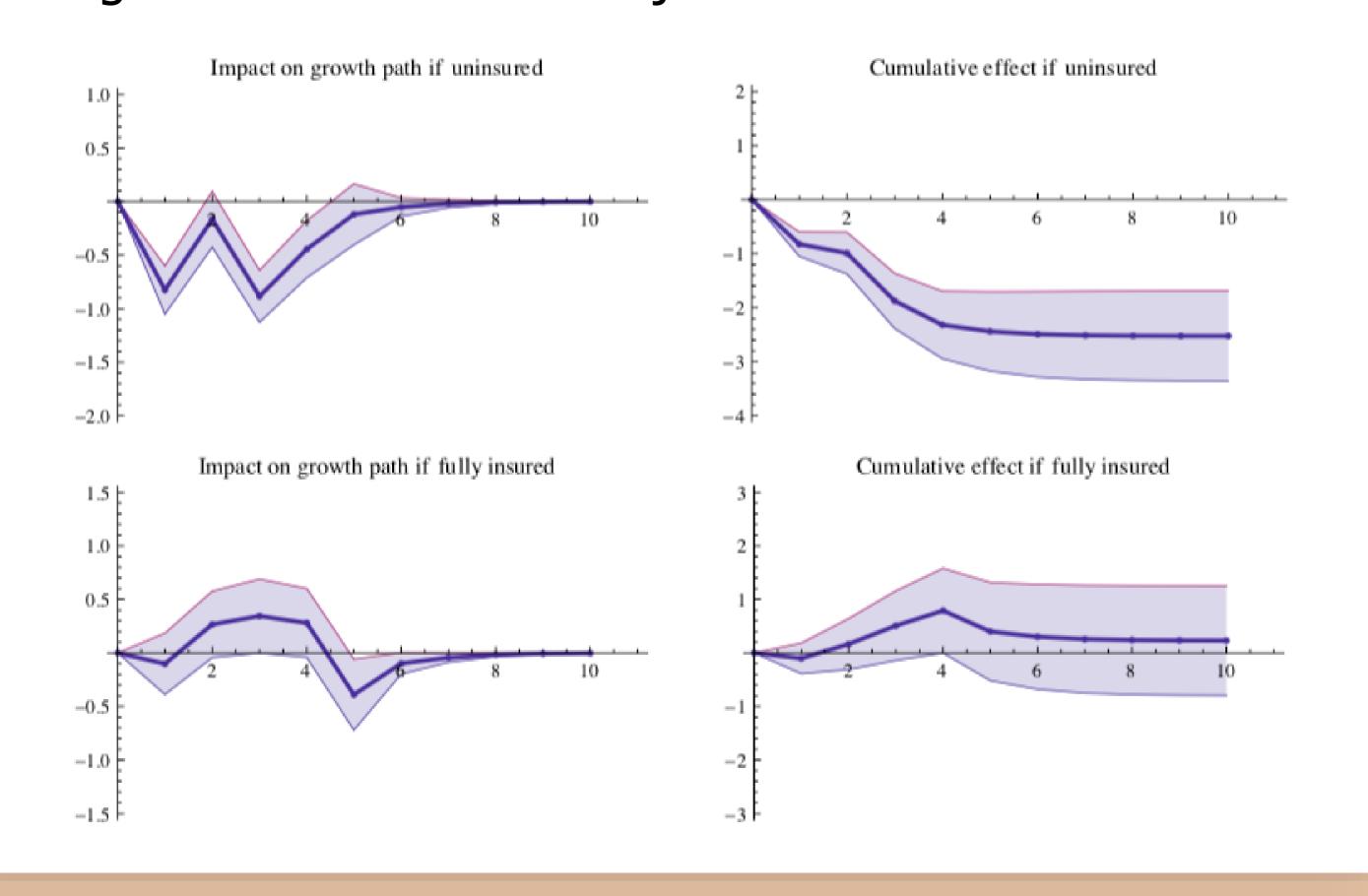
Data and Methodology

- Case Study: New Zealand, Haiti, Indonesia and Japan
- All 4 countries experienced serious earthquake in 2010, hitting at least 7.0 magnitude
- But encountered different economic consequences after disasters
- Compare the economic indicators to see whether the 4 countries had different speed of recovery
- Economic Indicators: GDP growth rate, GDP per capita, Unemployment rate and Inflation
- Time Horizon: Short term (<1 year), Medium term (1 to 2 years), Long term (>2 years)



Conclusion and Policy Implication

- Developed countries are less affected and recovered faster because of:
- 1. more sophisticated financial market, which provide the country with better insurance
- 2. higher foreign reserves
- 3. greater degree of investment to technology which prevent large scale of death and injured



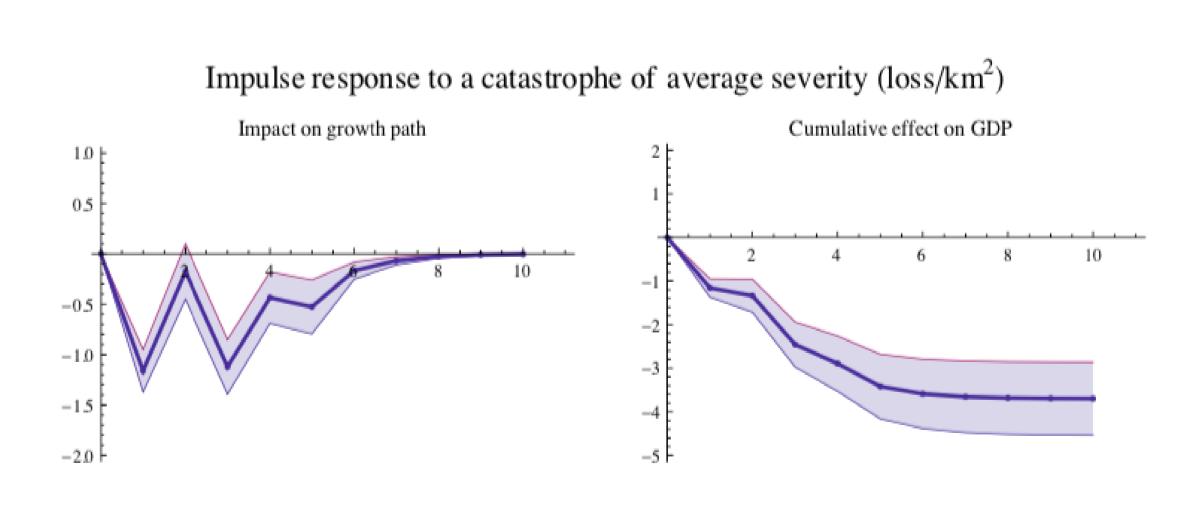
Findings and Results



Economic Analysis

 The results show that natural disasters will not necessarily bring damage to economy (especially for developed countries)

	Japan	New Zealand	Haiti	Indonesia
GDP growth rate	4%	1.5%	-3%	6%
Unemployment rate	5.1%	6.5%	13%	5.6%
Inflation	-2%	3%	1%	15%



- Short term: All countries had immediate economic response to the earthquake. However the effect for developed countries were not big.
- Medium term: Japan and New Zealand started recovering in medium term quickly, while Indonesia and Haiti still observed a loss in the affected region.
- Long term: Haiti took the longest time to recover, which was about 4 years.