

# **The Theory of the Firm and Its Applications in Management Research I**

**June 22-24, 2009**

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# A LITTLE ABOUT ME

- **Education: MSc., Economics, University of Copenhagen, 1989; PhD, Copenhagen Business School, 1993.**
- **Positions: Assistant Prof., CBS, 1993; Full Prof., 1998; Professor at Norwegian School of Economics and Business Adm., 2001-.**



- **Director, Center for Strategic Management and Globalization, CBS, since 2005 (15 faculty).**
- **Editorial boards of *Org Sci*, *SMJ*, *JoM*, *JMS*, *SO*, *LRP*, and 14 other journals.**
- **Research interests: Strategic management, KM and eship – particularly as informed by the economics of organization.**

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### Management Journal Impact Factors 2008

| Nicolai Foss |

The new ISI impact factors for 2008 have just been released. There are lots of surprises this time. The biggest one is arguably that *Organization Science* is now out of the top 10 range, a long drop from its #4 status in 2006 (this sucks when you got two recent papers, one forthcoming and one R&R, at this journal :-). The second surprise, at least to me, is that the *Journal of Management* has made it to #5. One possible explanation is its rather influential yearly review issues. Another surprise is that *Organization Studies*, which was among the top 10 in 2006, has now moved down a lot to close to #30. The *Journal of Management Studies*, while not among the top 10 this year, has not been harmed as badly, dropping to #14. ASQ, once the undisputed top-management journal, is now #9. Less surprising is *Academy of Management Review's* #1 position (it is usually among the top 3), and that the *Strategic Management Journal* is #4.

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SCM,  
Strategy,  
Markets

# OVERALL PURPOSE

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- Make you **acquainted with** some of **key theories** of the firm/economic organization – mainly PA theory and TCE.
  - Discuss their **potentials** and their **limitations**, particularly with respect to management research.
  - **Entrepreneurship** as the "case field."
  - The course can – in the nature of things – at best serve as an **appetizer**.
  - **Coming up:** Theories of the Firm II.
-

# **THE THEORY OF THE FIRM: WHAT IS IT? AND HOW IS IT RELEVANT?**

**Nicolai J Foss**

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Globalization  
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**Copenhagen  
Business School**  
HANDELSHØJSKOLEN

# AGENDA

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- Why the theory of the firm **matters** (to management research).
  - The economic theory of the firm: Overall **characteristics** and **context**.
  - **Shared** assumptions and **differences** between various ToFs.
  - Things that Econ ToF **can** and **cannot** tell us in management research – e.g., in eship research.
-

# READINGS

Increasing specificity

David Kreps. 1997. "Economics: The Current Position,"  
*Daedalus* 126: 59-86.

Foss, Nicolai and Peter G Klein. 2009. "Organizational  
Governance," in Raphael Wittek, Tom Snijders and  
Victor Nee, eds. *Handbook of Rational Choice Social  
Research*. New York: The Russell Sage Foundation.

Foss, Nicolai and Peter G Klein. 2005.  
"Entrepreneurship and the Economic Theory of the  
Firm: Any Gains From Trade?," in Sharon A. Alvarez,  
Rajshree Agarwal and Olav Sorenson, eds.  
*Handbook of Entrepreneurship Research:  
Interdisciplinary Perspectives*. Springer.

- ToF generally recognized as important **source theories** for important, even foundational inputs,
  - Strategic management, organizational theory, relational marketing, and international business.
  - (Considerable controversy).



- Basic reason: The firm as a fundamental **unit of analysis** in most of management.
  - Many **dependent** and **independent** variables in management research are firm-level.
  - TOF is very much taken up with firm-level variables.

- **Other** (organizational) theories also deal with firm-level variables (contingency, resource-dependency, etc.).

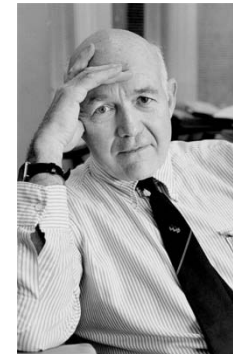
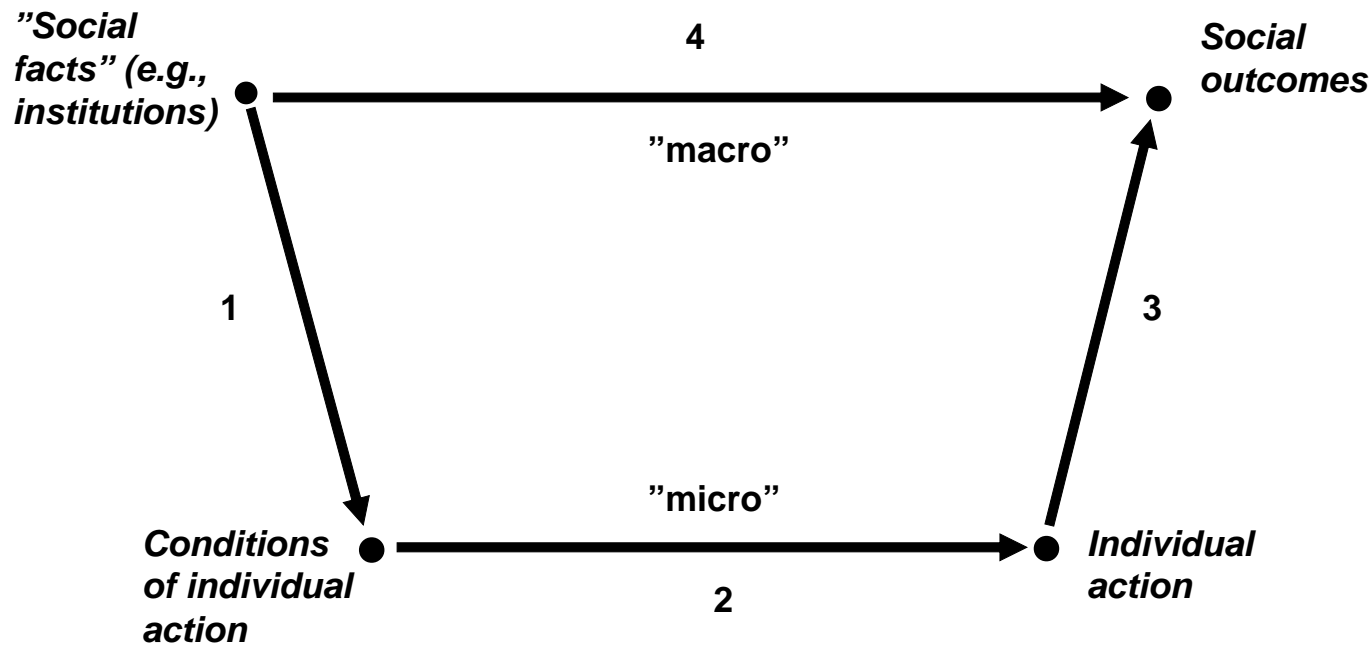


Could be things like:

- **Explicit** behavioral assumptions.
  - (Some) variables that are given to **operationalization**.
  - Clear **causal** logic linking (measurable) variables.
  - **Multi-level**.
  - Clear (unique) **predictions**.
  - **Empirical** support
  - **Efficiency** focus.
  - Yet, an attempt (at least in the case of TCE) to **also** include insights outside of econ.
-

# (SOUND) SOCIAL SCIENCE EXPLANATION

Figure 1: A General Model of Social Science Explanation



Source: James S Coleman. 1990. *Foundations of Social Theory*.

**Note:** Explicitly link variables together **causally**, **2 levels** (can be expanded), need to explicate **behavioral assumptions** ...

**”... [o]f all the new subfields of economics, the transaction cost branch of organizational economics has the greatest affinity with strategic management. ... [TCE]... is the ground where economic thinking, strategy and organizational theory meet”**

**-- Rumelt, Schendel and Teece (1991).**

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**“...firms have choices to make if they are to survive. Those that are *strategic* include: the selection of goals; the choice of products and services to offer; the design and configuration of ... competitive strategy; the choice of an appropriate level of scope and diversity; and the design of organization structure, administrative systems and policies used to define and coordinate work ... It is the *integration* (or reinforcing pattern) among these choices that makes a set a strategy”**

**-- Rumelt, Schendel & Teece 1994**

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- **Porterian positioning:** Ultimately founded on the neoclassical theory of the firm (Porter, 1981, AMR).
  - **The RBV:** Founded on a specific version of the neoclassical theory of the firm (e.g., Peteraf, 1993; see Foss, 2000).
  - **Dynamic capabilities:** Founded on behavioral and evolutionary TOF (e.g., Boerner, Pierce & Teece, 2002).
  - **Strat man research on vertical integration based on TCE** (e.g., Mahoney, 1992; D'Aveni & Ravenscraft, AMJ, 1992)
  - **Strat man research on diversification based on PAT** (e.g., Lane et al., 1998; SMJ; Denis et al., 1999, SMJ).
-

For the 1994-2000 period, among the top cited documents in the *Strategic Management Journal* were:

- # 5: Williamson 1975.
- # 6: Nelson & Winter 1982.
- # 9: Cyert & March 1963.
- # 12: Wernerfelt 1984.
- # 13: Barney 1991.
- # 16 Penrose 1959.
- # 23: Jensen & Meckling 1976.
- # 25: March & Simon 1958.



- Source: Ramos-Rodriguez and Ruiz-Navarro. "Changes in the Intellectual Structure of Strategic Management Research," *SMJ* 25: 981-1004 (2004).
-

## Citations to Williamson's TCE Work, by Discipline over 5 year Intervals, 1981-2000 Numbers of Citations

<u>Year</u>	<u>Economics</u>	<u>Business</u>	<u>Law</u>	<u>Sociology</u>	<u>Poli sci</u>	<u>Other</u>	<u>Total</u>
81-85	343	188	43	87	32	34	727
86-90	488	419	91	159	76	63	1296
91-95	736	688	146	267	124	169	2130
96-00	759	1203	229	337	237	295	3060

### Percentages

<u>Year</u>	<u>Economics</u>	<u>Business</u>	<u>Law</u>	<u>Sociology</u>	<u>Poli sci</u>	<u>Other</u>	<u>Total</u>
81-85	47%	26%	6%	12%	4%	5%	100%
86-90	38%	32%	7%	12%	6%	5%	100%
91-95	35%	32%	7%	13%	6%	8%	100%
96-00	25%	39%	7%	11%	8%	10%	100%

## Citations in the Business Literature to Williamson's TCE Work, By Fields over 5 Year Intervals, 1981-2000 Number of Citations

<u>Year</u>	<u>Strategy</u>	<u>OB</u>	<u>Marketing</u>	<u>Finance</u>	<u>OM</u>	<u>Acct</u>	<u>Total</u>
81-85	85	40	20	14	10	19	188
86-90	249	68	34	26	18	25	420
91-95	386	104	69	51	47	31	688
96-00	614	219	123	86	128	33	1203

### Percentages

<u>Year</u>	<u>Strategy</u>	<u>OB</u>	<u>Marketing</u>	<u>Finance</u>	<u>OM</u>	<u>Acct</u>	<u>Total</u>
81-85	45%	21%	11%	7%	5%	10%	100%
86-90	59%	16%	8%	6%	4%	6%	100%
91-95	56%	15%	10%	7%	7%	5%	100%
96-00	51%	18%	10%	7%	11%	3%	100%

# BAD FOR PRACTICE ARGUMENTS

- Ghoshal, S. and P. Moran. 1996. “Bad for Practice,” *Academy of Management Review* 21: 13-47. Google scholar: 640.
- Ghoshal, S. 2005. “Bad management theories are destroying good management practices”. *Academy of Management Learning and Education*, 4: 75-91. Google scholar: 239.
- Mintzberg, H., Simons, R. and Basu, K. 2002. ”Beyond selfishness”. *Sloan Management Review* (Fall, 2002). Google scholar: 62.
- Ferraro, F., Pfeffer, J, and Sutton, R.I. 2005. “Economics language and assumptions: How theories can become self-fulfilling” *Academy of Management Review* 30: 8-24. Google scholar: 123.
  - AMR Best Paper Award 2006.





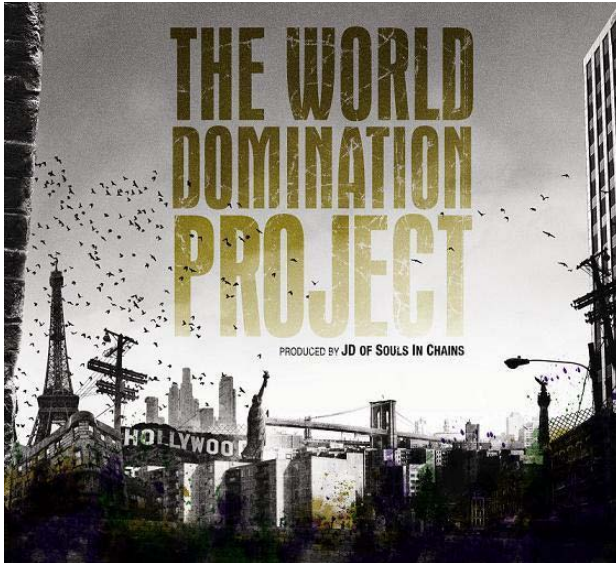
- Most sophisticated statement in Ferraro, Pfeffer and Sutton (2005, AMR, ”
- The teaching of econ, **particularly TOF**, creates a self-fulfilling prophecy. (Note: Economics is ”initially” false).
- **Negative** theoretical arguments concerning **human nature** are conveyed, diffused and reinforced through language, social norms, and organizational and institutional design.
- The latter **determine** behavior, ”confirming” the theory – i.e., a ”self-fulfilling prophecy.”



Check out Teppo Felin & Nicolai Foss. "Social Reality, the Boundaries of Self-Fulfilling Prophecy, and Economics," *Organization Science* 20: 654-668.

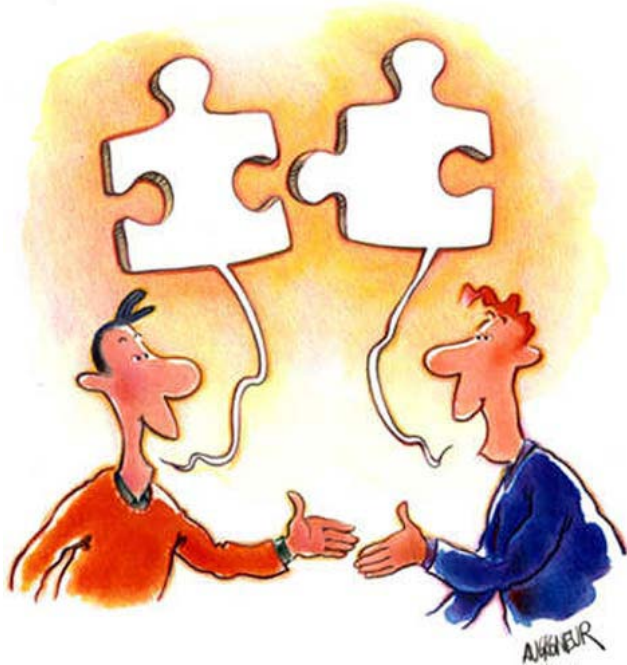
- Many things are **problematic** in the FPS argument.
- E.g., naïve belief that people are just **duped** into accepting and disseminating false constructions.
- Neglects that there are economic **fundamentals**.
- Theories most likely to be adopted when they are **true**.
- **Lopsided** view of economics.
- **Etc. ;-)**

# DOMINANCE OF ECON/TOF?



- Ferraro, Pfeffer & Sutton (and Ghoshal, Mintzberg, etc.) take this **for granted**.
- Strategic management.
- A study of the literature on organizational incentive systems (Merchant, Van der Stede, and Zheng, 2003, AOS) reveals that:
  - 61% of the papers are based on econ ToF (mainly agency theory).
  - 28% are behaviorally-based
  - 11% cite both literatures
  - The economics papers received about 6 citations per paper, the behavioral ones 3.
- But the average AMR/ASQ/AMJ/OS/etc. paper is **not** exactly based on econ TOF.

# AN ALTERNATIVE VIEW



- TOF can assist **dialogue** (“conversation”, cf. Mahoney and Pandian, 1992) in management research.
- Do we **need** such dialogue?

- “...the goal of an integrated, coherent and relevant ‘science of management’ seems, if anything, further away than it did in the halcyon 1950s” (Whitley 1984).
- Still true – but is this a **problem**?

# BENEFICIAL PLURALISM? OR HARMFUL FRAGMENTATION?



*“Am I to understand that my proposal is greeted with some skepticism?”*



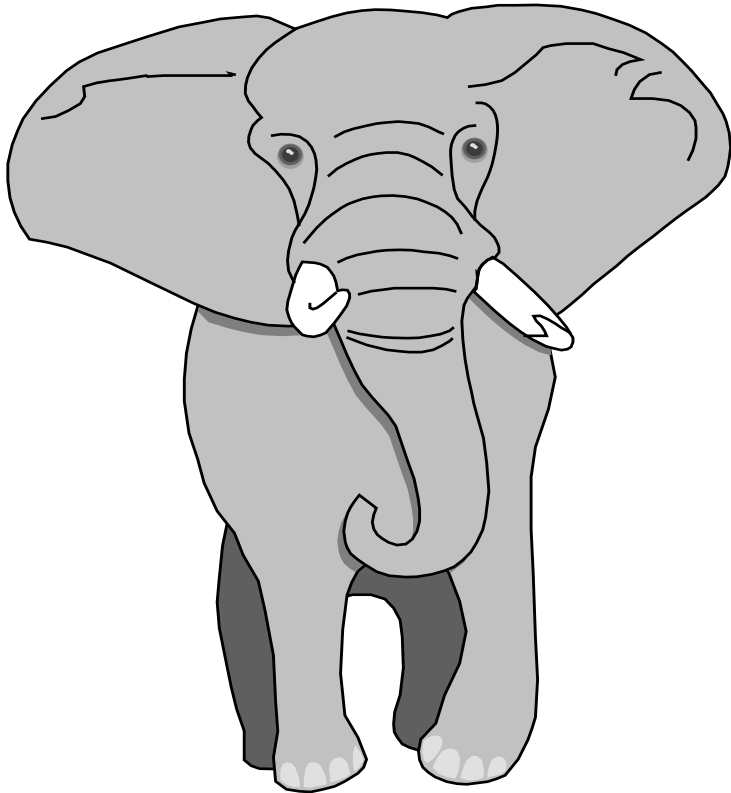
- Though fundamentally an economics stream, TOF **makes contact to** sociology and (social-) psychology -- i.e., the three dominant base disciplines in management).
- Certain **integrative** ambition -- particularly in Williamson's TCE.
- Many contract theorists also see their work as linking up with sociological organization theory (e.g., Robert Gibbons, ASQ, 2001; ICC, 2003; JEP 2004; David Kreps).

# SO ... WHAT IS IT, THEN?

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**”A systematized body of knowledge about what firms are, what firms do, what causes them to behave in certain ways, what makes them exist, change, undertake the production of certain products, demand certain inputs, learn and innovate, differ from other firms, etc.”**

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## **Grandparent theories**

Neoclassical  
Behavioral  
Managerial

## **Extended family**

Evolutionary theory of the firm  
Resource-based view  
Dynamic capabilities, etc.

## **Nuclear family**

Agency theory  
Transaction cost economics  
Property rights theory

Consider ”**nuclear family theories**” – Econ ToF

## The Nature of the Firm

By R. H. COASE

Economic theory has suffered in the past from a failure to state clearly its assumptions. Economists in building up a theory have often omitted to examine the foundations on which it was erected. This examination is, however, essential not only to prevent the misunderstanding and needless controversy which arise from a lack of knowledge of the assumptions on which a theory is based, but also because of the extreme importance for economics of good judgment in choosing between rival sets of assumptions. For instance, it is suggested that the use of the word "firm" in economics may be different from the use of the term by the "plain man."<sup>1</sup> Since there is apparently a trend in economic theory towards starting analysis with the individual firm and not with the industry,<sup>2</sup> it is all the more necessary not only that a clear definition of the word "firm" should be given but that its difference from a firm in the "real world," if it exists, should be made clear. Mrs. Robinson has said that "the two questions to be asked of a set of assumptions in economics are: Are they tractable? and: Do they correspond with the real world?"<sup>3</sup> Though, as Mrs. Robinson points out, "more often one set will be manageable and the other realistic," yet there may well be branches of theory where assumptions may be both manageable and realistic. It is hoped to show in the following paper that a definition of a firm may be obtained which is not only realistic in that it corresponds to what is meant by a firm in the real world, but is tractable by two of the most powerful instruments of economic analysis developed by Marshall, the idea of the margin and that of substitution, together giving the idea of substitution at

<sup>1</sup> Joan Robinson, *Economics is a Serious Subject*, p. 12.

<sup>2</sup> See N. Kaldor, "The Equilibrium of the Firm," *Economic Journal*, March, 1934.

<sup>3</sup> Op. cit., p. 6.

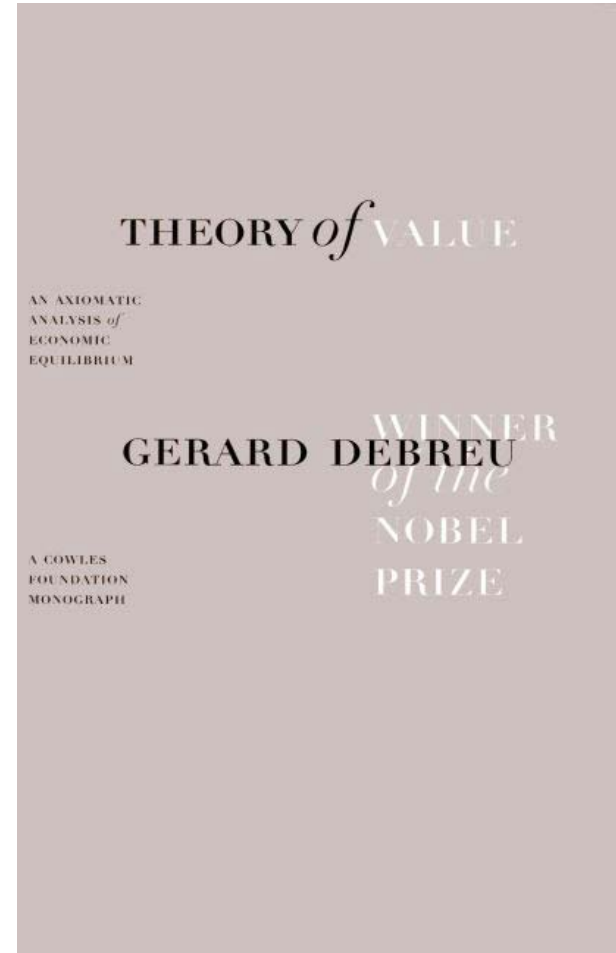
## A theory that explains

- The **existence** of the firm (and other kinds of economic organization).
- The **boundaries** of the firm (ditto).
- The **internal organization** of the firm (ditto).



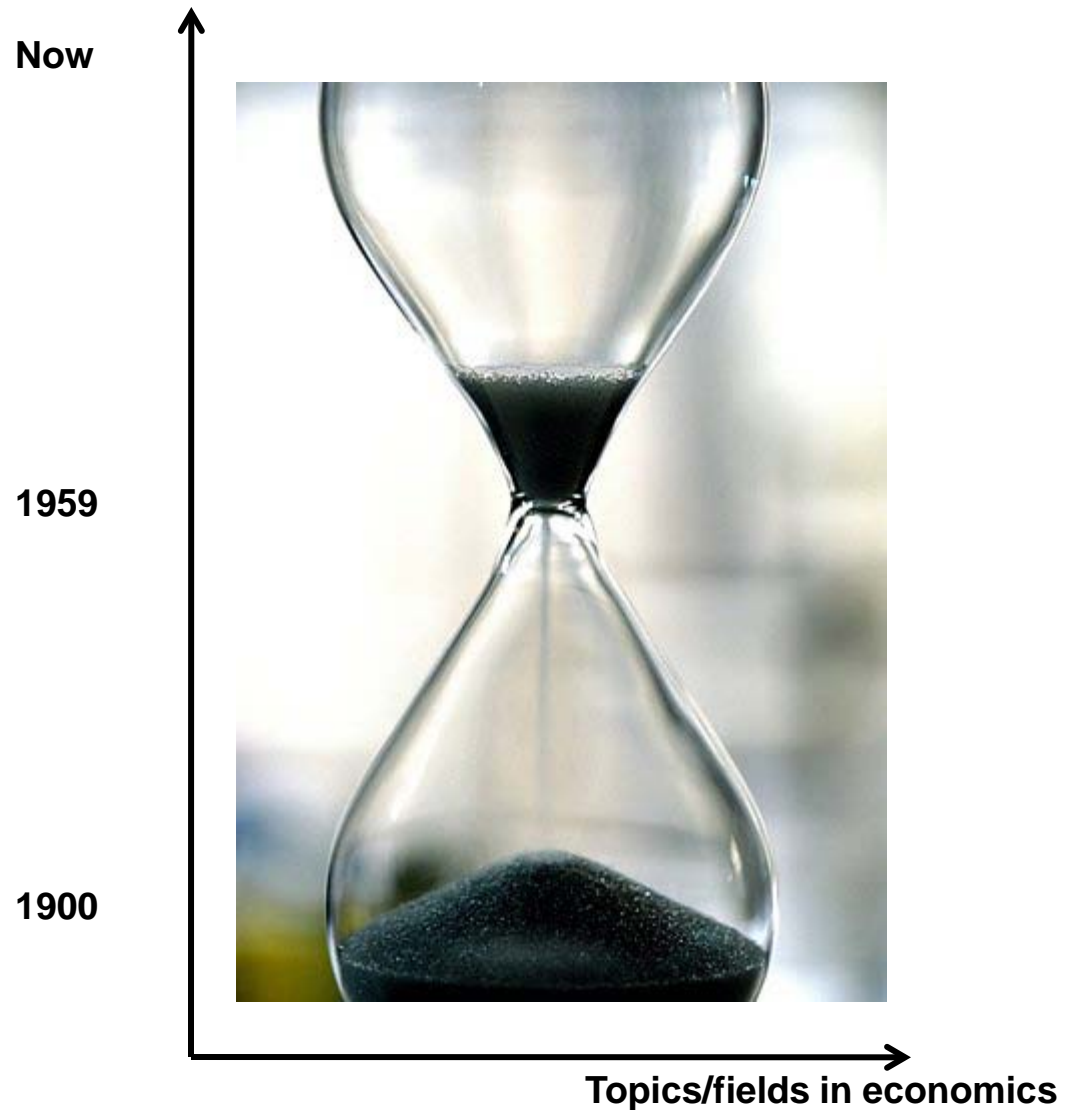
Ronald H Coase, 1910-

”... the concept of a *producer*, i.e., an economic agent whose role is to choose (and carry out) a production plan. ... For a producer ... a production plan (made now for the whole future) is a specification of the quantities of all his inputs and all his outputs; outputs are represented by positive number, inputs by negative numbers. With this convention ... a production plan is represented by a point,  $y_j$ , of  $R_I$ , the commodity space” (Debreu 1959: 38).



# ROMER'S TIMEGLAS

- Coase's "The Nature of the Firm" published in 1937.
- Debreu's 1959 firm much more primitive. Why?



# THE CHANGING ECONOMIC CANON

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**1959**

**Purposeful behavior (often  
"greed")**

**Forward-looking agents**

**Full information**

**Equilibrium**

**Competitive markets**

**2009**

**Purposeful behavior (but many  
more "purposes")**

**Forward-looking agents (but not  
perfect)**

**Asymmetric and imperfect  
information**

**Great proliferation of equilibrium  
concepts**

**Small numbers interaction**

**Claim in Foss & Klein (2009): This radical change in the "economic canon" paved the way for the TOF from the beginning of the 1970s.**

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# DIFFERENT TOFs

1. "Old" property rights tradition (Coase, Cheung, Alchian & Demsetz, Barzel.)
  2. Early, verbal agency theory (Jensen & Meckling, Fama, Demsetz ...).
  3. Principal-agent theory (Wilson, Ross, Holmström, Milgrom, Roberts, Hart, Tirole, Laffont, ...).
  4. Williamsonian transaction cost economics (Joskow, (B & P) Klein, ..)
  5. New property rights economics (Hart, Moore).
  6. Coordination and team theories (Wernerfelt, Sah & Stiglitz, Dessein, Garicano...).
- Contracting: Complete or incomplete?
  - Which transaction costs are considered?
  - Assumptions about human actors?
  - Formalization/closeness to mainstream economics?
  - Mode of explanation?

***NOTE: Only 4 and 5 are TOFs in the narrow Coasian sense.***

# BUT THEY ARE ALL ABOUT ...

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1) **value creation,**

2) why it may be **difficult** for a group of cooperating agents to realize maximum value creation ("efficient outcomes"), and

3) what they can do on the level of contracting and institution-building to **get closer to the optimum.**

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# VALUE MAXIMIZATION

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- Cooperating agents want to max the value they **jointly** create
  - Doesn't this depend on **how much** each get?
  - **Not** if TC are zero (or small) -- then their bargaining strength will *not* matter to the size of the value they create (as long as each get at least his opportunity cost) (**Coase theorem**).
  - Intuition: With a bigger pie, at least one agent can get a bigger slice and the rest can get the same slices – and they can always negotiate towards this (**Pareto optimality**).
-

Define the "negotiation set" of two agents – e.g.,

$V = [ (a,b) , (c, d) ]$ ;  $a, b, c, d$ , are payoffs,  $(a, c)$  are player 1's payoffs, and  $(b, d)$  are player 2's.

Relation between the two pairs if the two player negotiate in 1994 about a *marketing-joint-venture* in China, where  $(a, b)$  are payoffs created by investments and  $(c, d)$  are status quo payoffs?

In the latter case,  $(c,d)$  are called "default outcomes".

Core problem in ToF:

Agents may confront situations where it is not trivial to realize the "good" outcomes and avoid the "bad" (default) outcomes.

# Example

		B	
		v	z
A	x	2,2	0,0
	y	0,0	4,1

		B	
		v	z
A	x	2,2	0,0
	y	0,0	4-u, 1+u

Two (Nash) equilibria:  $(x,v)$  and  $(y,z)$ .

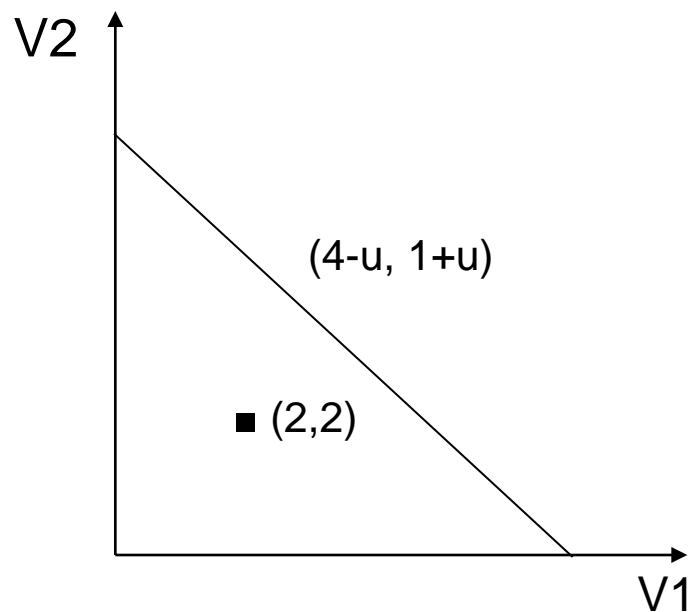
Problem: Make A and B play  $(y,z)$  and share 5

Potential solution: A offers B a bribe,  $u$ , for playing  $z$ ;  $1 < u < 2$ .

Pot sol because it expands the bargaining set.

New problem: Is A:  $y$ , B:  $z$  a set of subgame perfect strategies?

## When players can make "side-payments"



- ... the negotiation set may be portrayed as in the fig.
- ... total value may be defined as the sum of the players' payoffs,  $TV = V1 + V2$ .
- ... the set of efficient outcomes are those that maximize the total value.
- ... the compensation is irrelevant to total value creation (as long as  $1 < u < 2$ )
- All this is for  $TC = 0$ .
- Continue with the example, now adding TC.



		<b>B</b>	
		<b>v</b>	<b>z</b>
<b>A</b>	<b>x</b>	2,2	0,0
	<b>y</b>	0,0	4-u, 1+u

A gives B u  
for playing z

Will B play z?

Situation 1:



Situation 2:



A promises B to give  
him u **after** B has  
played z

A and B play

Will A give B u?

**$(x, v)$  or  $(y, z)$ ?**

**Contract enforcement? E.g., repeated dealings?**

**Contracting – complete or incomplete?**

**Verifiability?**

**Firm organization or market organization?**

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- Transaction costs are **impediments** to value creation.
- Value can be **created** by reducing TC (Foss & Foss, 2005, SMJ).
- Firms can have a **transaction cost-reducing** competitive advantage.
- Superior contract (and more broadly: relation) drafting, monitoring, managing, etc. **capabilities**. (Will get back to this).

Strategic Management Journal

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## RESOURCES AND TRANSACTION COSTS: HOW PROPERTY RIGHTS ECONOMICS FURTHERS THE RESOURCE-BASED VIEW

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Property rights economics further the resource-based view of strategic management in a number of ways. First, resources are conceptualized as being comprised of multiple attributes for which property rights may be held. Second, a resource owner's ability to create, appropriate, and sustain value from resources depends on the property rights that he or she holds and on the transaction costs of exchanging, defining, and protecting them. While transaction costs are a major source of value destruction, defining such destruction may create value. Implications for the RBV analysis of sustainable competitive advantage are derived. Copyright © 2005 John Wiley & Sons, Ltd.

### INTRODUCTION

According to Nobel Prize winner, Ronald Coase (1962: 716):

[Businessmen in deciding on their ways of doing business and on what to produce have to take into account transaction costs.... In fact, a large part of what we think of as economic activity is obliged to accomplish what high transaction costs would otherwise prevent.

For example, consider the DeBeers diamond cartel and the practice they have adopted for organizing sales. A customer informs DeBeers of her wishes for a specific number and quality of stones. DeBeers then offers the customer a packet of stones—a 'tight'—that roughly corresponds to the customer's wishes. The tight is offered on a 'take-it-or-leave-it' basis, where refusal to take the tight means that DeBeers refuses to deal with

the customer any more. The price is calculated based on the overall characteristics of the stones and no negotiation over the price is allowed.

Does this strategy reflect raw market power on the part of a player that controls 80 percent of the world market for raw diamonds? Property rights economists have argued that it does not (Hartel, 1982; Kenney and Klein, 1983). Rather, this is a practice that maintains created value in firm-customer relations by reducing the costs customers otherwise would have expended on sorting and negotiating, and it arguably exists for this reason (it would be superfluous in a zero transaction cost world). DeBeers sorts the product, but only in a coarse manner. The 'take-it-or-leave-it' practice and the non-negotiable price mean that negotiation costs are effectively eliminated. As only minimum resources (i.e., transaction costs) are spent on sorting and negotiating, DeBeers' practice maintains the total created value that the parties to the transaction can split. Similar practices can be observed in many other industries, such as the prepackaging of fruit and vegetables in grocery stores, or block booking in the movie industry (Hartel, 1982, 1987; Kenney and Klein, 1983).

**Keywords:** transaction costs; property rights; resource value

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# "THE TOF ANALYTICAL ENGINE"

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TOF begins from individual actors, examines their interaction, and "builds up" from this ("methodological individualism")

... making specific assumptions about cognition, motivation and structure of interaction ("low-fat modelling")

... pinning out why exchange processes usually fail to reach first-best outcomes ("market failure")...

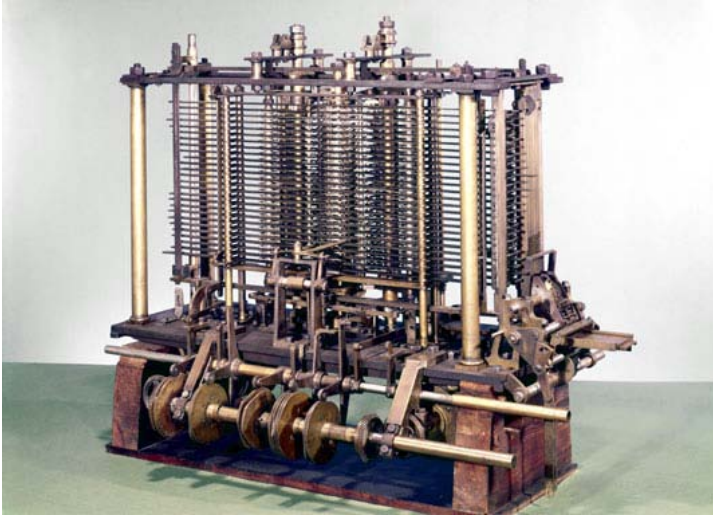
... but also identifying how (smart) actors may succeed in reaching the second-best, using contracts and governance structures ("comparative institutionalism/contracting").

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# THE EXPLANATORY REACH OF TOF

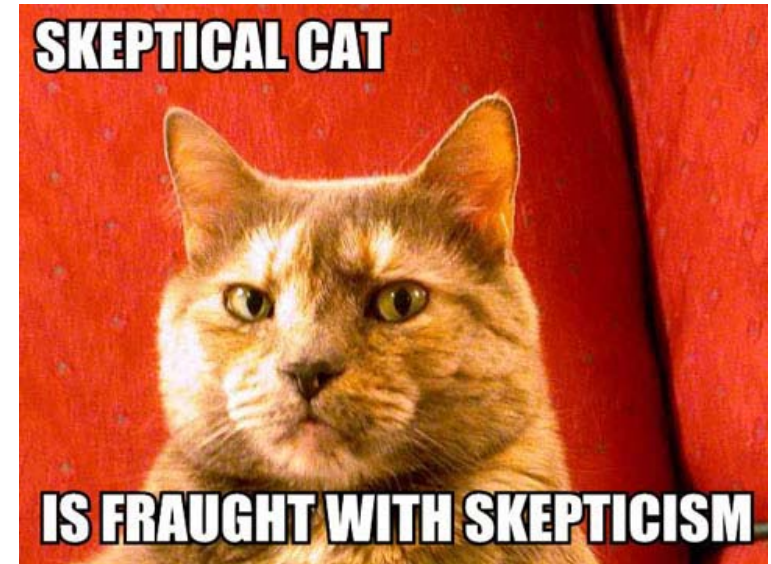


- Recall that TOF addresses the existence, boundaries and internal organization of firms.
- These are **highly abstract** theoretical conceptualizations of phenomena.
- E.g., what **exactly** does it mean to say that TOF explains "internal organization"?
- E.g., psychological contracts? Organizational belief systems? The moulding of behaviors by organizational culture? Leadership behavior? Power relations? Empowerment? Solidary behaviors within the firm? Trust? Etc.



- In fact, there **is** TOF work on such "soft" issues.
  - Social psychology, political science, anthropology?
  - These issues are all addressed in the TOF, using the "TOF Analytical Engine."
- 
- E.g., Kreps (1990) conceptualize corporate culture within the logic of repeated games.
  - Foss, Foss and Vazquez (2006) do the same with respect to psychological contracts.
  - Jensen and Meckling (1992) shows how delegation ("empowerment") allows for a better use of local knowledge.
  - Milgrom (1988) shows how the rigidity of hierarchical rules may reflect attempts to reduce rent-seeking.

- TOF theorists have been successful of providing conceptualizations and explanations of such phenomena **within the confines of the TOF**.
- Are these stories **convincing**? Do they capture the **essential** aspects of the phenomena? Are they to empirical **testing**? subject





- Remember Kreps' (1997) point: Economics has **drastically expanded** its explanatory power by modifying 1) behavioral assumptions and 2) assumptions about interaction.
  - More "**realism.**"
  - Does economics **still** make strong assumptions?
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- Recall **earlier game theory example**.
- **Assumed** that A and B know, 1) about the other player's existence, 2) the other player's rationality, 3) the other player's strategies, 4) their own strategies, 5) that the other player knows, 6) the structure of the game, etc. (and all this is common knowledge).
- Where all this **comes from** is "black-boxed."
- Rationality **perfect**.
- While players can be **asymmetrically** informed about (are ignorant about) a few things, they have **perfect** knowledge about other things (Foss & Foss, 2000, JEM) – "spanners-in-the-works", "on-off approach".
- Motivation and cognition are **separate** things.

- Eship “involves the study of sources of opportunities; the processes of discovery, evaluation, and exploitation of opportunities; and the set of individuals who discover, evaluate, and exploit them.”
- Also consider “how the exploitation of entrepreneurial opportunities are organized in the economy.”

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## NOTE

### THE PROMISE OF ENTREPRENEURSHIP AS A FIELD OF RESEARCH

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To date, the phenomenon of entrepreneurship has lacked a conceptual framework. In this note we draw upon previous research conducted in the different social science disciplines and applied fields of business to create a conceptual framework for the field. With this framework we explain a set of empirical phenomena and predict a set of outcomes not explained or predicted by conceptual frameworks already in existence in other fields.

For a field of social science to have usefulness, it must have a conceptual framework that explains and predicts a set of empirical phenomena not explained or predicted by conceptual frameworks already in existence in other fields. To date, the phenomenon of entrepreneurship has lacked such a conceptual framework. Rather than explaining and predicting a unique set of empirical phenomena, *entrepreneurship* has become a broad label under which a hodgepodge of research is housed. What appears to constitute entrepreneurship research today is some aspect of the setting (e.g., small businesses or new firms), rather than a unique conceptual domain. As a result, many people have had trouble identifying the distinctive contribution of the field to the broader domain of business studies, undermining the field's legitimacy. Researchers in other fields ask why entrepreneurship research is necessary if it does not explain or predict empirical phenomena beyond what is known from work in other fields. Moreover, the lack of a conceptual framework has precluded the development of an understanding of many important phenomena not adequately explained by other fields.

One example of this problem is the focus in the entrepreneurship literature on the relative

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performance of individuals or firms in the context of small or new businesses. Since strategic management scholars examine the differences in and sustainability of relative performance between competitive firms, this approach is not unique (Venkataraman, 1997). Moreover, the approach does not provide an adequate test of entrepreneurship, since entrepreneurship is concerned with the discovery and exploitation of profitable opportunities. A performance advantage over other firms is not a sufficient measure of entrepreneurial performance, because a performance advantage may be insufficient to compensate for the opportunity cost of other alternatives, a liquidity premium for time and capital, and a premium for uncertainty bearing. Therefore, although a conceptual framework to explain and predict relative performance between firms is useful to strategic management, it is not sufficient for entrepreneurship.

We attempt an integrating framework for the entrepreneurship field in the form of this note. We believe that this framework will help entrepreneurship researchers recognize the relationship among the multitude of necessary, but not sufficient, factors that compose entrepreneurship, and thereby advance the quality of empirical and theoretical work in the field. By providing a framework that both sheds light on unexplained phenomena and enhances the quality of research, we seek to enhance the field's legitimacy and prevent its marginaliza-

- **New firms** emerge through entrepreneurial acts – Existence of the firm issue (Foss & Klein, 2005)
- Changes in the **boundaries** of firms may reflect entrepreneurial experimentation with new asset combinations (Matsusaka, 2001; Klein & Klein, 2002).
- **Spinoffs** may reflect incentive problems in parent firm (agency issue; internal organization) (spawning literature, Gompers et al., 2004, JFE).
- What **asset combinations** are necessary to realize opportunities (Teece, 1986).



- **Antecedents of opportunity discovery – genes, psychological dispositions, non-extrinsic motivation, networks, etc.**
  - **Process and team aspects of opportunity discovery/creation.**
  - **Opportunity evaluation.**
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