

Common Ownership by

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Remarks by
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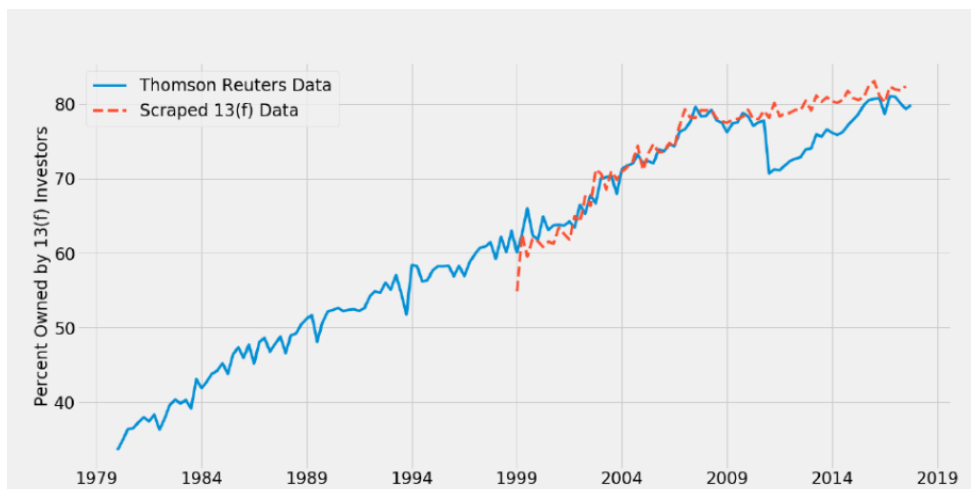
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The Theme:

Secular increase in institutional ownership (S&P500):



Source: Backus, Conlon, Sinkinson (2019)

The Big Picture:

Is common ownership a problem for

- corporate governance
- firm performance
- competition policy
- industry productivity
- corporate input markets
- macroeconomic growth
- society
- ...?

The Question



“Stealth Socialism”

First Fundamental Theorem of Welfare Economics:

If preferences are rational and locally non-satiated and firms maximize profits, any competitive equilibrium allocation is Pareto efficient.

1) How to measure common ownership and its consequences

Common ownership is multi-dimensional and thus difficult to measure.

Example: 2 firms, retail investors (small, diversified), 2 large investors

	Retail	Inv. A	Inv. B	Firm 1	Firm 2	Indexer
Firm 1	70	30	0	-	0	0
Firm 2	70	0	30	0	-	0

	Retail	Inv. A	Inv. B	Firm 1	Firm 2	Indexer
Firm 1	20	20	10	-	20	30
Firm 2	30	10	20	10	-	30

Measuring the possible consequences of common ownership for managerial decision making:

(along the lines of Bresnahan-Salop (1986), O'Brien-Salop (2000) etc.)

Consider a firm j and a universe of I shareholders, $i=1, \dots, I$.

- Profits (distributed cash flows) π_j ,
- Profit (cash flow) rights of each shareholder $v_{ij}, \sum_i v_{ij} = 1$
- Total profit income for investor i : $\sum_j v_{ij} \pi_j$
- Firm j maximizes weighted average of its investors' profits, places Pareto weights w_{ij} on investors i .

Firm objective:

$$Q_j = \sum_i w_{ij} \left(\sum_k v_{ik} \pi_k \right)$$

shareholder structure

$$= \sum_i w_{ij} v_{ij} \pi_j + \sum_i w_{ij} \sum_{k \neq j} v_{ik} \pi_k = \sum_i w_{ij} v_{ij} \left(\pi_j + \sum_{k \neq j} r_{jk} \pi_k \right)$$

where

$$r_{jk} = \frac{\sum_i w_{ij} v_{ik}}{\sum_i w_{ij} v_{ij}} = \frac{w_j v_k}{\langle w_j, v_j \rangle}$$

share structure

is firm j's profit weight for firm k (describing the degree of internalization of k's profits by j).

Traditional theory (perfect or imperfect competition):

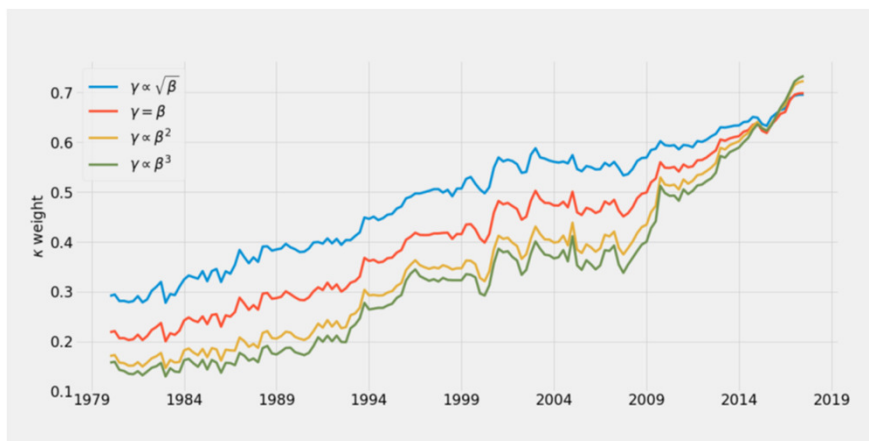
$$r_{jk} = 0 \text{ for } k \neq j.$$

The main free variable (or open question) in this theory:
what are the shareholder weights w_{ij} ?

- proportional to cash flow rights: $w_{ij} = v_{ij}$?
- generalized proportionality: $w_{ij} = v_{ij}^a, a > 0$?
- democracy: $w_{ij} = 1/I$?
- function of formal voting rights (if no one-share-one vote)
- function of shareholder characteristics
 - passive-active?
 - vertically related?
 - domestic-foreign?

Note: Under (generalized) proportionality the weight of retail investors vanishes, that of larger investors matters much (convexity).

The evidence (raw data): The internalization weights r_{jk}



Source: Backus, Conlon, Sinkinson (2019)

Market interaction:

Most papers depart from the First Welfare Theorem in two ways:

- firms are not competitive
- firms maximize Q_j instead of π_j

In the non-competitive case, the market matters (4 digit SIC codes). Interaction: Cournot, differentiated Bertrand, etc. Outcomes in terms of MHHI or similar measures.

Note: These depend on the r_{jk} within market.

Example: SIC code 2066:

4 large players:

- 2 in the S&P 500
- 1 private
- 1 foreign

Main conceptual questions for understanding the data:

- Disentangle non-competitive behavior from Q_j -maximization
- Correlation vs. causality
- What is w_{ij} ?
- Endogeneity of market structure
(the modern “Structure-Conduct-Performance” problem)

Main policy question: Do we get

- Competition with coordination on fixed costs?
(the best of both worlds) or
- Central planning without accountability?
(the worst of both worlds)

2) Topics for discussion: Firm decisions

Classical literature: Cournot, Bertrand competition → classical collusion.

More relevant probably:

- long-term decisions (product choice, variety)
- entry, exit

Market becomes endogenous, dito number of firms.

Think of firm decision as a general x_j . Then the traditional $\pi_j(q_j, q_{-j})$ becomes $Q_j(x_j, x_{-j})$, and the game changes.

3) Topics for discussion: Owner-manager relation

How do corporate managers and common owners communicate?

- explicit communication: evidence?
- Larry Fink's letters
- anticipatory obedience ("vorausselender Gehorsam")
- information about the investors behind v_j ?

Is it possible to identify different communication styles that can be used to estimate the mapping $v_j \rightarrow w_j$?

Classical collusion vs. coordinated collusion: how to detect and punish deviations? Stability?

4) Topics for discussion: Takeovers

Matvos-Ostrovsky (2008): Takeovers have a higher chance of succeeding and yield a higher return to the bidder if bidder and target have common owners.

Can one use this reasoning to identify the w_{ij} ?

Scenario: Classify takeover bids according to

- whether there was a competing offer to that of firm j
- whether there were potential competing bidders k in the same industry who did not bid

Prediction: Missing bids by competitors are more likely the higher r_{kj} . The probability of completion is higher and the takeover premium is lower the higher r_{kj} .

5) Topics for discussion: CEO pay

Prediction: CEO pay is less performance-sensitive if the firm is part of a sub-group of the industry with high r_{jk} .

Brilliantly done by Antón, Ederer, Giné et al. (2018).

6) Topics for discussion: Find the w_{ij}

Remember: Everything is driven by the shareholder weights w_{ij} .

Can one identify them by estimating the r_{jk} in two different set-ups?

7) Topics for discussion: Europe

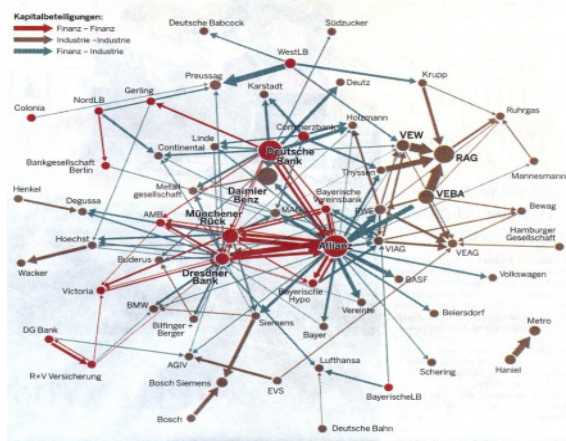
Europe has many ownership – control arrangements that are rare in the U.S.

What does this imply for the theory? Does this help to better identify the empirical results?

Of particular interest: Private firms.

Is the CO problem another reason for the alleged superiority of economies with many strong (independent) SMEs?

Europe: Cross-Ownership in Germany



(1996)