

# Communication and Decision-Making in Corporate Boards

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# Motivation

- Directors have diverse expertise and backgrounds

*"The key ... is to have folks on the board with expertise in different areas, whether it be finance, marketing, general management, retailing, international, [or] accounting."* (Charles Elson, director of Sunbeam)

⇒ communication among directors is important

- Impediments to communication in boards:

- communicating outside the boardroom takes time
- reputational concerns (incompetence, troublemaker)
- need to communicate credibly if there are agency conflicts

⇒ effective communication is costly for directors

*"If we could offer only one piece of advice, it would be to strive for open communication among board members..."* (Carter and Lorsch, 2004)

# This Paper

## Objective

- How efficiently do board decisions incorporate directors' information when communication entails personal costs?
- How can board policies improve communication and increase shareholder value?
  - open vs. secret ballot voting
  - board structure: diversity of preferences
  - executive sessions: mandatory vs. voluntary; optimal frequency
  - establishment and composition of committees

# Frictions in Directors' Preferences

## 1. Biases

- private benefits from certain board decisions

## 2. Concern for conformity (reluctance to take a minority stand)

- Directors who oppose the CEO without support from other directors may face retaliation and pressure to resign

*"Don't raise questions with the president unless you can, for sure, count on the support of others on the board."*

These frictions introduce inefficiencies into decision-making:

- biases  $\Rightarrow$  directors skew their actions
- concern for conformity  $\Rightarrow$  directors underweight their information

# Main Results

## **Frictions may encourage costly communication:**

1. Stronger concern for conformity at the decision-making stage gives stronger incentives to incur communication costs
  2. Stronger bias may give stronger incentives to incur communication costs
- ⇒ more information is revealed during communication
- ⇒ board decisions may be improved despite the negative effect of frictions on decision-making

# Related Literature

## ● **Theoretical literature on boards**

- *Board as a single decision-maker*: e.g., Hermalin and Weisbach (1998), Song and Thakor (2006), Adams and Ferreira (2007), Kumar and Sivaramakrishnan (2008), and others
- *Multiple directors, no communication*: Warther (1998), Chemmanur and Fedaseyeu (2011)
- *Communication between insiders and outsiders*: Harris and Raviv (2008)

## ● **Decision-making in committees**

Coughlan (2000), Austen-Smith and Feddersen (2005), Doraszelski et al. (2001): *pre-vote cheap talk communication, limited to 2 or 3 members*

## ● **Costly communication literature**

Verrecchia (1983), Bolton and Dewatripont (1994), Garicano (2000), Dewatripont and Tirole (2005), Dessein and Santos (2006)

## Model Setup - Information Structure

- The board contemplates a decision whose value is uncertain
- State of the world: sum of independent signals  $x_i \sim f_i$

$$\theta = \sum_{i=1}^L x_i$$

- $N$  directors ( $N \leq L$ ), director  $i$  observes signal  $x_i$

# Model Setup - Decision-Making Process

1. **Communication stage:** directors simultaneously decide whether to incur a cost  $c_i$  to communicate  $x_i$  to others
    - information is verifiable
  2. **Decision-making stage:**
    - directors simultaneously take actions  $a_i$  (e.g., vote)
    - individual actions  $a_i \xrightarrow{h}$  board's decision  $a$
    - $a = h(a_1, \dots, a_N)$  - probabilistic linear function
- If the board makes decision  $a$  and state is  $\theta$ , firm value is

$$V = V_0 - (a - \theta)^2$$

## Model Setup - Preferences

- Firm value:

$$V = V_0 - (a - \theta)^2$$

- Utility of director  $i$ :

$$U_i = - (a - \theta)^2$$

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- Firm value:

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$$U_i = - (a - (b_i + \theta) )^2$$

- $b_i$  - **bias** regarding the decision
  
- Preferences are common knowledge

## Model Setup - Preferences

- Firm value:

$$V = V_0 - (a - \theta)^2$$

- Utility of director  $i$ :

$$U_i = - (a - (b_i + \theta))^2 - r_i (a_i - \bar{a}_{-i})^2$$

where  $\bar{a}_{-i} = \frac{1}{N-1} \sum_{k \neq i} a_k$  - average action of other directors

- $b_i$  - bias regarding the decision
  - $r_i$  - **concern for conformity**
- Preferences are common knowledge

# Equilibrium

- Decision-making stage: unique linear equilibrium
- Effect of frictions at the decision-making stage:
  - **Bias:** director skews the board's decision in the direction of his bias
  - **Conformity:** director puts less than optimal weight on his information if he did not communicate it to others

# Effect of Biases on Communication

## Biases may encourage communication:

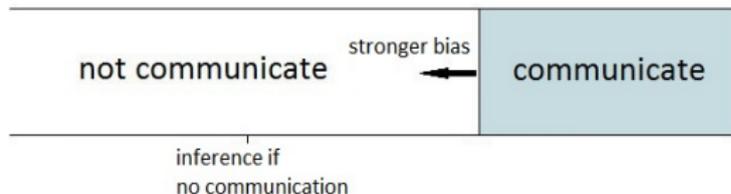
- Director is biased in favor  $\Rightarrow$  reveals only positive information



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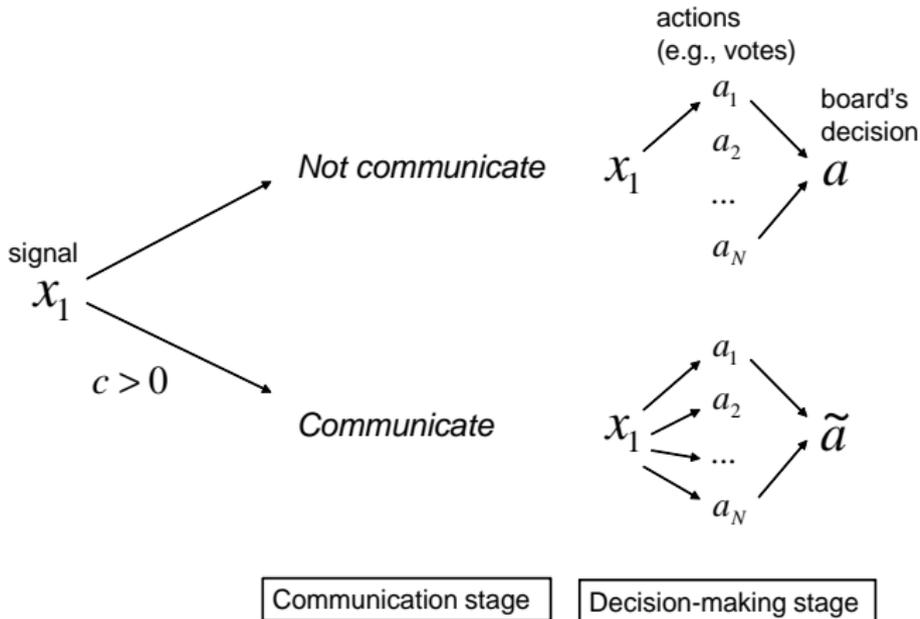
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- Stronger bias in favor  $\Rightarrow$  negative inference is more harmful  
 $\Rightarrow$  stronger incentive to incur the costs of communication

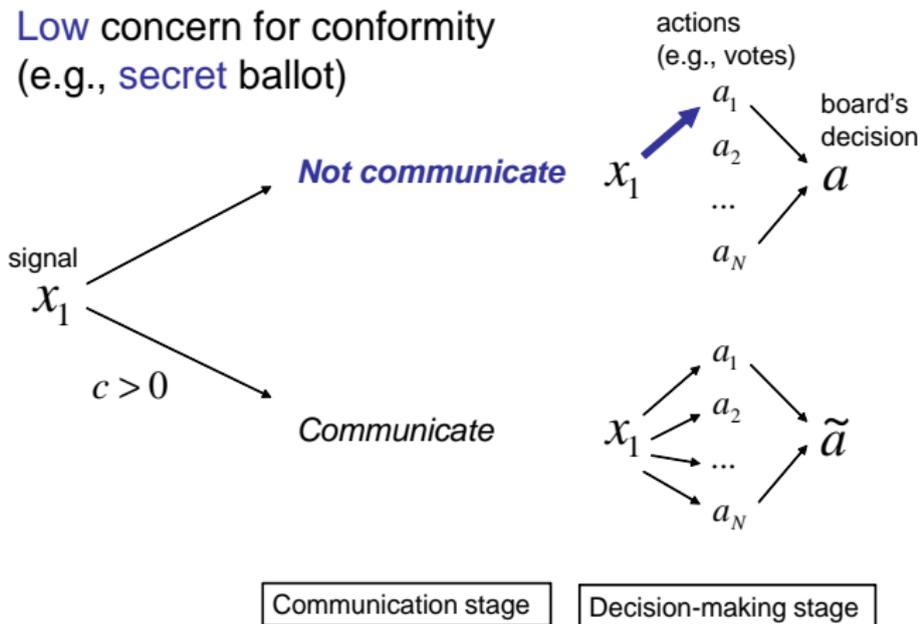
# Effect of Conformity on Communication

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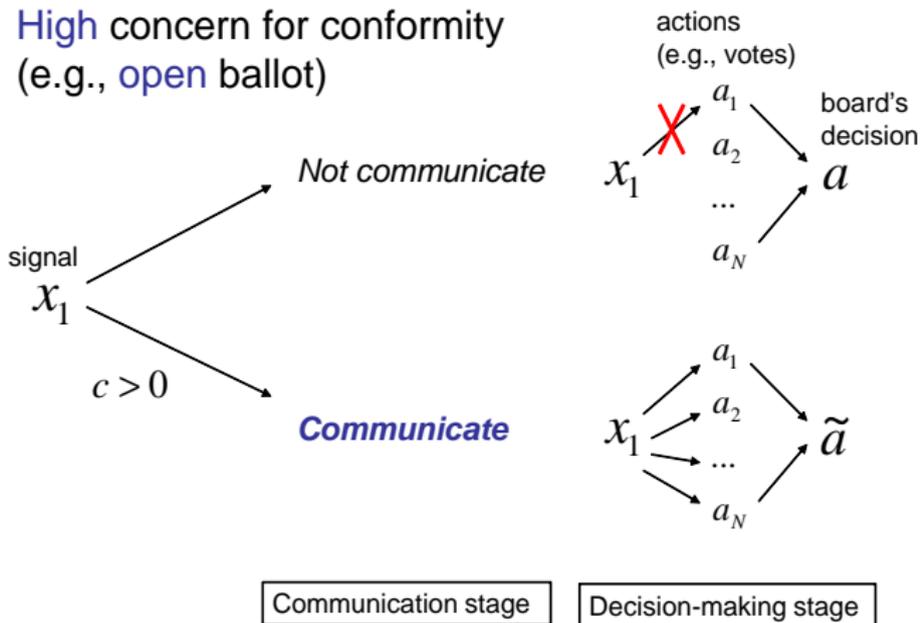
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# Implications

- Choice between open and secret ballot voting (i.e., high vs. low pressure for conformity)
  - difference of opinion, supervisory decisions  $\Rightarrow$  secret ballot
  - objective evidence, executive decisions  $\Rightarrow$  open ballot
- A board where directors are biased but have small opposite biases can be more effective than a fully unbiased board
  - diversity in preferences
- Optimal frequency of “executive sessions”
- Role and composition of committees (in an extension)
  - allocating control to one director may be optimal

# Conclusion

- When communication is costly, biases and conformity may have two opposite effects:
    - distortions in decision-making
    - more efficient communication
    - the positive effect can dominate
- ⇒ implications for board structure and decision-making rules