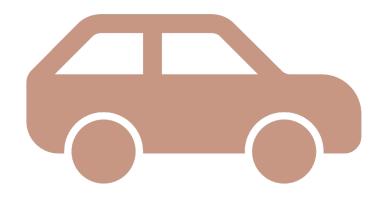
What is the relationship between investor sentiment towards automobile manufacturers involved in fatal accidents with non-deployed airbags and the company's cost of capital in the following year?

Aidan McGaugh

Basic Motivation

- Question Answered: how incidents of fatal accidents involving non-deployed airbags affect investor sentiment towards automobile manufacturers, and how this sentiment translates into changes in the companies' cost of capital in the subsequent year.
- Why should we care?
- Why is the answer not obvious?
- What are the economic mechanism at play that are driving this question?

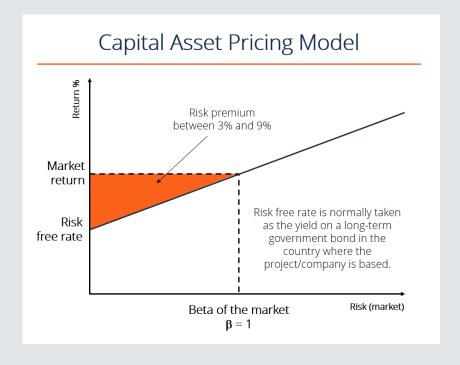


Related Literature

- "The Impact of Product Recalls on Future Product Reliability and Future Accidents: Evidence from the Automobile Industry" by <u>Kartik</u> <u>Kalaignanam</u>, <u>Tarun Kushwaha</u>, <u>Meike Eilert</u> (2013)
- "Crisis Management Strategies and the Long-Term Effects of Product Recalls on Firm Value" by Yan Liu, Venkatesh Shankar, Wonjoo Yun (2017)
- "The Liability of Good Reputation: A Study of Product Recalls in the U.S. Automobile Industry" by Mooweon Rhee, Pamela R. Haunschild (2006)
- "Corporate governance and market valuation of capital and R&D investments" by <u>Kee</u>
 H. Chung, <u>Peter Wright</u>, <u>Ben Kedia</u> (2003)

Data

- National Highway Traffic Safety Administration's Fatality Analysis Reporting System
- Data on a company's cost of capital
- 1. Cost of Debt
- 2. Cost of Equity
- 3. Weighted Average Cost of Capital (WACC)



Methodology

- Difference-in-Difference Equation for
 CostOfCapitalit=80+81 ·PostAccidentit+82 ·TreatmentGroupi+83 ·Post
 Accidentit×TreatmentGroupi+Xit'84+αi+γt+εit
- Fixed Effects Panel Data Analysis

Potential Results

- 1. Significant Increase in Cost of Capital
- 2. No Significant Change in Cost of Capital
- 3. Decrease in Cost of Capital
- 4. Heterogeneous Effects

