

Firm Policies and Active Ownership Investors

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Firm policies and active ownership investors

- How do **institutional investors** affect **firm policies**?
- Two polar forms of influence:
 - **Activist investors** – Activist campaigns – Buy, enact change, sell
 - **Passive investors** – Index funds – Can affect firms through voice (not-exit)
- How about **active ownership** investors?
 - Pension funds, mutual funds, sovereign wealth funds...
 - Diversified, long-term oriented portfolios
 - Away from the benchmark, active
 - Infrequent re-balancing, no churning
- Can active ownership investors affect firm policies?

A Specific Class of Active Investors - Sovereign Wealth Funds

- Particular type of **Active Investors: Sovereign Wealth Funds (SWFs)**
 - Collectively, 94 SWFs manage \$7.5 trillion (9% of all listed shares globally)
- They often have **specific preferences** about issues **beyond returns**:
 - New Zealand (Green Investments)
 - Qatar (Country Branding)
 - Norwegian Fund (Good Corporate Governance)

Focus on **firm's reaction** to **changes** in **fund preferences**

This paper:

Use an unexpected change in the governance preferences of **Norwegian Bank Investment Management's (NBIM)** to see its impact on firm's governance.

- November 2012: **NBIM** announces emphasis on effective corporate governance.
 - Board accountability and composition
 - Equal shareholder voting

Unexpected announcement earlier that year, slowly filtered during 2012.

- **Research questions:**

- Did NBIM really **target** its investment to its newly stated **specific preferences**?
- Did firms **react** to the change preferences?

Norges Bank Investment Management

- **Norges Bank Investment Management** World's largest sovereign wealth fund.
Assets \$1,010 billion. \$642 billion in stocks of more than 9,000 firms.
- **Governance strategy**
 - Actively **engage** with firms
 - **Exclude** firms that fail to engage with NBIM (part of investment strategy too)
 - Participate in (but not initiate) **activist campaigns**
- **Investment strategy:**
 - Benchmark **FTSE Global Cap** x **country corrections** reflect economic exposure.
 - Over-Under weight firms according to **expected performance** and **governance**.
 - Exclude firms that do not fulfill the **Ethics committee** principles

Norges Bank Investment Management

- Investment intensity
 - For firm i , in country c at time t

$$\text{Investment}_{it} = I(\text{ethics}=1) \times I(\text{engage}=1) \times (\text{FTSE Global}_{it} \times \text{Country}_c + \text{Stance}_{it})$$

Norges Bank Investment Management

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- Exogenous to the Fund.
- Discretionary elements

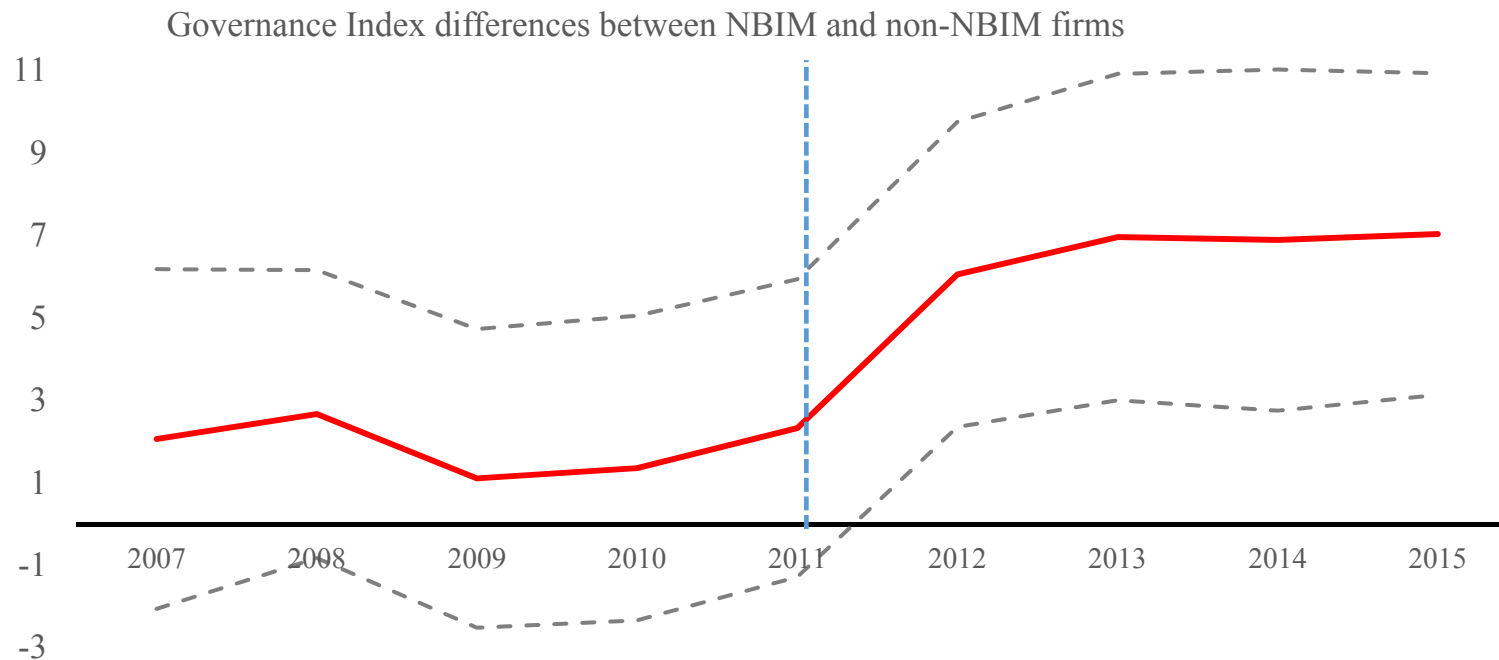
$$\text{Weight}_{it} = \text{Investment}_{it} / \sum_{i=1}^I (\text{Investment}_{it})$$

Empirical approach

- NBIM specific measure of governance reflecting NBIMs (new) preferences
 - Eikon ESG **Management score** at a **firm-year** level.
 - Equally weighted sum of the **firm rank** over **32 indicators**
(CEO-Chairman separation, board background and skills, independent board members, board cultural diversity, etc)
- **Difference in differences** approach using the change in preferences
Period 2009-2015 - 2,956 (1,273) firms inside (outside) NBIM in Dec 2015
- Decompose effects into
 - Changes in the **investment strategy** of **NBIM**
 - Changes of the **governance strategy** of **firms**
 - Marginal effects

Effect of the Announcement on the Overall Governance Levels of NBIM

Overall effect



$$Governance_{it} = \alpha_t + \sigma_t NBIM_{it} + \varepsilon_i$$

σ estimates from yearly cross-sectional regressions (90% confidence intervals).

Decomposition of the Overall Effect

Change in the governance index of the NBIM portfolio (firm i, period t)

$$\bullet \Delta G_t = \sum_{i=0}^I w_{it+1} g_{it+1} - \sum_{i=0}^I w_{it} g_{it}$$

Decompose weights and individual indices into levels and changes

$$\bullet \Delta G_t = \sum_{i=0}^I (w_{it} + \Delta w_{it})(g_{it} + \Delta g_{it}) - \sum_{i=0}^I w_{it} g_{it}$$

Re - arrange

$$\bullet \Delta G_t = \sum_{i=0}^I \Delta w_{it} g_{it} + \sum_{i=0}^I w_{it} \Delta g_{it} + \sum_{i=0}^I \Delta w_{it} \Delta g_{it}$$

Overall Change Re-weighting Change in governance Cross product

Decomposition of the Overall Effect

Change in the governance index of the NBIM portfolio (firm i, period t)

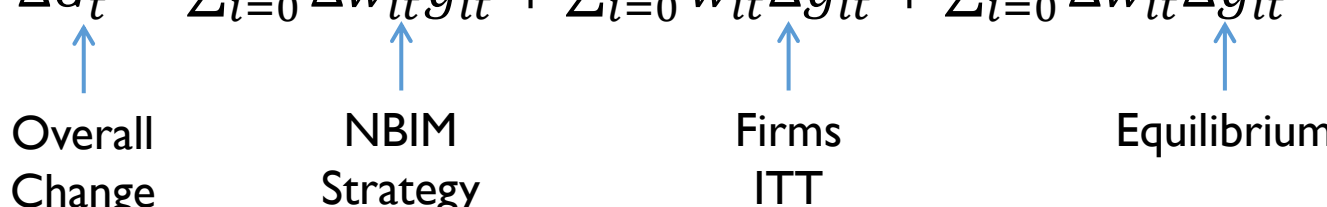
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$$\bullet \Delta G_t = \sum_{i=0}^I \Delta w_{it} g_{it} + \sum_{i=0}^I w_{it} \Delta g_{it} + \sum_{i=0}^I \Delta w_{it} \Delta g_{it}$$


Overall Change NBIM Strategy Firms ITT Equilibrium

Effect of the Announcement on the Investment Strategy of NBIM

Governance Levels

Change in NBIMs investment strategy after the announcement

Did the fund re-balance its portfolio according to new governance guidelines?

*First step: fix firm **governance types**.*

- Set firm-level governance levels to the **pre-period (2011)** - Governance_{i2011}

*Second step: **Investment strategy**.*

Relate entry (and exit) to firm types in a difference-in-differences specification.

$$\text{Governance}_{i2011} = \sigma \text{POST}_{(t \geq 2012)} * \text{NBIM entry}_{it} + \text{NBIM entry}_{it} + \text{YEAR}_t + \varepsilon_{it}$$

Do firms that enter (exit) NBIM have better (worse) governance post-announcement?

Does NBIM enter good governance firms after the announcement?

| Control group → | Non-NBIM | NBIM | ALL |
|-------------------|----------|------|-----|
| NBIM enter * Post | | | : |
| Observations | | | |
| R-squared | | | |

NBIM entry = 1 if firm enters and remains in NBIM for at least 2 years

$$\text{Governance}_{i2011} = \sigma \text{POST}_{(t \geq 2012)} * \text{NBIM entry}_{it} + \text{NBIM entry}_{it} + \text{YEAR}_t + \varepsilon_{it}$$

Does NBIM enter good governance firms after the announcement?

| Control group → | Non-NBIM | NBIM | ALL | Non-NBIM | NBIM | ALL |
|-------------------|----------|----------|---------|----------|----------|---------|
| NBIM enter * Post | 4.426* | 5.889*** | 5.486** | 6.406** | 7.916*** | 7.451** |
| | (2.501) | (2.196) | (2.196) | (3.241) | (2.990) | (2.993) |
| Observations | 2,906 | 14,892 | 17,026 | 2,572 | 14,558 | 16,692 |
| R-squared | 0.003 | 0.004 | 0.002 | 0.004 | 0.002 | 0.001 |

NBIM entry = 1 if firm enters and remains in NBIM for at least 2 years

Discretionary Investments Only

$$\text{Governance}_{i2011} = \sigma \text{POST}_{(t \geq 2012)} * \text{NBIM entry}_{it} + \text{NBIM entry}_{it} + \text{YEAR}_t + \varepsilon_{it}$$

Does NBIM exit poor governance firms after the announcement?

| Control group → | Non-NBIM | NBIM | ALL |
|------------------|----------|------|-----|
| NBIM exit * Post | | | |
| Observations | | | |
| R-squared | | | |

NBIM exit = 1 if firm leaves the portfolio for at least 2 years

$$\text{Governance}_{i2011} = \sigma \text{POST}_{(t \geq 2012)} * \text{NBIM exit}_{it} + \text{NBIM exit}_{it} + \text{YEAR}_t + \varepsilon_{it}$$

Does NBIM exit poor governance firms after the announcement?

| Control group → | Non-NBIM | NBIM | ALL | Non-NBIM | NBIM | ALL |
|------------------|----------|---------|---------|----------|----------|----------|
| NBIM exit * Post | -5.807* | -5.058* | -5.311* | -7.661** | -6.954** | -7.184** |
| | (3.268) | (2.954) | (2.956) | (3.442) | (3.120) | (3.123) |
| Observations | 2,651 | 14,637 | 16,771 | 2,596 | 14,582 | 16,716 |
| R-squared | 0.003 | 0.001 | 0.001 | 0.004 | 0.002 | 0.001 |

NBIM exit = 1 if firm leaves the portfolio for at least 2 years

Discretionary Divestitures Only

$$\text{Governance}_{i2011} = \sigma \text{POST}_{(t \geq 2012)} * \text{NBIM exit}_{it} + \text{NBIM exit}_{it} + \text{YEAR}_t + \varepsilon_{it}$$

Does NBIM change strategy after the announcement?

- NBIM investment strategy aligns with the announced preferences
 - After the announcement entrants have better inherent governance
 - After the announcement, exits have worse inherent governance
- Effects stronger for discretionary investment changes
- Entry/exit provides incentives for firms to improve governance

Effect of the Announcement on the Firm Governance of NBIM Holdings

The effect on governance of NBIM portfolio firms

Relationship of interest:

$$\text{Governance}_{it} = \sigma \text{POST}_{(t \geq 2012)} * \text{NBIM}_{it} + \text{YEAR}_t + \text{Firm}_i + \varepsilon_{it}$$

NBIM_{it} takes value one if the firm belongs to the NBIM and zero otherwise

- Problem: NBIM_{it} may be correlated with ε_{it} :
(e.g. firms with better/improved governance more likely to be added to the fund)

- Solution: **Instrument NBIM_{it} with NBIM_{i2011}**

Reduced-form regression is:

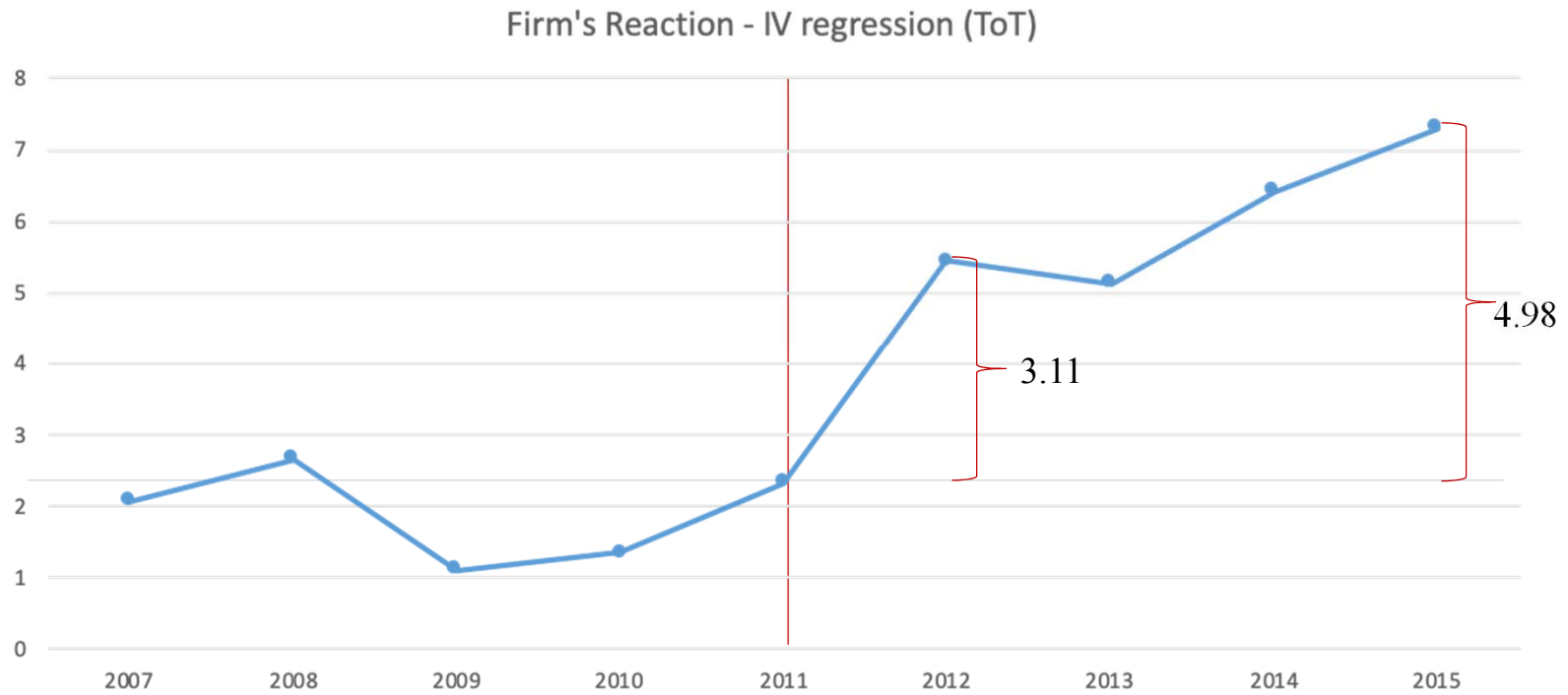
$$\text{Governance}_{it} = \sigma \text{POST}_{(t \geq 2012)} * \text{NBIM}_{i2011} + \text{YEAR}_t + \text{Firm}_i + \varepsilon_{it}$$

The effect on governance of NBIM portfolio firms (ITT)

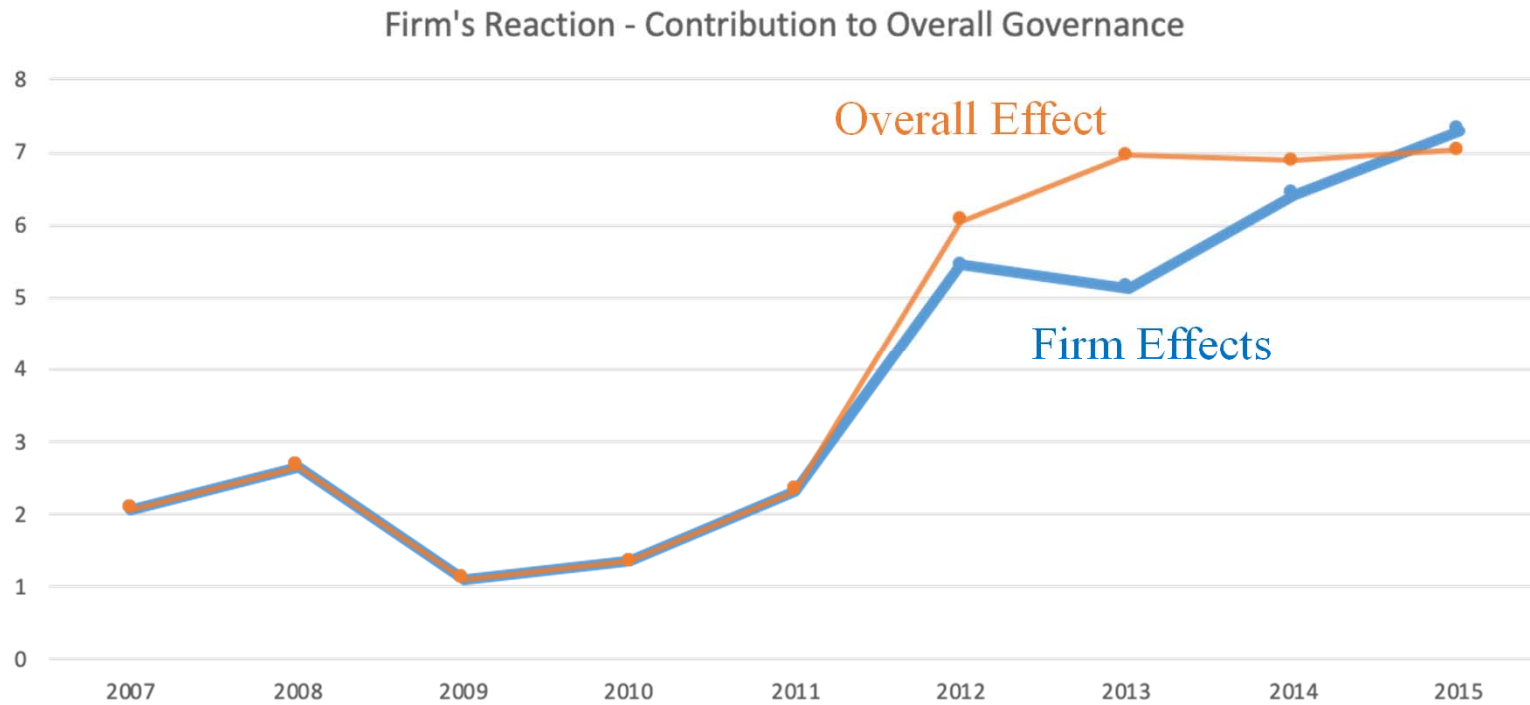
| | (1) | (2) | (3) |
|-----------------------------|---------------------|---------------------|---------------------|
| NBIM*Post | 5.912*** (1.785) | 4.913*** (1.299) | |
| NBIM*year2010 | | | 0.639 (1.422) |
| NBIM*year2011 | | | 2.349 (1.569) |
| NBIM*year2012 | | | 5.293*** (1.746) |
| NBIM*year2013 | | | 4.984*** (1.836) |
| NBIM*year2014 | | | 6.246*** (2.060) |
| NBIM*year2015 | | | 7.072*** (1.994) |
| Year & Post*Country dummies | Yes | Yes | Yes |
| Firm F.E. | No | Yes | Yes |
| Observations | 14,966 | 14,966 | 14,966 |
| R-squared | 0.035 | 0.024 | 0.025 |

- Dependent variable: Governance_{it}
- NBIM = 1 if firm is part of NBIM in 2011.
- Large governance improvement for firms in the NBIM portfolio
- Reduced form effect 4.9
- Important effect at announcement.
- Effect is increasing over time

The effect on governance of NBIM portfolio firms (ToT)



The effect on governance of NBIM portfolio firms (ToT)



The effect on governance of NBIM portfolio firms (ITT)

| | (1) | (2) | (3) | (4) |
|--------------------------------|---------------------|---------------------|---------------------|---------------------|
| NBIM*Post | 4.913*** (1.299) | | 4.119*** (1.462) | |
| FTSE*Post | | 3.089*** (1.085) | 1.444 (1.216) | |
| OnlyNBIM*Post | | | | 3.863** (1.953) |
| NBIMFTSE*Post | | | | 5.171*** (1.551) |
| OnlyFTSE*Post | | | | 1.105 (2.851) |
| Excluded-ethics*Post | | | | -1.949 (4.134) |
| Firm F.E. | Yes | Yes | Yes | Yes |
| Year & Post*Country dummies | Yes | Yes | Yes | Yes |
| Observations | 14,966 | 14,966 | 14,966 | 14,966 |
| R-squared | 0.024 | 0.023 | 0.025 | 0.025 |

- Improvements in governance of FTSE-global firms are only present for NBIM firms.
- NBIM only firms also experience governance improvements.
- Effect is not present for excluded firms

Skin in the firm vs. Strong voice

| | (1) Fund % | (2) Firm % |
|----------------------------|-------------------|-------------------|
| Post* I(% quartile1) | 4.26*** (1.51) | 1.52 (2.12) |
| Post* I(% quartile2) | 4.71*** (1.48) | 3.75** (1.62) |
| Post* I(% quartile3) | 4.82*** (1.46) | 4.86*** (1.63) |
| Post* I(% quartile4) | 5.76*** (1.45) | 8.50*** (1.70) |
| Year dummies and firm F.E. | Yes | Yes |
| Post*Country dummies | Yes | Yes |
| Observations | 14,966 | 14,910 |
| R-squared | 0.02 | 0.02 |

Relative importance of

- Fund holding as % **of the firm**
- Firm as % **of the fund** holdings

- The fund % has mostly an impact on the extensive margin.
- Small effect of fund % on the intensive margin.
- The firm % impacts governance both on the extensive and intensive margin.

Do firms change strategy after the announcement?

- After the announcement included firms increase their governance index
- Both the weight of the **firm in the fund** and the weight of the **fund in the firm** matter. Both the intensive and the extensive weight matter
- Heterogeneous effects - Stronger results for:
 - Smaller firms
 - Worse performance
 - Medium-governance
 - Illiquid stocks
 - In better governed countries

Effect of the Announcement on the
Investment Strategy of NBIM
Governance Deltas

Are changes in investment linked to governance changes?

Does the fund react to further changes in governance?

Do firms react to incremental changes in fund weights?

| | Fund (1) | Firm (2) |
|-----------------------------------|--------------------|----------------|
| Post* Δ NBIM_Weight(t+2,t) | 24.51** (10.42) | 0.58 (0.59) |
| Δ NBIM_Weight(t+2,t) | 0.54 (6.28) | 0.13 (0.36) |
| Year & Post*Country dummies | Yes | Yes |
| Observations | 10,690 | 10,649 |
| R-squared | 0.014 | 0.013 |

- Contemporaneous changes in governance more correlated with changes in fund weights after the announcement.
- Hard to establish causality for marginal changes. We can extrapolate from the previous two parts

Conclusions

- SWFs preferences provide evidence on how active investors affect firm policies
 - Fund specific change in preferences across all firms
- New governance stance of NBIM followed by changes in investment policies
- Firms reacted to this change by targeting NBIM preferences
 - Most of the overall effect comes from the firms' reaction
 - Both % of firm in the fund and % of fund in the firm matter
 - Both intensive and extensive margins matter
 - Heterogeneous effects informative about channels

Thanks!