Board Composition and Firm Performance: The Case of the Dey Report and Publicly Listed Canadian Firms

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Premise

- Separation of ownership and control results in agency problems in publicly traded firms.
- Can a "properly" designed Board help mitigate agency problems?
- The link between the monitoring role of the board and firm performance
- Can regulators play a constructive role in designing appropriate "check and balance" mechanisms?

Boards and management

- Since boards ratify most major decisions made by management, properly designed boards can minimize agency costs because the management and control functions are separated.
- Ability of boards to mitigate agency problems is dependent on how beholden the boards are to management.
- Stronger the management, the lower the ability of the board in controlling management.

Board characteristics

- Board Size
 - total number of directors on the board
- Board Composition
 - number of independent and inside directors on the board.

Who is an independent director?

A director whose only link to the firm is serving on the board. (S)he is not related to any member of the management team.

- CEO/Chairperson Duality
 - Is the Chairperson of the board and the CEO the same individual?

Extant work

Two Streams of research

- Direct tests of the relationship between board characteristics and performance
- Relationship between board composition and events that affect shareholder wealth

Direct tests

- Lack of conclusive evidence; relationship has been found to be positive, negative or insignificant
- Positive association
 - Baysinger and Butler (1985)
 - Schellenger, Wood and Tashakori (1989)
- Negative association
 - Agrawal and Knoeber (1996)
- No association
 - Hermalin and Weisbach (1991)
 - Bhagat and Black (2000)
 - Lawrence and Stapledon (1999) Australian data

Indirect evidence

- Outsider dominated boards provide better monitoring by disciplining poorly performing CEOs
 - Weisbach (1988)
- Less negative returns to shareholders of bidding firms in outsider dominated boards
 - Byrd and Hickman (1992)
- Higher abnormal returns in management buyout situations with outsider dominated boards
 - Lee, Rosenstein, Rangan and Davidson (1992)

The Dey Report

- TSE nominated a committee under the leadership of Peter Dey, Chairman of OSC to review corporate governance practices of Canadian firms
- The committee submitted its report in 1993 with 14 specific guidelines
- TSE adopted the guidelines as a listing requirement in April 1995 but compliance was voluntary
- Companies had to specify either in their annual report or proxy statement the status of their compliance
- Our research focuses on Guideline 2.
 <u>Guideline 2</u>: "[t]he board of directors of every corporation should be constituted with a majority of individuals who qualify as independent outside directors."

Evidence from other countries

- Cadbury Report for UK firms was issued in 1992.
 - Effects studied in Dahya, McConnell and Travlos (2002) who examine CEO turnover of poorly performing firms.
- Bosch Report in Australia
- Cardon Report in Belgium
- Vienot Principles I and II in France
- Peters Code in The Netherlands
- NYSE/NASDAQ Listing requirements (becomes effective Nov 2004)
- Sarbanes-Oxley Act

Any skeptics?

■ A determined management can frustrate a board very easily. Management should be charged with the responsibility of looking after the shareholders' interests because they are the people who can do it and they will do a better job than the board will do.

- Doug Everett
Senator and director

Corporate governance is, for the most part, just a load of guacamole. The governance of a board of directors is a concept which could only be found in some form of bureaucracy. It may work in Alice in Wonderland, but it will not work in the real world.

- J.P. Bryan
President and CEO, Gulf Resources Canada Ltd

Research questions

Did compliance with the Dey Committee recommendations on board independence, specifically Guideline 2 relating to a majority of independent directors, lead to improved firm performance?

If so, was this effect uniform or are the guidelines better suited for some firms compared to others?

Data

- Based on the 300 firms that were a part of the TSE 300 at the end of 1995 (balanced panel dataset)
- Same set is tracked from 1993 to 1997
- Represents 45% of Canadian market capitalization in 1995
- Data on board characteristics and ownership collected from proxy statements
- Accounting data from COMPUSTAT
- Final sample consists of 195 firms (975 firm-years).

Empirical methods

- Univariate and multivariate tests
- Firm performance measured by Tobin's Q where Q = Approximate q = (MVE + PS + DEBT)/TA
- For univariate tests, sample is divided into firms that have Q < 1 and Q > 1
- To test the impact of compliance:
 - Firms that never complied (NONCOMPLY)
 - Firms that complied (or were influenced by Dey) Alternative measures of compliance:

COMPLY Def 1: A firm is classified as Dey-compliant if the average proportion of directors increased from 1993-1994 to 1995-1997, and if UNREL is at least 50 percent for at least one year in the latter time period

COMPLY Def 2: A firm is classified as Dey-compliant if the 1994 proportion of outside directors is less than 50 percent, and at least one year of the post-Dey 1995-1997 period has 50 percent or greater outsiders.

Empirical methods

 One-Way Fixed effects model used to control for unobservable characteristics.

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q-ratio = a_0 + a_1UNREL + a_2COMPLY + a_3NONCOMPLY + a_4BSIZE
+ a_5DIROWN + a_6OWN + a_7DUAL + a_8SIZE
+ a_9DEBT + a_{10}CAPEX + a_{11}INTAN + a_{12}ROA + e
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UNREL: proportion of independent directors

DEY: dummy =1 for COMPLIANT post-Dey firms (Def 1 / Def 2)

BSIZE: board size

DIROWN: proportion equity ownership of directors

OWN: proportion equity ownership of management

SIZE: log value of firm size (scaled by TA)

DEBT: proportion of long-term debt (scaled by TA)

CAPEX: capital expenditure (scaled by TA)

INTAN: proportion of intangible assets (scaled by TA)

ROA: return on assets (net income / TA)

Empirical results

Table 1: Summary statistics

- Typical firm has 61.5 % outsiders
- The size of the board around 10 members (median)
- 41.3% of firms have dual CEO Board Chair positions
- Average Q approximately 1.1
- The average firm had total assets of C\$6.28B, long-term debt of 22.5%, capital expenditures of 10.2%, intangible assets of 4.6% and return on assets of 2.6%.

| Variable | Mean | Standard Deviation | Min | Median | Max |
|--------------------|----------|-----------------------|--------|--------|------------|
| Q | 1.184 | 1.201 | -0.588 | 0.933 | 13.727 |
| UNREL | 0.603 | 0.164 | 0.000 | 0.615 | 0.933 |
| BSIZE | 10.861 | 4.376 | 2.000 | 10.00 | 37.000 |
| DUAL | 0.413 | 0.493 | 0.000 | 0.000 | 1.000 |
| DIROWN | 0.148 | 0.239 | 0.000 | 0.025 | 0.976 |
| OWN | 0.342 | 0.311 | 0.000 | 0.291 | 1.000 |
| SIZE (\$CAN mill.) | 6280.114 | 25205.742 | 13.000 | 976.0 | 244744.000 |
| DEBT | 0.225 | 0.173 | 0.000 | 0.216 | 0.978 |
| CAPEX | 0.102 | 0.119 | 0.000 | 0.065 | 0.978 |
| INTAN | 0.046 | 0.106 | 0.000 | 0.000 | 0.706 |
| ROA | 0.026 | 0.122 | -2.542 | 0.034 | 0.312 |
| No. Obs. | 975 | | | | |

Empirical results (Table 2)

| Variable | Panel A: Full Dataset | | | | Panel B: NONCOMPLY Subset | | | |
|----------|-----------------------|------------|-----------|---------------|---------------------------|-------------|----------|---------------|
| | Pre-Dey | | Post-Dey | | Pre-Dey | | Post-Dey | |
| Q | 1.247 | | 1.142 | | 1.492 | | 1.232 | |
| | (0.933) | | (0.937) | | (0.791) | | (0.769) | |
| UNREL | 0.570 | | 0.624** | * | 0.368 | | 0.380 | |
| | (0.583) | | (0.636)** | ** | (0.369) | | (0.400) | |
| BSIZE | 10.913 | | 10.827 | | 10.114 | | 9.909 | |
| | (11.000) | | (10.000) | | (10.000) | | (9.000) | |
| DUAL | 0.428 | | 0.403 | | 0.477 | | 0.439 | |
| | (0.000) | | (0.000) | | (0.000) | | (0.000) | |
| DIROWN | 0.157 | | 0.142 | | 0.255 | | 0.250 | |
| | (0.027) | | (0.023) | | (0.189) | | (0.130) | |
| OWN | 0.358 | | 0.331 | | 0.404 | | 0.385 | |
| | (0.341) | | (0.255) | | (0.410) | | (0.439) | |
| No. Obs. | 390 | | 585 | | 44 | | 66 | |
| | | | | | 0.4 | | 0.1 | |
| | | 2<1 | | 2>1 | |) <1 | , | <u>)>1</u> |
| | Pre-Dey | Post-Dey | Pre-Dey | Post-Dey | Pre-Dey | Post-Dey | Pre-Dey | Post-Dey |
| Q | 0.602 | 0.725** | 1.969 | 1.609* | 0.484 | 0.617 | 2.947 | 2.119 |
| IDIDEI | (0.664) | (0.663) | (1.448) | (1.228)*** | (0.502) | (0.414) | (1.692) | (1.670) |
| UNREL | 0.598 | 0.646*** | 0.538 | 0.601*** | 0.414 | 0.413 | 0.301 | 0.331 |
| DOLLAR | (0.615) | (0.667)*** | (0.571) | (0.615)*** | (0.400) | (0.400) | (0.300) | (0.333) |
| BSIZE | 12.563 | 12.269 | 9.065 | 9.214 | 11.577 | 11.076 | 8.000 | 8.222 |
| DILAI | (11.000) | (12.000) | (9.000) | (9.000) | (11.000) | (11.000) | (7.000) | (6.000) |
| DUAL | 0.413 | 0.382** | 0.446 | 0.427 | 0.423 | 0.358 | 0.556 | 0.556 |
| DIDONAL | (0.000) | (0.000)* | (0.000) | (0.000) | (0.000) | (0.000) | (1.000) | (1.000) |
| DIROWN | 0.179 | 0.170 | 0.133 | 0.111 | 0.281 | 0.284 | 0.216 | 0.199 |
| OWN | (0.008) | (0.011) | (0.048) | (0.039) | (0.254) | (0.187) | (0.175) | (0.129) |
| OWN | 0.405 | 0.383 | 0.306 | 0.272 | 0.499 | 0.488 | 0.266 | 0.237 |
| | (0.438) | (0.413) | (0.202) | (0.153) | (0.457) | (0.464) | (0.197) | (0.188) |
| No. Obs. | 206 | 309 | 184 | 276 | 26 | 39 | 18 | 27 |

Empirical Results (Table 2 cont'd)

| Variable | Panel C: COMPLY Subset, Definition 1 | | | Panel D: COMPLY Subset, Definition 2 | | | | |
|----------|--------------------------------------|----------------|------------|--------------------------------------|----------|----------------|------------|-------------|
| | Pre-Dey | | Post-Dey | | Pre-Dey | | Post-Dey | |
| Q | 1.157 | | 1.077 1.5 | | 1.513 | | 1.339 | |
| | (0.911) | | (0.913) | | (1.025) | | (0.994) | |
| UNREL | 0.557 | | 0.660*** | | 0.399 | | 0.528*** | |
| | (0.571) | | (0.667)*** | k | (0.408) | | (0.500)*** | • |
| BSIZE | 10.897 | | 10.844 | | 9.000 | | 9.245 | |
| | (10.000) | | (10.000) | | (9.000) | | (9.000) | |
| DUAL | 0.431 | | 0.405 | | 0.515 | | 0.441 | |
| | (0.000) | | (0.000) | | (1.000) | | (0.000) | |
| DIROWN | 0.149 | | 0.126 | | 0.248 | | 0.204 | |
| | (0.016) | | (0.015) | | (0.134) | | (0.097) | |
| OWN | 0.360 | | 0.312* | | 0.426 | | 0.393 | |
| | (0.305) | | (0.195)* | | (0.453) | | (0.304) | |
| No. Obs. | 232 | | 348 | | 68 | | 102 | |
| | |)< 1 | (|) >1 | |)< 1 | (|) >1 |
| | Pre-Dey | Post-Dey | Pre-Dey | Post-Dey | Pre-Dey | Post-Dey | Pre-Dey | Post-Dey |
| Q | 0.621 | 0.738** | 1.841 | 1.509** | 0.648 | 0.886** | 2.282 | 1.741 |
| | (0.687) | (0.709) | (1.468) | (1.210)*** | (0.602) | (0.736) | (1.586) | (1.263)** |
| UNREL | 0.585 | 0.675*** | 0.522 | 0.640*** | 0.417 | 0.535*** | 0.383 | 0.521*** |
| | (0.600) | (0.700)*** | (0.545) | (0.667)*** | (0.429) | (0.500)*** | (0.400) | (0.500)*** |
| BSIZE | 12.823 | 12.646 | 8.441 | 8.549 | 11.500 | 11.771 | 6.778 | 7.000 |
| DILLI | (12.000) | (12.000) | (8.000) | (9.000) | (11.000) | (11.000) | (7.000) | (7.000) |
| DUAL | 0.385 | 0.379 | 0.490 | 0.438 | 0.562 | 0.437 | 0.472 | 0.424 |
| DIDOMBI | (0.000) | (0.000) | (0.000) | (0.000) | (1.000) | (0.000) | (0.000) | (0.000) |
| DIROWN | 0.180 | 0.162 | 0.108 | 0.080 | 0.370 | 0.330 | 0.128 | 0.093 |
| OMBI | (0.003) | (0.007) | (0.042) | (0.035) | (0.299) | (0.195) | (0.111) | (0.083) |
| OWN | 0.423 | 0.391 | 0.279 | 0.211* | 0.680 | 0.653 | 0.200 | 0.163 |
| N. 01 | (0.471) | (0.360) | (0.166) | (0.105)** | (0.704) | (0.696) | (0.109) | (0.000) |
| No. Obs. | 130 | 195 | 102 | 153 | 32 | 48 | 36 | 54 |

| Table 3 | COMPLY D | Oef 1 | |
|-------------------------|-------------|-----------|-----------|
| Independent Variable | Full Sample | Q < 1 | Q > 1 |
| Intercept | 3.755*** | 1.298** | 4.020*** |
| | (4.86) | (2.30) | (4.45) |
| UNREL | 0.125 | 0.245 | 0.294 |
| | (0.41) | (1.07) | (1.51) |
| COMPLY | 0.097 | 0.093* | 0.217 |
| | (1.28) | (1.77) | (1.30) |
| NONCOMPLY | -0.008 | 0.127 | -0.300 |
| | (-0.05) | (1.23) | (-1.00) |
| BSIZE | 0.014 | -0.004 | 0.075 |
| | (0.73) | (-0.35) | (1.51) |
| DUAL | 0.071 | 0.104 | -0.035 |
| | (0.80) | (1.64) | (-0.20) |
| DIROWNL1 | 16.368 | 16.814 | 46.864 |
| | (0.81) | (1.20) | (1.08) |
| DIROWN15 | -2.061 | 1.375 | -8.331 |
| | (-0.40) | (0.39) | (-0.73) |
| DIROWN520 | 3.968** | 0.800 | 5.569* |
| | (2.26) | (0.56) | (1.75) |
| DIROWNG20 | -0.883 | -0.232 | -1.694 |
| | (-1.46) | (-0.58) | (-0.90) |
| OWNL40 | -0.876* | -1.057*** | -0.739 |
| | (-1.82) | (-2.88) | (-0.83) |
| OWN4060 | 0.847 | 0.799 | 0.261 |
| | (0.80) | (1.18) | (0.10) |
| OWN6080 | 0.976 | 0.325 | 2.223 |
| | (0.71) | (0.34) | (0.75) |
| OWNG80 | 0.005 | -0.052 | 0.982 |
| | (0.00) | (-0.06) | (0.30) |
| SIZE | -0.491*** | -0.098 | -0.786*** |
| | (-6.04) | (-1.52) | (-4.99) |
| DEBT | -0.114 | 0.518** | -0.232 |
| | (-0.32) | (1.98) | (-0.32) |
| INTAN | 0.373 | 0.467 | -1.625 |
| | (0.47) | (0.97) | (-0.72) |
| CAPEX | -0.035 | 0.451 | -0.343 |
| | (-0.08) | (0.74) | (-0.57) |
| ROA | 0.877*** | 0.149 | 2.009*** |
| | (3.80) | (0.97) | (3.76) |
| Mean Square Error | 0.518 | 0.143 | 0.884 |
| R-square | 0.719 | 0.619 | 0.682 |
| | | | |
| No. Obs. | 975 | 515 | 460 |

| Table 4 | (Comply De | ef 2) | |
|-------------------------|-------------|-----------|-----------|
| Independent Variable | Full Sample | Q < 1 | Q > 1 |
| Intercept | 3.864*** | 1.381** | 4.065*** |
| | (5.00) | (2.07) | (4.48) |
| UNREL | -0.009 | 0.135 | 0.191 |
| | (-0.03) | (0.56) | (0.31) |
| COMPLY | 0.145* | 0.128** | 0.233 |
| | (1.84) | (2.29) | (1.37) |
| NONCOMPLY | -0.002 | 0.129 | -0.306 |
| | (-0.01) | (1.25) | (-1.02) |
| BSIZE | 0.015 | -0.003 | 0.070 |
| | (0.76) | (-0.26) | (1.41) |
| DUAL | 0.070 | 0.098 | -0.029 |
| | (0.78) | (1.55) | (-0.16) |
| DIROWNL1 | 16.021 | 16.613 | 45.795 |
| | (0.79) | (1.19) | (1.06) |
| DIROWN15 | -1.186 | 1.485 | -7.573 |
| | (-0.36) | (0.42) | (-0.66) |
| DIROWN520 | 3.934** | -0.728 | 5.464* |
| | (2.24) | (0.51) | (1.71) |
| DIROWNG20 | -0.850 | -0.193 | -1.675 |
| | (-1.41) | (-0.48) | (-0.89) |
| OWNL40 | -0.881* | -1.032*** | -0.834 |
| | (-1.84) | (-2.82) | (-0.94) |
| OWN4060 | 0.872 | 0.771 | 0.438 |
| | (0.83) | (1.14) | (0.17) |
| OWN6080 | 0.992 | 0.396 | 2.090 |
| | (0.72) | (0.42) | (0.71) |
| OWNG80 | 0.013 | -0.226 | 1.202 |
| | (0.01) | (-0.16) | (0.37) |
| SIZE | -0.503*** | -0.106* | -0.774*** |
| | (-6.27) | (-1.66) | (-5.08) |
| DEBT | -0.083 | 0.547** | -0.227 |
| | (-0.23) | (2.09) | (-0.31) |
| INTAN | 0.327 | 0.421 | -1.633 |
| | (0.42) | (0.88) | (-0.73) |
| CAPEX | -0.026 | 0.416 | -0.312 |
| | (-0.06) | (0.69) | (-0.52) |
| ROA | 0.878*** | 1.145 | 2.011*** |
| | (3.81) | (0.95) | (3.77) |
| Mean Square Error | 0.517 | 0.143 | 0.883 |
| R-square | 0.719 | 0.621 | 0.683 |
| No. Obs. | 975 | 515 | 460 |

Event Study Analysis

- Univariate comparisons show that Q increases for low-Q compliant firms, but also falls for high Q firms (mean reversion?)
- Multivariate models show that compliance is positively related to Q in post-Dey period, and noncompliance is insignificant
 - Effect is stronger for firms that became compliant (Def 2), compared to all firms that increased outsiders (Def 1)
- Announcement effects of outside director additions for compliant firms add to robustness of results

Table 5
Event Period Abnormal Returns Around Announcements of Outside Director
Appointments, COMPLY Definition 1

| Panel A: Fu | ll Sample | | | | | |
|-------------|--------------|----------------|-------------|-----------|-------------|----|
| Window | Mean | Median | z-statistic | Positive: | Generalized | N |
| | CAR (%) | CAR (%) | | Negative | Sign Z | |
| [-20,+1] | 1.53 | 1.55 | 1.439 | 40:33 | 1.500 | 73 |
| [-10,+1] | 0.78 | 0.35 | 1.399 | 40:33 | 1.500 | 73 |
| [-5,+1] | 0.66 | 0.05 | 1.074 | 37:36 | 0.796 | 73 |
| [-1,+1] | 0.87 | 0.73 | 2.455** | 44:28 | 2.565** | 72 |
| [-1,+5] | 0.85 | 0.69 | 1.513 | 39:34 | 1.265 | 73 |
| [-1,+10] | 1.42 | 0.38 | 1.576 | 41:32 | 1.735* | 73 |
| [-1,+20] | 1.65 | 0.12 | 1.228 | 37:36 | 0.796 | 73 |
| Panel B: Q< | 1 Subsample | | | | | |
| [-20,+1] | 1.75 | 2.10 | 1.421 | 28:23 | 1.402 | 51 |
| [-10,+1] | 1.42 | 0.55 | 2.147** | 31:20 | 2.246** | 51 |
| [-5,+1] | 0.41 | 0.05 | 0.390 | 26:25 | 0.839 | 51 |
| [-1,+1] | 0.78 | 0.61 | 1.686* | 29:21 | 1.828* | 50 |
| [-1,+5] | 0.95 | 0.92 | 1.169 | 29:22 | 1.683* | 51 |
| [-1,+10] | 0.94 | 0.61 | 0.958 | 28:23 | 1.402 | 51 |
| [-1,+20] | 0.94 | 0.16 | 0.543 | 27:24 | 1.120 | 51 |
| Panel C: Q> | -1 Subsample | | | | | |
| [-20,+1] | 1.03 | 0.72 | 0.315 | 12:10 | 0.600 | 22 |
| [-10,+1] | -0.70 | -1.27 | -0.491 | 9:13 | -0.680 | 22 |
| [-5,+1] | 1.25 | -0.13 | 1.176 | 11:11 | 0.174 | 22 |
| [-1,+1] | 1.06 | 0.87 | 1.820* | 15:7 | 1.880* | 22 |
| [-1,+5] | 0.60 | -0.51 | 0.517 | 10:12 | -0.253 | 22 |
| [-1,+10] | 2.54 | 0.35 | 1.210 | 13:9 | 1.027 | 22 |
| [-1,+20] | 3.30 | -0.83 | 0.921 | 10:12 | -0.253 | 22 |

Table 6
Event Period Abnormal Returns Around Announcements of Outside Director
Appointments, COMPLY Definition 2

| Panel A: F | ull Sample | | | | | |
|------------|----------------|----------------|-------------|-----------|-------------|----|
| Window | Mean | Median | z-statistic | Positive: | Generalized | N |
| | CAR (%) | CAR (%) | | Negative | Sign Z | |
| [-20,+1] | 1.38 | -0.41 | 0.606 | 8:12 | -0.480 | 20 |
| [-10,+1] | 1.21 | 0.47 | 1.476 | 11:9 | 0.867 | 20 |
| [-5,+1] | -0.46 | -0.62 | -0.116 | 7:13 | -0.929 | 20 |
| [-1,+1] | 0.61 | 0.61 | 1.211 | 12:8 | 1.317 | 20 |
| [-1,+5] | 0.66 | 0.34 | 0.968 | 10:10 | 0.418 | 20 |
| [-1,+10] | 3.39 | 1.07 | 1.525 | 14:6 | 2.215** | 20 |
| [-1,+20] | 3.80 | 2.57 | 1.365 | 11:9 | 0.867 | 20 |
| Panel B: Q | <1 Subsample | | | | | |
| [-20,+1] | 1.30 | -0.41 | 0.546 | 5:9 | -0.643 | 14 |
| [-10,+1] | 3.37 | 1.53 | 2.001** | 10:4 | 2.048** | 14 |
| [-5,+1] | 0.51 | -0.77 | 0.071 | 5:9 | -0.643 | 14 |
| [-1,+1] | 0.93 | 0.32 | 1.182 | 8:6 | 0.971 | 14 |
| [-1,+5] | 2.70 | 1.12 | 1.718* | 8:6 | 0.971 | 14 |
| [-1,+10] | 2.90 | 1.07 | 1.188 | 10:4 | 2.048** | 14 |
| [-1,+20] | 3.47 | 2.57 | 1.035 | 8:6 | 0.971 | 14 |
| Panel C: Q | >1 Subsample | | | | | |
| [-20,+1] | 1.59 | 0.79 | 0.237 | 3:3 | 0.103 | 6 |
| [-10,+1] | -3.84 | -3.08 | -1.097 | 1:5 | -1.532 | 6 |
| [-5,+1] | -2.73 | -0.44 | -0.356 | 2:4 | -0.714 | 6 |
| [-1,+1] | -0.13 | 1.10 | 0.295 | 4:2 | 0.920 | 6 |
| [-1,+5] | -4.10 | -2.83 | -1.328 | 2:4 | -0.714 | 6 |
| [-1,+10] | 4.55 | 1.14 | 0.906 | 4:2 | 0.920 | 6 |
| [-1,+20] | 4.58 | 4.72 | 0.875 | 3:3 | 0.103 | 6 |

Conclusions

- Canadian publicly traded firms increased the representation of outside directors following the Dey Committee recommendations
- Adoption of the recommendations had a positive impact on firm performance for firms that were Dey-compliant, compared to those that remained noncompliant
- Firms with average Q < 1 (those most likely to suffer from agency problems) benefited the most in a multivariate setting, particularly firms that *became* compliant (Def 2)
- Event study analysis shows that there is a stronger announcement effect for firms that became compliant (Def 2), compared to all firms that increased their proportion of outsiders (Def 1), particularly for pre-Dey Q<1 firms</p>
- Stock exchanges can design and implement self regulatory changes that can mitigate agency problems and enhance shareholder wealth.

Thank you

Questions and comments?