"Agency Theory: An Assessment and Review"

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One day Deng Xiaoping decided to take his grandson to visit Mao. "Call me granduncle." Mao offered warmly. "Oh, I certainly couldn't do that, Chairman Mao," the awe-struck child replied. "Why don't you give him an apple?" suggested Deng. No sooner had Mao done so than the boy happily chirped. "Oh thank you, Grandunde." "You see," said Deng. "what incentives can achieve."

("Capitalism," 1984: 62)

Agency theory has been used by scholars in accounting (e.g. Demski and Feltham, 1978), economics (e.g. Spence and Zeckhauser, 1971), finance (e.g. Fama, 1980), marketing (e.g. Basu et al., 1985), political science (e.g. Eisenhardt, 1985, 1986; Kosnik, 1987), and sociology (e.g. Eccles, 1985; White, 1985). Yet, it is still surrounded by controversy. Its proponents argue that a revolution is at hand and that "the foundation for a powerful theory of organizations is being put into place" (Jensen, 1983: 324). Its detractors call it trivial, dehumanizing, and even "dangerous" (Perrow, 1986: 235).

Which is it: grand theory or great sham? The purposes of this chapter are to describe agency theory and to indicate ways in which organizational researchers can use its insights. The paper is organized around four questions that are germane to organizational research. The first asks the deceptively simple question, What is agency theory? Often, the technical style, mathematics, and tautological reasoning of the agency literature can obscure the theory. Moreover, the agency literature is split into two camps (Jensen, 1983), leading to differences in interpretation. For example, Barney and Ouchi (1986) argued that agency theory emphasizes how capital markets can affect the firm, whereas other authors made no reference to capital

markets at all (Anderson, 1985; Demski and Feltham, 1978; Eccles, 1985; Eisenhardt, 1985).

The second question is, What does agency theory contribute to organizational theory? Proponents such as Ross (1973: 134) argued that "examples of agency are universal." Yet other scholars such as Perrow (1986) claimed that agency theory addresses no clear problems, and Hirsch and Friedman (1986) called it excessively narrow, focusing only on stock price. For economists, long accustomed to treating the organization as a "black box" in the theory of the firm, agency theory may be revolutionary. Yet, for organizational scholars the worth of agency theory is not so obside.

The third question is, Is agency theory empirically valid? The power of the empirical research on agency theory to explain organizational phenomena is important to assess, particularly in light of the criticism that agency theory is "hardly subject to empirical test since it rarely tries to explain actual events" (Perrow, 1986: 224). Perrow (1986) also criticized the theory for being unrealistically one-sided because of its neglect of potential exploitation of workers.

The final question is, What topics and contexts are fruitful for organizational researchers who use agency theory? Identifying how useful agency theory can be to organizational scholars requires understanding the situations in which the agency perspective can provide theoretical leverage.

The principal contributions of the paper are to present testable propositions, identify contributions of the theory to organizational thinking, and evaluate the extant empirical literature. The overall conclusion is that agency theory is a useful addition to organizational

theory. The agency theory ideas on risk, outcome uncertainty, incentives, and information systems are novel contributions to organizational thinking, and the empirical evidence is supportive of the theory, particularly when coupled with complementary theoretical perspectives.

ORIGINS OF AGENCY THEORY

During the 1960s and early 1970s, economists explored risk sharing among individuals or groups (e.g. Arrow, 1971; Wilson, 1968). This literature described the risk-sharing problem as one that arises when cooperating parties have different attitudes toward risk. Agency theory broadened this risk-sharing literature to include the so-called agency problem that occurs when cooperating parties have different goals and division of labor (Jensen and Meckling, 1976; Ross, 1973). Specifically, agency theory is directed at the ubiquitous agency relationship, in which one party (the principal) delegates work to another (the agent), who performs that work. Agency theory attempts to describe this relationship using the metaphor of a contract (Jensen and Meckling, 1976).

Agency theory is concerned with resolving two problems that can occur in agency relationships. The first is the agency problem that arises when (a) the desires or goals of the principal and agent conflict and (b) it is difficult or expensive for the principal to verify what the agent is actually doing. The problem here is that the principal cannot verify that the agent has behaved appropriately. The second is the problem of risk sharing that arises when the principal and agent have different attitudes toward risk. The problem here is that the principal and the agent may prefer different actions because of the different risk preferences.

Because the unit of analysis is the contract governing the relationship between the principal and the agent, the focus of the theory is on determining the most efficient contract governing the principal-agent relationship given assumptions about people (e.g. self-interest, bounded rationality, risk aversion), organizations (e.g. goal conflict among members), and information (e.g. information is a commodity which can be purchased). Specifically, the question becomes, is a behavior-oriented contract (e.g. salaries, hierarchical governance) more efficient than an outcomeoriented contract (e.g. commissions, stock options, transfer of property rights, market governance)? An overview of agency theory is given in Table 1.

expressions of self-interest. Most frequently, agency blame, impression management, lying, and other latory policy to microlevel dyad phenomena such as settings, ranging from macrolevel issues such as reguand an agent who are engaged in cooperative ena such as compensation (e.g. Conlon and Parks Overall, the domain of agency theory is relationships 1976), vertical integration (Anderson, 1985; Eccles Argawal and Mandelker, 1987; Jensen and Meckling relationships (e.g. Fama and Jensen, 1983; Kosnik theory has been applied to organizational phenomthat mirror the basic agency structure of a principal 1985), and innovation (Bolton, 1988; Zenger, 1988) 1987), ownership and financing structures (e.g tion strategies (e.g. Amihud and Leve, 1981), board 1988; Eisenhardt, 1985), acquisition and diversifica-The agency structure is applicable in a variety of

micgianon, namere pricing/	
integration transfer pricing)	
whistle-blowing, vertical	
impression management,	
regulation, leadership,	
preferences (e.g. compensation,	
differing goals and risk	
principal and agent have partly	domain
Relationships in which the	Problem
Risk sharing	
adverse selection)	problems
Agency (moral hazard and	Contracting
commodity	assumption
Information as a purchasable	nformation
principal and agent	
Information asymmetry between	
criterion	
Efficiency as the effectiveness	
participants	assumptions
Partial goal conflict among	Organizational
Risk aversion	
Bounded rationality	assumptions
Self-interest	-luman
agent	analysis
Contract between principal and	Jnit of
and risk-bearing costs	
organization of information	
should reflect efficient	
Principal-agent relationships	Key idea

Table 1 Agency theory overview.

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behavior, but have differing goals and differing attitudes toward risk.

AGENCY THEORY

theory has developed along two lines: positivist and From its roots in information economics, agency between the principal and the agent. They also share share a common unit of analysis: the contract principal-agent (Jensen, 1983). The two streams and information. However, they differ in their mathecommon assumptions about people, organizations, matical rigor, dependent variable, and style.

Positivist agency theory

behavior. Positivist research is less mathematical than nance mechanisms that limit the agent's self-serving have conflicting goals and then describing the goversituations in which the principal and agent are likely to Positivist researchers have focused on identifying managers of large, public corporations (Berle and the principal-agent relationship between owners and have focused almost exclusively on the special case of principal-agent research. Also, positivist researchers

ownership by managers aligns managers' interests structure of the corporation, including how equity of efficient capital and labor markets as information with those of owners. Fama (1980) discussed the role mechanisms that are used to control the self-serving Jensen and Meckling (1976) explored the ownership these ideas to controversial practices, such as golden of top executives. Jensen and corporations could use to monitor the opportunism information system that the stockholders within large described the role of the board of directors as an behavior of top executives. Fama and Jensen (1983) parachutes and corporate raiding. (Jensen, 1984; Jensen and Roeback, 1983) extended Three articles have been particularly influential his colleagues

stream has been most concerned with describing the is that outcome-based contracts are effective in sitions capture the governance mechanisms which problem. Jensen (1983: 326) described this interest as governance mechanisms that solve the agency are identified in the positivist stream. One proposition why certain contractual relations arise." Two propo-From a theoretical perspective, the positivist

curbing agent opportunism. The argument is that managers decreases managerial opportunism. In described how increasing the firm ownership of the depend on the same actions, and, therefore, the conthose of the principal because the rewards for both such contracts coalign the preferences of agents with formal terms, reduced. For example, Jensen and Meckling (1976) flicts of self-interest between principal and agent are

likely to behave in the interests of the principal. cipal and agent is outcome based, the agent is more Proposition 1: When the contract between the prin-

tems also curb agent opportunism. The argument markets on managerial opportunism, and Fama and principal. For example, Fama (1980) described the agent will realize that he or she cannot deceive the are likely to curb agent opportunism because principal about what the agent is actually doing, they boards of directors play in controlling managerial Jensen (1983) described the information role that the information effects of efficient capital and labor here is that, since information systems inform the behavior. In formal terms, The second proposition is that information sys-

to verify agent behavior, the agent is more likely to Proposition 2: When the principal has information behave in the interests of the principal.

as enriching economics by offering a more complex ist (Hirsch et al., 1987; Perrow, 1986) and by microbeen criticized by organizational theorists as minimal view of organizations (Jensen, 1983). However, it has economists as tautological and lacking rigor (Jensen, ignited considerable research (Barney and Ouch) 1983). Nonetheless, positivist agency theory has 1986) and popular interest ("Meet Mike," 1988). At its best, positivist agency theory can be regarded

Principal-agent research

careful specification of assumptions, which are for relationships (Harris and Raviv, 1978). Characteristic of lawyer-client, buyer-supplier, and other agency theory that can be applied to employer-employee, general theory of the principal-agent relationship a Principal-agent researchers are concerned with a lowed by logical deduction and mathematical proof. formal theory, the principal-agent paradigm involves

> and greater interest in general, theoretical implicaprimarily on the more widely known positivist stream. Indeed, the most vocal critics of the theory (Hirsch agent theory is abstract and mathematical and, owner-CEO relationship in the large corporation. almost exclusively on the special case of the tions. In contrast, the positivist writers have focused et al., 1987; Perrow, 1986) have focused their attacks therefore, less accessible to organizational scholars. Finally, principal—agent research includes many more Also, the principal—agent stream has a broader focus In comparison with the positivist stream, principal-

provide background for understanding criticism of tion, and other variables described below. which contract is the most efficient under varying levels of outcome uncertainty, risk aversion, informaalternatives, and principal—agent theory indicates mentary: Positivist theory identifies various contract mportant point is that the two streams are complethe theory. However, they are not crucial. Rather, the For organizational scholars, these differences

to be more risk averse than the principal. has done. Given that the principal is buying the agent's mation, is when the principal knows what the agent neutral.) The approach of the simple model can be of diversifying their investments, should be risk argument behind a more risk averse agent is that and agent, an easily measured outcome, and an agent outcome, between the principal and the agent. The needlessly transfer risk to the agent, who is assumed most efficient. An outcome-based contract would behavior, then a contract that is based on behavior is 1978). The first case, a simple case of complete infordescribed in terms of cases (e.g. Demski and Feltham, should be risk averse and principals, who are capable agents, who are unable to diversify their employment, who is more risk averse than the principal. (Note: The simple model assumes goal conflict between principal determining the optimal contract, behavior versus The focus of the principal-agent literature is on

agent. The argument here is that the agent may Moral hazard refers to lack of effort on the part of the ture, two aspects of the agency problem are cited. agent has behaved appropriately. In the formal literagoals and (b) the principal cannot determine if the because (a) the principal and the agent have different behaved as agreed. The agency problem arises interest of the agent, the agent may or may not have know exactly what the agent has done. Given the self-The second case is when the principal does not

occurs when a research scientist works on a personal the agent is shirking. For example, moral hazard simply not put forth the agreed-upon effort. That is, whether this is the case. entific speciality and the employer cannot judge research scientist claims to have experience in a scieither at the time of hiring or while the agent is workis hired. Adverse selection arises because the princiclaim to have certain skills or abilities when he or she selection refers to the misrepresentation of ability by detect what the scientist is actually doing. Adverse so complex that corporate management cannot research project on company time but the research is pal cannot completely verify these skills or abilities the agent. The argument here is that the agent may ing. For example, adverse selection occurs when a

ments reveal the agent's behavior to the principal, and and additional layers of management. Such investsystems, reporting procedures, boards of directors, by investing in information systems such as budgeting moral hazard or adverse selection), the principal has case. In formal terms, the situation reverts to the complete information two options. One is to discover the agent's behavior In the case of unobservable behavior (due to

related to outcome-based contracts. related to behavior-based contracts and negatively Proposition 3: Information systems are positively

sive to shift risk despite the motivational benefits of uncertainty increases, it becomes increasingly expenoutcome-based contracts are attractive. However, as competitor actions, technological change, and so on, behaviors. Government policies, economic climate, arises because outcomes are only partly a function of price of transferring risk to the agent. The issue of risk motivates behavior by coalignment of the agent's the agent's behavior. Such an outcome-based contract outcome-based contracts. In formal terms, the costs of shifting risk to the agent are low and may cause uncontrollable variations in outcomes. preferences with those of the principal, but at the borne by someone. When outcome uncertainty is low, only the inability to preplan, but also risk that must be The resulting outcome uncertainty introduces not The other option is to contract on the outcomes of

related to outcome-based contracts. related to behavior-based contracts and negatively Proposition 4: Outcome uncertainty is positively

This simple agency model has been described in varying ways by many authors (e.g. Demski and Feltham, 1978; Harris and Raviv, 1979; Holmstrom, 1979; Shavell, 1979). However, the heart of principalagent theory is the trade-off between (a) the cost of measuring behavior and (b) the cost of measuring outcomes and transferring risk to the agent.

A number of extensions to this simple model are possible. One is to relax the assumption of a risk-averse agent (e.g. Harris and Raviv, 1979). Research (MacCrimmon and Wehrung, 1986) indicates that individuals vary widely in their risk attitudes. As the agent becomes increasingly less risk averse (e.g. a wealthy agent), it becomes more attractive to pass risk to the agent using an outcome-based contract. Conversely, as the agent becomes more risk averse, it is increasingly expensive to pass risk to the agent. In formal terms,

Proposition 5: The risk aversion of the agent is positively related to behavior-based contracts and negatively related to outcome-based contracts.

Similarly, as the principal becomes more risk averse, it is increasingly attractive to pass risk to the agent. In formal terms,

Proposition 6: The risk aversion of the principal is negatively related to behavior-based contracts and positively related to outcome-based contracts.

Another extension is to relax the assumption of goal conflict between the principal and agent (e.g. Demski, 1980). This might occur either in a highly socialized or clan-oriented firm (Ouchi, 1979) or in situations in which self-interest gives way to selfless behavior (Perrow, 1986). If there is no goal conflict, the agent will behave as the principal would like, regardless of whether his or her behavior is monitored. As goal conflict decreases, there is a decreasing motivational imperative for outcome-based contracting, and the issue reduces to risk-sharing considerations. Under the assumption of a risk-averse agent, behavior-based contracts become more attractive. In formal terms,

Proposition 7: The goal conflict between principal and agent is negatively related to behavior-based contracts and positively related to outcome-based contracts.

mability of the task is likely to influence the ease of appropriate behavior by the agent can be specified in Programmability is defined as the degree to which measuring behavior (Eisenhardt, 1985, performed by the agent. For example, the programis much more programmed than that of a highmore programmed the task, the more attractive are behavior of agents engaged in more programmed technology entrepreneur. The argument is that the advance. For example, the job of a retail sales cashier programmed tasks readily reveal agent behavior, and the agent's behavior is more readily determined. Very behavior-based contracts because information about jobs is easier to observe and evaluate. Therefore, the (e.g. stock ownership). In formal terms, be compensated with outcome-based contracts wages), whereas entrepreneurs are more likely to case. Thus, retail sales clerks are more likely to the situation reverts to the complete information be paid via behavior-based contracting (e.g. hourly Another set of extensions relates to the task

Proposition 8: Task programmability is positively related to behavior-based contracts and negatively related to outcome-based contracts.

Another task characteristic is the measurability of the outcome (Anderson, 1985; Eisenhardt, 1985). The simple model assumes that outcomes are easily measured. However, some tasks require a long time to complete, involve joint or team effort, or produce soft outcomes. In these circumstances, outcomes are either difficult to measure or difficult to measure within a practical amount of time. When outcomes are measured with difficulty, outcome-based contracts are less attractive. In contrast, when outcomes are readily measured, outcome-based contracts are less attractive. In formal terms,

Proposition 9: Outcome measurability is negatively related to behavior-based contracts and positively related to outcome-based contracts.

Finally, it seems reasonable that when principals and agents engage in a long-term relationship, it is likely that the principal will learn about the agent (e.g. Lambert, 1983) and so will be able to assess behavior more readily. Conversely, in short-term agency relationships, the information asymmetry between principal and agent is likely to be greater, thus making

outcome-based contracts more attractive. In formal terms,

Proposition 10: The length of the agency relationship is positively related to behavior-based contracts and negatively related to outcome-based contracts.

AGENCY THEORY AND THE ORGANIZATIONAL LITERATURE

Despite Perrow's (1986) assertion that agency theory is very different from organization theory, agency theory has several links to mainstream organization perspectives (see Table 2). At its roots, agency theory is consistent with the classic works of Barnard (1938) on the nature of co-operative behavior and March and Simon (1958) on the inducements and contributions of the employment relationship. As in this earlier work, the heart of agency theory is the goal conflict inherent when individuals with differing preferences engage in cooperative effort, and the essential metaphor is that of the contract.

Agency theory is also similar to political models of organizations. Both agency and political perspectives assume the pursuit of self-interest at the individual level and goal conflict at the organizational level (e.g. March, 1962, Pfeffer, 1981). Also, in both perspectives, information asymmetry is linked to the power of lower order participants (e.g. Pettigrew 1973). The difference is that in political models goal conflicts are resolved through bargaining, negotiation, and coalitions – the power mechanism of political science. In agency theory they are resolved through the coalignment of incentives – the price mechanism of economics.

structure. Using agency theory, we would be concerned structuring of control relationships resulting from these Galbraith, 1973; Lawrence and Lorsch, 1967), whereas cerned with the optimal structuring of reporting relaterion for choosing among various organizing forms with whether managers within the chosen structure are whether a firm is organized in a divisional or matrix reporting and decision-making patterns. For example in agency theory they are concerned with the optimal tionships and decision-making responsibilities the organization. They also are efficiency theories; that assume that individuals are boundedly rational and that Both perspectives are information theories. They cessing approaches to contingency theory (Chandler, compensated by performance incentives. using contingency theory, we would be concerned with their focus: In contingency theory researchers are conis, they use efficient processing of information as a criinformation is distributed asymmetrically throughout 1962; Galbrath, 1973; Lawrence and Lorsch, 1967) (Galbrath, 1973). The difference between the two is Agency theory also is similar to the information pro-

The most obvious tie is with the organizational control literature (e.g. Dornbusch and Scott, 1974). For example, Thompson's (1967) and later Ouchil's (1979) linking of known means/ends relationships and crytallized goals to behavior versus outcome control is very similar to agency theory's linking task programmability and measurability of outcomes to contract form (Eisenhardt, 1985). That is, known means/ends relationships (task programmability) lead to behavior control, and crytallized goals (measurable outcomes) lead to outcome control. Similarly, Ouchi's (1979) extension of Thompson's (1967)

Assumption			Perspective		
	Political	Contingency	Organization control	Transaction Agency	Agency
Self-interest	×			×	\times
Goal conflict	×			×	×
Bounded rationality		×	×	×	×
Information asymmetry		×		×	×
Preeminence of efficiency		×	×	×	×
Kisk aversion					×
Information as a commodity					×
	***************************************				***************************************

Table 2 Comparison of agency theory assumptions and organizational perspectives.

framework to include clan control is similar to assuming low goal conflict (Proposition 7) in agency theory. Clan control implies goal congruence between people and, therefore, the reduced need to monitor behavior or outcomes. Motivation issues disappear. The major differences between agency theory and the organizational control literature are the risk implications of principal and agent risk aversion and outcome uncertainty (Propositions 4, 5, 6).

of the principal and agent, outcome uncertainty, and theory these are asset specificity and small numbers important difference is that each theory includes organizational boundaries, whereas in agency theorizfrom different traditions in economics (Spence, 1975): based contracts, and markets correspond to outcomeassumptions of self-interest and bounded rationality. and several unique independent variables. percentage in economics, but each has its own focus information systems. Thus, the two theories share a bargaining. In agency theory there are the risk attitudes unique independent variables. In transaction cost less of boundary, is highlighted. However, the most ing the contract between cooperating parties, regard-In transaction cost theorizing we are concerned with contracts, and markets correspond to behaviorhierarchies roughly correspond the behavior-based noted by Barney and Ouchi (1986), the theories share the transaction cost perspective (Williamson, 1975). As based contracts. However, the two theories arise They also have similar dependent variables; that is, Not surprisingly, agency theory has similarities with

CONTRIBUTIONS OF AGENCY THEORY

Agency theory reestablishes the importance of incentives and self-interest in organizational thinking (Perrow, 1986). Agency theory reminds us that much of organizational life, whether we like it or not, is based on self-interest. Agency theory also emphasizes the importance of a common problem structure across research topics. As Barney and Ouchi (1986) described it, organization research has become increasingly topic, rather than theory, centered. Agency theory reminds us that common problem structures do exist across research domains. Therefore, results from one research area (e.g. vertical integration) may be germane to others with a common problem structure (e.g. compensation).

Agency theory also makes two specific contributions to organizational thinking. The first is the treatment

of information. In agency theory, information is regarded as a commodity: It has a cost, and it can be purchased. This gives an important role to formal information systems, such as budgeting, MBO, and boards of directors, and informal ones, such as managerial supervision, which is unique in organizational research. The implication is that organizations can invest in information systems in order to control agent opportunism.

An illustration of this is executive compensation. A number of authors in this literature have expressed surprise at the lack of performance-based executive compensation (e.g. Pearce et al. 1985; Ungson and Steers, 1984). However, from an agency perspective, it is not surprising since such compensation should be contingent upon a variety of factors including information systems. Specifically, richer information systems control managerial opportunism and, therefore, lead to less performance-contingent pay.

try experience, and number of board members repreand Jensen, 1983). When boards provide richer inforsenting specific ownership groups. number of board members with managerial and indusmittees, number of board members with long tenure, quency of board meetings, number of board subcombe measured in terms of characteristics such as freboards are better monitors of stockholders' interests. ager more than the stockholders are less likely when agency viewpoint, behaviors such as using greenmail whose outcomes may be unsuccessful. Also, when conceived actions (e.g. high risk/high potential R&D) mation, compensation is less likely to be based on firm as monitoring devices for shareholder interests (Fama Operationally, the richness of board information can and golden parachutes, which tend to benefit the manwith stockholders' interests. For example, from an boards provide richer information, top executive are Executives would then be rewarded for taking wellexecutives are better known, compenstation based on performance. Rather, because the behaviors of top tors. From an agency perspective, boards can be used monitoring executive behaviors is the board of direcmore likely to engage in behaviors that are consistent knowledge of executive behaviors is more likely. One particularly relevant information system for

A second contribution of agency theory is its risk implications. Organizations are assumed to have uncertain futures. The future may bring prosperity bankruptcy, or some intermediate outcome, and that future is only partly controlled by organization members. Environmental effects such as government regulation, emergence of new competitors, and technical

innovation can affect outcomes. Agency theory extends organizational thinking by pushing the ramifications of outcome uncertainty to their implications for creating risk. Uncertainty is viewed in terms of risk/reward trade-offs, not just in terms of inability to preplan. The implication is that outcome uncertainty coupled with differences in willingness to accept risk should influence contracts between principal and agent.

Vertical integration provides an illustration. For example, Walker and Weber (1984) found that technological and demand uncertainty did not affect the "make or buy" decision for components in a large automobile manufacturer (principal in this case). The authors were unable to explain their results using a transaction cost framework. However, their results are consistent with agency thinking if the managers of the automobile firm are risk neutral (a reasonable assumption given the size of the automobile firm relative to the importance of any single component). According to agency theory, we would predict that such a risk-neutral principal is relatively uninfluenced by outcome uncertainty, which was Walker and Weber's result.

Conversely, according to agency theory, the reverse prediction is true for a new venture. In this case, the firm is small and new, and it has limited resources available to it for weathering uncertainty: The likelihood of failure looms large. In this case, the managers of the venture may be risk-averse principals. If so, according to agency theory we would predict that such managers will be very sensitive to outcome uncertainty. In particular, the managers would be more likely to choose the "buy" option, thereby transferring risk to the supplying firm. Overall, agency theory predicts that risk-neutral managers are likely to choose the "make" option (behavior-based contract), whereas risk-averse executives are likely to choose "buy" (outcome-based contract).

EMPIRICAL RESULTS

Researches in several disciplines have undertaken empirical studies of agency theory. These studies, mirroring the two streams of theoretical agency research, are in Table 3.

Results of the positivist: stream

In the postivist stream, the common approach is to identify a policy or behavior in which stockholder and management interests diverge and then to

g the ramifibased incentives solve the agency problem. That is, plications for these mechanisms coalign managerial behaviors with n terms of owner preferences. Consistent with the positivist trafinability to dition, most of these studies concern the separation uncertainty of ownership from management in large corporactions, and they use secondary source data that are al and agent.

available for large firms.

ests diverge. Specifically, these authors linked merger more related) acquistions and were more diversified. owner controlled (i.e. had a major stockholder) or and diversification behaviors to whether the firm was ers are an arena in which owner and manager interdiversify their own risk. Hence, conglomerate mergto managers who have fewer avenues available to In contrast, conglomerate mergers may be attractive ers can diversify directly through their stock portfolio. ests of the stockholders because, typically, stockholdexplored why firms engage in conglomerate mergers. ducted by Amihud and Lev (1981). These researchers engaged in significantly more conglomerate (but not and Meckling, 1976), manager-controlled firms Consistent with agency theory arguments (Jensen manager controlled (i.e. had no major stockholder). In general, conglomerate mergers are not in the inter-One of the earliest studies of this type was con-

Along the same lines, Walking and Long (1984) studied managers' resistance to takeover bids. Their sample included 105 large US corporations that were targets of takeover attempts between 1972 and 1977. In general, resistance to takeover bids is not in the stockholders' interests, but it may be in the interests of mangers because they can lose their jobs during a takeover because they can lose their jobs during a takeover. Consistent with agency theory (Jensen and Meckling, 1976), the authors found that managers who have substantial equity positions within their firms (outcome-based contracts) were less likely to resist takeover bids.

The effects of market discipline on agency relationships were examined in Wolfson's (1985) study of the relationship between the limited (principals and general (agent) partners in oil and gas tax and agency affects were combined in order to assess why the limited partnership governance form survived in this setting despite extensive information advantages and divergent incentives for the limited partner. Consistent with agency arguments (Fama, 1980), Wolfson found that long-run reputation effects of the general partner with the limited partners' welfare.

Kosnik (1987) examined another information mechanism for managerial opportunism, the board of

Author(s)	Research stream	Sample	Agency variables	Companion theory	Dependent variables	Results
Amihud and Lev (1981)	Positivist	309 <i>Fortune</i> 500 firms	Manager vs. owner controlled	None	Conglomerate mergers and diversification	Suppor
Walking and Long (1984)	Positivist	105 US firms	Management's equity and options	Shareholder welfare and other controls	Managerial resistance to takeover bid	Suppor
Anderson (1985)	Principal-agent	159 sales districts in 13 electronics firms	Importance of nonselling activities, length of selling cycle, and difficulty evaluating sales performance	Transaction cost	Representative vs. corporate sales force	Mixed
Eisenhardt (1985)	Principal–agent	54 retail stores	Information systems, cost of outcome measurement, and outcome uncertainty	Organizational control	Salary vs. commission	Support
Eccles (1985)	Principal–agent	150 interviews in 13 chemical, electronics, heavy machinery, and machine component firms	Decentralization	Equity	Type of transfer price	Inductiv mode
Volfson (1985)	Positivist	39 oil and gas limited partnerships	General partner's track record	Tax effects	Share price	Support
Volfson (1985)	Positivist	limited	•	Tax effects	Share price	Support
Molfson (1985) Agrawal and Mandelker (1987)	Positivist	limited	•	Tax effects None	Acquisitions diverstitures, and debt/	Support Support
Agrawal and Mandelker (1987)		limited partnerships 209 major	Executive stock holdings Proportion of outside directors, equity held by outside directors, and outside directors with executive		Acquisitions diverstitures,	
Agrawal and Mandelker	Positivist	limited partnerships 209 major corporations 110 major corporations targeted for	Executive stock holdings Proportion of outside directors, equity held by outside directors and outside directors with executive experience Job programmability, span of control, and outcome	None	Acquisitions diversitures, and debt/ equity ratio Payment of greenmail	Support
Agrawal and Mandelker (1987) Cosnik (1987)	Positivist Positivist	limited partnerships 209 major corporations 110 major corporations targeted for greenmail	Executive stock holdings Proportion of outside directors, equity held by outside directors, and outside directors with executive experience Job programmability, span of control, and	None Hegemony	Acquisitions diverstitures, and debt/ equity ratio Payment of greenmail (yes/no) Salary vs. commission	Support
Agrawal and Mandelker (1987) Cosnik (1987) isenhardt (1988)	Positivist Positivist . Principal–agent	limited partnerships 209 major corporations 110 major corporations targeted for greenmail	Executive stock holdings Proportion of outside directors, equity held by outside directors and outside directors with executive experience Job programmability, span of control, and outcome uncertainty	None Hegemony Institutional	Acquisitions diverstitures, and debt/equity ratio Payment of greenmail (yes/no) Salary vs. commission	Support Mixed Support

Table 3 Summary of agency theory studies.

Note: This set of studies was developed through contracting other agency researchers, scanning journals, and following up referenced articles. Although the list is not exhaustive, it includes many of the relevant studies.

of outside directors and a higher proportion of in the stockholders' intersts). As predicted by agency directors. Kosnik studied 110 large US corporations outside directors executives. nies that resisted greenmail had a higher proportion theory (Fama and Jensen, 1983), boards of compawas actually paid (paying greenmail is considered not related board characteristics to whether greenmail Using both hegemony and agency theories, she that were greenmail tergets between 1979 and 1983.

included 209 firms that participated in acquisitions managerial preferences with those of stockholders. That is, executive stock holdings appeared to coalign that were more consistent with stockholder interest. were related to acquisition and financing decisions executive security holdings (outcome-based contract) with agency ideas (e.g. Jensen and Meckling, 1976), and diverstitures between 1974 and 1982. Consistent and Mandelker, 1987, for a review). Their sample acquisitions and lower debt financing (see Argawal stockholders. In general, managers prefer lower risk decisions were made consistent with the interests of executives and whether acquistion and financing tionship between stock and stock option holding of and management. Specifically, they studied the relaties reduced agency problems between stockholders examined whether executive holdings of firm securi-In a similar vein, Argawal and Mandelker (1987)

ciated with executive stock holdings. probability of a takeover attempt and negatively assoparachutes were positively associated with a higher ownership. Specifically, the authors found that golden alternative outcome-based contract to executive stock holders in takeover situations, and they are seen as an used to coalign executive interests with those of stocktheory (Fama and Jensen, 1983; Jensen and Meckling, managerialist perspectives. Consistent with agency chutes in a matched sample of 84 Fortune 500 firms. 1976), the authors found that golden parachutes are Their study included variables from both agency and Singh and Harianto (1989) studied golden para-

ment, the results are consistent with an agency view. Although Barney did not directly test the agency arguefficient capital market through a lower cost of equity. the interests of employees with stockholders. Using ownership (outcome-based contract) would coalign Meckling, 1976), Barney argued that employee stock tal. Consistent with agency theory (Jensen and stock ownership reduces a firm's cost of equity capi-Finally, Barney (1988) explored whether employee

> that is, takeover attempts, debt versus equity financing, here, are also supportive. described earlier Similarly, laboratory studies by these studies support the positivist propositions cient markets (Barney, 1988; Wolfson 1985). Overall 1987; Walking and Long, 1984) and (b) through inforand executive stock holdings (Argawal and Mandelker, such as golden parachutes (Singh and Harianto, 1989) acquisitions, and divestitures, and for the mitigation of tives across situations in which their interests diverge agency problems between shareholders and top execu-Dejong and colleagues (1985), which are not reviewed mation systems such as boarda (Kosnik, 1987) and effiagency problems (a) through outcome-based contracts In summary, there is support for the existence of

Results of the principal-agent stream

or outcome-based. The underlying assumption is that contract, although efficiency is not directly tested. programmability, information systems, and outcome on the contract between the principal and the agent The principal-agent stream is more directly focused principals and agents will choose the most efficient uncertainty to predict whether the contract is behaviories is to use a subset of agency variables such as task given situation. The common approach in these studindicates that most efficient contract alternative in a alternatives are available), the principal-agent stream that agency problems exist and that various contract Whereas the positivist stream lays the foundation (i.e.

among a sample of electronics firms. The most powthe difficulty of measuring outcomes (measured by based) and a corporate sales force (behavior-based) positively related to using a corporate sales force Consistent with agency predictions, this variable was amount of nonselling tasks and joint team sales). erful explanatory variable was from agency theory: between a manufacturer's representative (outcomeagency variables. Specifically, she examined the choice integration using a transaction cost perspective with (behavior-based contract). In one study, Anderson (1985) probed vertical

study (1988) added additional agency variables and (1985) included only agency variables, while a later of salespeople in retailing. The original study based) and salary (behavior-based) compensation the choice between commission (outcome-In other studies, Eisenhardt (1985, 1988) examined

> choice. Institutional variables were significant as well significantly predict the salary versus commission ured by number of competitors and failure rates) control), and outcome uncertainty variables (measagency theory predictions that task programmability, institutional theory predictions. The results supported information systems (measured by the span of

predictions. pay. They also found support for the institutional could monitor the agent's behavior) were negatively systems (manipulated by whether or not the principal (Harris and Raviv, 1978), they found that information tional predictions. Consistent with agency theory a multiperiod design to test both agency and institurelated to performance-contingent (outcome-based) Eisenhardt's work in a laboratory setting. They used Conlon and Parks (1988) replicated and extended

contract) transfer pricing mechanisms. based contract) and market (outcome-based mability) and the choice between cost (behaviordecentralization (arguably a measure of task programpricing alternatives are both effeicient and equitable. ditions under which various sourcing and transfer corporations, he developed a framework based on ing. Using interviews with 150 exectives in 13 large develop a framework for understanding transfer pric-Prominent in his framework is the link between notions of agency and fairness to presecribe the con-Finally, Eccles (1985) used agency theory to

sources, laboratory experimentrs and interviews. varity of methods including questionnaires, secondary and (e) task programmability (Eccles, 1985; Eisenhardt, Eisenhardt, 1985), (d) time (Conlon and Parks, 1988), Eisenhardt, 1985), (b) outcome uncertainty (Eisenhardt, systems (Conlon and Parks, 1988; Eccles, 1985; hypotheses linking contract form with (a) information 1985). Moreover, this support rests on research using a 1985), (c) outcome measureability (Anderson, 1985; In summary, there is support for the principal—agent

THEORY RESEARCH RECOMMENDATIONS FOR AGENCY

to organization theory, is testable, and has empirical structure. Five specific recommendations are adoption of an agency theory perspective when invessupport. Overall, it seems reasonable to urge the As argued above, agency theory makes contributions tigating the many problems that have a principal—agent

outlined below for using agency theory in organiza tional research

Focus on information systems, outcome uncertainty, and risk

study of familiar topics such as impression manageemphasis on these variables in order to advance make the most unique contribution to organizational strategic alliances, and board relationships. ment, innovation, vertical integration, compensation, tion (Table 3). It is important that researchers place research, yet they have received little empirical attencome uncertainty, and risk. These agency variables Researchers should focus on information systems, outnext steps for agency theory research are clear edge accrual process. Using this accrual criterion, McGrath et al. (1981) argued that research is a knowlagency theory and to provide new concepts in the

Wehrung (1986), and March and Shapira (1987), the measuring risk preferences. By relying on the works of Shapira, 1987, for a review.) characteristics such as gain versus loss. (See March characteristics such age and wealth and payoff lotteries and indirect measures using demographic include direct measures of risk preference such as ence more easily and realistically. These techiniques organizational researcher can measure risk preferlarly opportune because of recent advances in Kahneman and Tversky (1979), MacCrimmon and Studying risk and outcome uncertainly is particu-

Key on theory-relevant contexts

in which the theory appears to have greatest relevance. For example, institutional and resource Organizational theory usually is explored in settings theory: Key on theory-relevant contexts. tion here is to take the same approach with agency not have been a pressing concern. The recommendalarge, public bureaucracies in which efficiency may dependence theories were developed primarily in

(b) sufficient outcome uncertainty to trigger the risk managers and professionals, suppliers and buyers); opportunisms is likely (e.g. owners and managers, conflict between principals and agents, such that agent which contracting problems are difficult. These include situations in which there is (a) substantial goal Agency theory is most relevant in situations in

implications of the theory (e.g. new product innovation, young and small firms, recently deregulated industries); and (c) unprogrammmed or team-oriented jobs in which evaluation of behaviors is difficult. By emphasizing these contexts, researchers can use agency theory where it can be most rigorously tested. Topics such as innovation and settings such as technology-based firms are particularly attractive because they combine goal conflict between professionals and managers, risk, and jobs in which performance evaluation is difficult.

Expand to richer contexts

Perrow (1986) and others have criticized agency theory for being excessively narrow and having few testable implications. Although these criticisms may be extreme, they do suggest that research should be undertaken in new areas. Thus, the recommendation is to expand to a richer and more complex range of contexts.

Two areas are particularly appropriate. One is to apply the agency structure to organizational behavior topics that relate to information asymmetry (or deception) in cooperative situations. Examples of such topics are impression management (Gardner and Martinko, 1988), lying and other forms of secrecy (Sitkin, 1987), and blame (Leatherwood and Conlon, 1987). Agency theory might contribute an overall framework in which to place these various forms of self-interest, leading to a better understanding of when such behaviors will be likely and when they will be effective.

continuum between behavior and outcome contracts. spectrum of possible contracts. be enhanced if researchers would consider this broader The richness and complexity of agency theory would empirical difficulties, but they also mirror real life. mixed rewards (behavior and outcome) present motions, stock options, and salary. Both multiple and compensated through multiple rewards such as probasis. For example, upper level managers usually are ple rewards, differing by time frame and contract neglecting many situations in which there are multi-Also, current research focuses on a single reward, versus outcome. However, contracts can vary on a 1985, 1988) treats contracts as a dichotomy: behavior tives. Most research (e.g. Anderson, 1985; Eisenhardt, in this article to a broader range of contract alternaforms of behavior and outcome contracts as described The second area is expansion beyond the pure

Use multiple theories

A recent article by Hirsch et al. (1987) eloquently compared economics with sociology. They argued that economics is dominated by a single paradigm, price theory, and a single view of human nature, self-interest in contrast, the authors maintained that a strength of organizational research is its polyglot of theories that yields a more realistic view of organizations.

Consistent with the Hirsch et al. arguments, the recommendation here is to use agency theory with complementary theories. Agency theory presents a partial view of the world that, although it is valid, also ignores a good bit of the complexity of organizations, Additional perspectives can help to capture the greater complexity.

combined agency with equity theory. agency and transaction cost, and Eccles (1985), who examples include Anderson (1985), who coupled is a better understanding of compensation. Uther efficiency emphasis of agency theory, and the result tional emphasis on tradition complements the bine institutional and agency theories. The institugreenmail, respectively. Similarly, the studies by and political aspects of golden parachutes and agerialism. These persepectives emphasize the power complementary perspectives of hegemony and manport agency theory hypotheses, but they also use the and Harianto (1989) and Kosnik (1987) studies supcal studies reviewed above. For example, the Singh Eisenhardt (1988) and Conlon and Parks (1988) com-This point is demonstrated by many of the empiri-

Look beyond economics

The final recommendation is that organizational researchers should look beyond the economics literature. The advantages of economics are careful developement of assumptions and logical propositions (Hirsch et al., 1987), However, much of this careful theoretical development has already been accomplished for agency theory. For organizational researchers, the payoff now is in empirical research, where organizational researchers have comparative advantage (Hirsch et al., 1987). To rely too heavily on economics with its restrictive assumptions such as efficient markets and its single-perspective style is to risk doing second-rate economics without contributing first-rate organizational research. Therefore, although, it is appropriate to monitor developments in economics,

It is more useful to treat economics as an adjunct to more mainstream empirical work by organizational scholars.

CONCLUSION

This chapter began with two extreme positions on agency theory – one arguing that agency theory is revolutionary and a powerful foundation (Jensen, 1983) and the other arguing that the theory addresses no clear problem. is narrow, lacks testable implications, and is dangerous (Perrow 1986). A more valid perspective lies in the middle. Agency theory provides a unique, realistic, and empirically testable perspective on problems of cooperative effort. The intent of this paper is to clarify some of the confusion surrounding agency theory and to lead organizational scholars to use agency theory in their study of the broad range of principal–agent issues facing firms.

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